

















Index alphabétique *Alphabetical index* Aphabetisches Inhaltsverzeichnis
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Joint plat

Flat gaskets

Flachdichtungen

Juntas planas

Guarnizioni piatte

Juntas planas



2

Joint divers

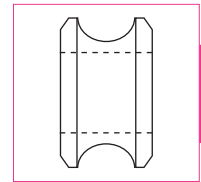
Miscellaneous gaskets

Unterschiedliche Dichtungen

Juntas diversas

Guarnizioni diverse

Juntas diversas



15

Joint rond

Round gaskets

Runddichtungen

Juntas redondas

Guarnizioni tonde

Juntas redondas



6

Joint rouge

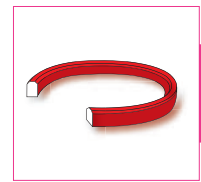
Red gaskets

Rote Dichtungen

Juntas rojas

Guarnizioni rosse

Juntas vermelhas



20

Joint mini O-Ring

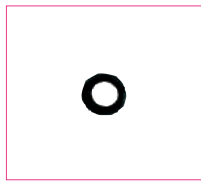
Mini O-Ring gaskets

Mini O-Ring Dichtungen

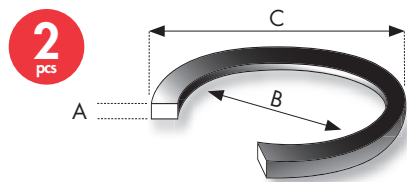
Juntas mini O-Ring

Guarnizioni mini O-Ring

Juntas mini O-Ring



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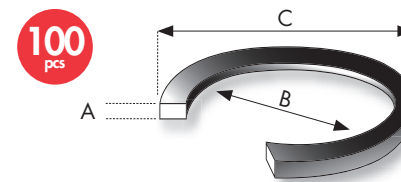


Joints plats; sachet de 2 pièces.
 Flat gaskets; bag of 2 pieces.
 Flachdichtungen; Beutel von 2 Stück.
 Juntas planas; bolsita de 2 piezas.
 Guarnizioni piatte; bustina di 2 pezzi.
 Juntas planas; saquinho de 2 peças.

MSA	A mm	B Ø mm	C Ø mm
43.050-101	0.50	15.40	16.80
43.050-102	0.50	15.70	16.90
43.050-103	0.60	16.00	17.20
43.050-104	0.50	17.00	18.20
43.050-105	0.50	17.80	18.70
43.050-106	0.50	17.80	19.50
43.050-107	0.50	18.20	19.70
43.050-108	0.50	19.20	20.30
43.050-109	0.50	19.50	20.60
43.050-110	0.50	19.80	20.80
43.050-111	0.50	19.80	21.30
43.050-112	0.50	20.00	21.60
43.050-113	0.50	20.70	21.90
43.050-114	0.50	21.00	22.20
43.050-115	0.50	21.00	22.50
43.050-116	0.50	21.90	23.50
43.050-118	0.50	22.00	24.00
43.050-120	0.50	22.10	24.90
43.050-117	0.50	22.30	23.70
43.050-119	0.50	22.80	24.50
43.050-121	0.50	23.40	25.20
43.050-122	0.50	24.00	25.20
43.050-123	0.50	24.00	25.50
43.050-124	0.50	25.10	26.50
43.050-125	0.50	26.00	27.40
43.050-126	0.50	26.10	27.70
43.050-127	0.50	26.50	28.20
43.050-128	0.50	26.50	28.50
43.050-129	0.50	26.90	28.60
43.050-130	0.50	27.25	28.75
43.050-131	0.50	27.60	29.00

MSA	A mm	B Ø mm	C Ø mm
43.050-133	0.50	27.80	30.00
43.050-132	0.50	28.00	29.50
43.050-135	0.50	28.50	30.40
43.050-134	0.50	28.80	30.20
43.050-136	0.50	29.00	30.50
43.050-138	0.50	29.30	31.30
43.050-137	0.50	29.50	31.00
43.050-139	0.50	30.00	31.50
43.050-140	0.50	30.00	32.00
43.050-142	0.50	30.00	32.50
43.050-148	0.50	30.00	33.70
43.050-141	0.50	30.50	32.30
43.050-143	0.50	31.00	33.00
43.050-145	0.50	31.40	33.20
43.050-146	0.50	31.50	33.30
43.050-147	0.50	31.50	33.50
43.050-149	0.50	31.50	33.80
43.050-144	0.50	31.60	33.00
43.050-153	0.50	31.80	34.20
43.050-150	0.50	32.00	33.80
43.050-156	0.50	32.00	35.00
43.050-151	0.50	32.20	34.00
43.050-152	0.50	32.40	34.00
43.050-155	0.50	32.50	34.30
43.050-154	0.50	32.80	34.20
43.050-157	0.50	33.20	35.20
43.050-158	0.50	33.50	35.50
43.050-159	0.50	34.10	35.80
43.050-160	0.50	35.00	37.00

Kg 0.001



Joints plats; sachet de 100 pièces.
 Flat gaskets; bag of 100 pieces.
 Flachdichtungen; Beutel von 100 Stück.
 Juntas planas; bolsita de 100 piezas.
 Guarnizioni piatte; bustina di 100 pezzi.
 Juntas planas; saquinho de 100 peças.

MSA	A mm	B Ø mm	C Ø mm
43.002-101	0.50	15.40	16.80
43.002-102	0.50	15.70	16.90
43.002-103	0.60	16.00	17.20
43.002-104	0.50	17.00	18.20
43.002-105	0.50	17.80	18.70
43.002-106	0.50	17.80	19.50
43.002-107	0.50	18.20	19.70
43.002-108	0.50	19.20	20.30
43.002-109	0.50	19.50	20.60
43.002-110	0.50	19.80	20.80
43.002-111	0.50	19.80	21.30
43.002-112	0.50	20.00	21.60
43.002-113	0.50	20.70	21.90
43.002-114	0.50	21.00	22.20
43.002-115	0.50	21.00	22.50
43.002-116	0.50	21.90	23.50
43.002-118	0.50	22.00	24.00
43.002-120	0.50	22.10	24.90
43.002-117	0.50	22.30	23.70
43.002-119	0.50	22.80	24.50
43.002-121	0.50	23.40	25.20
43.002-122	0.50	24.00	25.20
43.002-123	0.50	24.00	25.50
43.002-124	0.50	25.10	26.50
43.002-125	0.50	26.00	27.40
43.002-126	0.50	26.10	27.70
43.002-127	0.50	26.50	28.20
43.002-128	0.50	26.50	28.50
43.002-129	0.50	26.90	28.60
43.002-130	0.50	27.25	28.75
43.002-131	0.50	27.60	29.00

MSA	A mm	B Ø mm	C Ø mm
43.002-133	0.50	27.80	30.00
43.002-132	0.50	28.00	29.50
43.002-135	0.50	28.50	30.40
43.002-134	0.50	28.80	30.20
43.002-136	0.50	29.00	30.50
43.002-161	0.50	29.00	30.70
43.002-138	0.50	29.30	31.30
43.002-137	0.50	29.50	31.00
43.002-139	0.50	30.00	31.50
43.002-140	0.50	30.00	32.00
43.002-142	0.50	30.00	32.50
43.002-148	0.50	30.00	33.70
43.002-141	0.50	30.50	32.30
43.002-143	0.50	31.00	33.00
43.002-145	0.50	31.40	33.20
43.002-146	0.50	31.50	33.30
43.002-147	0.50	31.50	33.50
43.002-149	0.50	31.50	33.80
43.002-144	0.50	31.60	33.00
43.002-153	0.50	31.80	34.20
43.002-150	0.50	32.00	33.80
43.002-156	0.50	32.00	35.00
43.002-151	0.50	32.20	34.00
43.002-152	0.50	32.40	34.00
43.002-155	0.50	32.50	34.30
43.002-154	0.50	32.80	34.20
43.002-157	0.50	33.20	35.20
43.002-158	0.50	33.50	35.50
43.002-159	0.50	34.10	35.80
43.002-160	0.50	35.00	37.00

Kg 0.005



MSA	N°/No.
43.050-2920	FH-2920-B01
43.050-2980	FH-2980-B01

Kg 0.001

Joints plats type Seiko; sachet de 2 pièces.
 Flat gaskets Seiko type; bag of 2 pieces.
 Flachdichtungen Seiko Typ; Beutel von 2 Stück.
 Juntas planas tipo Seiko; bolsita de 2 piezas.
 Guarnizioni piatte tipo Seiko; bustina di 2 pezzi.
 Juntas planas tipo Seiko; saquinho de 2 peças.

50
pcs



Assortiment de joints plats; sachet de 50 pièces.
 Assortment of flat gaskets; bag of 50 pieces.
 Sortiment von Flachdichtungen; Beutel von 50 Stück.
 Surtido de juntas planas; bolsita de 50 piezas.
 Assortimento di guarnizioni piatte; bustina di 50 pezzi.
 Sortido de juntas planas; saquinho de 50 peças.

MSA	Qt.	Kg
43.030	50x	0.004

100
pcs



Assortiment de joints plats; sachet de 100 pièces.
 Assortment of flat gaskets; bag of 100 pieces.
 Sortiment von Flachdichtungen; Beutel von 100 Stück.
 Surtido de juntas planas; bolsita de 100 piezas.
 Assortimento di guarnizioni piatte; bustina di 100 pezzi.
 Sortido de juntas planas; saquinho de 100 peças.

MSA	Qt.	Kg
43.031	100x	0.006

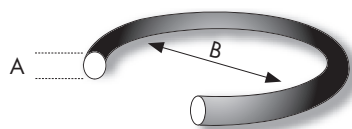


MSA	Qt.	Kg
43.521	240x	0.252

Assortiment de joints plats; boîte en bois avec 120 sachets (2 joints/sachet).
 Assortment of flat gaskets; wooden box with 120 bags (2 gaskets/bag).
 Sortiment von Flachdichtungen; Holzkasten mit 120 Beutel (2 Dichtungen/Beutel).
 Surtido de juntas planas; caja de madera con 120 bolsitas (2 juntas/bolsita).
 Assortimento di guarnizioni piatte; scatola di legno con 120 bustine (2 guarnizioni/bustina).
 Sortido de juntas planas; caixa de madeira com 120 saquinhos (2 juntas/saquinho).

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2
pcs



Joints ronds ; sachet de 2 pièces.

Round gaskets ; bag of 2 pieces.

Runddichtungen ; Beutel von 2 Stück.

Juntas redondas ; bolsita de 2 piezas.

Guarnizioni tonde ; bustina di 2 pezzi.

Juntas redondas ; saquinho de 2 peças.

MSA	A Ø mm	B Ø mm
43.041-446	0.30	30.30
43.041-404	0.35	16.50
43.041-408	0.35	17.50
43.041-410	0.35	18.00
43.041-417	0.35	20.50
43.041-433	0.35	26.50
43.041-401	0.40	15.00
43.041-402	0.40	15.50
43.041-403	0.40	15.80
43.041-406	0.40	17.00
43.041-409	0.40	17.70
43.041-412	0.40	19.20
43.041-413	0.40	19.60
43.041-414	0.40	20.00
43.041-416	0.40	20.40
43.041-418	0.40	21.00
43.041-421	0.40	21.80
43.041-424	0.40	23.00
43.041-461	0.40	24.00
43.041-462	0.40	26.00
43.041-438	0.40	28.00
43.041-441	0.40	28.90
43.041-451	0.40	31.50
43.041-426	0.42	23.50
43.041-430	0.42	25.30
43.041-407	0.45	17.30
43.041-448	0.45	30.60
43.041-405	0.50	16.50
43.040-004	0.50	17.60
43.040-005	0.50	18.00
43.041-411	0.50	18.50
43.040-007	0.50	19.20
43.040-009	0.50	19.80
43.041-415	0.50	20.00
43.041-419	0.50	21.00
43.041-420	0.50	21.50
43.041-422	0.50	22.00
43.041-425	0.50	23.00
43.041-427	0.50	24.00
43.041-428	0.50	24.60
43.041-429	0.50	25.00
43.041-431	0.50	25.70
43.041-432	0.50	26.00
43.041-434	0.50	26.80

MSA	A Ø mm	B Ø mm
43.041-435	0.50	27.20
43.041-437	0.50	27.60
43.041-439	0.50	28.30
43.041-440	0.50	28.50
43.041-442	0.50	29.00
43.041-443	0.50	29.30
43.041-444	0.50	29.60
43.041-445	0.50	29.80
43.041-449	0.50	31.00
43.041-452	0.50	31.80
43.041-453	0.50	32.00
43.041-454	0.50	32.40
43.041-455	0.50	33.00
43.040-001	0.60	15.90
43.040-002	0.60	16.50
43.040-003	0.60	17.00
43.040-006	0.60	18.30
43.040-008	0.60	19.40
43.040-011	0.60	20.00
43.041-423	0.60	22.10
43.040-063	0.60	24.00
43.040-020	0.60	26.40
43.040-068	0.60	27.00
43.041-436	0.60	27.50
43.040-024	0.60	27.70
43.040-067	0.60	28.00
43.040-065	0.60	28.50
43.040-029	0.60	28.90
43.040-035	0.60	30.00
43.041-447	0.60	30.50
43.041-450	0.60	31.20
43.041-456	0.60	33.50
43.041-457	0.60	34.00
43.041-459	0.60	36.00
43.041-460	0.60	38.30
43.040-069	0.60	38.70
43.040-070	0.60	39.00
43.040-071	0.60	39.50
43.040-072	0.60	40.50
43.040-073	0.60	41.00
43.040-074	0.60	42.50
43.040-075	0.60	43.00
43.040-076	0.60	45.80
43.040-077	0.60	47.50

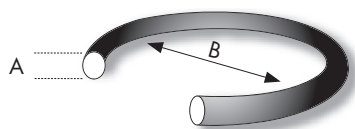
MSA	A Ø mm	B Ø mm
43.040-021	0.65	26.70
43.040-014	0.70	22.10
43.040-025	0.70	27.60
43.040-046	0.70	31.80
43.040-033	0.75	29.30
43.040-050	0.75	32.50
43.040-010	0.80	19.40
43.040-013	0.80	21.00
43.040-015	0.80	22.10
43.040-017	0.80	22.90
43.040-019	0.80	25.20
43.040-064	0.80	26.00
43.040-027	0.80	28.00
43.040-031	0.80	28.70
43.040-037	0.80	30.00
43.040-039	0.80	30.50
43.040-042	0.80	31.00
43.040-045	0.80	31.50
43.040-047	0.80	31.80
43.040-048	0.80	32.00
43.040-049	0.80	32.15
43.040-051	0.80	32.40
43.040-078	0.80	33.00
43.040-079	0.80	33.50
43.040-080	0.80	34.00
43.040-081	0.80	34.50
43.041-458	0.80	35.00
43.040-082	0.80	35.50
43.040-083	0.80	36.00
43.040-084	0.80	36.50
43.040-085	0.80	37.00
43.040-086	0.80	37.50
43.040-087	0.80	38.00
43.040-088	0.80	38.50
43.040-089	0.80	39.50
43.040-090	0.80	41.50
43.040-091	0.80	43.00
43.040-092	0.80	44.00
43.040-093	0.80	45.00
43.040-023	0.85	26.90
43.040-041	0.85	30.80
43.040-012	0.90	20.60
43.040-040	0.90	30.70
43.040-055	0.90	32.20

MSA	A Ø mm	B Ø mm
43.040-057	0.90	33.90
43.040-016	1.00	22.00
43.040-018	1.00	23.00
43.040-022	1.00	26.25
43.040-026	1.00	27.50
43.040-028	1.00	28.00
43.040-030	1.00	28.25
43.040-032	1.00	28.40
43.040-034	1.00	29.00
43.040-036	1.00	29.30
43.040-038	1.00	29.75
43.040-061	1.00	30.00
43.040-043	1.00	30.75
43.040-044	1.00	31.00
43.040-066	1.00	31.50

MSA	A Ø mm	B Ø mm
43.040-052	1.00	32.00
43.040-053	1.00	32.50
43.040-062	1.00	33.00
43.040-058	1.00	33.75
43.040-060	1.00	35.30
43.040-094	1.00	36.00
43.040-095	1.00	39.00
43.040-096	1.00	41.50
43.040-097	1.00	43.00
43.040-098	1.00	46.00
43.040-099	1.00	50.00
43.040-054	1.05	32.40
43.040-059	1.50	34.00
43.040-056	1.80	31.60

Kg 0.001

100
pcs



Joints ronds ; sachet de 100 pièces.

Round gaskets ; bag of 100 pieces.

Runddichtungen ; Beutel von 100 Stück.

Juntas redondas ; bolsita de 100 piezas.

Guarnizioni tonde ; bustina di 100 pezzi.

Juntas redondas ; saquinho de 100 peças.

MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm
43.001-446	0.30	30.30	43.001-435	0.50	27.20	43.001-021	0.65	26.70
43.001-404	0.35	16.50	43.001-437	0.50	27.60	43.001-014	0.70	22.10
43.001-408	0.35	17.50	43.001-439	0.50	28.30	43.001-025	0.70	27.60
43.001-410	0.35	18.00	43.001-440	0.50	28.50	43.001-046	0.70	31.80
43.001-417	0.35	20.50	43.001-442	0.50	29.00	43.001-033	0.75	29.30
43.001-433	0.35	26.50	43.001-443	0.50	29.30	43.001-050	0.75	32.50
43.001-401	0.40	15.00	43.001-444	0.50	29.60	43.001-010	0.80	19.40
43.001-402	0.40	15.50	43.001-445	0.50	29.80	43.001-013	0.80	21.00
43.001-403	0.40	15.80	43.001-449	0.50	31.00	43.001-015	0.80	22.10
43.001-406	0.40	17.00	43.001-452	0.50	31.80	43.001-017	0.80	22.90
43.001-409	0.40	17.70	43.001-453	0.50	32.00	43.001-019	0.80	25.20
43.001-412	0.40	19.20	43.001-454	0.50	32.40	43.001-064	0.80	26.00
43.001-413	0.40	19.60	43.001-455	0.50	33.00	43.001-027	0.80	28.00
43.001-414	0.40	20.00	43.001-001	0.60	15.90	43.001-031	0.80	28.70
43.001-416	0.40	20.40	43.001-002	0.60	16.50	43.001-037	0.80	30.00
43.001-418	0.40	21.00	43.001-003	0.60	17.00	43.001-039	0.80	30.50
43.001-421	0.40	21.80	43.001-006	0.60	18.30	43.001-042	0.80	31.00
43.001-424	0.40	23.00	43.001-008	0.60	19.40	43.001-045	0.80	31.50
43.001-461	0.40	24.00	43.001-011	0.60	20.00	43.001-047	0.80	31.80
43.001-462	0.40	26.00	43.001-423	0.60	22.10	43.001-048	0.80	32.00
43.001-438	0.40	28.00	43.001-063	0.60	24.00	43.001-049	0.80	32.15
43.001-441	0.40	28.90	43.001-020	0.60	26.40	43.001-051	0.80	32.40
43.001-451	0.40	31.50	43.001-068	0.60	27.00	43.001-078	0.80	33.00
43.001-426	0.42	23.50	43.001-436	0.60	27.50	43.001-079	0.80	33.50
43.001-430	0.42	25.36	43.001-024	0.60	27.70	43.001-080	0.80	34.00
43.001-407	0.45	17.30	43.001-067	0.60	28.00	43.001-081	0.80	34.50
43.001-448	0.45	30.60	43.001-065	0.60	28.50	43.001-458	0.80	35.00
43.001-405	0.50	16.50	43.001-029	0.60	28.90	43.001-082	0.80	35.50
43.001-004	0.50	17.60	43.001-035	0.60	30.00	43.001-083	0.80	36.00
43.001-005	0.50	18.00	43.001-447	0.60	30.50	43.001-084	0.80	36.50
43.001-411	0.50	18.50	43.001-450	0.60	31.20	43.001-085	0.80	37.00
43.001-007	0.50	19.20	43.001-456	0.60	33.50	43.001-086	0.80	37.50
43.001-009	0.50	19.80	43.001-457	0.60	34.00	43.001-087	0.80	38.00
43.001-415	0.50	20.00	43.001-459	0.60	36.00	43.001-088	0.80	38.50
43.001-419	0.50	21.00	43.001-460	0.60	38.30	43.001-089	0.80	39.50
43.001-420	0.50	21.50	43.001-069	0.60	38.70	43.001-090	0.80	41.50
43.001-422	0.50	22.00	43.001-070	0.60	39.00	43.001-091	0.80	43.00
43.001-425	0.50	23.00	43.001-071	0.60	39.50	43.001-092	0.80	44.00
43.001-427	0.50	24.00	43.001-072	0.60	40.50	43.001-093	0.80	45.00
43.001-428	0.50	24.60	43.001-073	0.60	41.00	43.001-023	0.85	26.90
43.001-429	0.50	25.00	43.001-074	0.60	42.50	43.001-041	0.85	30.80
43.001-431	0.50	25.70	43.001-075	0.60	43.00	43.001-012	0.90	20.60
43.001-432	0.50	26.00	43.001-076	0.60	45.80	43.001-040	0.90	30.70
43.001-434	0.50	26.80	43.001-077	0.60	47.50	43.001-055	0.90	32.20

MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm
43.001-057	0.90	33.90	43.001-052	1.00	32.00
43.001-016	1.00	22.00	43.001-053	1.00	32.50
43.001-018	1.00	23.00	43.001-062	1.00	33.00
43.001-022	1.00	26.25	43.001-058	1.00	33.75
43.001-026	1.00	27.50	43.001-060	1.00	35.30
43.001-028	1.00	28.00	43.001-094	1.00	36.00
43.001-030	1.00	28.25	43.001-095	1.00	39.00
43.001-032	1.00	28.40	43.001-096	1.00	41.50
43.001-034	1.00	29.00	43.001-097	1.00	43.00
43.001-036	1.00	29.30	43.001-098	1.00	46.00
43.001-038	1.00	29.75	43.001-099	1.00	50.00
43.001-061	1.00	30.00	43.001-054	1.05	32.40
43.001-043	1.00	30.75	43.001-059	1.50	34.00
43.001-044	1.00	31.00	43.001-056	1.80	31.60
43.001-066	1.00	31.50			

Kg 0.003

25
pcs



Assortiment de joints ronds, sections Ø 0.30...0.45 mm ; sachet de 25 pièces.
 Assortment of round gaskets, sections Ø 0.30...0.45 mm ; bag of 25 pieces.
 Sortiment von Runddichtungen, Sektionen Ø 0.30...0.45 mm ; Beutel von 25 Stück.
 Surtido de juntas redondas, secciones Ø 0.30...0.45 mm ; bolsita de 25 piezas.
 Assortimento di guarnizioni tonde, sezioni Ø 0.30...0.45 mm ; bustina di 25 pezzi.
 Sortido de juntas redondas, secções Ø 0.30...0.45 mm ; saquinho de 25 peças.

MSA	Qt.	Kg
43.043	25x	0.003

50
pcs



Assortiment de joints ronds, sections Ø 0.50 et 0.60 mm ; sachet de 50 pièces.
 Assortment of round gaskets, sections Ø 0.50 and 0.60 mm ; bag of 50 pieces.
 Sortiment von Runddichtungen, Sektionen Ø 0.50 und 0.60 mm ; Beutel von 50 Stück.
 Surtido de juntas redondas, secciones Ø 0.50 y 0.60 mm ; bolsita de 50 piezas.
 Assortimento di guarnizioni tonde, sezioni Ø 0.50 e 0.60 mm ; bustina di 50 pezzi.
 Sortido de juntas redondas, secções Ø 0.50 e 0.60 mm ; saquinho de 50 peças.

MSA	Qt.	Kg
43.044	50x	0.004

100
pcs



Assortiment de joints ronds, sections Ø 0.65...1.80 mm ; sachet de 100 pièces.
 Assortment of round gaskets, sections Ø 0.65...1.80 mm ; bag of 100 pieces.
 Sortiment von Runddichtungen, Sektionen Ø 0.65...1.80 mm ; Beutel von 100 Stück.
 Surtido de juntas redondas, secciones Ø 0.65...1.80 mm ; bolsita de 100 piezas.
 Assortimento di guarnizioni tonde, sezioni Ø 0.65...1.80 mm ; bustina di 100 pezzi.
 Sortido de juntas redondas, secções Ø 0.65...1.80 mm ; saquinho de 100 peças.

MSA	Qt.	Kg
43.045	100x	0.006



MSA	Qt.	Kg
43.511	322x	0.280

Assortiment de joints ronds ; boîte en bois avec 161 sachets (2 joints/sachet).
 Assortment of round gaskets ; wooden box with 161 bags (2 gaskets/bag).
 Sortiment von Runddichtungen ; Holzkasten mit 161 Beutel (2 Dichtungen/Beutel).
 Surtido de juntas redondas ; caja de madera con 161 bolsitas (2 juntas/bolsita).
 Assortimento di guarnizioni tonde ; scatola di legno con 161 bustine (2 guarnizioni/bustina).
 Sortido de juntas redondas ; caixa de madeira com 161 saquinhos (2 juntas/saquinho).

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
161 modèles - models - Modelle - modelos - modelli - modelos
1x MSA43.040-001...-099
1x MSA43.041-401...-462

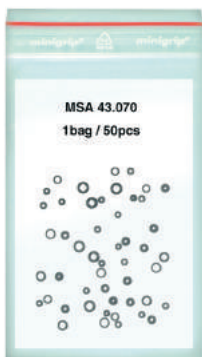
50
pcs



Assortiment de joints ronds, pour trappes de piles ; sachet de 50 pièces.
 Assortment of round gaskets, for battery covers ; bag of 50 pieces.
 Sortiment von Runddichtungen, für Batteriedeckel ; Beutel von 50 Stück.
 Surtido de juntas redondas, para tapas de pilas ; bolsita de 50 piezas.
 Assortimento di guarnizioni tonde, per tappi di pile ; bustina di 50 pezzi.
 Sortido de juntas redondas, para tampas de pilhas ; saquinho de 50 peças.

MSA	Qt.	Kg
43.060	50x	0.003

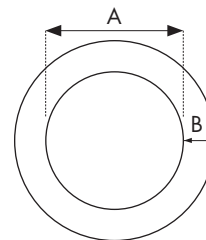
50
pcs



Assortiment de joints ronds, pour couronnes et poussoirs ; sachet de 50 pièces.
 Assortment of round gaskets, for crowns and pushers ; bag of 50 pieces.
 Sortiment von Runddichtungen, für Kronen und Drücker ; Beutel von 50 Stück.
 Surtido de juntas redondas, para coronas y pulsadores ; bolsita de 50 piezas.
 Assortimento di guarnizioni tonde, per corone e pulsanti ; bustina di 50 pezzi.
 Sortido de juntas redondas, para coroas e botões ; saquinho de 50 peças.

MSA	Qt.	Kg
43.070	50x	0.002

100
pcs



Joint mini O-Ring ; sachet de 100 pièces.
 Mini O-Ring gaskets ; bag of 100 pieces.
 Mini O-Ring Dichtungen ; Beutel von 100 Stück.
 Juntas mini O-Ring ; bolsita de 100 piezas.
 Guarnizioni mini O-Ring ; bustina di 100 pezzi.
 Juntas mini O-Ring ; saquinho de 100 peças.

MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm
43.080-001	0.50	0.30	43.080-018	1.20	0.40
43.080-002	0.50	0.40	43.080-019	1.20	0.60
43.080-003	0.50	0.50	43.080-020	1.30	0.40
43.080-004	0.60	0.35	43.080-021	1.30	0.50
43.080-005	0.60	0.40	43.080-022	1.40	0.40
43.080-006	0.60	0.50	43.080-023	1.40	0.50
43.080-007	0.60	0.55	43.080-024	1.40	0.60
43.080-008	0.60	0.65	43.080-025	1.50	0.50
43.080-009	0.70	0.40	43.080-026	1.50	0.75
43.080-010	0.70	0.50	43.080-027	1.60	0.50
43.080-011	0.70	0.60	43.080-028	1.60	0.70
43.080-012	0.80	0.40	43.080-029	1.80	0.40
43.080-013	0.80	0.50	43.080-030	1.80	0.60
43.080-014	0.80	0.60	43.080-031	1.80	0.80
43.080-015	1.00	0.40	43.080-032	2.00	0.50
43.080-016	1.00	0.50	43.080-033	2.00	0.60
43.080-017	1.00	0.60	43.080-034	2.50	0.65

Kg 0.003

43.080-001	43.080-002	43.080-003	43.080-004	43.080-005	43.080-006	43.080-007	43.080-008	43.080-009
ASSORTIMENT DE JOINTS O-RING Ø INT. 0.50...1.00 mm ASSORTMENT OF O-RING GASKETS Ø INT. 0.50...1.00 mm SURTIDTO DE JUNTAS O-RING Ø INT. 0.50...1.00 mm ASSORTIMENTO DI GUARNIZIONI O-RING Ø INT. 0.50...1.00 mm								
MSA 99.226								170 PCS
43.080-010	43.080-011	43.080-012	43.080-013	43.080-014	43.080-015	43.080-016	43.080-017	43.080-018

Assortiment de joints mini O-Ring, Ø int. 0.50...1.00 mm.
 Assortment of mini O-Ring gaskets, Ø int. 0.50...1.00 mm.
 Sortiment von mini O-Ring Dichtungen, Ø inn. 0.50...1.00 mm.
 Surtido de juntas mini O-Ring, Ø int. 0.50...1.00 mm.
 Assortimento di guarnizioni mini O-Ring, Ø int. 0.50...1.00 mm.
 Sortido de juntas mini O-Ring, Ø int. 0.50...1.00 mm.

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17 modèles - models - Modelle - modelos - modelli - modelos
10x MSA43.080-001 /-002 /-003 /-004 /-005 /-006 /-007 /-008
/-009 /-010 /-011 /-012 /-013 /-014 /-015 /-016 /-017

MSA	Qt.	Kg
99.226	170x	0.035

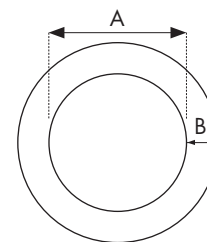
43.080-018	43.080-019	43.080-020	43.080-021	43.080-022	43.080-023	43.080-024	43.080-025	43.080-026
ASSORTIMENT DE JOINTS O-RING Ø INT. 1.20...2.50 mm ASSORTMENT OF O-RING GASKETS Ø INT. 1.20...2.50 mm SURTIDTO DE JUNTAS O-RING Ø INT. 1.20...2.50 mm ASSORTIMENTO DI GUARNIZIONI O-RING Ø INT. 1.20...2.50 mm								
MSA 99.227								170 PCS
43.080-027	43.080-028	43.080-029	43.080-030	43.080-031	43.080-032	43.080-033	43.080-034	43.080-035

Assortiment de joints mini O-Ring, Ø int. 1.20...2.50 mm.
 Assortment of mini O-Ring gaskets, Ø int. 1.20...2.50 mm.
 Sortiment von mini O-Ring Dichtungen, Ø inn. 1.20...2.50 mm.
 Surtido de juntas mini O-Ring, Ø int. 1.20...2.50 mm.
 Assortimento di guarnizioni mini O-Ring, Ø int. 1.20...2.50 mm.
 Sortido de juntas mini O-Ring, Ø int. 1.20...2.50 mm.

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17 modèles - models - Modelle - modelos - modelli - modelos
10x MSA43.080-018 /-019 /-020 /-021 /-022 /-023 /-024 /-025
/-026 /-027 /-028 /-029 /-030 /-031 /-032 /-033 /-034

MSA	Qt.	Kg
99.227	170x	0.035

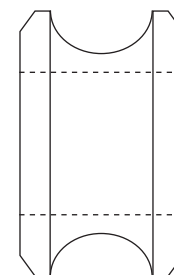
10 pcs



MSA	1/1	A Ø x B Ø mm	Kg
43.003	°	0.70 x 0.50	0.001

Joint rond pour tubes (intérieur) ; sachet de 10 pièces.
 Round gasket for tubes (interior) ; bag of 10 pieces.
 Runddichtung für Röhre (Innen) ; Beutel von 10 Stück.
 Junta redonda para tubos (interior) ; bolsita de 10 piezas.
 Guarnizione tonda per tubi (interno) ; bustina di 10 pezzi.
 Junta redonda para tubos (interior) ; saquinho de 10 peças.

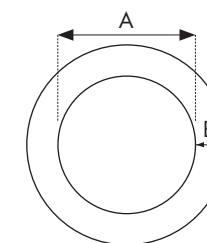
10 pcs



MSA	1/1	Kg
43.006	○	0.001

Joint pour tube spécial MSA47.101 (voir page 6-4) ; sachet de 10 pièces.
 Gasket for special tube MSA47.101 (see page 6-4) ; bag of 10 pieces.
 Dichtung für spezieller Rohr MSA47.101 (siehe Seite 6-4) ; Beutel von 10 Stück.
 Junta para tubo especial MSA47.101 (ver página 6-4) ; bolsita de 10 piezas.
 Guarnizione per tubo speciale MSA47.101 (vedere pagina 6-4) ; bustina di 10 pezzi.
 Junta para tubo especial MSA47.101 (ver página 6-4) ; saquinho de 10 peças.

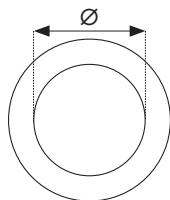
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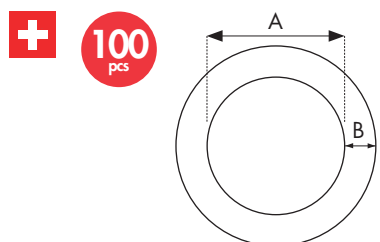
MSA	A Ø x B Ø mm	Tube	Kg
65.003-A	1.40 x 0.70	MSA 65.003	0.001
65.004-A	1.40 x 0.70	MSA 65.004	0.001
65.001-A	1.50 x 0.75	MSA 65.001	0.001
65.002-A	1.70 x 0.80	MSA 65.002	0.001
65.005-A	1.70 x 0.80	MSA 65.005	0.001
65.006-A	1.70 x 0.80	MSA 65.006	0.001

Joints ronds pour tubes à vis MSA65.00x.
 Round gaskets for screw-on tubes MSA65.00x.
 Runddichtungen für Schraubröhre MSA65.00x.
 Juntas redondas para tubos de rosca MSA65.00x.
 Guarnizioni tonde per tubi a vite MSA65.00x.
 Juntas redondas para tubos de rosca MSA65.00x.

MSA	1/1	Pour tube/ For tube	Kg
MSA43.100		5.30	0.001
MSA43.101		6.00	0.001
MSA43.102		7.00	0.001
MSA43.103		7.03	0.001
MSA43.104		7.03	0.001

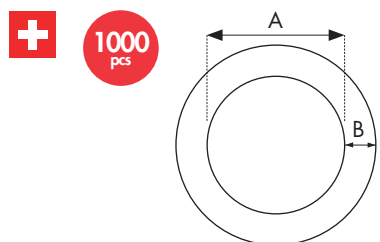


Joints ronds pour tubes à vis.
 Round gaskets for screw-on tubes.
 Runddichtungen für Schraubröhre.
 Juntas redondas para tubos de rosca.
 Guarnizioni tonde per tubi a vite.
 Juntas redondas para tubos de rosca.



MSA	A Ø x B Ø mm	N°/No.	Kg
43.018	2.00 x 0.50	OM 088NS0435	0.080
43.019	3.20 x 0.60	OM 088NS0436	0.080

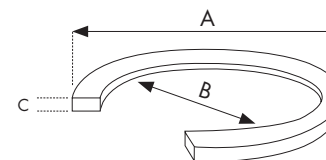
Joints O'Ring; sachet de 100 pièces.
 O'Ring gaskets; bag of 100 pieces.
 O'Ring Dichtungen; Beutel von 100 Stück.
 Juntas O'Ring; bolsita de 100 piezas.
 Guarnizioni O'Ring; bustina di 100 pezzi.
 Juntas O'Ring; saquinho de 100 peças.



MSA	A Ø x B Ø mm	Kg
43.032	2.50 x 0.60	0.080

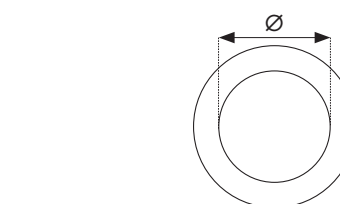
Joint O'Ring; sachet de 1000 pièces.
 O'Ring gasket; bag of 1000 pieces.
 O'Ring Dichtung; Beutel von 1000 Stück.
 Junta O'Ring; bolsita de 1000 piezas.
 Guarnizione O'Ring; bustina di 1000 pezzi.
 Junta O'Ring; saquinho de 1000 peças.

10
pcs



MSA	1/1	A Ø x B Ø x C mm	Kg
43.005		3.50 x 2.50 x 0.30	0.001
43.004		4.00 x 2.80 x 0.35	0.001

Joints plats pour couronnes à vis (intérieur); sachet de 10 pièces.
 Flat gaskets for screw-on crowns (interior); bag of 10 pieces.
 Flachdichtungen für Schraubkronen (Innen); Beutel von 10 Stück.
 Juntas planas para coronas de rosca (interior); bolsita de 10 piezas.
 Guarnizioni piatte per corone a vite (interno); bustina di 10 pezzi.
 Juntas planas para coroas de rosca (interior); saquinho de 10 peças.



MSA	1/1	Pour tube/ For tube	Kg
MSA43.120		5.30	0.001
MSA43.121		6.00	0.001
MSA43.122		7.00	0.001

Joints plats pour couronnes à vis.
 Flat gaskets for screw-on crowns.
 Flachdichtungen für Schraubkronen.
 Juntas planas para coronas de rosca.
 Guarnizioni piatte per corone a vite.
 Juntas planas para coroas de rosca.

MSA	1/1	Ø int. x section Ø mm	Kg
MSA43.150		1.20 x 0.40	0.001
MSA43.140		2.60 x 0.60	0.001

Joints ronds pour couronnes à vis.
 Round gaskets for screw-on crowns.
 Runddichtungen für Schraubkronen.
 Juntas redondas para coronas de rosca.
 Guarnizioni tonde per corone a vite.
 Juntas redondas para coroas de rosca.

MSA 43.100 TUBE GASKET Ø 5.30 5 pieces	MSA 43.120 CROWN GASKET Ø 5.30 5 pieces	MSA 43.101 TUBE GASKET Ø 6.00 5 pieces	MSA 43.121 CROWN GASKET Ø 6.00 5 pieces	MSA 43.102 TUBE GASKET Ø 7.00 5 pieces	MSA 43.122 CROWN GASKET Ø 7.00 5 pieces
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Assortiment de joints ronds et plats pour tubes et couronnes à vis.
 Assortment of round and flat gaskets for tubes and screw-on crowns.
 Sortiment von Rund- und Flachdichtungen für Röhre und Schraubkronen.
 Sortido de juntas redondas y planas para tubos y coronas de rosca.
 Assortimento di guarnizioni tonde e piatte per tubi e corone a vite.
 Sortido de juntas redondas e planas para tubos e coroas de rosca.

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10 modèles - models - Modelle - modelos - modelli - modelos
5x MSA43.100 /.101 /.102 /.104 /.120 /.121 /.122 /.140 /.150
15x MSA43.103

MSA	Qt.	Kg
99.131	60x	0.025

MSA 43.100 TUBE GASKET Ø 5.30 5 pieces	MSA 43.120 CROWN GASKET Ø 5.30 5 pieces	MSA 43.101 TUBE GASKET Ø 6.00 5 pieces	MSA 43.121 CROWN GASKET Ø 6.00 5 pieces
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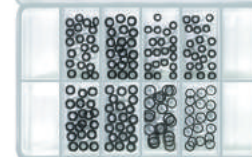
Assortiment de joints ronds et plats pour tubes et couronnes à vis.
 Assortment of round and flat gaskets for tubes and screw-on crowns.
 Sortiment von Rund- und Flachdichtungen für Röhre und Schraubkronen.
 Sortido de juntas redondas y planas para tubos y coronas de rosca.
 Assortimento di guarnizioni tonde e piatte per tubi e corone a vite.
 Sortido de juntas redondas e planas para tubos e coroas de rosca.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
5x MSA43.100 /.101 /.102 /.104 /.120 /.121 /.122
15x MSA43.103

MSA	Qt.	Kg
99.136	50x	0.025



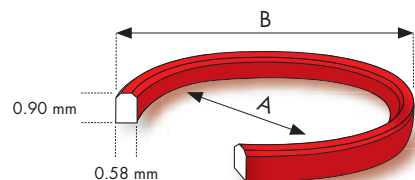
MS 001-A Ø1 100 pieces	MS 002-A Ø2 100 pieces	MS 003-A Ø3 100 pieces	MS 004-A Ø4 100 pieces
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Assortiment de joints ronds et plats pour tubes et couronnes à vis.
 Assortment of round and flat gaskets for tubes and screw-on crowns.
 Sortiment von Rund- und Flachdichtungen für Röhre und Schraubkronen.
 Sortido de juntas redondas y planas para tubos y coronas de rosca.
 Assortimento di guarnizioni tonde e piatte per tubi e corone a vite.
 Sortido de juntas redondas e planas para tubos e coroas de rosca.

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8 modèles - models - Modelle - modelos - modelli - modelos
20x MSA43.004 /.005 /65.001-A /.002-A /.003-A /.004-A
/ .005-A / .006-A

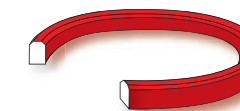
MSA	Qt.	Kg
99.115	160x	0.149



Joints rouges.
Red gaskets.
Rote Dichtungen.
Juntas rojas.
Guarnizioni rosse.
Juntas vermelhas.

MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm
43.052-796	14.84	16.00	43.052-816	24.84	26.00	43.052-835	34.34	35.50
43.052-797	15.34	16.50	43.052-817	25.34	26.50	43.052-836	34.84	36.00
43.052-798	15.84	17.00	43.052-818	25.84	27.00	43.052-837	35.34	36.50
43.052-799	16.34	17.50	43.052-819	26.34	27.50	43.052-838	35.84	37.00
43.052-800	16.84	18.00	43.052-820	26.84	28.00	43.052-839	36.34	37.50
43.052-801	17.34	18.50	43.052-821	27.34	28.50	43.052-840	36.84	38.00
43.052-802	17.84	19.00	43.052-822	27.84	29.00	43.052-841	37.34	38.50
43.052-803	18.34	19.50	43.052-823	28.34	29.50	43.052-842	37.84	39.00
43.052-804	18.84	20.00	43.052-824	28.84	30.00	43.052-843	38.34	39.50
43.052-805	19.34	20.50	43.052-825	29.34	30.50	43.052-844	38.84	40.00
43.052-806	19.84	21.00	43.052-826	29.84	31.00	43.052-845	39.34	40.50
43.052-807	20.34	21.50	43.052-827	30.34	31.50	43.052-846	39.84	41.00
43.052-808	20.84	22.00	43.052-828	30.84	32.00	43.052-847	40.34	41.50
43.052-809	21.34	22.50	43.052-829	31.34	32.50	43.052-848	40.84	42.00
43.052-810	21.84	23.00	43.052-830	31.84	33.00	43.052-849	41.34	42.50
43.052-811	22.34	23.50	43.052-831	32.34	33.50	43.052-850	41.84	43.00
43.052-812	22.84	24.00	43.052-832	32.84	34.00	43.052-851	42.34	43.50
43.052-813	23.34	24.50	43.052-832A	33.05	34.00	43.052-852	42.84	44.00
43.052-814	23.84	25.00	43.052-833	33.34	34.50			
43.052-815	24.34	25.50	43.052-834	33.84	35.00			

Kg 0.001



Assortiment de joints rouges ; boîte en bois avec 58 sachets (1 joint/sachet).

Assortiment of red gaskets ; wooden box with 58 bags (1 gasket/bag).

Sortiment von rote Dichtungen ; Holzkasten mit 58 Beutel (1 Dichtung/Beutel).

Surtido de juntas rojas ; caja de madera con 58 bolsitas (1 junta/bolsita).

Assortimento di guarnizioni rosse ; scatola di legno con 58 buste (1 guarnizione/busta).

Sortido de juntas vermelhas ; caixa de madeira com 58 saquinhos (1 junta/saquinho).

MSA	Qt.	Kg
43.532	58x	0.215

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :

58 modèles - models - Modelle - modelos - modelli - modelos

1x MSA43.052-796 /-797 /-798 /-799 /-800 /-801 /-802 /-803 /-804 /-805 /-806 /-807 /-808 /-809 /-810 /-811 /-812 /-813 /-814 /-815 /-816 /-817 /-818 /-819 /-820 /-821 /-822 /-823 /-824 /-825 /-826 /-827 /-828 /-829 /-830 /-831 /-832 /-832-A /-833 /-834 /-835 /-836 /-837 /-838 /-839 /-840 /-841 /-842 /-843 /-844 /-845 /-846 /-847 /-848 /-849 /-850 /-851 /-852

i Voir le chapitre des VERRES pour les joints en Hytrel et Zytel, page 11 15.

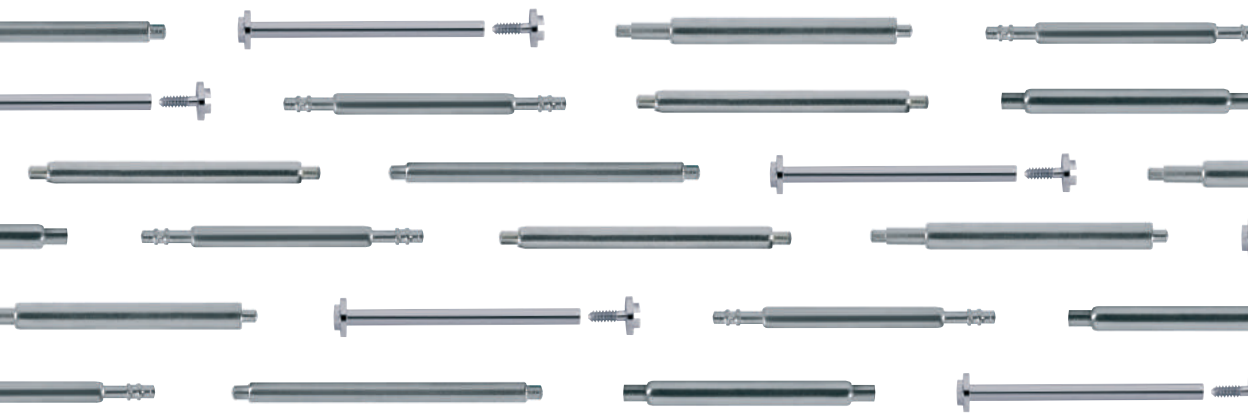
See the chapter of CRYSTALS for Hytrel and Zytel gaskets, page 11 15.

Siehe das Kapitel der GLÄSER für die Dichtungen aus Hytrel und Zytel, Seite 11 15.

Ver el capítulo de los CRISTALES para las juntas en Hytrel y Zytel, página 11 15.

Vedere il capitolo dei VETRI per le guarnizioni in Hytrel e Zytel, pagina 11 15.

Ver o capítulo dos VIDROS para as juntas em Hytrel e Zytel, página 11 15.



BARRETTES SPRING BARS FEDERSTEGE PASADORES ANSE PINOS

Barrettes de sécurité
Flanged spring bars
 Doppel-Ansatz Federstege
Pasadores de seguridad
 Anse di sicurezza
Pinos de segurança



4

Barrettes universelles
Universal spring bars
 Universelle Federstege
Pasadores universales
 Anse universali
Pinos universais

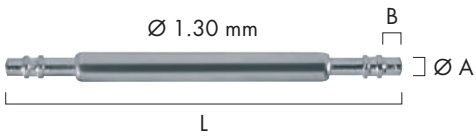


26

Barrettes simples
Regular spring bars
 Einfache Federstege
Pasadores sencillos
 Anse semplici
Pinos simples



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- L = distance des entre-cornes.
- L = distance between the lugs.
- L = Bügelabstand.
- L = distancia entre las asas.
- L = distanza tra le anse.
- L = distância entre as asas.

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Barrettes pour fermoirs
 Spring bars for clasps
 Federstege für Schliessen
 Pasadores para cierres
 Anse per chiusure
 Pinos para fechos

40



Barrettes spéciales
 Special spring bars
 Spezielle Federstege
 Pasadores especiales
 Anse speciali
 Pinos especiais

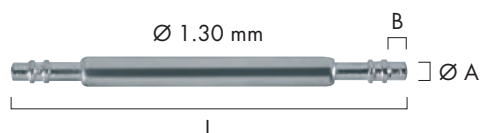
43



Barrettes femelles
 Female spring bars
 Weibliche Federstege
 Pasadores hembra
 Anse femmine
 Pinos fêmeos



L = distance des entre-cornes.
 L = distance between the lugs.
 L = Bügelabstand.
 L = distancia entre las asas.
 L = distanza tra le anse.
 L = distância entre as asas.



Barrettes à pression
 Press-in spring bars
 Druckfederstege
 Pasadores de presión
 Anse a pressione
 Pinos de pressão

45

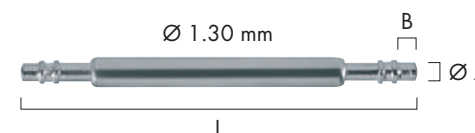


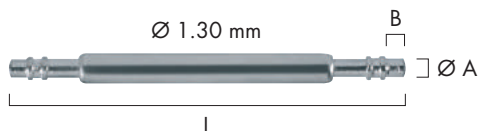
Barrettes à vis
 Screw-on spring bars
 Schraubfederstege
 Pasadores de rosca
 Anse a vite
 Pinos de rosca

54



L = distance des entre-cornes.
 L = distance between the lugs.
 L = Bügelabstand.
 L = distancia entre las asas.
 L = distanza tra le anse.
 L = distância entre as asas.





Barrettes double sécurité; acier inoxydable.
 Double flanged spring bars; stainless steel.
 Doppel-Ansatz Federstege; Edelstahl.
 Pasadores doble seguridad; acero inoxidable.
 Anse doppia sicurezza; acciaio inossidabile.
 Pinos dupla segurança; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.300-06	6	0.80 x 0.80	0.005
46.300-07	7	0.80 x 0.80	0.005
46.300-08	8	0.80 x 0.80	0.006
46.300-09	9	0.80 x 0.80	0.006
46.300-10	10	0.80 x 0.80	0.007
46.300-11	11	0.80 x 0.80	0.008
46.300-12	12	0.80 x 0.80	0.008
46.300-13	13	0.80 x 0.80	0.009
46.300-14	14	0.80 x 0.80	0.010
46.300-15	15	0.80 x 0.80	0.010
46.300-16	16	0.80 x 0.80	0.010
46.300-17	17	0.80 x 0.80	0.012
46.300-18	18	0.80 x 0.80	0.012
46.300-19	19	0.80 x 0.80	0.012
46.300-20	20	0.80 x 0.80	0.013

10
pcs

MSA	L mm	Ø A x B mm	Kg
46.301-06	6	0.80 x 0.80	0.001
46.301-07	7	0.80 x 0.80	0.001
46.301-08	8	0.80 x 0.80	0.001
46.301-09	9	0.80 x 0.80	0.001
46.301-10	10	0.80 x 0.80	0.001
46.301-11	11	0.80 x 0.80	0.002
46.301-12	12	0.80 x 0.80	0.002
46.301-13	13	0.80 x 0.80	0.002
46.301-14	14	0.80 x 0.80	0.002
46.301-15	15	0.80 x 0.80	0.002
46.301-16	16	0.80 x 0.80	0.002
46.301-17	17	0.80 x 0.80	0.002
46.301-18	18	0.80 x 0.80	0.002
46.301-19	19	0.80 x 0.80	0.002
46.301-20	20	0.80 x 0.80	0.002



MSA	Qt.	Kg
99.027	100x	0.036

Assortiment de barrettes double sécurité; acier inoxydable.
 Assortment of double flanged spring bars; stainless steel.
 Sortiment von Doppel-Ansatz Federstege; Edelstahl.
 Surtido de pasadores doble seguridad; acero inoxidable.
 Assortimento di anse doppia sicurezza; acciaio inossidabile.
 Sortido de pinos dupla segurança; aço inoxidável.

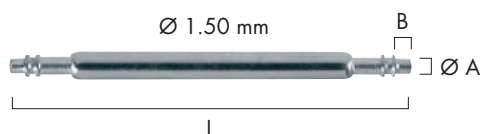
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.300-06 /-08 /-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20



MSA	Qt.	Kg
99.058	1'000x	0.389

Assortiment de barrettes double sécurité; acier inoxydable.
 Assortment of double flanged spring bars; stainless steel.
 Sortiment von Doppel-Ansatz Federstege; Edelstahl.
 Surtido de pasadores doble seguridad; acero inoxidable.
 Assortimento di anse doppia sicurezza; acciaio inossidabile.
 Sortido de pinos dupla segurança; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
15 modèles - models - Modelle - modelos - modelli - modelos
1x MSA15.003
50x MSA46.300-06 /-07 /-08 /-09 /-10 /-11 /-13 /-15 /-17 /-19
100x MSA46.300-12 /-14 /-16 /-18 /-20



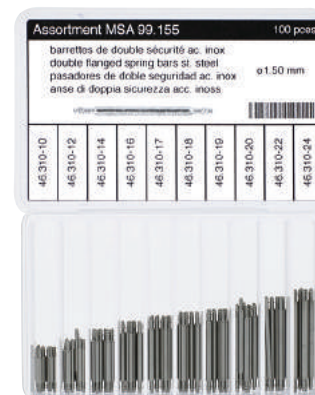
Barrettes double sécurité ; acier inoxydable.
 Double flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores doble seguridad ; acero inoxidable.
 Anse doppia sicurezza ; acciaio inossidabile.
 Pinos dupla segurança ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.310-07	7	0.80 x 0.80	0.007
46.310-08	8	0.80 x 0.80	0.007
46.310-09	9	0.80 x 0.80	0.008
46.310-10	10	0.80 x 0.80	0.009
46.310-11	11	0.80 x 0.80	0.009
46.310-12	12	0.80 x 0.80	0.010
46.310-13	13	0.80 x 0.80	0.012
46.310-14	14	0.80 x 0.80	0.012
46.310-15	15	0.80 x 0.80	0.013
46.310-16	16	0.80 x 0.80	0.013
46.310-17	17	0.80 x 0.80	0.014
46.310-18	18	0.80 x 0.80	0.015
46.310-19	19	0.80 x 0.80	0.015
46.310-20	20	0.80 x 0.80	0.016
46.310-21	21	0.80 x 0.80	0.016
46.310-22	22	0.80 x 0.80	0.017
46.310-23	23	0.80 x 0.80	0.018
46.310-24	24	0.80 x 0.80	0.018

10
pcs

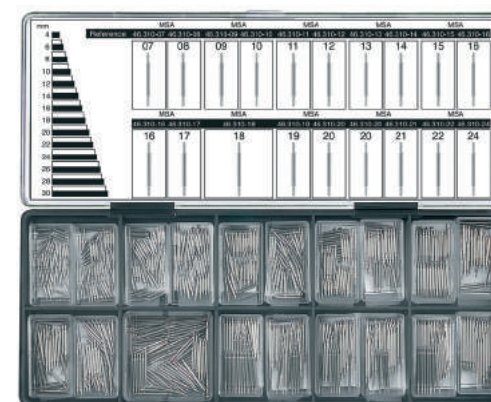
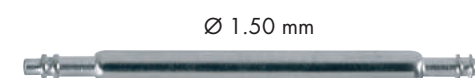
MSA	L mm	Ø A x B mm	Kg
46.311-07	7	0.80 x 0.80	0.001
46.311-08	8	0.80 x 0.80	0.001
46.311-09	9	0.80 x 0.80	0.001
46.311-10	10	0.80 x 0.80	0.002
46.311-11	11	0.80 x 0.80	0.002
46.311-12	12	0.80 x 0.80	0.002
46.311-13	13	0.80 x 0.80	0.002
46.311-14	14	0.80 x 0.80	0.002
46.311-15	15	0.80 x 0.80	0.002
46.311-16	16	0.80 x 0.80	0.002
46.311-17	17	0.80 x 0.80	0.002
46.311-18	18	0.80 x 0.80	0.002
46.311-19	19	0.80 x 0.80	0.002
46.311-20	20	0.80 x 0.80	0.002
46.311-21	21	0.80 x 0.80	0.002
46.311-22	22	0.80 x 0.80	0.002
46.311-23	23	0.80 x 0.80	0.003
46.311-24	24	0.80 x 0.80	0.003



MSA	Qt.	Kg
99.155	100x	0.041

Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

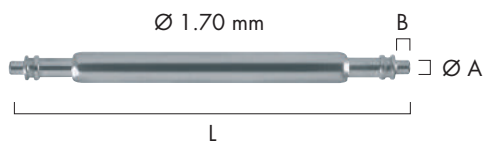
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10x MSA46.310-10 /-12 /-14 /-16 /-17 /-18 /-19 /-20 /-22 /-24



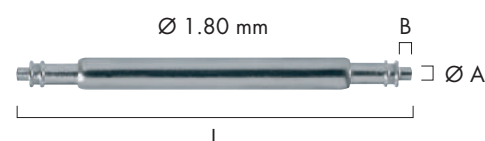
MSA	Qt.	Kg
99.060	1'000x	0.444

Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
17 modèles - models - Modelle - modelos - modelli - modelos
1x MSA15.003
50x MSA46.310-07 /-08 /-09 /-10 /-11 /-12 /-13 /-14 /-15 /-17 /-19 /-21 /-22 /-24
100x MSA46.310-16 /-18 /-20



Barrettes double sécurité ; acier inoxydable.
 Double flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores doble seguridad ; acero inoxidable.
 Anse doppia sicurezza ; acciaio inossidabile.
 Pinos dupla segurança ; aço inoxidável.



Barrettes double sécurité ; acier inoxydable.
 Double flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores doble seguridad ; acero inoxidable.
 Anse doppia sicurezza ; acciaio inossidabile.
 Pinos dupla segurança ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.315-18	18	0.80 x 0.80	0.019
46.315-19	19	0.80 x 0.80	0.020
46.315-20	20	0.80 x 0.80	0.020
46.315-21	21	0.80 x 0.80	0.022

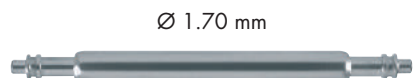
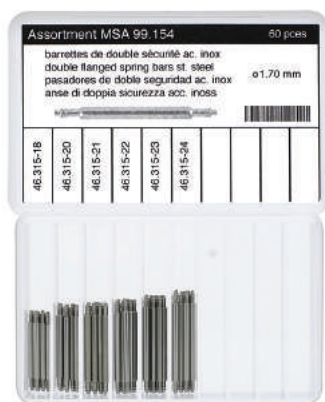
MSA	L mm	Ø A x B mm	Kg
46.315-22	22	0.80 x 0.80	0.022
46.315-23	23	0.80 x 0.80	0.022
46.315-24	24	0.80 x 0.80	0.023

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.320-08	8	0.80 x 0.80	0.010
46.320-10	10	0.80 x 0.80	0.013
46.320-11	11	0.80 x 0.80	0.013
46.320-12	12	0.80 x 0.80	0.014
46.320-13	13	0.80 x 0.80	0.017
46.320-14	14	0.80 x 0.80	0.017
46.320-15	15	0.80 x 0.80	0.018
46.320-16	16	0.80 x 0.80	0.018
46.320-17	17	0.80 x 0.80	0.020
46.320-18	18	0.80 x 0.80	0.021
46.320-19	19	0.80 x 0.80	0.021
46.320-20	20	0.80 x 0.80	0.022
46.320-21	21	0.80 x 0.80	0.023
46.320-22	22	0.80 x 0.80	0.024
46.320-23	23	0.80 x 0.80	0.024
46.320-24	24	0.80 x 0.80	0.025
46.320-26	26	0.80 x 0.80	0.026
46.320-28	28	0.80 x 0.80	0.028
46.320-30	30	0.80 x 0.80	0.029
46.320-32	32	0.80 x 0.80	0.029
46.320-34	34	0.80 x 0.80	0.032
46.320-36	36	0.80 x 0.80	0.033
46.320-38	38	0.80 x 0.80	0.034

10
pcs

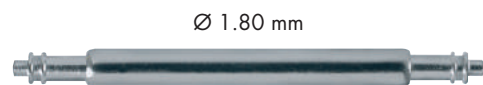
MSA	L mm	Ø A x B mm	Kg
46.321-08	8	0.80 x 0.80	0.002
46.321-10	10	0.80 x 0.80	0.002
46.321-11	11	0.80 x 0.80	0.002
46.321-12	12	0.80 x 0.80	0.002
46.321-13	13	0.80 x 0.80	0.002
46.321-14	14	0.80 x 0.80	0.002
46.321-15	15	0.80 x 0.80	0.003
46.321-16	16	0.80 x 0.80	0.003
46.321-17	17	0.80 x 0.80	0.003
46.321-18	18	0.80 x 0.80	0.003
46.321-19	19	0.80 x 0.80	0.003
46.321-20	20	0.80 x 0.80	0.003
46.321-21	21	0.80 x 0.80	0.003
46.321-22	22	0.80 x 0.80	0.003
46.321-23	23	0.80 x 0.80	0.003
46.321-24	24	0.80 x 0.80	0.003
46.321-26	26	0.80 x 0.80	0.004
46.321-28	28	0.80 x 0.80	0.004
46.321-30	30	0.80 x 0.80	0.004
46.321-32	32	0.80 x 0.80	0.004
46.321-34	34	0.80 x 0.80	0.004
46.321-36	36	0.80 x 0.80	0.004
46.321-38	38	0.80 x 0.80	0.004



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Sortido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

MSA	Qt.	Kg
99.154	60x	0.040

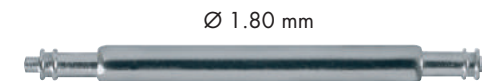
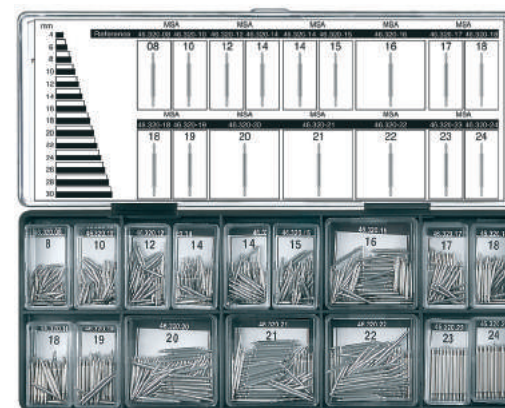
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6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.315-18 /-20 /-21 /-22 /-23 /-24



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

MSA	Qt.	Kg
99.031	100x	0.047

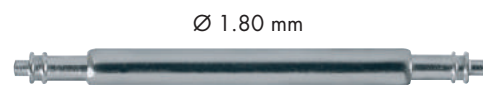
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.320-12 /-14 /-16 /-17 /-18 /-19 /-20 /-21 /-22 /-24



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

MSA	Qt.	Kg
99.062	1'000x	0.494

Contenu - Contents - Inhalt - Contenido
Contenuto - Conteúdo :
14 modèles - models - Modelle - modelos
50x MSA46.320-08 /-10 /-12 /-15 /-17 /-19
/-23 /-24
100x MSA46.320-14 /-16 /-18 /-20 /-21 /-22



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

MSA	Qt.	Kg
99.156	100x	0.054

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.320-20 /-22 /-24 /-26 /-28 /-30 /-32 /-34 /-36 /-38



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

MSA	Qt.	Kg
99.157	1000x	0.580

Contenu - Contents - Inhalt - Contenido
Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos
100x MSA46.320-22 /-23 /-24 /-26 /-28 /-30
/-32 /-34 /-36 /-38

Ø 1.30 – 1.50 – 1.80 mm



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Sortido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Conteúdo - Conteúdo :
40 modèles - models - Modelle - modelos - modelli - modelos
1x MSA15.003
10x MSA46.300-07 /-09 /-11 /-13 /-15 ;
46.310-13 /-15 /-17 /-19 /-21 /-24 ; 46.320-15
/-17 /-19 /-21 /-23 /-24
20x MSA46.300-06 /-08 /-10 /-12 /-14 /-16
;/ 46.310-08 /-10 /-12 /-14 /-16 /-20 /-22 ;
46.320-08 /-10 /-12 /-14 /-16 /-20 /-22
40x MSA46.300-18 ; 46.310-18 ; 46.320-18



MSA	Qt.	Kg
99.064	690x	0.438

Ø 1.30 – 1.50 – 1.80 mm



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Sortido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido de pinos dupla segurança ; aço inoxidável.

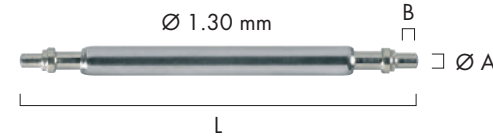
Contenu - Contents - Inhalt - Contenido - Conteúdo - Conteúdo :
32 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.300-12 /-14 /-15 ; 46.310-12 /-14
/-15 /-23 /-24
20x MSA46.300-16 /-17 /-18 /-19 /-20 ;
46.310-16 /-17 /-18 /-19 /-20 /-21 /-22 ;
46.320-16 /-18 /-20 /-22
30x MSA46.320-24 /-26 /-28 /-30 /-32 /-34
/-36 /-38



MSA	Qt.	Kg
99.158	640x	0.434



Ø 1.30 mm



100 pcs

MSA	L mm	Ø A x B mm	Kg
46.201-06.0	6	0.70 x 0.70	0.004
46.201-06.5	6.5	0.70 x 0.70	0.004
46.201-07.0	7	0.70 x 0.70	0.005
46.201-07.5	7.5	0.70 x 0.70	0.005
46.201-08.0	8	0.70 x 0.70	0.006
46.201-08.5	8.5	0.70 x 0.70	0.006
46.201-09.0	9	0.70 x 0.80	0.007
46.201-10.0	10	0.70 x 1.00	0.008
46.201-11.0	11	0.70 x 1.00	0.008
46.201-12.0	12	0.70 x 1.00	0.008
46.201-13.0	13	0.70 x 1.00	0.009
46.201-14.0	14	0.70 x 1.00	0.009

Barrettes de sécurité ; acier inoxydable.
 Flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores de seguridad ; acero inoxidable.
 Anse di sicurezza ; acciaio inossidabile.
 Pinos de segurança ; aço inoxidável.

MSA	L mm	Ø A x B mm	Kg
46.201-15.0	15	0.70 x 1.00	0.010
46.201-16.0	16	0.70 x 1.00	0.011
46.201-17.0	17	0.70 x 1.00	0.012
46.201-18.0	18	0.70 x 1.00	0.013
46.201-19.0	19	0.70 x 1.00	0.014
46.201-20.0	20	0.70 x 1.00	0.014
46.201-21.0	21	0.70 x 1.00	0.015
46.201-22.0	22	0.70 x 1.00	0.015
46.201-23.0	23	0.70 x 1.00	0.016
46.201-24.0	24	0.70 x 1.00	0.016
46.201-25.0	25	0.70 x 1.00	0.016
46.201-26.0	26	0.70 x 1.00	0.017



Ø 1.30 mm



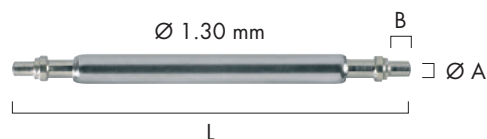
MSA	MSA	MSA	MSA	MSA	MSA
46.201	46.201	46.201	46.201	46.201	46.201
08.0	10.0	12.0	14.0	16.0	18.0



MSA	Qt.	Kg
99.159	60x	0.044

Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortment of flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Sortido de pasadores de seguridad ; acero inoxidable.
 Assortimento di anse di sicurezza ; acciaio inossidabile.
 Sortido de pinos de segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Conteúdo - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.201-08.0 /-10.0 /-12.0 /-14.0 /-16.0 /-18.0 /-19.0
/-20.0 /-22.0 /-24.0 /-25.0 /-26.0

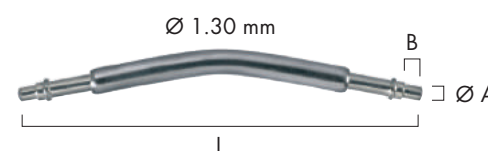


Barrettes de sécurité ; maillechort.
 Flanged spring bars ; nickel silver.
 Doppel-Ansatz Federstege ; Neusilber.
 Pasadores de seguridad ; plata alemana.
 Anse di sicurezza ; alpacca.
 Pinos de segurança ; níquel prateado.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.200-06.0	6	0.70 x 0.70	0.014
46.200-07.0	7	0.70 x 0.70	0.014
46.200-08.0	8	0.70 x 0.70	0.014
46.200-09.0	9	0.70 x 0.80	0.014
46.200-10.0	10	0.70 x 1.00	0.014
46.200-11.0	11	0.70 x 1.00	0.014
46.200-12.0	12	0.70 x 1.00	0.014
46.200-13.0	13	0.70 x 1.00	0.014
46.200-14.0	14	0.70 x 1.00	0.014
46.200-15.0	15	0.70 x 1.00	0.014

MSA	L mm	Ø A x B mm	Kg
46.200-16.0	16	0.70 x 1.00	0.014
46.200-17.0	17	0.70 x 1.00	0.014
46.200-18.0	18	0.70 x 1.00	0.014
46.200-19.0	19	0.70 x 1.00	0.014
46.200-20.0	20	0.70 x 1.00	0.014
46.200-21.0	21	0.70 x 1.00	0.014
46.200-22.0	22	0.70 x 1.00	0.014
46.200-23.0	23	0.70 x 1.00	0.014
46.200-24.0	24	0.70 x 1.00	0.014

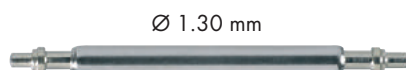


Barrettes de sécurité courbées ; maillechort.
 Curved flanged spring bars ; nickel silver.
 Gebogene Doppel-Ansatz Federstege ; Neusilber.
 Pasadores de seguridad curvados ; plata alemana.
 Anse di sicurezza curvate ; alpacca.
 Pinos de segurança curvados ; níquel prateado.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.272-10.0	10	0.70 x 1.00	0.014
46.272-12.0	12	0.70 x 1.00	0.014
46.272-13.0	13	0.70 x 1.00	0.014
46.272-14.0	14	0.70 x 1.00	0.014
46.272-15.0	15	0.70 x 1.00	0.014
46.272-16.0	16	0.70 x 1.00	0.014
46.272-17.0	17	0.70 x 1.00	0.014

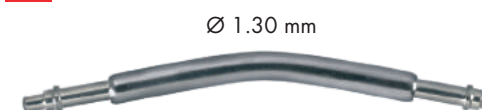
MSA	L mm	Ø A x B mm	Kg
46.272-18.0	18	0.70 x 1.00	0.014
46.272-19.0	19	0.70 x 1.00	0.014
46.272-20.0	20	0.70 x 1.00	0.014
46.272-21.0	21	0.70 x 1.00	0.014
46.272-22.0	22	0.70 x 1.00	0.014
46.272-24.0	24	0.70 x 1.00	0.014



Assortiment de barrettes de sécurité ; maillechort.
 Assortment of flanged spring bars ; nickel silver.
 Sortiment von Doppel-Ansatz Federstege ; Neusilber.
 Surtido de pasadores de seguridad ; plata alemana.
 Assortimento di anse di sicurezza ; alpacca.
 Sortido de pinos de segurança ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.200-06.0 /-07.0 /-08.0 /-09.0 /-10.0 /-12.0 /-13.0
/-14.0 /-15.0 /-16.0 /-18.0 /-20.0

MSA	Qt.	Kg
99.099	60x	0.033

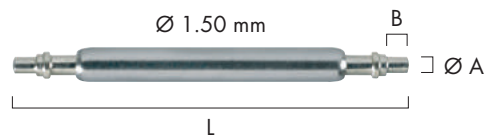


Assortiment de barrettes de sécurité courbées ; maillechort.
 Assortment of curved flanged spring bars ; nickel silver.
 Sortiment von gebogene Doppel-Ansatz Federstege ; Neusilber.
 Surtido de pasadores de seguridad curvados ; plata alemana.
 Assortimento di anse di sicurezza curvate ; alpacca.
 Sortido de pinos de segurança curvados ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.272-12.0 /-14.0 /-16.0 /-17.0 /-18.0 /-19.0 /-20.0
/-21.0 /-22.0 /-24.0



MSA	Qt.	Kg
99.104	60x	0.036



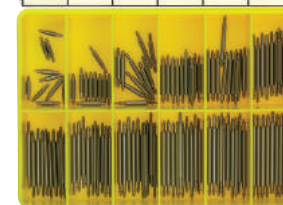
Barrettes de sécurité ; acier inoxydable.
 Flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores de seguridad ; acero inoxidable.
 Anse di sicurezza ; acciaio inossidabile.
 Pinos de segurança ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.211-06.0	6	0.70 x 0.70	0.006
46.211-07.0	7	0.70 x 0.70	0.007
46.211-08.0	8	0.70 x 0.70	0.008
46.211-09.0	9	0.75 x 0.80	0.009
46.211-10.0	10	0.75 x 1.00	0.010
46.211-11.0	11	0.75 x 1.00	0.011
46.211-12.0	12	0.75 x 1.00	0.012
46.211-13.0	13	0.75 x 1.00	0.012
46.211-14.0	14	0.75 x 1.00	0.012
46.211-15.0	15	0.75 x 1.00	0.015
46.211-16.0	16	0.75 x 1.00	0.015
46.211-17.0	17	0.75 x 1.00	0.016
46.211-18.0	18	0.75 x 1.00	0.017
46.211-19.0	19	0.75 x 1.00	0.018
46.211-20.0	20	0.75 x 1.00	0.019
46.211-21.0	21	0.75 x 1.00	0.019

MSA	L mm	Ø A x B mm	Kg
46.211-22.0	22	0.75 x 1.00	0.020
46.211-23.0	23	0.75 x 1.00	0.021
46.211-24.0	24	0.75 x 1.00	0.021
46.211-25.0	25	0.75 x 1.00	0.023
46.211-26.0	26	0.75 x 1.00	0.024
46.211-27.0	27	0.75 x 1.00	0.024
46.211-28.0	28	0.75 x 1.00	0.025
46.211-29.0	29	0.75 x 1.00	0.025
46.211-30.0	30	0.75 x 1.00	0.026
46.211-31.0	31	0.75 x 1.00	0.026
46.211-32.0	32	0.75 x 1.00	0.028
46.211-33.0	33	0.75 x 1.00	0.028
46.211-34.0	34	0.75 x 1.00	0.029
46.211-35.0	35	0.75 x 1.00	0.029
46.211-36.0	36	0.75 x 1.00	0.032
46.211-38.0	38	0.75 x 1.00	0.033

MSA	MSA	MSA	MSA	MSA	MSA
46.211	46.211	46.211	46.211	46.211	46.211
08.0	08.0	10.0	12.0	14.0	16.0



MSA	Qt.	Kg
99.197	120x	0.054

Ø 1.50 mm



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortment of flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad ; acero inoxidable.
 Assortimento di anse di sicurezza ; acciaio inossidabile.
 Sortido de pinos de segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.211-06.0 /-08.0 /-10.0 /-12.0 /-14.0 /-16.0 /-17.0
/-18.0 /-19.0 /-20.0 /-21.0 /-22.0

Assortiment MSA 99.142		100 pcs
barrettes de sécurité flanged spring bars pasadores de seguridad anse di sicurezza		Ø 1.50 mm



MSA	Qt.	Kg
99.142	100x	0.052

Ø 1.50 mm



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortment of flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad ; acero inoxidable.
 Assortimento di anse di sicurezza ; acciaio inossidabile.
 Sortido de pinos de segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.211-23.0 /-24.0 /-25.0 /-26.0 /-27.0 /-28.0 /-29.0
/-30.0 /-31.0 /-32.0

Assortiment MSA 99.198		100 pcs
barrettes de sécurité ac. inox. flanged spring bars st. steel pasadores de seguridad ac. inox anse di sicurezza acc. inox		Ø 1.50 mm



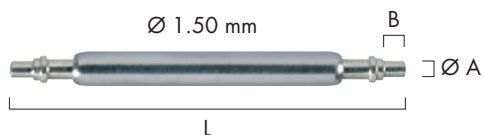
MSA	Qt.	Kg
99.198	100x	0.054

Ø 1.50 mm



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortment of flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad ; acero inoxidable.
 Assortimento di anse di sicurezza ; acciaio inossidabile.
 Sortido de pinos de segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.211-24.0 /-25.0 /-26.0 /-28.0 /-30.0 /-32.0 /-33.0
/-34.0 /-36.0 /-38.0

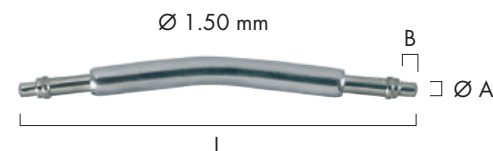


Barrettes de sécurité ; maillechort.
 Flanged spring bars ; nickel silver.
 Doppel-Ansatz Federstege ; Neusilber.
 Pasadores de seguridad ; plata alemana.
 Anse di sicurezza ; alpacca.
 Pinos de segurança ; níquel prateado.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.210-06.0	6	0.70 x 0.70	0.018
46.210-07.0	7	0.70 x 0.70	0.018
46.210-08.0	8	0.70 x 0.70	0.018
46.210-09.0	9	0.75 x 0.80	0.018
46.210-10.0	10	0.75 x 1.00	0.018
46.210-11.0	11	0.75 x 1.00	0.018
46.210-12.0	12	0.75 x 1.00	0.018
46.210-13.0	13	0.75 x 1.00	0.018
46.210-14.0	14	0.75 x 1.00	0.018
46.210-15.0	15	0.75 x 1.00	0.018

MSA	L mm	Ø A x B mm	Kg
46.210-16.0	16	0.75 x 1.00	0.018
46.210-17.0	17	0.75 x 1.00	0.018
46.210-18.0	18	0.75 x 1.00	0.018
46.210-19.0	19	0.75 x 1.00	0.018
46.210-20.0	20	0.75 x 1.00	0.018
46.210-21.0	21	0.75 x 1.00	0.018
46.210-22.0	22	0.75 x 1.00	0.018
46.210-23.0	23	0.75 x 1.00	0.018
46.210-24.0	24	0.75 x 1.00	0.018

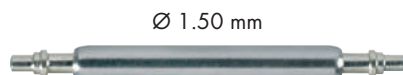


Barrettes de sécurité courbées ; maillechort.
 Curved flanged spring bars ; nickel silver.
 Gebogene Doppel-Ansatz Federstege ; Neusilber.
 Pasadores de seguridad curvados ; plata alemana.
 Anse di sicurezza curvate ; alpacca.
 Pinos de segurança curvados ; níquel prateado.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.271-10.0	10	0.75 x 1.00	0.018
46.271-11.0	11	0.75 x 1.00	0.018
46.271-12.0	12	0.75 x 1.00	0.018
46.271-13.0	13	0.75 x 1.00	0.018
46.271-14.0	14	0.75 x 1.00	0.018
46.271-15.0	15	0.75 x 1.00	0.018
46.271-16.0	16	0.75 x 1.00	0.018

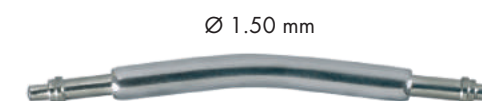
MSA	L mm	Ø A x B mm	Kg
46.271-17.0	17	0.75 x 1.00	0.018
46.271-18.0	18	0.75 x 1.00	0.018
46.271-19.0	19	0.75 x 1.00	0.018
46.271-20.0	20	0.75 x 1.00	0.018
46.271-21.0	21	0.75 x 1.00	0.018
46.271-22.0	22	0.75 x 1.00	0.018



Assortiment de barrettes de sécurité ; maillechort.
 Assortment of flanged spring bars ; nickel silver.
 Sortiment von Doppel-Ansatz Federstege ; Neusilber.
 Surtido de pasadores de seguridad ; plata alemana.
 Assortimento di anse di sicurezza ; alpacca.
 Sortido de pinos de segurança ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.210-08.0 /-10.0 /-12.0 /-13.0 /-14.0 /-15.0 /-16.0
/-18.0 /-20.0 /-22.0

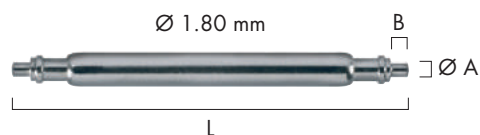
MSA	Qt.	Kg
99.100	60x	0.038



Assortiment de barrettes de sécurité courbées ; maillechort.
 Assortment of curved flanged spring bars ; nickel silver.
 Sortiment von gebogene Doppel-Ansatz Federstege ; Neusilber.
 Surtido de pasadores de seguridad curvados ; plata alemana.
 Assortimento di anse di sicurezza curvate ; alpacca.
 Sortido de pinos de segurança curvados ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.271-10.0 /-12.0 /-13.0 /-14.0 /-15.0 /-16.0
/-18.0 /-20.0 /-22.0

MSA	Qt.	Kg
99.103	60x	0.038



Barrettes de sécurité; acier inoxydable.
 Flanged spring bars; stainless steel.
 Doppel-Ansatz Federstege; Edelstahl.
 Pasadores de seguridad; acero inoxidable.
 Anse di sicurezza; acciaio inossidabile.
 Pinos de segurança; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.220-09.0	9	0.90 x 1.00	0.024
46.220-10.0	10	0.90 x 1.00	0.024
46.220-11.0	11	0.90 x 1.00	0.024
46.220-12.0	12	0.90 x 1.00	0.024
46.220-13.0	13	0.90 x 1.00	0.024
46.220-14.0	14	0.90 x 1.00	0.024
46.220-15.0	15	0.90 x 1.00	0.024
46.220-16.0	16	0.90 x 1.00	0.024
46.220-17.0	17	0.90 x 1.00	0.024
46.220-18.0	18	0.90 x 1.00	0.024
46.220-19.0	19	0.90 x 1.00	0.024
46.220-20.0	20	0.90 x 1.00	0.024
46.220-21.0	21	0.90 x 1.00	0.024

MSA	L mm	Ø A x B mm	Kg
46.220-22.0	22	0.90 x 1.00	0.024
46.220-23.0	23	0.90 x 1.00	0.024
46.220-24.0	24	0.90 x 1.00	0.024
46.220-25.0	25	0.90 x 1.00	0.024
46.220-26.0	26	0.90 x 1.00	0.024
46.220-28.0	28	0.90 x 1.00	0.024
46.220-30.0	30	0.90 x 1.00	0.024
46.220-32.0	32	0.90 x 1.00	0.024
46.220-34.0	34	0.90 x 1.00	0.024
46.220-36.0	36	0.90 x 1.00	0.024
46.220-37.0	37	0.90 x 1.00	0.024
46.220-38.0	38	0.90 x 1.00	0.024



Ø 1.80 mm

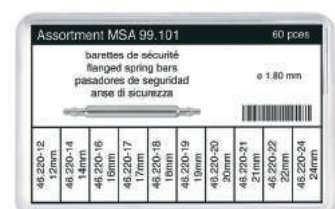


Assortiment de barrettes de sécurité; acier inoxydable.
 Assortment of flanged spring bars; stainless steel.
 Sortiment von Doppel-Ansatz Federstege; Edelstahl.
 Surtido de pasadores de seguridad; acero inoxidable.
 Assortimento di anse di sicurezza; acciaio inossidabile.
 Sortido de pinos de segurança; aço inoxidável.



MSA	Qt.	Kg
99.196	60x	0.048

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 10 modèles - models - Modelle - modelos - modelli - modelos
 6x MSA46.220-22.0 /-24.0 /-25.0 /-26.0 /-28.0 /-30.0 /-32.0
 /-34.0 /-36.0 /-38.0**



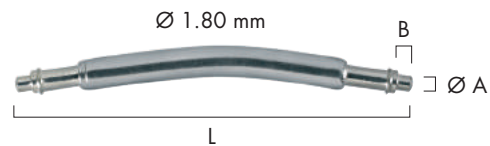
Ø 1.80 mm



Assortiment de barrettes de sécurité; acier inoxydable.
 Assortment of flanged spring bars; stainless steel.
 Sortiment von Doppel-Ansatz Federstege; Edelstahl.
 Surtido de pasadores de seguridad; acero inoxidable.
 Assortimento di anse di sicurezza; acciaio inossidabile.
 Sortido de pinos de segurança; aço inoxidável.

MSA	Qt.	Kg
99.101	60x	0.042

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 10 modèles - models - Modelle - modelos - modelli - modelos
 6x MSA46.220-12.0 /-14.0 /-16.0 /-17.0 /-18.0 /-19.0 /-20.0
 /-21.0 /-22.0 /-24.0**

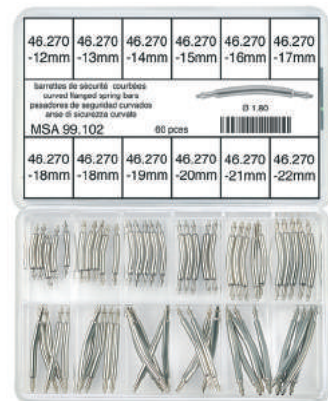


Barrettes de sécurité courbées ; maillechort.
 Curved flanged spring bars ; nickel silver.
 Gebogene Doppel-Ansatz Federstege ; Neusilber.
 Pasadores de seguridad curvados ; plata alemana.
 Anse di sicurezza curvate ; alpacca.
 Pinos de segurança curvados ; níquel prateado.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.270-10.0	10	0.90 x 1.00	0.025
46.270-11.0	11	0.90 x 1.00	0.025
46.270-12.0	12	0.90 x 1.00	0.025
46.270-13.0	13	0.90 x 1.00	0.025
46.270-14.0	14	0.90 x 1.00	0.025
46.270-15.0	15	0.90 x 1.00	0.025
46.270-16.0	16	0.90 x 1.00	0.025

MSA	L mm	Ø A x B mm	Kg
46.270-17.0	17	0.90 x 1.00	0.025
46.270-18.0	18	0.90 x 1.00	0.025
46.270-19.0	19	0.90 x 1.00	0.025
46.270-20.0	20	0.90 x 1.00	0.025
46.270-21.0	21	0.90 x 1.00	0.025
46.270-22.0	22	0.90 x 1.00	0.025
46.270-24.0	24	0.90 x 1.00	0.025



Assortiment de barrettes de sécurité courbées ; maillechort.
 Assortiment of curved flanged spring bars ; nickel silver.
 Sortiment von gebogene Doppel-Ansatz Federstege ; Neusilber.
 Surtido de pasadores de seguridad curvados ; plata alemana.
 Assortimento di anse di sicurezza curvate ; alpacca.
 Sortido de pinos de segurança curvados ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.270-12.0 /-13.0 /-14.0 /-15.0 /-16.0 /-17.0 /-19.0
/-20.0 /-21.0 /-22.0
10x MSA46.270-18.0

MSA	Qt.	Kg
99.102	60x	0.040

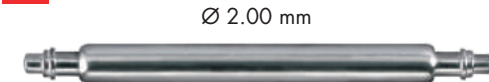


Barrettes de sécurité ; acier inoxydable.
 Flanged spring bars ; stainless steel.
 Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores de seguridad ; acero inoxidable.
 Anse di sicurezza, estensione ; acciaio inossidabile.
 Pinos de segurança, extensão ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.221-10.0	10	1.00 x 1.00	0.017
46.221-11.0	11	1.00 x 1.00	0.018
46.221-12.0	12	1.00 x 1.00	0.019
46.221-13.0	13	1.00 x 1.00	0.020
46.221-14.0	14	1.00 x 1.00	0.021
46.221-15.0	15	1.00 x 1.00	0.023

MSA	L mm	Ø A x B mm	Kg
46.221-16.0	16	1.00 x 1.00	0.024
46.221-17.0	17	1.00 x 1.00	0.026
46.221-18.0	18	1.00 x 1.00	0.027
46.221-19.0	19	1.00 x 1.00	0.027
46.221-20.0	20	1.00 x 1.00	0.028



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortiment of flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad ; acero inoxidable.
 Assortimento di anse di sicurezza ; acciaio inossidabile.
 Sortido de pinos de segurança ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
4x MSA46.221-10.0 /-11.0 /-12.0 /-13.0 /-14.0 /-15.0 /-17.0
/-19.0
6x MSA46.221-16.0 /-18.0 /-20.0

MSA	Qt.	Kg
99.125	50x	0.025



Barrettes de sécurité télescopiques ; acier inoxydable.
 Telescopic flanged spring bars ; stainless steel.
 Teleskopische Doppel-Ansatz Federstege ; Edelstahl.
 Pasadores de seguridad telescópicos ; acero inoxidable.
 Anse di sicurezza telescopiche ; acciaio inossidabile.
 Pinos de segurança telescópicos ; aço inoxidável.

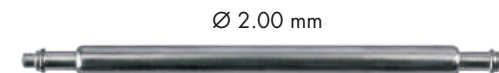
100
pcs

MSA	L mm	Ø A x B mm	Kg
46.221-2022	20-22	1.00 x 1.00	0.030
46.221-2224	22-24	1.00 x 1.00	0.034
46.221-2426	24-26	1.00 x 1.00	0.036
46.221-2628	26-28	1.00 x 1.00	0.038
46.221-2830	28-30	1.00 x 1.00	0.040
46.221-3032	30-32	1.00 x 1.00	0.043

MSA	L mm	Ø A x B mm	Kg
46.221-3234	32-34	1.00 x 1.00	0.044
46.221-3436	34-36	1.00 x 1.00	0.046
46.221-3638	36-38	1.00 x 1.00	0.048
46.221-3840	38-40	1.00 x 1.00	0.049
46.221-4042	40-42	1.00 x 1.00	0.051



MSA	Qt.	Kg
99.126	50x	0.024

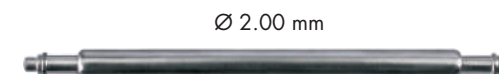


Assortiment de barrettes de sécurité télescopiques ; acier inoxydable.
 Assortment of telescopic flanged spring bars ; stainless steel.
 Sortiment von teleskopische Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad telescópicos ; acero inoxidable.
 Assortimento di anse di sicurezza telescopiche ; acciaio inossidabile.
 Sortido de pinos de segurança telescópicos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.221-2022 /-2224 /-2426 /-2628 /-2830

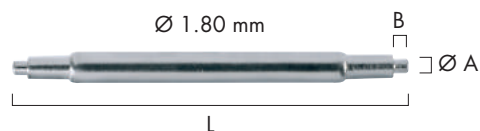


MSA	Qt.	Kg
99.141	36x	0.028



Assortiment de barrettes de sécurité télescopiques ; acier inoxydable.
 Assortment of telescopic flanged spring bars ; stainless steel.
 Sortiment von teleskopische Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores de seguridad telescópicos ; acero inoxidable.
 Assortimento di anse di sicurezza telescopiche ; acciaio inossidabile.
 Sortido de pinos de segurança telescópicos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.221-3032 /-3234 /-3436 /-3638 /-3840 /-4042



Barrettes universelles télescopiques ; acier inoxydable.
 Telescopic universal spring bars ; stainless steel.
 Teleskopische universelle Federstege ; Edelstahl.
 Pasadores universales telescópicos ; acero inoxidable.
 Anse universali telescopiche ; acciaio inossidabile.
 Pinos universais telescópicos ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.600-0710	7-10	0.80 x 1.00	0.020
46.600-0812	8-12	0.80 x 1.00	0.020
46.600-0914	9-14	0.80 x 1.00	0.020
46.600-1318	13-18	0.80 x 1.00	0.020
46.600-1521	15-21	0.80 x 1.00	0.020
46.600-1723	17-23	0.80 x 1.00	0.020

MSA	L mm	Ø A x B mm	Kg
46.600-1824	18-24	0.80 x 1.00	0.020
46.600-2026	20-26	0.80 x 1.00	0.020
46.600-2430	24-30	0.80 x 1.00	0.020
46.600-2834	28-34	0.80 x 1.00	0.020
46.600-3238	32-38	0.80 x 1.00	0.020

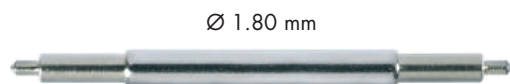


Barrettes universelles télescopiques ; maillechort.
 Universal telescopic spring bars ; nickel silver.
 Universelle teleskopische Federstege ; Neusilber.
 Pasadores universales telescópicos ; plata alemana.
 Anse universali telescopiche ; alpacca.
 Pinos universais telescópicos ; níquel prateado.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.500-0812	8-12	0.75 x 1.00	0.023
46.500-1015	10-15	0.75 x 1.00	0.023
46.500-1218	12-18	0.80 x 1.50	0.023
46.500-1522	15-22	0.80 x 1.50	0.023
46.500-1824	18-24	0.80 x 1.50	0.023

MSA	L mm	Ø A x B mm	Kg
46.500-2027	20-27	0.80 x 1.50	0.023
46.500-2330	23-30	0.80 x 1.50	0.023
46.500-2532	25-32	0.80 x 1.50	0.023
46.500-3037	30-37	0.80 x 1.50	0.023

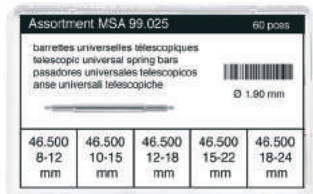


Assortiment de barrettes universelles télescopiques ; acier inoxydable.
 Assortment of telescopic universal spring bars ; stainless steel.
 Sortiment von universelle teleskopische Federstege ; Edelstahl.
 Surtido de pasadores universales telescópicos ; acero inoxidable.
 Assortimento di anse universali telescopiche ; acciaio inossidabile.
 Sortido de pinos universais telescópicos ; aço inoxidável.

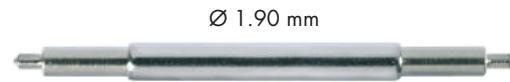


MSA	Qt.	Kg
99.199	100x	0.050

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.600-0812 /-0914 /-1318 /-1521 /-1723 /-1824
/-2026 /-2430 /-2834 /-3238



MSA	Qt.	Kg
99.025	60x	0.037

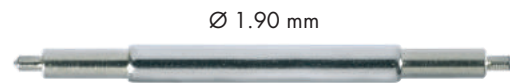


Assortiment de barrettes universelles télescopiques ; maillechort.
 Assortment of universal telescopic spring bars ; nickel silver.
 Sortiment von universelle teleskopische Federstege ; Neusilber.
 Surtido de pasadores universales telescópicos ; plata alemana.
 Assortimento di anse universali telescopiche ; alpacca.
 Sortido de pinos universais telescópicos ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
12x MSA46.500-0812 /-1015 /-1218 /-1522 /-1824

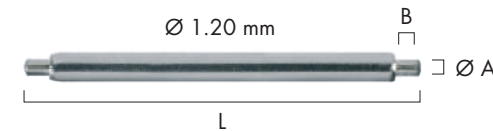


MSA	Qt.	Kg
99.219	60x	0.045



Assortiment de barrettes universelles télescopiques ; maillechort.
 Assortment of universal telescopic spring bars ; nickel silver.
 Sortiment von universelle teleskopische Federstege ; Neusilber.
 Surtido de pasadores universales telescópicos ; plata alemana.
 Assortimento di anse universali telescopiche ; alpacca.
 Sortido de pinos universais telescópicos ; níquel prateado.

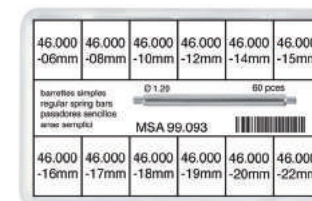
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
12x MSA46.500-1824 /-2027 /-2330 /-2532 /-3037



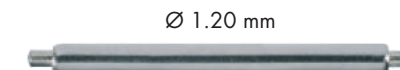
MSA	L mm	Ø A x B mm	Kg
46.000-05.0	5	0.70 x 0.80	0.010
46.000-05.5	5.5	0.70 x 0.80	0.010
46.000-06.0	6	0.70 x 1.00	0.010
46.000-06.5	6.5	0.70 x 1.00	0.010
46.000-07.0	7	0.70 x 1.00	0.010
46.000-07.5	7.5	0.70 x 1.00	0.010
46.000-08.0	8	0.70 x 1.00	0.010
46.000-08.5	8.5	0.70 x 1.00	0.010
46.000-09.0	9	0.70 x 1.00	0.010
46.000-10.0	10	0.70 x 1.00	0.010
46.000-11.0	11	0.70 x 1.00	0.010
46.000-12.0	12	0.70 x 1.00	0.010

Barrettes simples ; maillechort.
 Regular spring bars ; nickel silver.
 Einfache Federstege ; Neusilber.
 Pasadores sencillos ; plata alemana.
 Anse semplici ; alpacca.
 Pinos simples ; níquel prateado.

MSA	L mm	Ø A x B mm	Kg
46.000-13.0	13	0.70 x 1.00	0.010
46.000-14.0	14	0.70 x 1.00	0.010
46.000-15.0	15	0.70 x 1.00	0.010
46.000-16.0	16	0.70 x 1.00	0.010
46.000-17.0	17	0.70 x 1.00	0.010
46.000-18.0	18	0.70 x 1.00	0.010
46.000-19.0	19	0.70 x 1.00	0.010
46.000-20.0	20	0.70 x 1.00	0.010
46.000-21.0	21	0.70 x 1.00	0.010
46.000-22.0	22	0.70 x 1.00	0.010
46.000-23.0	23	0.70 x 1.00	0.010
46.000-24.0	24	0.70 x 1.00	0.010

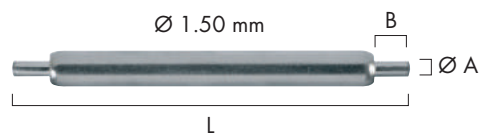


MSA	Qt.	Kg
99.093	60x	0.031



Assortiment de barrettes simples ; maillechort.
 Assortment of regular spring bars ; nickel silver.
 Sortiment von einfache Federstege ; Neusilber.
 Surtido de pasadores sencillos ; plata alemana.
 Assortimento di anse semplici ; alpacca.
 Sortido de pinos simples ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.000-06.0 /-08.0 /-10.0 /-12.0 /-14.0 /-15.0 /-16.0
/-17.0 /-18.0 /-19.0 /-20.0 /-22.0



Barrettes simples ; maillechort.
 Regular spring bars ; nickel silver.
 Einfache Federstege ; Neusilber.
 Pasadores sencillos ; plata alemana.
 Anse semplici ; alpacca.
 Pinos simples ; níquel plateado.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.010-05.0	5	0.70 x 0.80	0.015
46.010-06.0	6	0.70 x 0.80	0.015
46.010-07.0	7	0.70 x 0.80	0.015
46.010-08.0	8	0.70 x 0.80	0.015
46.010-09.0	9	0.70 x 1.00	0.015
46.010-10.0	10	0.75 x 1.50	0.015
46.010-11.0	11	0.75 x 1.50	0.015
46.010-12.0	12	0.75 x 1.50	0.015
46.010-13.0	13	0.75 x 1.50	0.015
46.010-14.0	14	0.75 x 1.50	0.015

MSA	L mm	Ø A x B mm	Kg
46.010-15.0	15	0.75 x 1.50	0.015
46.010-16.0	16	0.75 x 1.50	0.015
46.010-17.0	17	0.75 x 1.50	0.015
46.010-18.0	18	0.75 x 1.50	0.015
46.010-19.0	19	0.75 x 1.50	0.015
46.010-20.0	20	0.75 x 1.50	0.015
46.010-21.0	21	0.75 x 1.50	0.015
46.010-22.0	22	0.75 x 1.50	0.015
46.010-23.0	23	0.75 x 1.50	0.015

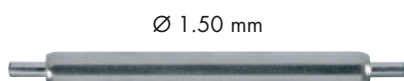
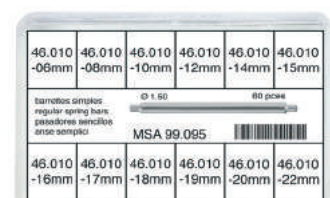


Barrettes simples ; maillechort.
 Regular spring bars ; nickel silver.
 Einfache Federstege ; Neusilber.
 Pasadores sencillos ; plata alemana.
 Anse semplici ; alpacca.
 Pinos simples ; níquel plateado.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.020-09.0	9	0.90 x 1.00	0.021
46.020-10.0	10	0.80 x 1.50	0.021
46.020-11.0	11	0.80 x 1.50	0.021
46.020-12.0	12	0.90 x 2.00	0.021
46.020-13.0	13	0.90 x 2.00	0.021
46.020-14.0	14	0.90 x 2.00	0.021
46.020-15.0	15	0.90 x 2.00	0.021
46.020-16.0	16	0.90 x 2.00	0.021
46.020-17.0	17	0.90 x 2.00	0.021

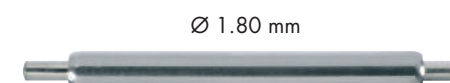
MSA	L mm	Ø A x B mm	Kg
46.020-18.0	18	0.90 x 2.00	0.021
46.020-19.0	19	0.90 x 2.00	0.021
46.020-20.0	20	0.90 x 2.00	0.021
46.020-21.0	21	0.90 x 2.00	0.021
46.020-22.0	22	0.90 x 2.00	0.021
46.020-23.0	23	0.90 x 2.00	0.021
46.020-24.0	24	0.90 x 2.00	0.021
46.020-36.0	36	0.90 x 2.00	0.021



Assortiment de barrettes simples ; maillechort.
 Assortiment of regular spring bars ; nickel silver.
 Sortiment von einfache Federstege ; Neusilber.
 Surtido de pasadores sencillos ; plata alemana.
 Assortimento di anse semplici ; alpacca.
 Sortido de pinos simples ; níquel plateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.010-06.0 /-08.0 /-10.0 /-12.0 /-14.0 /-15.0 /-16.0
/-17.0 /-18.0 /-19.0 /-20.0 /-22.0

MSA	Qt.	Kg
99.095	60x	0.034



Assortiment de barrettes simples ; maillechort.
 Assortiment of regular spring bars ; nickel silver.
 Sortiment von einfache Federstege ; Neusilber.
 Surtido de pasadores sencillos ; plata alemana.
 Assortimento di anse semplici ; alpacca.
 Sortido de pinos simples ; níquel plateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.020-10.0 /-12.0 /-14.0 /-16.0 /-17.0 /-18.0 /-19.0
/-20.0 /-22.0 /-24.0

MSA	Qt.	Kg
99.096	60x	0.040

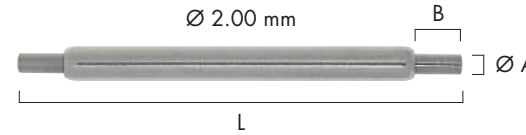


Barrettes simples ; acier inoxydable.
 Regular spring bars ; stainless steel.
 Einfache Federstege ; Edelstahl.
 Pasadores sencillos ; acero inoxidable.
 Anse semplici ; acciaio inossidabile.
 Pinos simples ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.021-09.0	9	0.90 x 1.00	0.013
46.021-10.0	10	0.80 x 1.50	0.014
46.021-11.0	11	0.80 x 1.50	0.015
46.021-12.0	12	0.90 x 2.00	0.017
46.021-13.0	13	0.90 x 2.00	0.018
46.021-14.0	14	0.90 x 2.00	0.019
46.021-15.0	15	0.90 x 2.00	0.020
46.021-16.0	16	0.90 x 2.00	0.022

MSA	L mm	Ø A x B mm	Kg
46.021-17.0	17	0.90 x 2.00	0.023
46.021-18.0	18	0.90 x 2.00	0.023
46.021-19.0	19	0.90 x 2.00	0.024
46.021-20.0	20	0.90 x 2.00	0.025
46.021-21.0	21	0.90 x 2.00	0.026
46.021-22.0	22	0.90 x 2.00	0.027
46.021-23.0	23	0.90 x 2.00	0.028
46.021-24.0	24	0.90 x 2.00	0.029

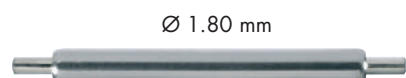


Barrettes simples ; acier inoxydable.
 Regular spring bars ; stainless steel.
 Einfache Federstege ; Edelstahl.
 Pasadores sencillos ; acero inoxidable.
 Anse semplici ; acciaio inossidabile.
 Pinos simples ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
46.022-09.0	9	0.90 x 1.00	0.018
46.022-10.0	10	0.80 x 1.50	0.019
46.022-11.0	11	0.80 x 1.50	0.020
46.022-12.0	12	0.90 x 2.00	0.021
46.022-13.0	13	0.90 x 2.00	0.022
46.022-14.0	14	0.90 x 2.00	0.023
46.022-15.0	15	0.90 x 2.00	0.024
46.022-16.0	16	0.90 x 2.00	0.025

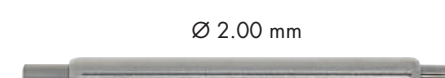
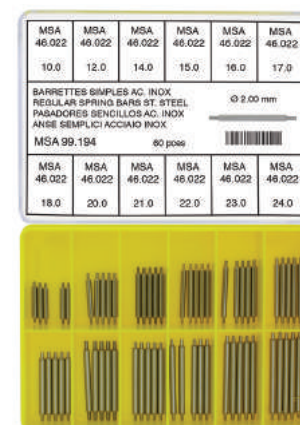
MSA	L mm	Ø A x B mm	Kg
46.022-17.0	17	0.90 x 2.00	0.026
46.022-18.0	18	0.90 x 2.00	0.027
46.022-19.0	19	0.90 x 2.00	0.028
46.022-20.0	20	0.90 x 2.00	0.029
46.022-21.0	21	0.90 x 2.00	0.030
46.022-22.0	22	0.90 x 2.00	0.031
46.022-23.0	23	0.90 x 2.00	0.032
46.022-24.0	24	0.90 x 2.00	0.034



Assortiment de barrettes simples ; acier inoxydable.
 Assortiment of regular spring bars ; stainless steel.
 Sortiment von einfache Federstege ; Edelstahl.
 Surtido de pasadores sencillos ; acero inoxidable.
 Assortimento di anse semplici ; acciaio inossidabile.
 Sortido de pinos simples ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.021-10.0 /-12.0 /-14.0 /-16.0 /-17.0 /-18.0 /-19.0
/-20.0 /-22.0 /-24.0

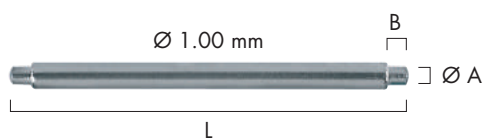
MSA	Qt.	Kg
99.144	50x	0.038



Assortiment de barrettes simples ; acier inoxydable.
 Assortiment of regular spring bars ; stainless steel.
 Sortiment von einfache Federstege ; Edelstahl.
 Surtido de pasadores sencillos ; acero inoxidable.
 Assortimento di anse semplici ; acciaio inossidabile.
 Sortido de pinos simples ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.022-10.0 /-12.0 /-14.0 /-15.0 /-16.0 /-17.0 /-18.0
/-20.0 /-21.0 /-22.0 /-23.0 /-24.0

MSA	Qt.	Kg
99.194	60x	0.052



Barrettes pour fermoirs ; acier inoxydable.
 Spring bars for clasps ; stainless steel.
 Federstege für Schliessen ; Edelstahl.
 Pasadores para cierres ; acero inoxidable.
 Anse per chiusure ; acciaio inossidabile.
 Pinos para fechos ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.030-06	6	0.70 x 0.70	0.006
46.030-07	7	0.70 x 0.70	0.006
46.030-08	8	0.70 x 0.70	0.006
46.030-09	9	0.70 x 0.70	0.006
46.030-10	10	0.70 x 0.70	0.006
46.030-11	11	0.70 x 0.70	0.006
46.030-12	12	0.70 x 0.70	0.006
46.030-13	13	0.70 x 0.70	0.006

MSA	L mm	Ø A x B mm	Kg
46.030-14	14	0.70 x 0.70	0.006
46.030-15	15	0.70 x 0.70	0.006
46.030-16	16	0.70 x 0.70	0.006
46.030-17	17	0.70 x 0.70	0.006
46.030-18	18	0.70 x 0.70	0.006
46.030-19	19	0.70 x 0.70	0.006
46.030-20	20	0.70 x 0.70	0.006

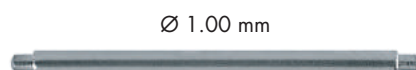
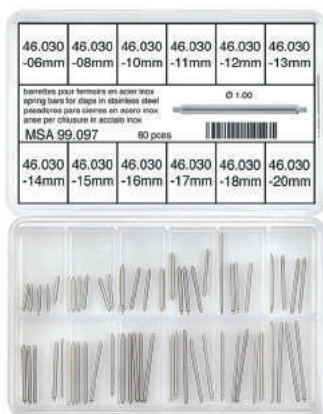


Barrettes pour fermoirs ; acier inoxydable.
 Spring bars for clasps ; stainless steel.
 Federstege für Schliessen ; Edelstahl.
 Pasadores para cierres ; acero inoxidable.
 Anse per chiusure ; acciaio inossidabile.
 Pinos para fechos ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.700-06	6	0.80 x 1.20	0.010
46.700-07	7	0.80 x 1.20	0.010
46.700-08	8	0.80 x 1.20	0.010
46.700-09	9	0.80 x 1.20	0.010
46.700-10	10	0.80 x 1.20	0.010
46.700-11	11	0.80 x 1.20	0.010
46.700-12	12	0.80 x 1.20	0.010
46.700-13	13	0.80 x 1.20	0.010

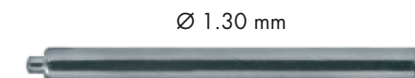
MSA	L mm	Ø A x B mm	Kg
46.700-14	14	0.80 x 1.20	0.010
46.700-15	15	0.80 x 1.20	0.010
46.700-16	16	0.80 x 1.20	0.010
46.700-17	17	0.80 x 1.20	0.010
46.700-18	18	0.80 x 1.20	0.010
46.700-19	19	0.80 x 1.20	0.010
46.700-20	20	0.80 x 1.20	0.010



Assortiment de barrettes pour fermoirs ; acier inoxydable.
 Assortment of spring bars for clasps ; stainless steel.
 Sortiment von Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores para cierres ; acero inoxidable.
 Assortimento di anse per chiusure ; acciaio inossidabile.
 Sortido de pinos para fechos ; aço inoxidável.

MSA	Qt.	Kg
99.097	60x	0.028

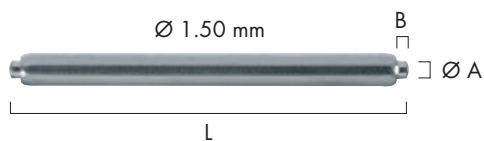
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.030-06 /-08 /-10 /-11 /-12 /-13 /-14 /-15 /-16 /-17 /-18 /-20



Assortiment de barrettes pour fermoirs ; acier inoxydable.
 Assortment of spring bars for clasps ; stainless steel.
 Sortiment von Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores para cierres ; acero inoxidable.
 Assortimento di anse per chiusure ; acciaio inossidabile.
 Sortido de pinos para fechos ; aço inoxidável.

MSA	Qt.	Kg
99.036	100x	0.038

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.700-06 /-08 /-09 /-10 /-12 /-14 /-16 /-17 /-18 /-20



Barrettes pour fermoirs, mesures spéciales ; acier inoxydable.
 Spring bars for clasps, special sizes ; stainless steel.
 Federstege für Schliessen, Sondermassnahmen ; Edelstahl.
 Pasadores para cierres, medidas especiales ; acero inoxidable.
 Anse per chiusure, misure speciali ; acciaio inossidabile.
 Pinos para fechos, medidas especiais ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.040-10	10.90	0.80 x 0.60	0.017
46.040-12	12.90	0.80 x 0.60	0.017
46.040-14	14.90	0.80 x 0.60	0.017
46.040-15	15.90	0.80 x 0.60	0.017

MSA	L mm	Ø A x B mm	Kg
46.040-16	16.90	0.80 x 0.60	0.017
46.040-17	17.90	0.80 x 0.60	0.017
46.040-19	19.90	0.80 x 0.60	0.017



Ø 1.50 mm



Assortiment de barrettes pour fermoirs ; acier inoxydable.
 Assortment of spring bars for clasps ; stainless steel.
 Sortiment von Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores para cierres ; acero inoxidable.
 Assortimento di anse per chiusure ; acciaio inossidabile.
 Sortido de pinos para fechos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
7 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.040-10 /-14 /-15 /-17
20x MSA46.040-12 /-16 /-19

MSA	Qt.	Kg
99.192	100x	0.044



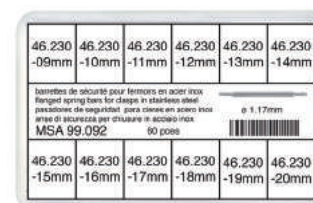
Barrettes de sécurité pour fermoirs ; acier inoxydable.
 Flanged spring bars for clasps ; stainless steel.
 Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Pasadores de seguridad para cierres ; acero inoxidable.
 Anse di sicurezza per chiusure ; acciaio inossidabile.
 Pinos de segurança para fechos ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.230-09	9	0.70 x 0.75	0.010
46.230-10	10	0.70 x 0.75	0.010
46.230-11	11	0.70 x 0.75	0.010
46.230-12	12	0.70 x 0.75	0.010
46.230-13	13	0.70 x 0.75	0.010
46.230-14	14	0.70 x 0.75	0.010
46.230-15	15	0.70 x 0.75	0.010
46.230-16	16	0.70 x 0.75	0.010
46.230-17	17	0.70 x 0.75	0.010
46.230-18	18	0.70 x 0.75	0.010
46.230-19	19	0.70 x 0.75	0.010
46.230-20	20	0.70 x 0.75	0.010

10 pcs

MSA	L mm	Ø A x B mm	Kg
46.231-09	9	0.70 x 0.75	0.001
46.231-10	10	0.70 x 0.75	0.001
46.231-11	11	0.70 x 0.75	0.001
46.231-12	12	0.70 x 0.75	0.001
46.231-13	13	0.70 x 0.75	0.001
46.231-14	14	0.70 x 0.75	0.001
46.231-15	15	0.70 x 0.75	0.002
46.231-16	16	0.70 x 0.75	0.002
46.231-17	17	0.70 x 0.75	0.002
46.231-18	18	0.70 x 0.75	0.002
46.231-19	19	0.70 x 0.75	0.002
46.231-20	20	0.70 x 0.75	0.002



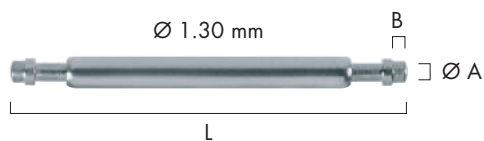
Ø 1.17 mm



Assortiment de barrettes de sécurité pour fermoirs ; acier inoxydable.
 Assortment of flanged spring bars for clasps ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores de seguridad para cierres ; acero inoxidable.
 Assortimento di anse di sicurezza per chiusure ; acciaio inossidabile.
 Sortido de pinos de segurança para fechos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.230-09 /-10 /-11 /-12 /-13 /-14 /-15 /-16 /-17 /-18
/-19 /-20

MSA	Qt.	Kg
99.092	60x	0.030

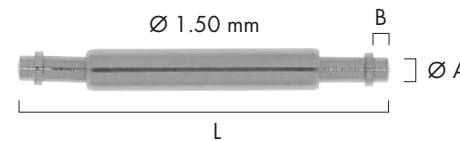


Barrettes de sécurité pour fermoirs ; acier inoxydable.
 Flanged spring bars for clasps ; stainless steel.
 Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Pasadores de seguridad para cierres ; acero inoxidable.
 Anse di sicurezza per chiusure ; acciaio inossidabile.
 Pinos de segurança para fechos ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.750-08	8	0.90 x 0.60	0.012
46.750-09	9	0.90 x 0.60	0.012
46.750-10	10	0.90 x 0.60	0.012
46.750-11	11	0.90 x 0.60	0.012
46.750-12	12	0.90 x 0.60	0.012
46.750-13	13	0.90 x 0.60	0.012
46.750-14	14	0.90 x 0.60	0.012
46.750-15	15	0.90 x 0.60	0.012
46.750-16	16	0.90 x 0.60	0.012

MSA	L mm	Ø A x B mm	Kg
46.750-17	17	0.90 x 0.60	0.012
46.750-18	18	0.90 x 0.60	0.012
46.750-19	19	0.90 x 0.60	0.012
46.750-20	20	0.90 x 0.60	0.012
46.750-21	21	0.90 x 0.60	0.012
46.750-22	22	0.90 x 0.60	0.012
46.750-23	23	0.90 x 0.60	0.012
46.750-24	24	0.90 x 0.60	0.012

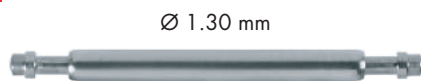


Barrettes de sécurité pour fermoirs ; acier inoxydable.
 Flanged spring bars for clasps ; stainless steel.
 Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Pasadores de seguridad para cierres ; acero inoxidable.
 Anse di sicurezza per chiusure ; acciaio inossidabile.
 Pinos de segurança para fechos ; aço inoxidável.

100 pcs

MSA	L mm	Ø A x B mm	Kg
46.751-10	10	0.90 x 0.60	0.010
46.751-11	11	0.90 x 0.60	0.012
46.751-12	12	0.90 x 0.60	0.012
46.751-13	13	0.90 x 0.60	0.013
46.751-14	14	0.90 x 0.60	0.014
46.751-15	15	0.90 x 0.60	0.015

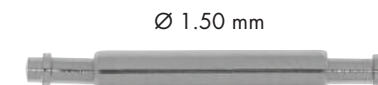
MSA	L mm	Ø A x B mm	Kg
46.751-16	16	0.90 x 0.60	0.016
46.751-17	17	0.90 x 0.60	0.017
46.751-18	18	0.90 x 0.60	0.017
46.751-19	19	0.90 x 0.60	0.018
46.751-20	20	0.90 x 0.60	0.019



Assortiment de barrettes de sécurité pour fermoirs ; acier inoxydable.
 Assortment of flanged spring bars for clasps ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores de seguridad para cierres ; acero inoxidable.
 Assortimento di anse di sicurezza per chiusure ; acciaio inossidabile.
 Sortido de pinos de segurança para fechos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.750-10 /-11 /-12 /-13 /-14 /-15 /-16 /-17 /-19 /-20
10x MSA46.750-18

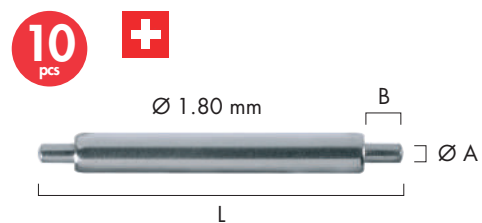
MSA	Qt.	Kg
99.098	60x	0.032



Assortiment de barrettes de sécurité pour fermoirs ; acier inoxydable.
 Assortment of flanged spring bars for clasps ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege für Schliessen ; Edelstahl.
 Surtido de pasadores de seguridad para cierres ; acero inoxidable.
 Assortimento di anse di sicurezza per chiusure ; acciaio inossidabile.
 Sortido de pinos de segurança para fechos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.751-10 /-11 /-12 /-13 /-14 /-15 /-16 /-17 /-19 /-20
10x MSA46.751-18

MSA	Qt.	Kg
99.152	60x	0.033



MSA	L mm	Ø A x B mm	Kg
46.051-13	13	0.88 x 1.60	0.003

Barrettes spéciales fortes ; acier inoxydable.
Special strong spring bars ; stainless steel.
 Spezielle starke Federstege ; Edelstahl.
Pasadores especiales fuertes ; acero inoxidable.
 Anse speciali forti ; acciaio inossidabile.
Pinos especiais fortes ; aço inoxidável.



MSA	L mm	Ø A x B mm	Kg
46.050-20	20	1.20 x 2.80	0.004

Barrettes spéciales fortes ; acier inoxydable.
Special strong spring bars ; stainless steel.
 Spezielle starke Federstege ; Edelstahl.
Pasadores especiales fuertes ; acero inoxidable.
 Anse speciali forti ; acciaio inossidabile.
Pinos especiais fortes ; aço inoxidável.



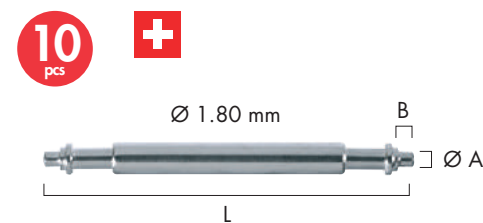
MSA	L mm	Ø A x B mm	Kg
46.053-13	13	0.88 x 1.65	0.003
46.053-17	17	0.88 x 2.00	0.003
46.053-19	19	0.88 x 2.00	0.003
46.053-20	20	0.88 x 2.00	0.003

Barrettes télescopiques spéciales fortes ; acier inoxydable.
Telescopic special strong spring bars ; stainless steel.
 Teleskopische spezielle starke Federstege ; Edelstahl.
Pasadores telescópicos especiales fuertes ; acero inoxidable.
 Anse telescopiche speciali forti ; acciaio inossidabile.
Pinos telescópicos especiais fortes ; aço inoxidável.



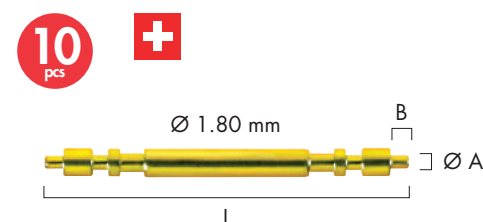
MSA	L mm	Ø A x B mm	Kg
46.054-20	20	0.88 x 2.00	0.003

Barrettes spéciales fortes, 1 côté télescopique ; acier inoxydable.
Special strong spring bars, 1 telescopic side ; stainless steel.
 Spezielle starke Federstege, 1 teleskopischer Seite ; Edelstahl.
Pasadores especiales fuertes, 1 lado telescópico ; acero inoxidable.
 Anse speciali forti, 1 lato telescopico ; acciaio inossidabile.
Pinos especiais fortes, 1 lado telescópico ; aço inoxidável.



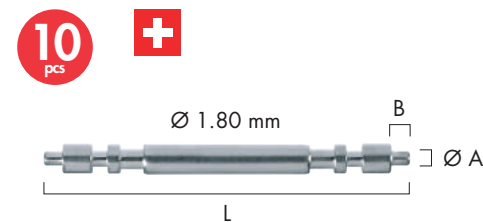
MSA	L mm	Ø A x B mm	Kg
46.052-13	13	0.88 x 1.00	0.003
46.052-14	14	0.88 x 1.00	0.003
46.052-15	15	0.88 x 1.00	0.003
46.052-16	16	0.88 x 1.00	0.003
46.052-17	17	0.88 x 1.00	0.003
46.052-18	18	0.88 x 1.00	0.003
46.052-19	19	0.88 x 1.00	0.003
46.052-20	20	0.88 x 1.00	0.003
46.052-21	21	0.88 x 1.00	0.003
46.052-22	22	0.88 x 1.00	0.003

Barrettes de sécurité spéciales fortes ; acier inoxydable.
Flanged special strong spring bars ; stainless steel.
 Doppel-Ansatz spezielle starke Federstege ; Edelstahl.
Pasadores de seguridad especiales fuertes ; acero inoxidable.
 Anse di sicurezza speciali forti ; acciaio inossidabile.
Pinos de segurança especiais fortes ; aço inoxidável.



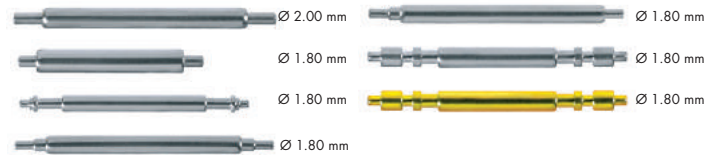
MSA	L mm	Ø A x B mm	Kg
46.056-20	20	0.88 x 1.00	0.004

Barrettes double sécurité spéciales fortes, dorées ; acier inoxydable.
Double flanged special strong spring bars, gilt ; stainless steel.
 Doppel-Ansatz spezielle starke Federstege, vergoldet ; Edelstahl.
Pasadores doble seguridad especiales fuertes, dorados ; acero inoxidable.
 Anse doppia sicurezza speciali forti, dorate ; acciaio inossidabile.
Pinos dupla segurança especiais fortes, dourados ; aço inoxidável.



MSA	L mm	Ø A x B mm	Kg
46.055-20	20	0.88 x 1.00	0.004

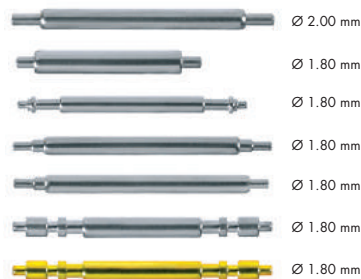
Barrettes double sécurité spéciales fortes ; acier inoxydable.
Double flanged special strong spring bars ; stainless steel.
 Doppel-Ansatz spezielle starke Federstege ; Edelstahl.
Pasadores doble seguridad especiales fuertes ; acero inoxidable.
 Anse doppia sicurezza speciali forti ; acciaio inossidabile.
Pinos dupla segurança especiais fortes ; aço inoxidável.



Assortiment de barrettes spéciales fortes ; acier inoxydable et dorées.
 Assortment of special strong spring bars ; stainless steel and gilt.
 Sortiment von spezielle starke Federstege ; Edelstahl und vergoldet.
 Surtido de pasadores especiales fuertes ; acero inoxidable y dorados.
 Assortimento di anse speciali forti ; acciaio inossidabile e dorate.
 Sortido de pinos especiais fortes ; aço inoxidável e dourados.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
4x MSA46.050-20 /.051-13 /.052-13 /.052-17 /.052-19 /.052-19
20 /.053-19 /.054-20 /.055-20 /.056-20

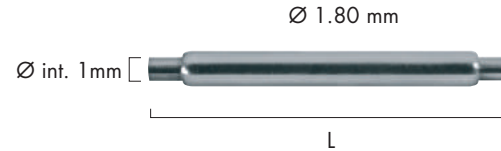
MSA	Qt.	Kg
99.120	40x	0.038



Assortiment de fournitures diverses.
 Assortment of miscellaneous watch parts.
 Sortiment von unterschiedliche Furnituren.
 Surtido de repuestos diversos.
 Assortimento di forniture diverse.
 Sortido de furnituras diversas.

MSA	Qt.	Kg
99.119	106x	0.370

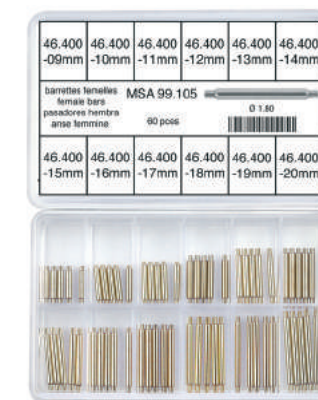
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
51 modèles - models - Modelle - modelos - modelli - modelos
1x MSA03.655 /.665-01 /.665-02 /.665-03 /.665-04 /.665-05 /.665-06
2x MSA43.004 /.005
2x MSA61.207 /.707
2x MSA65.001 /.001-A /.002 /.002-A /.003 /.003-A /.004 /.004-A /.005 /.005-A /.006 /.006-A
2x RX0405.1210 /.1570 /.2030 /.2035 /.2130 /.3030 /.3035 /.3135
1x RX0770.1220 /.1530 /.2030 /.2130 /.3035 /.3135 /.520 /.620 /.720
2x RX0770.3000
4x MSA46.050-20 /.051-13 /.052-13 /.052-17 /.052-19 /.052-20 /.053-19 /.054-20 /.055-20
/.056-20



Barrettes femelles ; maillechort.
 Female bars ; nickel silver.
 Weibliche Federstege ; Neusilber.
 Pasadores hembra ; plata alemana.
 Anse femminile ; alpacca.
 Pinos fêmeos ; níquel prateado.



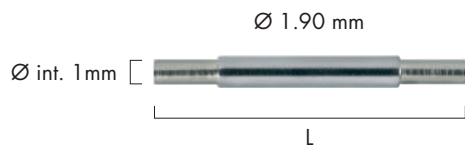
MSA	L mm	Kg	MSA	L mm	Kg
46.400-07.0	7	0.020	46.400-16.0	16	0.020
46.400-08.0	8	0.020	46.400-17.0	17	0.020
46.400-09.0	9	0.020	46.400-18.0	18	0.020
46.400-10.0	10	0.020	46.400-19.0	19	0.020
46.400-11.0	11	0.020	46.400-20.0	20	0.020
46.400-12.0	12	0.020	46.400-21.0	21	0.020
46.400-13.0	13	0.020	46.400-22.0	22	0.020
46.400-14.0	14	0.020	46.400-23.0	23	0.020
46.400-15.0	15	0.020	46.400-24.0	24	0.020



Assortiment de barrettes femelles ; maillechort.
 Assortment of female bars ; nickel silver.
 Sortiment von weibliche Federstege ; Neusilber.
 Surtido de pasadores hembra ; plata alemana.
 Assortimento di anse femmine ; alpacca.
 Sortido de pinos fêmeos ; níquel prateado.

MSA	Qt.	Kg
99.105	60x	0.037

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.400-09 /-10 /-11 /-12 /-13 /-14 /-15 /-16 /-17 /-18
/-19 /-20



Barrettes femelles universelles télescopiques ; maillechort.
 Female telescopic universal bars ; nickel silver.
 Weibliche teleskopische universelle Federstege ; Neusilber.
 Pasadores hembra universales telescópicos ; plata alemana.
 Anse femmine universali telescopiche ; alpacca.
 Pinos fêmeos universais telescópicos ; níquel prateado.

100
pcs

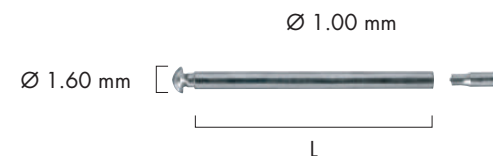
MSA	L mm	Kg	MSA	L mm	Kg
46.450-0812	08-12	0.015	46.450-1522	15-22	0.016
46.450-1015	10-15	0.015	46.450-1824	18-24	0.018
46.450-1218	12-18	0.016			



Assortiment de barrettes femelles universelles télescopiques ; maillechort.
 Assortiment of female telescopic universal bars ; nickel silver.
 Sortiment von weibliche teleskopische universelle Federstege ; Neusilber.
 Surtido de pasadores hembra universales telescópicos ; plata alemana.
 Assortimento di anse femmine universali telescopiche ; alpacca.
 Sortido de pinos fêmeos universais telescópicos ; níquel prateado.

MSA	Qt.	Kg
99.106	60x	0.033

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
12x MSA46.450-0812 /-1015 /-1218 /-1522 /-1824



Barrettes à pression ; acier inoxydable.
 Press-in bars ; stainless steel.
 Druckfederstege ; Edelstahl.
 Pasadores de presión ; acero inoxidable.
 Anse a pressione ; acciaio inossidabile.
 Pinos de pressão ; aço inoxidável.

10
pcs

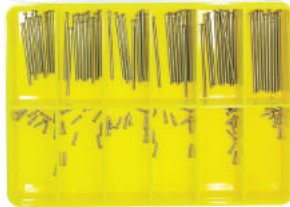
MSA	L mm	Kg	MSA	L mm	Kg
46.380-10	10	0.002	46.380-22	22	0.002
46.380-12	12	0.002	46.380-23	23	0.002
46.380-14	14	0.002	46.380-24	24	0.002
46.380-15	15	0.002	46.380-25	25	0.002
46.380-16	16	0.002	46.380-26	26	0.002
46.380-17	17	0.002	46.380-27	27	0.002
46.380-18	18	0.002	46.380-28	28	0.002
46.380-19	19	0.002	46.380-29	29	0.002
46.380-20	20	0.002	46.380-30	30	0.002
46.380-21	21	0.002			



Assortiment de barrettes à pression ; acier inoxydable.
 Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.220	60x	0.029

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.380-10 /-12 /-14 /-16 /-18 /-20



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.380-18 /-19 /-20 /-21 /-22 /-24

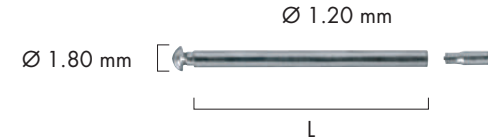
MSA	Qt.	Kg
99.221	60x	0.042



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.380-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30

MSA	Qt.	Kg
99.222	100x	0.037

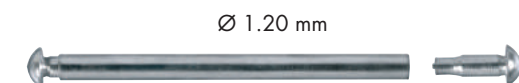
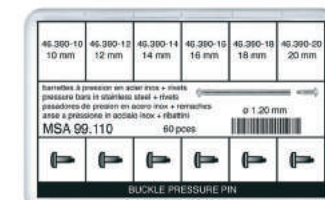


Barrettes à pression ; acier inoxydable.
 Press-in bars ; stainless steel.
 Druckfederstege ; Edelstahl.
 Pasadores de presión ; acero inoxidable.
 Anse a pressione ; acciaio inossidabile.
 Pinos de pressão ; aço inoxidável.

10
pcs

MSA	L mm	Kg
46.390-10	10	0.002
46.390-12	12	0.002
46.390-14	14	0.002
46.390-15	15	0.002
46.390-16	16	0.002
46.390-17	17	0.002
46.390-18	18	0.002
46.390-19	19	0.002
46.390-20	20	0.002
46.390-21	21	0.002

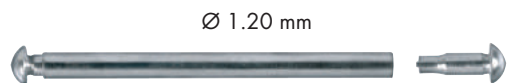
MSA	L mm	Kg
46.390-22	22	0.002
46.390-23	23	0.002
46.390-24	24	0.002
46.390-25	25	0.002
46.390-26	26	0.002
46.390-27	27	0.002
46.390-28	28	0.002
46.390-29	29	0.002
46.390-30	30	0.002



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.110	60x	0.037

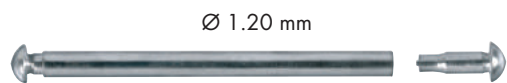
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.390-10 /-12 /-14 /-16 /-18 /-20



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.190	60x	0.035

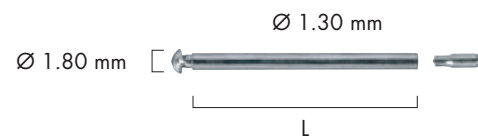
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.390-18 /-19 /-20 /-21 /-22 /-24



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.191	100x	0.040

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.390-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30



10 pcs

MSA	L mm	Kg
46.370-18	18	0.002
46.370-20	20	0.002
46.370-22	22	0.002
46.370-24	24	0.002
46.370-26	26	0.002
46.370-28	28	0.002

Barrettes à pression ; acier inoxydable.
 Press-in bars ; stainless steel.
 Druckfederstege ; Edelstahl.
 Pasadores de presión ; acero inoxidable.
 Anse a pressione ; acciaio inossidabile.
 Pinos de pressão ; aço inoxidável.

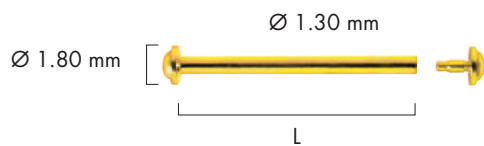
MSA	L mm	Kg
46.370-30	30	0.002
46.370-31	31	0.002
46.370-32	32	0.002
46.370-33	33	0.002
46.370-34	34	0.002
46.370-35	35	0.002



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.225	100x	0.042

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.370-18 /-20 /-22 /-24 /-26 /-28 /-30 /-32 /-34 /-35

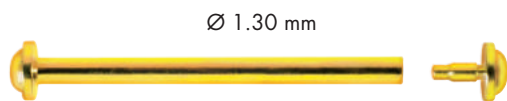
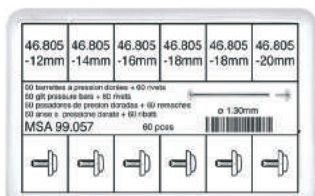


Barrettes à pression, dorées ; acier inoxydable.
 Press-in bars, gilt ; stainless steel.
 Druckfederstege, vergoldet ; Edelstahl.
 Pasadores de presión, dorados ; acero inoxidable.
 Anse a pressione, dorate ; acciaio inossidabile.
 Pinos de pressão, dourados ; aço inoxidável.

100 pcs

MSA	L mm	Kg
46.805-12	12	0.023
46.805-14	14	0.023
46.805-16	16	0.023

MSA	L mm	Kg
46.805-18	18	0.023
46.805-20	20	0.023



Assortiment de barrettes à pression, dorées ; acier inoxydable.
 Assortiment of press-in bars, gilt ; stainless steel.
 Sortiment von Druckfederstege, vergoldet ; Edelstahl.
 Surtido de pasadores de presión, dorados ; acero inoxidable.
 Assortimento di anse a pressione, dorate ; acciaio inossidabile.
 Sortido de pinos de pressão, dourados ; aço inoxidável.

MSA	Qt.	Kg
99.057	60x	0.038

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.805-12 /-14 /-16 /-20
20x MSA46.805-18



Tubes pour barrettes à pression ; acier inoxydable.
 Tubes for press-in bars ; stainless steel.
 Röhre für Druckfederstege ; Edelstahl.
 Tubos para pasadores de presión ; acero inoxidable.
 Tubi per anse a pressione ; acciaio inossidabile.
 Tubos para pinos de pressão ; aço inoxidável.

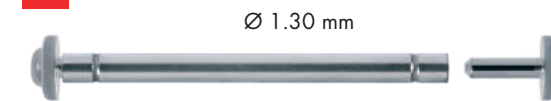
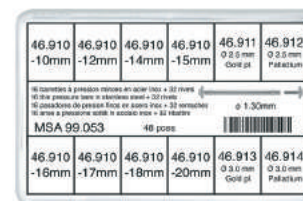
MSA	L mm	Kg
46.910-10	10	0.001
46.910-12	12	0.001
46.910-14	14	0.001
46.910-15	15	0.001
46.910-16	16	0.001

MSA	L mm	Kg
46.910-17	17	0.001
46.910-18	18	0.001
46.910-20	20	0.001
46.910-21	21	0.001



Rivets pour barrettes à pression ; laiton plaqué or 2N18 1 µ et laiton palladium 1 µ.
 Rivets for press-in bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Nieten für Druckfederstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Remaches para pasadores de presión ; latón dorado 2N18 1 µ y latón paladio 1 µ.
 Ribattini per anse a pressione ; ottone placcato oro 2N18 1 µ e ottone palladio 1 µ.
 Rebites para pinos de pressão ; latão banhado a ouro 2N18 1 µ e latão paládio 1 µ.

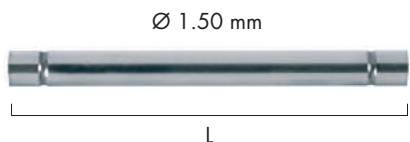
MSA	Laiton plaqué/Brass gold-plated	Dimension/Size mm	MSA	Laiton palladium/Palladium brass
46.911		Ø 2.50x1.15 / M 1.00 / L 4.80	46.912	
46.913		Ø 3.00x1.15 / M 1.00 / L 4.80	46.914	
Kg 0.001				1/1



Assortiment de barrettes à pression ; acier inoxydable.
 Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.053	16x + 32x	0.073

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
2x MSA46.910-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
8x MSA46.911 /.912 /.913 /.914



Tubes pour barrettes à pression ; acier inoxydable.
 Tubes for press-in bars ; stainless steel.
 Röhre für Druckfederstege ; Edelstahl.
 Tubos para pasadores de presión ; acero inoxidable.
 Tubi per anse a pressione ; acciaio inossidabile.
 Tubos para pinos de pressão ; aço inoxidável.

MSA	Longueur/Length mm	Kg	MSA	Longueur/Length mm	Kg
46.920-10	10	0.001	46.920-16	16	0.001
46.920-12	12	0.001	46.920-17	17	0.001
46.920-14	14	0.001	46.920-18	18	0.001
46.920-15	15	0.001	46.920-20	20	0.001



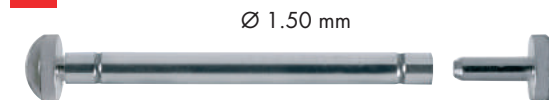
Rivets pour barrettes à pression ; laiton MS58 et laiton palladium 1 µ.
 Rivets for press-in bars ; brass MS58 and palladium brass 1 µ.
 Nieten für Druckfederstege ; Messing MS58 und Messing Palladium 1 µ.
 Remaches para pasadores de presión ; latón MS58 y latón paladio 1 µ.
 Ribattini per anse a pressione ; ottone MS58 e ottone palladio 1 µ.
 Rebites para pinos de pressão ; latão MS58 e latão paládio 1 µ.

MSA	Laiton plaqué/Brass gold-plated	Dimension/Size mm	MSA	Laiton palladium/Palladium brass
46.921		Ø 3.00x1.15 / M 1.00 / L 5.00	46.922	
46.923		Ø 3.50x1.15 / M 1.00 / L 5.20	46.924	

Kg 0.001 1/1

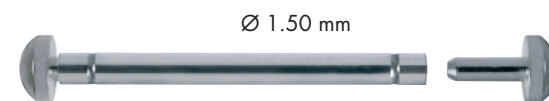


MSA	Qt.	Kg
99.054	16x + 32x	0.073



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

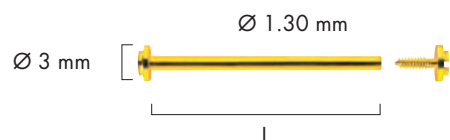
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
2x MSA46.920-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
8x MSA46.921 /.922 /.923 /.924



MSA	Qt.	Kg
99.041	70x + 140x	0.235

Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckfederstege ; Edelstahl.
 Surtido de pasadores de presión ; acero inoxidable.
 Assortimento di anse a pressione ; acciaio inossidabile.
 Sortido de pinos de pressão ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6+1 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.920-10 /-12 /-14 /-16 /-20
20x MSA46.920-18
140x MSA46.923

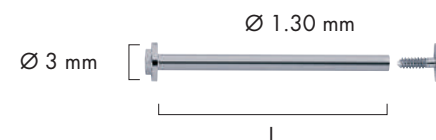


Barrettes à vis en laiton ; dorées.
 Brass screw-on bars ; gilt.
 Schraubfederstege aus Messing ; vergoldet.
 Pasadores de rosca en latón ; dorados.
 Anse a vite in ottone ; dorate.
 Pinos de rosca em latão ; dourados.

10 pcs

MSA	Longueur/Length mm	Kg
46.800-12	12	0.003
46.800-14	14	0.003
46.800-16	16	0.003

MSA	Longueur/Length mm	Kg
46.800-18	18	0.003
46.800-20	20	0.003

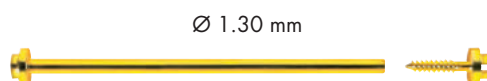


Barrettes à vis en laiton ; chromées.
 Brass screw-on bars ; chromed.
 Schraubfederstege aus Messing ; verchromt.
 Pasadores de rosca en latón ; cromados.
 Anse a vite in ottone ; cromate.
 Pinos de rosca em latão ; cromados.

10 pcs

MSA	Longueur/Length mm	Kg
46.801-12	12	0.003
46.801-14	14	0.003
46.801-16	16	0.003

MSA	Longueur/Length mm	Kg
46.801-18	18	0.003
46.801-20	20	0.003



Assortiment de barrettes à vis en laiton ; dorées.
 Assortiment of brass screw-on bars ; gilt.
 Sortiment von Schraubfederstege aus Messing ; vergoldet.
 Surtido de pasadores de rosca en latón ; dorados.
 Assortimento di anse a vite in ottone ; dorate.
 Sortido de pinos de rosca em latão ; dourados.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.800-12 /-14 /-16 /-20
20x MSA46.800-18

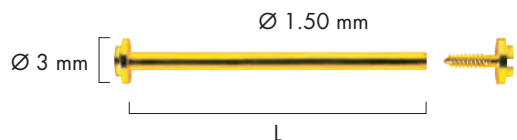
MSA	Qt.	Kg
99.002	60x	0.043



Assortiment de barrettes à vis en laiton ; chromées.
 Assortiment of brass screw-on bars ; chromed.
 Sortiment von Schraubfederstege aus Messing ; verchromt.
 Surtido de pasadores de rosca en latón ; cromados.
 Assortimento di anse a vite in ottone ; cromate.
 Sortido de pinos de rosca em latão ; cromados.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.801-12 /-14 /-16 /-20
20x MSA46.801-18

MSA	Qt.	Kg
99.108	60x	0.043

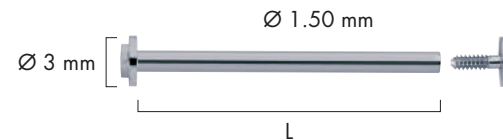


Barrettes à vis en laiton ; dorées.
 Brass screw-on bars ; gilt.
 Schraubfederstege aus Messing ; vergoldet.
 Pasadores de rosca en latón ; dorados.
 Anse a vite in ottone ; dorate.
 Pinos de rosca em latão ; dourados.

10
pcs

MSA	Longueur/Length mm	Kg
46.802-12	12	0.003
46.802-14	14	0.003
46.802-16	16	0.004

MSA	Longueur/Length mm	Kg
46.802-18	18	0.004
46.802-20	20	0.004



Barrettes à vis en laiton ; chromées.
 Brass screw-on bars ; chromed.
 Schraubfederstege aus Messing ; verchromt.
 Pasadores de rosca en latón ; cromados.
 Anse a vite in ottone ; cromate.
 Pinos de rosca em latão ; cromados.

10
pcs

MSA	Longueur/Length mm	Kg
46.803-12	12	0.003
46.803-14	14	0.003
46.803-16	16	0.004

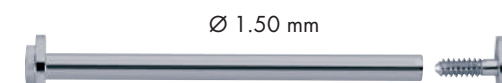
MSA	Longueur/Length mm	Kg
46.803-18	18	0.004
46.803-20	20	0.004



Assortiment de barrettes à vis en laiton ; dorées.
 Assortiment of brass screw-on bars ; gilt.
 Sortiment von Schraubfederstege aus Messing ; vergoldet.
 Surtido de pasadores de rosca en latón ; dorados.
 Assortimento di anse a vite in ottone ; dorate.
 Sortido de pinos de rosca em latão ; dourados.

MSA	Qt.	Kg
99.217	60x	0.043

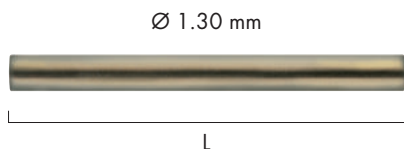
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.802-12 /-14 /-16 /-20
20x MSA46.802-18



Assortiment de barrettes à vis en laiton ; chromées.
 Assortiment of brass screw-on bars ; chromed.
 Sortiment von Schraubfederstege aus Messing ; verchromt.
 Surtido de pasadores de rosca en latón ; cromados.
 Assortimento di anse a vite in ottone ; cromate.
 Sortido de pinos de rosca em latão ; cromados.

MSA	Qt.	Kg
99.216	60x	0.043

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.803-12 /-14 /-16 /-20
20x MSA46.803-18



Tubes pour barrettes à vis ; maillechort.
 Tubes for screw-on bars ; nickel silver.
 Röhre für Schraubfederstege ; Neusilber.
 Tubos para pasadores de rosca ; plata alemana.
 Tubi per anse a vite ; alpacca.
 Tubos para pinos de rosca ; níquel prateado.

MSA	Longueur/Length mm	Kg	MSA	Longueur/Length mm	Kg
46.810-10	10	0.001	46.810-16	16	0.001
46.810-12	12	0.001	46.810-17	17	0.001
46.810-14	14	0.001	46.810-18	18	0.001
46.810-15	15	0.001	46.810-20	20	0.001



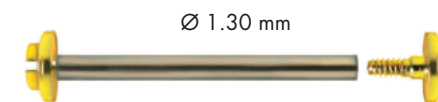
Vis pour barrettes à vis ; laiton plaqué or 2N18 1 µ et laiton palladium 1 µ.
 Screws for screw-on bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Schrauben für Schraubfederstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Tornillos para pasadores de rosca ; latón dorado 2N18 1 µ y latón paladio 1 µ.
 Vite per anse a vite ; ottone placcato oro 2N18 1 µ e ottone palladio 1 µ.
 Parafusos para pinos de rosca ; latão banhado a ouro 2N18 1 µ e latão paládio 1 µ.

MSA	Laiton plaqué/Brass gold-plated	Dimension/Size mm	MSA	Laiton palladium/Palladium brass
46.811		Ø 3.00x1.15 / M 0.80 / L 3.60	46.812	
46.813		Ø 3.50x1.15 / M 0.80 / L 3.60	46.814	

Kg 0.001 1/1



MSA	Qt.	Kg
99.055	16x + 32x	0.073



Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubfederstege ; Neusilber.
 Surtido de pasadores de rosca ; plata alemana.
 Assortimento di anse a vite ; alpacca.
 Sortido de pinos de rosca ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
2x MSA46.810-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
8x MSA46.811 /.812 /.813 /.814



MSA	Qt.	Kg
99.059	80x + 160x	0.265



Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubfederstege ; Neusilber.
 Surtido de pasadores de rosca ; plata alemana.
 Assortimento di anse a vite ; alpacca.
 Sortido de pinos de rosca ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.810-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
40x MSA46.811 /.812 /.813 /.814



Tubes pour barrettes à vis ; maillechort.
 Tubes for screw-on bars ; nickel silver.
 Röhre für Schraubfederstege ; Neusilber.
 Tubos para pasadores de rosca ; plata alemana.
 Tubi per anse a vite ; alpacca.
 Tubos para pinos de rosca ; níquel prateado.

MSA	Longueur/Length mm	Kg
46.820-10	10	0.002
46.820-12	12	0.002
46.820-14	14	0.002
46.820-15	15	0.002
46.820-16	16	0.002

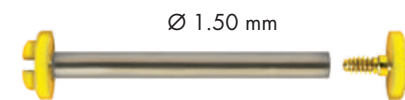
MSA	Longueur/Length mm	Kg
46.820-17	17	0.002
46.820-18	18	0.002
46.820-20	20	0.002
46.820-22	22	0.002
46.820-24	24	0.002



Vis pour barrettes à vis ; laiton plaqué or 2N18 1 µ et laiton palladium 1 µ.
 Screws for screw-on bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Schrauben für Schraubfederstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Tornillos para pasadores de rosca ; latón dorado 2N18 1 µ y latón paladio 1 µ.
 Vite per anse a vite ; ottone placcato oro 2N18 1 µ e ottone palladio 1 µ.
 Parafusos para pinos de rosca ; latão banhado a ouro 2N18 1 µ e latão paládio 1 µ.

MSA	Laiton plaqué/Brass gold-plated	Dimension/Size mm	MSA	Laiton palladium/Palladium brass
46.821		Ø 3.20x1.15 / M 1.00 / L 3.60	46.822	
46.823		Ø 3.70x1.15 / M 1.00 / L 4.00	46.824	

Kg 0.001 1/1



Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubfederstege ; Neusilber.
 Surtido de pasadores de rosca ; plata alemana.
 Assortimento di anse a vite ; alpacca.
 Sortido de pinos de rosca ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
2x MSA46.820-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
8x MSA46.821 /.822 /.823 /.824



MSA	Qt.	Kg
99.056	16x + 32x	0.089

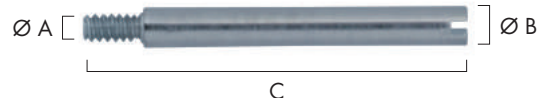


Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubfederstege ; Neusilber.
 Surtido de pasadores de rosca ; plata alemana.
 Assortimento di anse a vite ; alpacca.
 Sortido de pinos de rosca ; níquel prateado.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8+4 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.820-10 /-12 /-14 /-15 /-16 /-17 /-18 /-20
40x MSA46.821 /.822 /.823 /.824

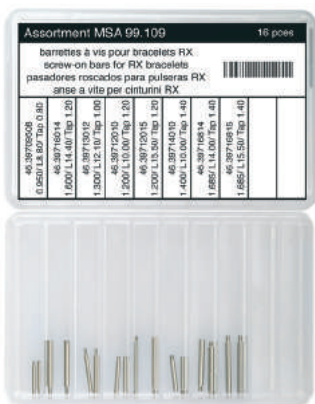


MSA	Qt.	Kg
99.061	80x + 160x	0.345



Barrettes à vis ; acier inoxydable.
 Screw-on bars ; stainless steel.
 Schraubfederstege ; Edelstahl.
 Pasadores de rosca ; acero inoxidable.
 Anse a vite ; acciaio inossidabile.
 Pinos de rosca ; aço inoxidável.

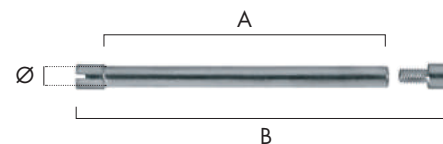
MSA	Ø A mm	Ø B mm	C mm	Kg	MSA	Ø A mm	Ø B mm	C mm	Kg
46.39709508	0.80	0.950	8.80	0.001	46.39714010	1.40	1.400	10.00	0.001
46.39712010	1.20	1.200	10.00	0.001	46.39716014	1.20	1.600	14.40	0.001
46.39712015	1.20	1.200	15.50	0.001	46.39716814	1.40	1.685	14.00	0.001
46.39713012	1.00	1.300	12.10	0.001	46.39716815	1.40	1.685	15.50	0.001



Assortiment de barrettes à vis ; acier inoxydable.
 Assortiment of screw-on bars ; stainless steel.
 Sortiment von Schraubfederstege ; Edelstahl.
 Surtido de pasadores de rosca ; acero inoxidable.
 Assortimento di anse a vite ; acciaio inossidabile.
 Sortido de pinos de rosca ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
2x MSA46.39709508 /.39712010 /.39712015 /.39713012
/.39714010 /.39716014 /.39716814 /.39716815

MSA	Qt.	Kg
99.109	16x	0.044



Barrettes à vis extra-larges + vis ; acier inoxydable.
 Extra large screw-on bars + screws ; stainless steel.
 Extra breite Schraubfederstege + Schrauben ; Edelstahl.
 Pasadores de rosca extra-anchos + tornillos ; acero inoxidable.
 Anse a vite extra-larghe + viti ; acciaio inossidabile.
 Pinos de rosca extra-largos + parafusos ; aço inoxidável.

10 pcs

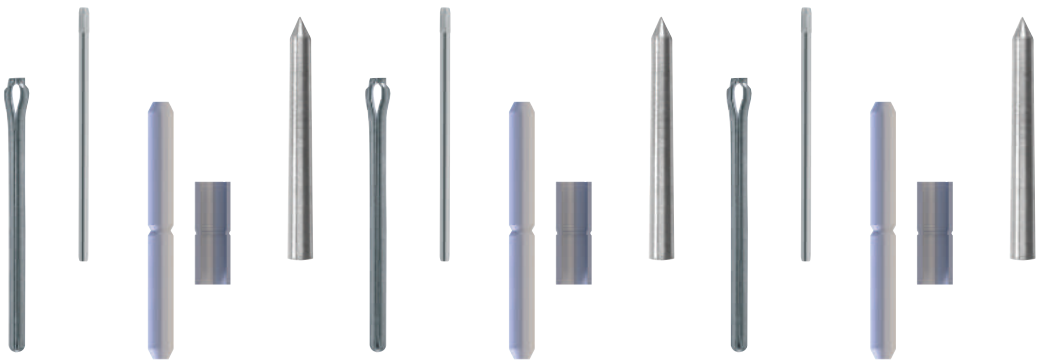
MSA	1/1	Ø mm	A mm	B mm	Kg
46.391		1.40	26.70	30.20	0.005
46.392		1.50	23.00	27.50	0.005
46.393		1.50	25.60	30.50	0.005
46.394		1.70	24.00	28.80	0.006
46.396		1.70	25.00	30.00	0.006
46.395		1.80	25.40	30.50	0.007



Assortiment de barrettes à vis extra-larges ; acier inoxydable.
 Assortiment of extra large screw-on bars ; stainless steel.
 Sortiment von extra breite Schraubfederstege ; Edelstahl.
 Surtido de pasadores de rosca extra-anchos ; acero inoxidable.
 Assortimento di anse a vite extra-larghe ; acciaio inossidabile.
 Sortido de pinos de rosca extra-largos ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.391 /.392 /.393 /.394 /.395 /.396

MSA	Qt.	Kg
99.195	60x	0.056



GOUPILLES PINS STIFTEN GRUPILLAS COPIGLIE CAVILHAS

Goupilles fendues

Open-end pins

Splinte Stiften

Grupillas hendidas

Copiglie spaccate

Cavilhas rachadas



Goupilles moletées

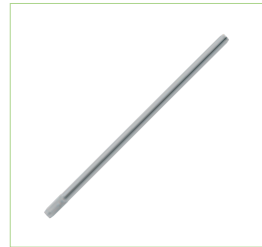
Knurled pins

Gerändelten Stiften

Grupillas moleteadas

Copiglie zigriante

Cavilhas serrilhadas



Tubes et goupilles avec encoche

Tubes and pins with notch

Röhre und Stiften mit Kerbe

Tubos y grupillas con muesca

Tubi e copiglie con tacca

Tubos e cavilhas com entalhe



Goupilles coniques

Conical pins

Konische Stiften

Grupillas cónicas

Copiglie coniche

Cavilhas cônicas





Ø 0.70 mm

100
pcs

MSA	Longueur/Length mm	Kg
46.278-04	4	0.002
46.278-06	6	0.003
46.278-08	8	0.003
46.278-10	10	0.004
46.278-12	12	0.004
46.278-14	14	0.005
46.278-15	15	0.005
46.278-16	16	0.006
46.278-17	17	0.006
46.278-18	18	0.007
46.278-19	19	0.007
46.278-20	20	0.007
46.278-21	21	0.007
46.278-22	22	0.007
46.278-23	23	0.008
46.278-24	24	0.009
46.278-25	25	0.009
46.278-26	26	0.009
46.278-27	27	0.009
46.278-28	28	0.009
46.278-29	29	0.010
46.278-30	30	0.011

Goupilles fendues ; acier inoxydable.

Open-end pins ; stainless steel.

Splinte Stiften ; Edelstahl.

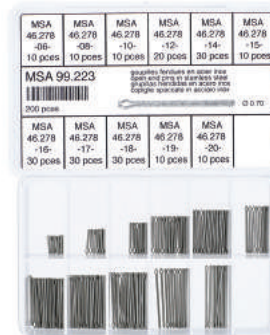
Grupillas hendidas ; acero inoxidable.

Copiglie spaccate ; acciaio inossidabile.

Cavilhas rachadas ; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.288-04	4	0.001
46.288-06	6	0.001
46.288-08	8	0.001
46.288-10	10	0.001
46.288-12	12	0.001
46.288-14	14	0.001
46.288-15	15	0.001
46.288-16	16	0.001
46.288-17	17	0.001
46.288-18	18	0.001
46.288-19	19	0.001
46.288-20	20	0.001
46.288-21	21	0.001
46.288-22	22	0.001
46.288-23	23	0.001
46.288-24	24	0.001
46.288-25	25	0.001
46.288-26	26	0.001
46.288-27	27	0.001
46.288-28	28	0.001
46.288-29	29	0.001
46.288-30	30	0.001



Ø 0.70 mm

Assortiment de goupilles fendues ; acier inoxydable.

Assortment of open-end pins ; stainless steel.

Sortiment von splinte Stiften ; Edelstahl.

Surtido de grupillas hendidas ; acero inoxidable.

Assortimento di copiglie spaccate ; acciaio inossidabile.

Sortido de cavilhas rachadas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.278-06 /-08 /-10 /-15 /-19 /-20
20x MSA46.278-12
30x MSA46.278-14 /-16 /-17 /-18

MSA	Qt.	Kg
99.223	200x	0.034



Ø 0.70 mm

Assortiment de goupilles fendues ; acier inoxydable.

Assortment of open-end pins ; stainless steel.

Sortiment von splinte Stiften ; Edelstahl.

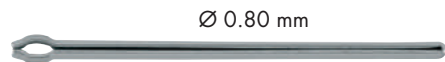
Surtido de grupillas hendidas ; acero inoxidable.

Assortimento di copiglie spaccate ; acciaio inossidabile.

Sortido de cavilhas rachadas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.278-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30

MSA	Qt.	Kg
99.224	100x	0.036



100
pcs

MSA	Longueur/Length mm	Kg
46.279-04	4	0.003
46.279-06	6	0.004
46.279-08	8	0.004
46.279-10	10	0.005
46.279-12	12	0.005
46.279-14	14	0.006
46.279-15	15	0.006
46.279-16	16	0.007
46.279-17	17	0.007
46.279-18	18	0.008
46.279-19	19	0.008
46.279-20	20	0.008
46.279-21	21	0.008
46.279-22	22	0.008
46.279-23	23	0.009
46.279-24	24	0.010
46.279-25	25	0.010
46.279-26	26	0.010
46.279-27	27	0.010
46.279-28	28	0.010
46.279-29	29	0.011
46.279-30	30	0.012

Goupilles fendues ; acier inoxydable.

Open-end pins ; stainless steel.

Splinte Stiften ; Edelstahl.

Grupillas hendidas ; acero inoxidable.

Copiglie spaccate ; acciaio inossidabile.

Cavilhas rachadas ; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.289-04	4	0.001
46.289-06	6	0.001
46.289-08	8	0.001
46.289-10	10	0.001
46.289-12	12	0.001
46.289-14	14	0.001
46.289-15	15	0.001
46.289-16	16	0.001
46.289-17	17	0.001
46.289-18	18	0.001
46.289-19	19	0.001
46.289-20	20	0.002
46.289-21	21	0.002
46.289-22	22	0.002
46.289-23	23	0.002
46.289-24	24	0.002
46.289-25	25	0.002
46.289-26	26	0.002
46.289-27	27	0.002
46.289-28	28	0.002
46.289-29	29	0.002
46.289-30	30	0.002



MSA	Qt.	Kg
99.137	200x	0.040

Ø 0.80 mm



Assortiment de goupilles fendues ; acier inoxydable.

Assortment of open-end pins ; stainless steel.

Sortiment von splinte Stiften ; Edelstahl.

Surtido de grupillas hendidas ; acero inoxidable.

Assortimento di copiglie spaccate ; acciaio inossidabile.

Sortido de cavilhas rachadas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.279-06 /-08 /-10 /-15 /-19 /-20
20x MSA46.279-12
30x MSA46.279-14 /-16 /-17 /-18



MSA	Qt.	Kg
99.145	100x	0.035

Ø 0.80 mm



Assortiment de goupilles fendues ; acier inoxydable.

Assortment of open-end pins ; stainless steel.

Sortiment von splinte Stiften ; Edelstahl.

Surtido de grupillas hendidas ; acero inoxidable.

Assortimento di copiglie spaccate ; acciaio inossidabile.

Sortido de cavilhas rachadas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.279-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30



Ø 0.90 mm

100
pcs

MSA	Longueur/Length mm	Kg
46.280-04	4	0.003
46.280-06	6	0.004
46.280-08	8	0.004
46.280-10	10	0.005
46.280-12	12	0.005
46.280-14	14	0.006
46.280-15	15	0.006
46.280-16	16	0.007
46.280-17	17	0.007
46.280-18	18	0.008
46.280-19	19	0.008
46.280-20	20	0.008
46.280-21	21	0.008
46.280-22	22	0.008
46.280-23	23	0.009
46.280-24	24	0.010
46.280-25	25	0.010
46.280-26	26	0.010
46.280-27	27	0.010
46.280-28	28	0.010
46.280-29	29	0.011
46.280-30	30	0.012

Goupilles fendues; acier inoxydable.

Open-end pins; stainless steel.

Splinte Stiften; Edelstahl.

Grupillas hendidas; acero inoxidable.

Copiglie spaccate; acciaio inossidabile.

Cavilhas rachadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.290-04	4	0.001
46.290-06	6	0.001
46.290-08	8	0.001
46.290-10	10	0.001
46.290-12	12	0.001
46.290-14	14	0.001
46.290-15	15	0.001
46.290-16	16	0.001
46.290-17	17	0.001
46.290-18	18	0.001
46.290-19	19	0.001
46.290-20	20	0.002
46.290-21	21	0.002
46.290-22	22	0.002
46.290-23	23	0.002
46.290-24	24	0.002
46.290-25	25	0.002
46.290-26	26	0.002
46.290-27	27	0.002
46.290-28	28	0.002
46.290-29	29	0.002
46.290-30	30	0.002



MSA	Qt.	Kg
99.048	200x	0.041

Ø 0.90 mm



Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

Sortiment von splinte Stiften; Edelstahl.

Surtido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.280-06 /-08 /-10 /-15 /-19 /-20
20x MSA46.280-12
30x MSA46.280-14 /-16 /-17 /-18



MSA	Qt.	Kg
99.146	100x	0.028

Ø 0.90 mm



Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

Sortiment von splinte Stiften; Edelstahl.

Surtido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.280-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30



Ø 1.00 mm

100
pcs

MSA	Longueur/Length mm	Kg
46.281-04	4	0.004
46.281-06	6	0.006
46.281-08	8	0.007
46.281-10	10	0.010
46.281-12	12	0.011
46.281-14	14	0.013
46.281-15	15	0.014
46.281-16	16	0.015
46.281-17	17	0.015
46.281-18	18	0.017
46.281-19	19	0.017
46.281-20	20	0.018
46.281-21	21	0.019
46.281-22	22	0.020
46.281-23	23	0.020
46.281-24	24	0.021
46.281-25	25	0.022
46.281-26	26	0.024
46.281-27	27	0.024
46.281-28	28	0.025
46.281-29	29	0.026
46.281-30	30	0.027

Goupilles fendues; acier inoxydable.

Open-end pins; stainless steel.

Splinte Stiften; Edelstahl.

Grupillas hendidas; acero inoxidable.

Copiglie spaccate; acciaio inossidabile.

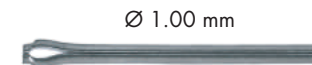
Cavilhas rachadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.291-04	4	0.001
46.291-06	6	0.001
46.291-08	8	0.001
46.291-10	10	0.001
46.291-12	12	0.001
46.291-14	14	0.001
46.291-15	15	0.001
46.291-16	16	0.002
46.291-17	17	0.002
46.291-18	18	0.002
46.291-19	19	0.002
46.291-20	20	0.002
46.291-21	21	0.002
46.291-22	22	0.002
46.291-23	23	0.002
46.291-24	24	0.002
46.291-25	25	0.002
46.291-26	26	0.003
46.291-27	27	0.003
46.291-28	28	0.003
46.291-29	29	0.003
46.291-30	30	0.003



MSA	Qt.	Kg
99.049	200x	0.045



Ø 1.00 mm

Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

Sortiment von splinte Stiften; Edelstahl.

Sortido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.281-06 /-08 /-10 /-15 /-19 /-20
20x MSA46.281-12
30x MSA46.281-14 /-16 /-17 /-18



MSA	Qt.	Kg
99.147	100x	0.028



Ø 1.00 mm

Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

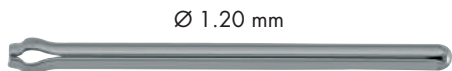
Sortiment von splinte Stiften; Edelstahl.

Sortido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.281-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30



Ø 1.20 mm

100
pcs

MSA	Longueur/Length mm	Kg
46.282-04	4	0.004
46.282-06	6	0.006
46.282-08	8	0.007
46.282-10	10	0.010
46.282-12	12	0.011
46.282-14	14	0.013
46.282-15	15	0.014
46.282-16	16	0.015
46.282-17	17	0.015
46.282-18	18	0.017
46.282-19	19	0.017
46.282-20	20	0.018
46.282-21	21	0.019
46.282-22	22	0.020
46.282-23	23	0.020
46.282-24	24	0.021
46.282-25	25	0.022
46.282-26	26	0.024
46.282-27	27	0.024
46.282-28	28	0.025
46.282-29	29	0.026
46.282-30	30	0.027

Goupilles fendues; acier inoxydable.

Open-end pins; stainless steel.

Splinte Stiften; Edelstahl.

Grupillas hendidas; acero inoxidable.

Copiglie spaccate; acciaio inossidabile.

Cavilhas rachadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.292-04	4	0.001
46.292-06	6	0.001
46.292-08	8	0.001
46.292-10	10	0.001
46.292-12	12	0.001
46.292-14	14	0.001
46.292-15	15	0.001
46.292-16	16	0.002
46.292-17	17	0.002
46.292-18	18	0.002
46.292-19	19	0.002
46.292-20	20	0.002
46.292-21	21	0.002
46.292-22	22	0.002
46.292-23	23	0.002
46.292-24	24	0.002
46.292-25	25	0.002
46.292-26	26	0.003
46.292-27	27	0.003
46.292-28	28	0.003
46.292-29	29	0.003
46.292-30	30	0.003



MSA	Qt.	Kg
99.081	200x	0.051

Ø 1.20 mm



Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

Sortiment von splinte Stiften; Edelstahl.

Surtido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.282-06 /-08 /-10 /-15 /-19 /-20
20x MSA46.282-12
30x MSA46.282-14 /-16 /-17 /-18



MSA	Qt.	Kg
99.148	100x	0.050

Ø 1.20 mm



Assortiment de goupilles fendues; acier inoxydable.

Assortment of open-end pins; stainless steel.

Sortiment von splinte Stiften; Edelstahl.

Surtido de grupillas hendidas; acero inoxidable.

Assortimento di copiglie spaccate; acciaio inossidabile.

Sortido de cavilhas rachadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.282-21 /-22 /-23 /-24 /-25 /-26 /-27 /-28 /-29 /-30

Ø 0.90 mm



100
pcs

MSA	Longueur/Length mm	Kg
46.283-06	6	0.004
46.283-08	8	0.005
46.283-10	10	0.007
46.283-12	12	0.009
46.283-14	14	0.010
46.283-16	16	0.011
46.283-17	17	0.012
46.283-18	18	0.013
46.283-19	19	0.014
46.283-20	20	0.014
46.283-21	21	0.015
46.283-22	22	0.016
46.283-24	24	0.018
46.283-26	26	0.019
46.283-28	28	0.021
46.283-30	30	0.022

Goupilles moletées; acier inoxydable.

Knurled pins; stainless steel.

Gerändelten Stiften; Edelstahl.

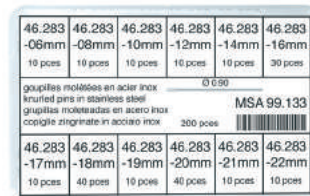
Grupillas moleteadas; acero inoxidable.

Copiglie zigrinate; acciaio inossidabile.

Cavilhas serrilhadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.293-06	6	0.001
46.293-08	8	0.001
46.293-10	10	0.001
46.293-12	12	0.001
46.293-14	14	0.001
46.293-16	16	0.001
46.293-17	17	0.001
46.293-18	18	0.001
46.293-19	19	0.001
46.293-20	20	0.001
46.293-21	21	0.001
46.293-22	22	0.001
46.293-24	24	0.001
46.293-26	26	0.001
46.293-28	28	0.001
46.293-30	30	0.001



MSA	Qt.	Kg
99.133	200x	0.027

Ø 0.90 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.283-06 /-08 /-10 /-12 /-14 /-17 /-19 /-21 /-22
30x MSA46.283-16
40x MSA46.283-18 /-20



MSA	Qt.	Kg
99.210	200x	0.050

Ø 0.90 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
40x MSA46.283-22 /-24 /-26 /-28 /-30

Ø 1.00 mm



100
pcs

MSA	Longueur/Length mm	Kg
46.284-06	6	0.004
46.284-08	8	0.005
46.284-10	10	0.007
46.284-12	12	0.009
46.284-14	14	0.010
46.284-16	16	0.011
46.284-17	17	0.012
46.284-18	18	0.013
46.284-19	19	0.014
46.284-20	20	0.014
46.284-21	21	0.015
46.284-22	22	0.016
46.284-24	24	0.018
46.284-26	26	0.019
46.284-28	28	0.021
46.284-30	30	0.022

Goupilles moletées; acier inoxydable.

Knurled pins; stainless steel.

Gerändelten Stiften; Edelstahl.

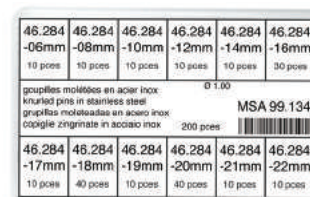
Grupillas moleteadas; acero inoxidable.

Copiglie zigrinate; acciaio inossidabile.

Cavilhas serrilhadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.294-06	6	0.001
46.294-08	8	0.001
46.294-10	10	0.001
46.294-12	12	0.001
46.294-14	14	0.001
46.294-16	16	0.001
46.294-17	17	0.001
46.294-18	18	0.001
46.294-19	19	0.001
46.294-20	20	0.001
46.294-21	21	0.001
46.294-22	22	0.001
46.294-24	24	0.001
46.294-26	26	0.001
46.294-28	28	0.001
46.294-30	30	0.001



MSA	Qt.	Kg
99.134	200x	0.027

Ø 1.00 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.284-06 /-08 /-10 /-12 /-14 /-17 /-19 /-21 /-22
30x MSA46.284-16
40x MSA46.284-18 /-20



MSA	Qt.	Kg
99.211	200x	0.056

Ø 1.00 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
40x MSA46.284-22 /-24 /-26 /-28 /-30

Ø 1.10 mm



100
pcs

MSA	Longueur/Length mm	Kg
46.285-06	6	0.005
46.285-08	8	0.006
46.285-10	10	0.008
46.285-12	12	0.010
46.285-14	14	0.011
46.285-16	16	0.012
46.285-17	17	0.013
46.285-18	18	0.014
46.285-19	19	0.015
46.285-20	20	0.015
46.285-21	21	0.016
46.285-22	22	0.017
46.285-24	24	0.019
46.285-26	26	0.020
46.285-28	28	0.022
46.285-30	30	0.023

Goupilles moletées; acier inoxydable.

Knurled pins; stainless steel.

Gerändelten Stiften; Edelstahl.

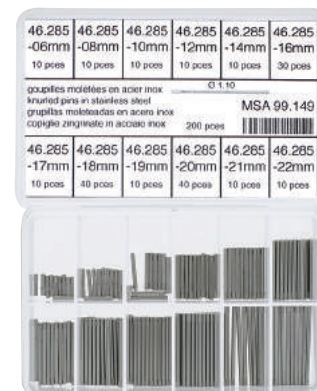
Grupillas moleteadas; acero inoxidable.

Copiglie zigrinate; acciaio inossidabile.

Cavilhas serrilhadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.295-06	6	0.001
46.295-08	8	0.001
46.295-10	10	0.001
46.295-12	12	0.001
46.295-14	14	0.001
46.295-16	16	0.001
46.295-17	17	0.001
46.295-18	18	0.001
46.295-19	19	0.001
46.295-20	20	0.001
46.295-21	21	0.001
46.295-22	22	0.001
46.295-24	24	0.001
46.295-26	26	0.001
46.295-28	28	0.001
46.295-30	30	0.001



MSA	Qt.	Kg
99.149	200x	0.050

Ø 1.10 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.285-06 /-08 /-10 /-12 /-14 /-17 /-19 /-21 /-22
30x MSA46.285-16
40x MSA46.285-18 /-20



MSA	Qt.	Kg
99.212	200x	0.063

Ø 1.10 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
40x MSA46.285-22 /-24 /-26 /-28 /-30

Ø 1.20 mm



100
pcs

MSA	Longueur/Length mm	Kg
46.286-06	6	0.006
46.286-08	8	0.008
46.286-10	10	0.009
46.286-12	12	0.011
46.286-14	14	0.013
46.286-16	16	0.015
46.286-17	17	0.015
46.286-18	18	0.017
46.286-19	19	0.017
46.286-20	20	0.018
46.286-21	21	0.019
46.286-22	22	0.020
46.286-24	24	0.021
46.286-26	26	0.023
46.286-28	28	0.025
46.286-30	30	0.027

Goupilles moletées; acier inoxydable.

Knurled pins; stainless steel.

Gerändelten Stiften; Edelstahl.

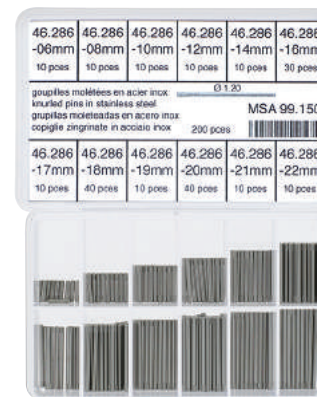
Grupillas moleteadas; acero inoxidable.

Copiglie zigrinate; acciaio inossidabile.

Cavilhas serrilhadas; aço inoxidável.

10
pcs

MSA	Longueur/Length mm	Kg
46.296-06	6	0.001
46.296-08	8	0.001
46.296-10	10	0.001
46.296-12	12	0.001
46.296-14	14	0.001
46.296-16	16	0.001
46.296-17	17	0.001
46.296-18	18	0.001
46.296-19	19	0.001
46.296-20	20	0.001
46.296-21	21	0.001
46.296-22	22	0.001
46.296-24	24	0.001
46.296-26	26	0.001
46.296-28	28	0.001
46.296-30	30	0.001



MSA	Qt.	Kg
99.150	200x	0.054

Ø 1.20 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

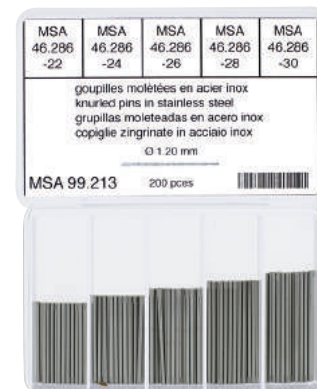
Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.286-06 /-08 /-10 /-12 /-14 /-17 /-19 /-21 /-22
30x MSA46.286-16
40x MSA46.286-18 /-20



MSA	Qt.	Kg
99.213	200x	0.070

Ø 1.20 mm



Assortiment de goupilles moletées; acier inoxydable.

Assortment of knurled pins; stainless steel.

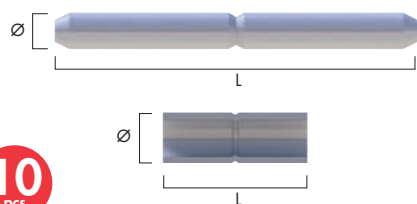
Sortiment von gerändelten Stiften; Edelstahl.

Surtido de grupillas moleteadas; acero inoxidable.

Assortimento di copiglie zigrinate; acciaio inossidabile.

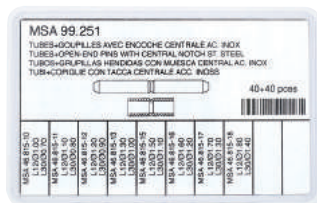
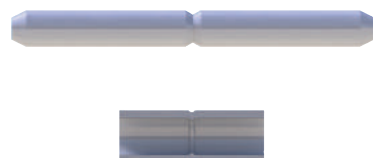
Sortido de cavilhas serrilhadas; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
40x MSA46.286-22 /-24 /-26 /-28 /-30



MSA	Tube/Tube L x Ø mm	Goupille/Pin L x Ø mm	Kg
MSA46.815-10	12 x 1.00	30 x 0.70	0.003
MSA46.815-11	12 x 1.10	30 x 0.80	0.003
MSA46.815-12	12 x 1.20	30 x 0.90	0.003
MSA46.815-13	12 x 1.30	30 x 1.00	0.003
MSA46.815-15	12 x 1.50	30 x 1.10	0.003
MSA46.815-16	12 x 1.60	30 x 1.20	0.003
MSA46.815-17	12 x 1.70	30 x 1.30	0.003
MSA46.815-18	12 x 1.80	30 x 1.40	0.003

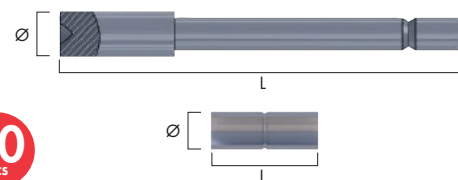
Tube et goupille avec **encoche centrale** ; acier inoxydable.
 Tube and pin with **central notch** ; stainless steel.
 Rohr und Stift mit **zentraler Kerbe** ; Edelstahl.
 Tubo y grupilla con **muesca central** ; acero inoxidable.
 Tubo e copiglia con **tacca centrale** ; acciaio inossidabile.
 Tubo e cavilha com **entalhe central** ; aço inoxidável.



Assortiment de tubes et goupilles avec **encoche centrale** ; acier inoxydable.
 Assortment of tubes and pins with **central notch** ; stainless steel.
 Sortiment von Röhre und Stiften mit **zentraler Kerbe** ; Edelstahl.
 Surtido de tubos y grupillas con **muesca central** ; acero inoxidable.
 Assortimento di tubi e copiglie con **tacca centrale** ; acciaio inossidabile.
 Sortido de tubos e cavilhas com **entalhe central** ; aço inoxidável.

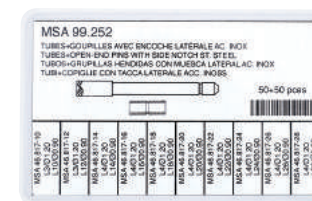
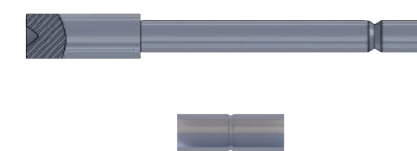
MSA	Qt.	Kg
99.251	40x + 40x	0.040

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.815-10 /-11 /-12 /-13 /-15 /-16 /-17 /-18



MSA	Tube/Tube L x Ø mm	Goupille/Pin L x Ø mm	Kg
46.817-08	3 x 1.20	8 x 0.90	0.004
46.817-09	3 x 1.20	9 x 0.90	0.004
46.817-10	3 x 1.20	10 x 0.90	0.004
46.817-11	3 x 1.20	11 x 0.90	0.004
46.817-12	3 x 1.20	12 x 0.90	0.004
46.817-13	3 x 1.20	13 x 0.90	0.004
46.817-14	4 x 1.20	14 x 0.90	0.004
46.817-15	4 x 1.20	15 x 0.90	0.004
46.817-16	4 x 1.20	16 x 0.90	0.004
46.817-17	4 x 1.20	17 x 0.90	0.004
46.817-18	4 x 1.20	18 x 0.90	0.004
46.817-19	4 x 1.20	19 x 0.90	0.004
46.817-20	4 x 1.20	20 x 0.90	0.004

Tube et goupille avec **encoche latérale** ; acier inoxydable.
 Tube and pin with **side notch** ; stainless steel.
 Rohr und Stift mit **seiten Kerbe** ; Edelstahl.
 Tubo y grupilla con **muesca lateral** ; acero inoxidable.
 Tubo e copiglia con **tacca laterale** ; acciaio inossidabile.
 Tubo e cavilha com **entalhe lateral** ; aço inoxidável.



Assortiment de tubes et goupilles avec **encoche latérale** ; acier inoxydable.
 Assortment of tubes and pins with **side notch** ; stainless steel.
 Sortiment von Röhre und Stiften mit **seiten Kerbe** ; Edelstahl.
 Surtido de tubos y grupillas con **muesca lateral** ; acero inoxidable.
 Assortimento di tubi e copiglie con **tacca laterale** ; acciaio inossidabile.
 Sortido de tubos e cavilhas com **entalhe lateral** ; aço inoxidável.

MSA	Qt.	Kg
99.252	50x + 50x	0.050

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
5x MSA46.817-10 /-12 /-14 /-16 /-18 /-20 /-22 /-24 /-26 /-28



Assortiment de tubes et goupilles avec **encoche latérale** ; acier inoxydable.
 Assortment of tubes and pins with **side notch** ; stainless steel.
 Sortiment von Röhre und Stiften mit **seiten Kerbe** ; Edelstahl.
 Surtido de tubos y grupillas con **muesca lateral** ; acero inoxidable.
 Assortimento di tubi e copiglie con **tacca laterale** ; acciaio inossidabile.
 Sortido de tubos e cavilhas com **entalhe lateral** ; aço inoxidável.

MSA	Qt.	Kg
99.253	50x + 50x	0.050

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 10 modèles - models - Modelle - modelos - modelli - modelos
 5x MSA46.817-11 /-13 /-15 /-17 /-19 /-21 /-23 /-25 /-27 /-29**



Assortiment de goupilles coniques ; laiton.
 Assortment of conical pins ; brass.
 Sortiment von konische Stiften ; Messing.
 Surtido de grupillas cónicas ; latón.
 Assortimento di copiglie coniche ; ottone.
 Sortido de cavilhas cónicas ; latão.

PERF	Qt.	Kg
48.000	100x	0.027



Assortiment de goupilles coniques ; acier.
 Assortment of conical pins ; steel.
 Sortiment von konische Stiften ; Stahl.
 Surtido de grupillas cónicas ; acero.
 Assortimento di copiglie coniche ; acciaio.
 Sortido de cavilhas cónicas ; aço.

PERF	Qt.	Kg
48.001	100x	0.026



AIGUILLES HANDS ZEIGER AGUJAS LANCETTE PONTEIROS

Aiguilles pour montres

Hands for watches

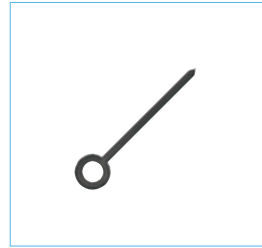
Zeiger für Uhren

Agujas para relojes

Lancette per orologi

Ponteiros para relógios

(Laiton - Brass - Messing - Latón - Ottone - Latão)



2

Aiguilles pour montres anciennes

Hands for old watches

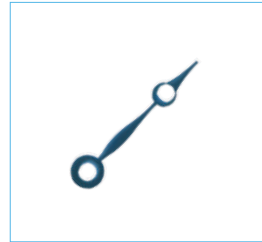
Zeiger für alte Uhren

Agujas para relojes antiguos

Lancette per orologi antichi

Ponteiros para relógios antigos

(Laiton - Brass - Messing - Latón - Ottone - Latão)



14

Aiguilles pour pendules

Hands for clocks

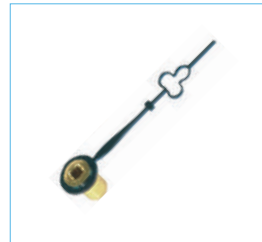
Zeiger für Pendeluhr

Agujas para péndulos

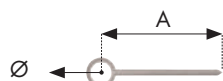
Lancette per pendoli

Ponteiros para pêndulos

(Acier - Steel - Stahl - Accero - Acciaio - Aço)



18



10 pcs

Aiguilles pour montres emballées sur carte ; couleur nickel, jaunes et noires.
 Hands for watches packed on card ; nickel colour, yellow and black.
 Zeiger für Uhren auf Karte verpackt ; Nickel-Farbe, gelbe und schwarze.
 Agujas para relojes embaladas en tarjeta ; color níquel, amarillas y negras.
 Lancette per orologi imballate su carta ; colore níquel, gialle e nere.
 Ponteiros para relógios embalados num cartão ; cor níquel, amarelos e pretos.

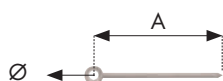
Heures - Hours - Stunden - Horas - Ore - Horas :

MSA	Nickel/ Nickel	Ø mm	A mm	MSA	Jaune/ Yellow	MSA	Noir/ Black
45.200	○	0.80	8.5	45.600	○	45.900	○
45.201	○	0.90	8.5	45.601	○	45.901	○
45.202	○	1.00	8.5	45.602	○	45.902	○
45.203	○	1.10	8.5	45.603	○	45.903	○
45.206	○	1.20	6.0	45.606	○	45.906	○
45.205	○	1.20	7.5	45.605	○	45.905	○
45.204	○	1.20	8.5	45.604	○	45.904	○
45.207	○	1.30	8.5	45.607	○	45.907	○
45.208	○	1.50	8.5	45.608	○	45.908	○

Kg 0.004

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Minutes - Minutes - Minuten - Minutos - Minuti - Minutos :



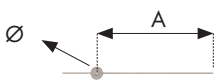
10 pcs

MSA	Nickel/ Nickel	Ø mm	A mm	MSA	Jaune/ Yellow	MSA	Noir/ Black
45.300	○	0.40	12.5	45.700	○	45.500	○
45.301	○	0.50	12.5	45.701	○	45.501	○
45.302	○	0.55	12.5	45.702	○	45.502	○
45.303	○	0.60	12.5	45.703	○	45.503	○
45.309	○	0.65	12.5	45.709	○	45.509	○
45.306	○	0.70	8.5	45.706	○	45.506	○
45.305	○	0.70	10.5	45.705	○	45.505	○
45.304	○	0.70	12.5	45.704	○	45.504	○
45.307	○	0.80	12.5	45.707	○	45.507	○
45.308	○	0.90	12.5	45.708	○	45.508	○

Kg 0.004

1/1

**Seconde au centre - Centre second - Zentrumsekunden - Segundero central -
 Secondi al centro - Segundo ao centro :**

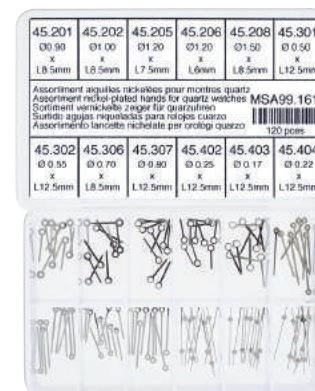


10 pcs

MSA	Nickel/ Nickel	Ø mm	A mm	MSA	Jaune/ Yellow	MSA	Noir/ Black
45.403	●	0.17	12.5	45.803	●	45.853	●
45.400	●	0.18	12.5	45.800	●	45.850	●
45.401	●	0.20	12.5	45.801	●	45.851	●
45.404	●	0.22	12.5	45.804	●	45.854	●
45.402	●	0.25	12.5	45.802	●	45.852	●

Kg 0.004

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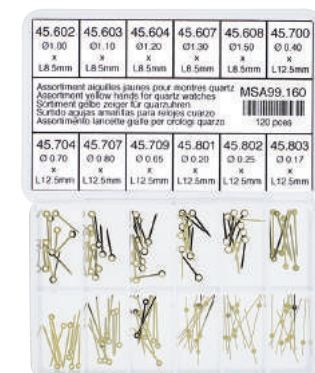
MSA	Qt.	Kg
99.161	120x	0.026



Assortiment d'aiguilles couleur nickel pour montres ; heures, minutes et secondes au centre.

Assortment of nickel colour hands for watches ; hours, minutes and centre seconds.
 Sortiment von Nickel-Farbe Zeiger für Uhren ; Stunden, Minuten und Zentrumsekunden.
 Surtido de agujas color níquel para relojes ; horas, minutos y segunderos centrales.
 Assortimento di lancette colore níquel per orologi ; ore, minuti e secondi al centro.
 Sortido de ponteiros cor níquel para relógios ; horas, minutos e segundos ao centro.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA45.201 (Ø 0.90 mm) /.202 (1.00) /.205 (1.20) /.206 (1.20) /.208 (1.50) /.301 (0.50) /.302 (0.55) /.306 (0.70) /.307 (0.80) /.402 (0.25) /.403 (0.17) /.404 (0.22)



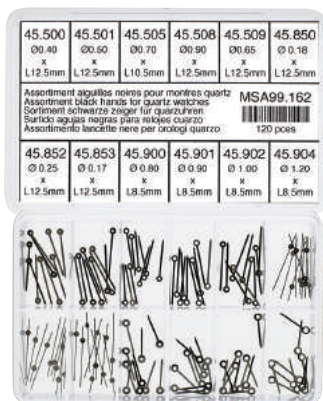
MSA	Qt.	Kg
99.160	120x	0.026



Assortiment d'aiguilles jaunes pour montres ; heures, minutes et secondes au centre.

Assortment of yellow hands for watches ; hours, minutes and centre seconds.
 Sortiment von gelbe Zeiger für Uhren ; Stunden, Minuten und Zentrumsekunden.
 Surtido de agujas amarillas para relojes ; horas, minutos y segunderos centrales.
 Assortimento di lancette gialle per orologi ; ore, minuti e secondi al centro.
 Sortido de ponteiros amarelos para relógios ; horas, minutos e segundos ao centro.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA45.602 (Ø 1.00 mm) /.603 (1.10) /.604 (1.20) /.607 (1.30) /.608 (1.50) /.700 (0.40) /.704 (0.70) /.707 (0.80) /.709 (0.65) /.801 (0.20) /.802 (0.25) /.803 (0.17)

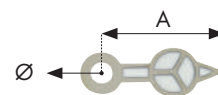


MSA	Qt.	Kg
99.162	120x	0.026



Assortiment d'aiguilles noires pour montres ; heures, minutes et secondes au centre.
 Assortiment of black hands for watches ; hours, minutes and centre seconds.
 Sortiment von schwarze Zeiger für Uhren ; Stunden, Minuten und Zentrumsekunden.
 Surtido de agujas negras para relojes ; horas, minutos y segundos centrales.
 Assortimento di lancette nere per orologi ; ore, minuti e secondi al centro.
 Sortido de ponteiros pretos para relógios ; horas, minutos e segundos ao centro.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA45.500 (Ø 0.40 mm) /.501 (0.50) /.505 (0.70) /.508 (0.90) /.509 (0.65) /.850 (0.18) /.852 (0.25) /.853 (0.17) /.900 (0.80) /.901 (0.90) /.902 (1.00) /.904 (1.20)



10 pcs

Aiguilles lumineuses pour montres emballées sur carte ; couleur nickel et jaunes.
 Luminous hands for watches packed on card ; nickel colour and yellow.
 Leuchtzeiger für Uhren auf Karte verpackt ; Nickel-Farbe und gelbe.
 Agujas luminosas para relojes embaladas en tarjeta ; color níquel y amarillas.
 Lancette luminosa per orologi imballate su carta ; colore nichel e gialle.
 Ponteiros luminosos para relógios embalados num cartão ; cor níquel e amarelos.

Heures - Hours - Stunden - Horas - Ore - Horas:

MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.223		1.00	6	45.623	
45.224		1.00	8	45.624	
45.225		1.10	6	45.625	
45.226		1.10	8	45.626	
45.227		1.20	6	45.627	
45.228		1.20	8	45.628	
45.229		1.20	10	45.629	
45.230		1.50	8	45.630	
45.231		1.50	10	45.631	
45.232		2.00	8	45.632	
45.233		2.00	10	45.633	

Kg 0.004

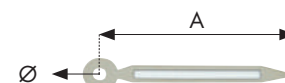
1/1

Minutes - Minutes - Minuten - Minutos - Minuti - Minutos:

MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.323		0.55	9	45.723	
45.324		0.55	12	45.724	
45.325		0.60	9	45.725	
45.326		0.60	12	45.726	
45.334		0.65	12	45.734	
45.327		0.70	9	45.727	
45.328		0.70	12.5	45.728	
45.329		0.70	15	45.729	
45.330		0.90	12.5	45.730	
45.331		0.90	15	45.731	
45.332		1.20	12.5	45.732	
45.333		1.20	15	45.733	

Kg 0.004

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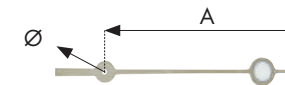
10 pcs

Secondes - Seconds - Sekunden - Segunderos - Secondi - Segundos:

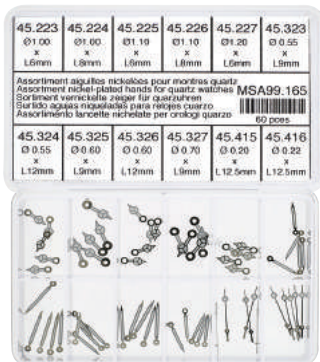
MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.414		0.18	12.5	45.814	
45.415		0.20	12.5	45.815	
45.416		0.22	12.5	45.816	
45.417		0.22	15	45.817	
45.418		0.23	12.5	45.818	
45.419		0.23	15	45.819	
45.420		0.25	12.5	45.820	
45.421		0.25	15	45.821	

Kg 0.004

1/1



10 pcs



Assortiment d'aiguilles lumineuses couleur nickel pour montres ; heures, minutes et secondes.
 Assortment of nickel colour luminous hands for watches ; hours, minutes and seconds.
 Sortiment von Nickel-Farbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas color níquel para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose colore nichel per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos cor níquel para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.223 (Ø 1.00 mm) /.224 (1.00) /.225 (1.10) /.226
(1.10) /.227 (1.20) /.323 (0.55) /.324 (0.55) /.325 (0.60) /.326
(0.60) /.327 (0.70) /.415 (0.20) /.416 (0.22)

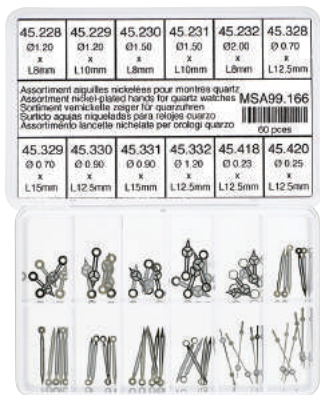
MSA	Qt.	Kg
99.165	60x	0.026



Assortiment d'aiguilles lumineuses jaunes pour montres ; heures, minutes et secondes.
 Assortment of yellow luminous hands for watches ; hours, minutes and seconds.
 Sortiment von gelbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas amarillas para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose gialle per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos amarelos para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.623 (Ø 1.00 mm) /.624 (1.00) /.625 (1.10) /.626
(1.10) /.627 (1.20) /.723 (0.55) /.724 (0.55) /.725 (0.60) /.726
(0.60) /.727 (0.70) /.815 (0.20) /.816 (0.22)

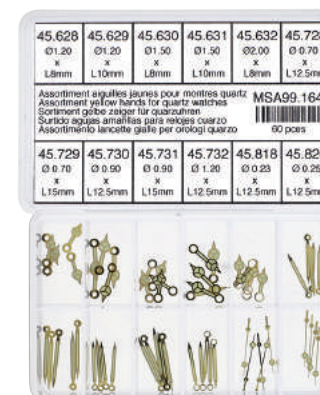
MSA	Qt.	Kg
99.163	60x	0.026



Assortiment d'aiguilles lumineuses couleur nickel pour montres ; heures, minutes et secondes.
 Assortment of nickel colour luminous hands for watches ; hours, minutes and seconds.
 Sortiment von Nickel-Farbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas color níquel para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose colore nichel per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos cor níquel para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.228 (Ø 1.20 mm) /.229 (1.20) /.230 (1.50) /.231
(1.50) /.232 (2.00) /.328 (0.70) /.329 (0.70) /.330 (0.90) /.331
(0.90) /.332 (1.20) /.418 (0.23) /.420 (0.25)

MSA	Qt.	Kg
99.166	60x	0.026



Assortiment d'aiguilles lumineuses jaunes pour montres ; heures, minutes et secondes.
 Assortment of yellow luminous hands for watches ; hours, minutes and seconds.
 Sortiment von gelbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas amarillas para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose gialle per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos amarelos para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.628 (Ø 1.20 mm) /.629 (1.20) /.630 (1.50) /.631
(1.50) /.632 (2.00) /.728 (0.70) /.729 (0.70) /.730 (0.90) /.731
(0.90) /.732 (1.20) /.818 (0.23) /.820 (0.25)

MSA	Qt.	Kg
99.164	60x	0.026

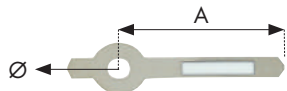


Aiguilles lumineuses pour montres emballées sur carte ; couleur nickel et jaunes.
 Luminous hands for watches packed on card ; nickel colour and yellow.
 Leuchtzeiger für Uhren auf Karte verpackt ; Nickel-Farbe und gelbe.
 Agujas luminosas para relojes embaladas en tarjeta ; color níquel y amarillas.
 Lancette luminose per orologi imballate su carta ; colore nichel e gialle.
 Ponteiros luminosos para relógios embalados num cartão ; cor níquel e amarelos.

Heures - Hours - Stunden - Horas - Ore - Horas :

MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.210		1.00	6	45.610	
45.211		1.00	8	45.611	
45.212		1.10	6	45.612	
45.213		1.10	8	45.613	
45.214		1.20	6	45.614	
45.215		1.20	8	45.615	
45.216		1.20	10	45.616	
45.217		1.50	8	45.617	
45.218		1.50	10	45.618	
45.221		2.00	8	45.621	
45.219		2.00	8.5	45.619	
45.220		2.00	10	45.620	

Kg 0.004 1/1

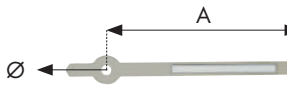


10 pcs

Minutes - Minutes - Minuten - Minutos - Minuti - Minutos :

MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.310		0.55	9	45.710	
45.311		0.55	12	45.711	
45.312		0.60	9	45.712	
45.313		0.60	12	45.713	
45.335		0.65	12	45.735	
45.314		0.70	9	45.714	
45.315		0.70	12.5	45.715	
45.316		0.70	15	45.716	
45.317		0.90	12.5	45.717	
45.318		0.90	15	45.718	
45.319		1.20	12.5	45.719	
45.320		1.20	15	45.720	
45.321		1.50	12.5	45.721	
45.322		1.50	15	45.722	

Kg 0.004 1/1

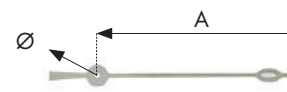


10 pcs

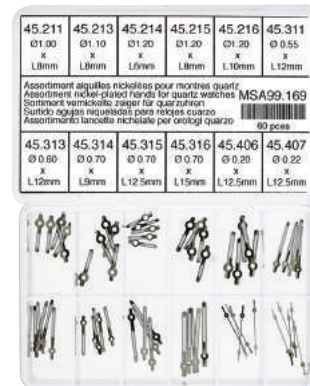
Seconds - Seconds - Sekunden - Segunderos - Secondi - Segundos :

MSA	Nickel/Nickel	Ø mm	A mm	MSA	Jaune/Yellow
45.405		0.18	12.5	45.805	
45.406		0.20	12.5	45.806	
45.407		0.22	12.5	45.807	
45.408		0.22	15	45.808	
45.409		0.23	12.5	45.809	
45.410		0.23	15	45.810	
45.411		0.25	12.5	45.811	
45.412		0.25	15	45.812	
45.413		0.27	12.5	45.813	

Kg 0.004 1/1



10 pcs



Assortiment d'aiguilles lumineuses couleur nickel pour montres ; heures, minutes et secondes.

Assortiment of nickel colour luminous hands for watches ; hours, minutes and seconds.

Sortiment von Nickel-Farbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.

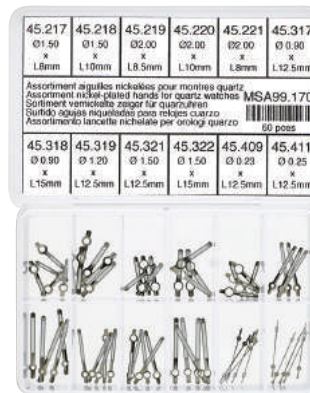
Surtido de agujas luminosas color níquel para relojes ; horas, minutos y segundos.

Assortimento di lancette luminose colore nichel per orologi ; ore, minuti e secondi.

Sortido de ponteiros luminosos cor níquel para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.211 (Ø 1.00 mm) /.213 (1.10) /.214 (1.20) /.215 (1.20) /.216 (1.20) /.311 (0.55) /.313 (0.60) /.314 (0.70) /.315 (0.70) /.316 (0.70) /.406 (0.20) /.407 (0.22)

MSA	Qt.	Kg
99.169	60x	0.026



Assortiment d'aiguilles lumineuses couleur nickel pour montres ; heures, minutes et secondes.

Assortiment of nickel colour luminous hands for watches ; hours, minutes and seconds.

Sortiment von Nickel-Farbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.

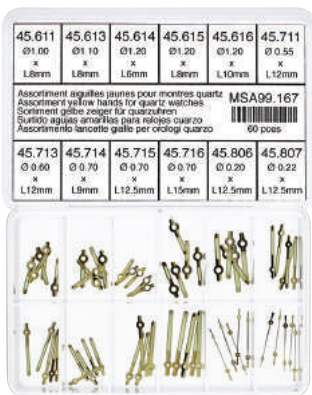
Surtido de agujas luminosas color níquel para relojes ; horas, minutos y segundos.

Assortimento di lancette luminose colore nichel per orologi ; ore, minuti e secondi.

Sortido de ponteiros luminosos cor níquel para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.217 (Ø 1.50 mm) /.218 (1.50) /.219 (2.00) /.220 (2.00) /.221 (2.00) /.317 (0.90) /.318 (0.90) /.319 (1.20) /.321 (1.50) /.322 (1.50) /.409 (0.23) /.411 (0.25)

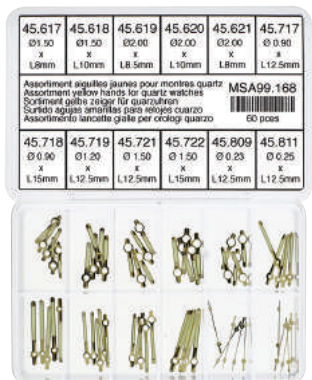
MSA	Qt.	Kg
99.170	60x	0.026



Assortiment d'aiguilles lumineuses jaunes pour montres ; heures, minutes et secondes.
 Assortment of yellow luminous hands for watches ; hours, minutes and seconds.
 Sortiment von gelbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas amarillas para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose gialle per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos amarelos para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.611 (Ø 1.50 mm) /.613 (1.10) /.614 (1.20) /.615 (1.20) /.616 (1.20) /.711 (0.55) /.713 (0.60) /.714 (0.70) /.715 (0.70) /.716 (0.70) /.806 (0.20) /.807 (0.22)

MSA	Qt.	Kg
99.167	60x	0.026



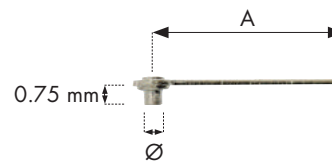
Assortiment d'aiguilles lumineuses jaunes pour montres ; heures, minutes et secondes.
 Assortment of yellow luminous hands for watches ; hours, minutes and seconds.
 Sortiment von gelbe Leuchtzeiger für Uhren ; Stunden, Minuten und Sekunden.
 Surtido de agujas luminosas amarillas para relojes ; horas, minutos y segundos.
 Assortimento di lancette luminose gialle per orologi ; ore, minuti e secondi.
 Sortido de ponteiros luminosos amarelos para relógios ; horas, minutos e segundos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.617 (Ø 1.50 mm) /.618 (1.50) /.619 (2.00) /.620 (2.00) /.621 (2.00) /.717 (0.90) /.718 (0.90) /.719 (1.20) /.721 (1.50) /.722 (1.50) /.809 (0.23) /.811 (0.25)

MSA	Qt.	Kg
99.168	60x	0.026



10 pcs



Aiguilles de compteur pour montres emballées sur carte ; couleur nickel, jaunes et noires.

Counter hands for watches packed on card ; nickel colour, yellow and black.

Zählzeiger für Uhren auf Karte verpackt ; Nickel-Farbe, gelbe und schwarze.

Agujas de contador para relojes embaladas en tarjeta ; color níquel, amarillas y negras.

Lancette del contatore per orologi imballate su carta ; colore nichel, gialle e nere.

Ponteiros de contador para relógios embalados num cartão ; cor níquel, amarelos e pretos.

Compteur - Counter - Zähler - Contador - Contatore - Contador :

MSA	Nickel/ Nickel	Ø mm	A mm	MSA	Jaune/ Yellow	MSA	Noir/ Black
45.040	●	0.17	6	45.150	●	45.170	●
45.041	●	0.18	6	45.151	●	45.171	●
45.042	●	0.20	6	45.152	●	45.172	●
45.043	●	0.21	6	45.153	●	45.173	●
45.044	●	0.22	6	45.154	●	45.174	●
45.045	●	0.23	6	45.155	●	45.175	●
45.046	●	0.25	6	45.156	●	45.176	●
45.047	●	0.28	6	45.157	●	45.177	●
45.048	●	0.30	6	45.158	●	45.178	●

Kg 0.004

1/1

Compteur - Counter - Zähler - Contador - Contatore - Contador :

MSA	Nickel/ Nickel	Ø mm	A mm	MSA	Jaune/ Yellow	MSA	Noir/ Black
45.240	●	0.17	6	45.180	●	45.250	●
45.241	●	0.18	6	45.181	●	45.251	●
45.242	●	0.20	6	45.182	●	45.252	●
45.243	●	0.21	6	45.183	●	45.253	●
45.244	●	0.22	6	45.184	●	45.254	●
45.245	●	0.23	6	45.185	●	45.255	●
45.246	●	0.25	6	45.186	●	45.256	●
45.247	●	0.28	6	45.187	●	45.257	●
45.248	●	0.30	6	45.188	●	45.258	●

Kg 0.004

1/1



MSA	Qt.	Kg
99.173	90x	0.035



Canon - Pipe - Rohr - Cañón - Cannotto - Canhão : 0.75 mm

Assortiment d'aiguilles de compteur pour montres ; couleur nickel et jaunes.
 Assortiment of counter hands for watches ; nickel colour and yellow.
 Sortiment von Zählzeiger für Uhren ; Nickel-Farbe und gelbe.
 Surtido de agujas de contador para relojes ; color níquel y amarillas.
 Assortimento di lancette del contatore per orologi ; colore nichel e gialle.
 Sortido de ponteiros de contador para relógios ; cor níquel e amarelos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.040 (Ø 0.17 mm) /.041 (0.18) /.042 (0.20) /.043 (0.21) /.044 (0.22) /.045 (0.23) /.046 (0.25) /.047 (0.28) /.048 (0.30) /.150 (Ø 0.17 mm) /.151 (0.18) /.152 (0.20) /.153 (0.21) /.154 (0.22) /.155 (0.23) /.156 (0.25) /.157 (0.28) /.158 (0.30)



MSA	Qt.	Kg
99.174	90x	0.035



Canon - Pipe - Rohr - Cañón - Cannotto - Canhão : 1.40 mm

Assortiment d'aiguilles de compteur pour montres ; couleur nickel et jaunes.
 Assortiment of counter hands for watches ; nickel colour and yellow.
 Sortiment von Zählzeiger für Uhren ; Nickel-Farbe und gelbe.
 Surtido de agujas de contador para relojes ; color níquel y amarillas.
 Assortimento di lancette del contatore per orologi ; colore nichel e gialle.
 Sortido de ponteiros de contador para relógios ; cor níquel e amarelos.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.240 (Ø 0.17 mm) /.241 (0.18) /.242 (0.20) /.243 (0.21) /.244 (0.22) /.245 (0.23) /.246 (0.25) /.247 (0.28) /.248 (0.30) /.180 (Ø 0.17 mm) /.181 (0.18) /.182 (0.20) /.183 (0.21) /.184 (0.22) /.185 (0.23) /.186 (0.25) /.187 (0.28) /.188 (0.30)



MSA	Qt.	Kg
99.175	90x	0.035



Canon - Pipe - Rohr - Cañón - Cannotto - Canhão : 0.75 mm

Canon - Pipe - Rohr - Cañón - Cannotto - Canhão : 1.40 mm

Assortiment d'aiguilles de compteur noires pour montres.
 Assortiment of black counter hands for watches.
 Sortiment von schwarze Zählzeiger für Uhren.
 Surtido de agujas de contador negras para relojes.
 Assortimento di lancette del contatore nere per orologi.
 Sortido de ponteiros de contador pretos para relógios.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
0.75 mm : 5x MSA45.170 (Ø 0.17 mm) /.171 (0.18) /.172 (0.20) /.173 (0.21) /.174 (0.22) /.175 (0.23) /.176 (0.25) /.177 (0.28) /.178 (0.30)
1.40 mm : 5x MSA45.250 (Ø 0.17 mm) /.251 (0.18) /.252 (0.20) /.253 (0.21) /.254 (0.22) /.255 (0.23) /.256 (0.25) /.257 (0.28) /.258 (0.30)



Aiguilles bleues pour montres de poche anciennes emballées sur carte ; heures, minutes et petites secondes.

Blue hands for old pocket watches packed on card ; hours, minutes and small seconds.

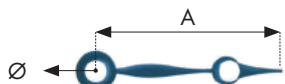
Blaue Zeiger für alte Taschenuhren auf Karte verpackt ; Stunden, Minuten und kleine Sekunden.

Agujas azules para relojes de bolsillo antiguos embaladas en tarjeta ; horas, minutos y pequeños segundos.

Lancette azzurre per orologi da tasca antichi imballate su carta ; ore, minuti e piccoli secondi.

Ponteiros azuis para relógios de bolso antigos embalados num cartão ; horas, minutos e pequenos segundos.

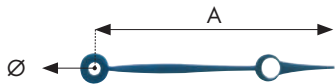
10 pcs



Heures - Hours - Stunden - Horas - Ore - Horas:

MSA	1/1	Ø mm	A mm
45.105		1.60	15
45.106		1.75	15
45.107		1.90	15
45.108		2.00	15

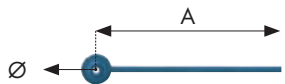
Kg 0.004



Minutes - Minutes - Minuten - Minutos - Minuti - Minutos:

MSA	1/1	Ø mm	A mm
45.101		0.90	19.5
45.102		1.00	19.5
45.103		1.15	19.5
45.104		1.25	19.5

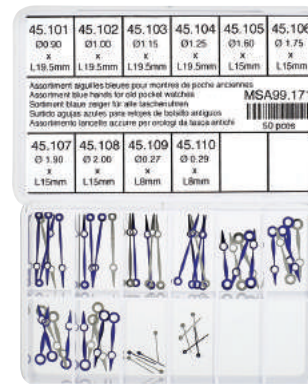
Kg 0.004



Petites secondes - Small seconds - Kleine Sekunden - Pequeños segundos - Piccoli secondi - Pequenos segundos:

MSA	1/1	Ø mm	A mm
45.109		0.27	8.0
45.110		0.29	8.0

Kg 0.004



Assortiment d'aiguilles bleues pour montres de poche anciennes; heures, minutes et petites secondes.

Assortiment of blue hands for old pocket watches ; hours, minutes and small seconds.

Sortiment von blaue Zeiger für alte Taschenuhren ; Stunden, Minuten und kleine Sekunden.

Surtido de agujas azules para relojes de bolsillo antiguos ; horas, minutos y pequeños segundos.

Assortimento di lancette azzurre per orologi da tasca antichi ; ore, minuti e piccoli secondi.

Sortido de ponteiros azuis para relógios de bolso antigos ; horas, minutos e pequenos segundos.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 10 modèles - models - Modelle - modelos - modelli - modelos
 5x MSA45.101 (Ø 0.90 mm) /.102 (1.00) /.103 (1.15) /.104
 (1.25) /.105 (1.60) /.106 (1.75) /.107 (1.90) /.108 (2.00) /.109
 (0.27) /.110 (0.29)**

MSA	Qt.	Kg
99.171	50x	0.026



Aiguilles roses de forme Dague pour montres anciennes emballées sur carte ; heures, minutes et secondes au centre.

Dagger-shaped pink hands for old watches packed on card ; hours, minutes and centre seconds.

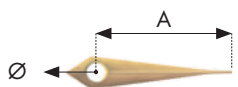
Rose Zeiger in Dolch-Form für alte Uhren auf Karte verpackt ; Stunden, Minuten und Zentrumsekunden.

Agujas rosadas de forma Daga para relojes antiguos embaladas en tarjeta ; horas, minutos y segundos centrales.

Lancette rosa di forma Daga per orologi antichi imballate su carta ; ore, minuti e secondi al centro.

Ponteiros cor-de-rosa de forma Adaga para relógios antigos embalados num cartão ; horas, minutos e segundos ao centro.

10 pcs

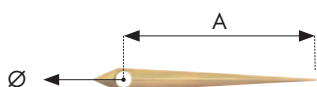


Heures - Hours - Stunden - Horas - Ore - Horas:

MSA	1/1	Ø mm	A mm
45.126		1.20	9
45.127		1.30	9
45.128		1.35	9
45.129		1.40	9
45.130		1.50	9

Kg 0.004

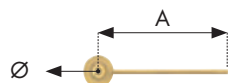
Minutes - Minutes - Minuten - Minutos - Minuti - Minutos:



MSA	1/1	Ø mm	A mm
45.121		0.70	13.5
45.122		0.75	13.5
45.123		0.80	13.5
45.124		0.85	13.5
45.125		0.90	13.5

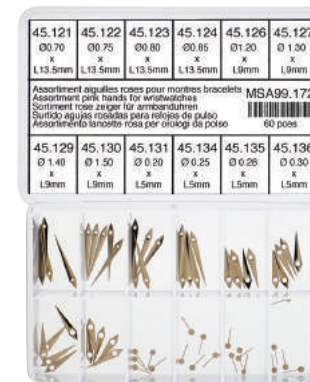
Kg 0.004

Seconde au centre - Centre second - Zentrumsekunden - Segundero central - Secondi al centro - Segundo ao centro:



MSA	1/1	Ø mm	A mm
45.131		0.20	5
45.132		0.22	5
45.133		0.23	5
45.134		0.25	5
45.135		0.28	5
45.136		0.30	5

Kg 0.004



Assortiment d'aiguilles roses de forme Dague pour montres anciennes ; heures, minutes et secondes au centre.

Assortiment of Dagger-shaped pink hands for old watches ; hours, minutes and centre seconds.

Sortiment von Rose Zeiger in Dolch-Form für alte Uhren ; Stunden, Minuten und Zentrumsekunden.

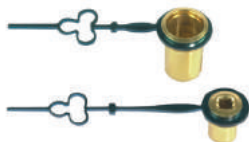
Surtido de agujas rosadas de forma Daga para relojes antiguos ; horas, minutos y segundos centrales.

Assortimento di lancette rosa di forma Daga per orologi antichi ; ore, minuti e secondi al centro.

Sortido de ponteiros cor-de-rosa de forma Adaga para relógios antigos ; horas, minutos e segundos ao centro.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
5x MSA45.121 (Ø 0.70 mm) /.122 (0.75) /.123 (0.80) /.124 (0.85) /.126 (1.20) /.127 (1.30) /.129 (1.40) /.130 (1.50) /.131 (0.20) /.134 (0.25) /.135 (0.28) /.136 (0.30)

MSA	Qt.	Kg
99.172	60x	0.026



Paire d'aiguilles Trèfle (heures/minutes) en acier bleu pour pendules de Paris ; tube aiguille heure ø 4.50 mm.

Pair of Clover hands (hours/minutes) in blue steel for Paris clocks ; hour hand tube ø 4.50 mm.

Paar von Klee-Zeiger (Stunden/Minuten) in blauem Stahl für Paris Pendeluhren ; Stundenzeiger-Rohr ø 4.50 mm.

Par de agujas Trébol (horas/minutos) en acero azul para péndulos de Paris ; tubo aguja hora ø 4.50 mm.

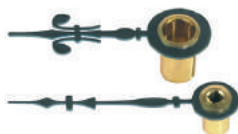
Paio di lancette Trifoglio (ore/minuti) in acciaio blu per pendoli di Parigi ; tubo lancetta ora ø 4.50 mm.

Par de ponteiros Trevo (horas/minutos) em aço azul para pêndulos de Paris ; tubo ponteiro hora ø 4.50 mm.

MSA	L** mm	Kg
45.014*	50	0.003
45.015*	55	0.003

**Longueur minutes - Minutes length - Minuten Länge
 Longitud minutos - Lunghezza minuti - Comprimento minutos

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



Paire d'aiguilles Fleur de Lys (heures/minutes) en acier bleu pour pendules de Paris ; tube aiguille heure ø 4.50 mm.

Pair of Fleur-de-Lys hands (hours/minutes) in blue steel for Paris clocks ; hour hand tube ø 4.50 mm.

Paar von Lilieblume-Zeiger (Stunden/Minuten) in blauem Stahl für Paris Pendeluhren ; Stundenzeiger-Rohr ø 4.50 mm.

Par de agujas Flor de Lis (horas/minutos) en acero azul para péndulos de Paris ; tubo aguja hora ø 4.50 mm.

Paio di lancette Fiordaliso (ore/minuti) in acciaio blu per pendoli di Parigi ; tubo lancetta ora ø 4.50 mm.

Par de ponteiros Flor de Lis (horas/minutos) em aço azul para pêndulos de Paris ; tubo ponteiro hora ø 4.50 mm.

MSA	L** mm	Kg
45.023*	45	0.003
45.024*	50	0.003

**Longueur minutes - Minutes length - Minuten Länge
 Longitud minutos - Lunghezza minuti - Comprimento minutos

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



Paire d'aiguilles Poire (heures/minutes) en acier bleu pour pendules de Paris ; tube aiguille heure ø 4.50 mm.

Pair of Spade hands (hours/minutes) in blue steel for Paris clocks ; hour hand tube ø 4.50 mm.

Paar von Birne-Zeiger (Stunden/Minuten) in blauem Stahl für Paris Pendeluhren ; Stundenzeiger-Rohr ø 4.50 mm.

Par de agujas Pera (horas/minutos) en acero azul para péndulos de Paris ; tubo aguja hora ø 4.50 mm.

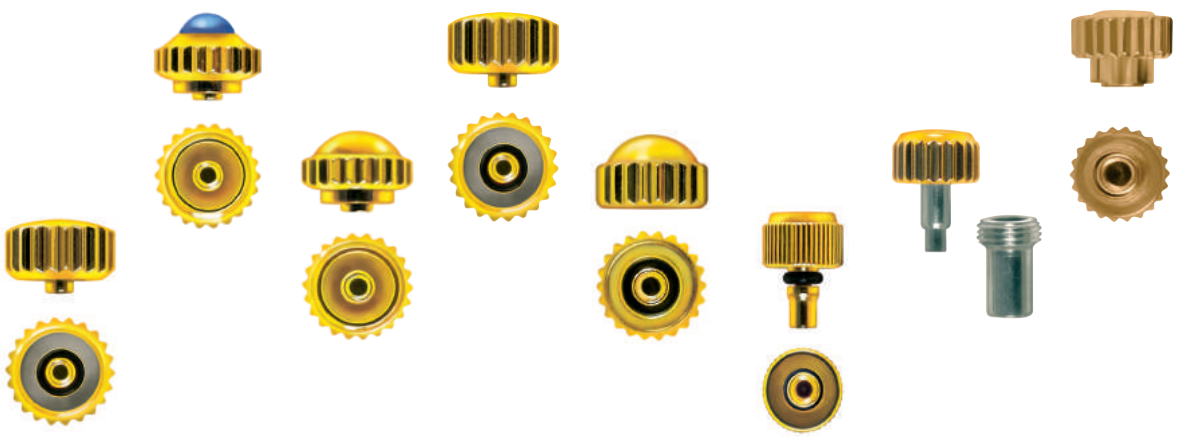
Paio di lancette Pera (ore/minuti) in acciaio blu per pendoli di Parigi ; tubo lancetta ora ø 4.50 mm.

Par de ponteiros Pêra (horas/minutos) em aço azul para pêndulos de Paris ; tubo ponteiro hora ø 4.50 mm.

MSA	L** mm	Kg
45.035*	55	0.003

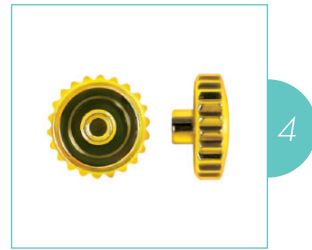
**Longueur minutes - Minutes length - Minuten Länge
 Longitud minutos - Lunghezza minuti - Comprimento minutos

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



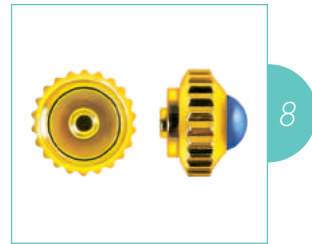
COURONNES CROWNS KRONEN CORONAS CORONE COROAS

Couronnes simples
Regular crowns
 Einfache Kronen
Coronas sencillas
 Corone semplici
Coroas simples



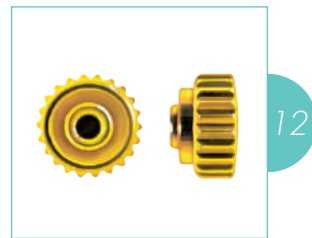
4

Couronnes antipoussière avec pierre
Dustproof crowns with stone
 Staubgeschützte Kronen mit Stein
Coronas antipolvo con piedra
 Corone antipolvere con pietra
Coroas anti-poeira com pedra



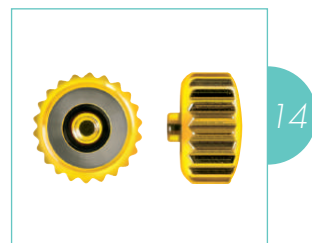
8

Couronnes antipoussière
Dustproof crowns
 Staubgeschützte Kronen
Coronas antipolvo
 Corone antipolvere
Coroas anti-poeira

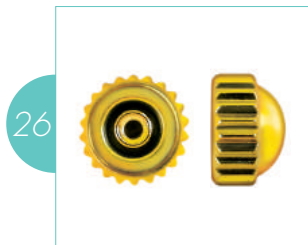


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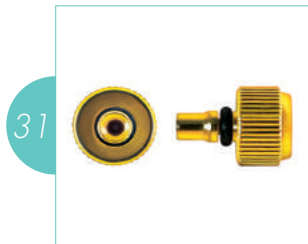
Couronnes étanches
Waterproof crowns
 Wasserdichte Kronen
Coronas herméticas
 Corone impermeabili
Coroas estanques



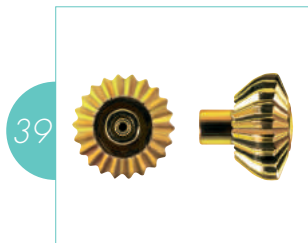
14



Couronnes étanches demi-boule
Waterproof domed crowns
Wasserdichte Halbkugel Kronen
Coronas herméticas media bola
Corone impermeabili demiboule
Coroas estanques meia bola



Couronnes japonaises
Japanese crowns
Japanische Kronen
Coronas japonesas
Corone giapponesi
Coroas japonesas



Couronnes pour montres de poche
Pocket watches crowns
Kronen für Taschenuhren
Coronas para relojes de bolsillo
Corone per orologi da tasca
Coroas para relógios de bolso

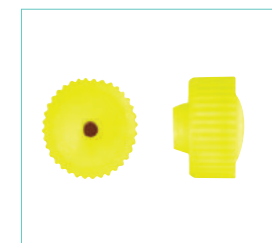
Couronnes à vis
Screw-on crowns
Schraubkronen
Coronas de rosca
Corone a vite
Coroas à aparafusar



Couronnes de marque
Brand crowns
Markenkronen
Coronas de marca
Corone di marca
Coroas de marca



Couronnes de travail
Working crowns
Arbeitskronen
Coronas de trabajo
Corone di lavoro
Coroas de trabalho





Couronnes simples couleur acier et jaunes, **canon court** ; acier inoxydable.
Steel colour and yellow regular crowns, **short pipe** ; stainless steel.
Stahlfarbe und gelbe einfache Kronen, **kurzes Rohr** ; Edelstahl.
Coronas sencillas color acero y amarillas, **cañón corto** ; acero inoxidable.
Corone semplici colore acciaio e gialle, **cannotto corto** ; acciaio inossidabile.
Coroas simples cor aço e amarelas, **canhão curto** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
82.001-070*		2.50	0.70	82.201-070*	
82.001-080*		2.50	0.80	82.201-080*	
82.001-090*		2.50	0.90	82.201-090	
82.002-070		3.00	0.70	82.202-070*	
82.002-080		3.00	0.80	82.202-080	
82.002-090		3.00	0.90	82.202-090	
82.003-070		3.50	0.70	82.203-070*	
82.003-080		3.50	0.80	82.203-080*	
82.003-090		3.50	0.90	82.203-090	
82.004-090		3.80	0.90	82.204-090	
82.005-090		4.00	0.90	82.205-090	
82.006-090		4.50	0.90	82.206-090	
82.007-090		5.00	0.90	82.207-090	
-		5.50	0.70	82.208-070*	
82.008-090		5.50	0.90	82.208-090	

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Couronne simple, **canon court** ; laiton nickelé.
Regular crown, **short pipe** ; nickel-plated brass.
Einfache Krone, **kurzes Rohr** ; vernickeltem Messing.
Corona sencilla, **cañón corto** ; latón niquelado.
Corona semplice, **cannotto corto** ; ottone nichelato.
Coroa simples, **canhão curto** ; latão niquelado.

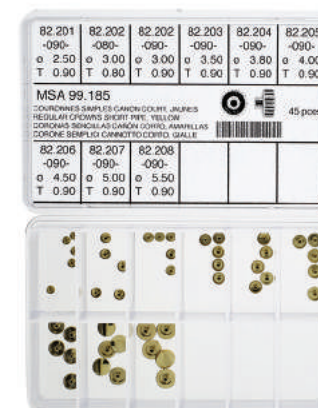
MSA	1/1	Ø mm	Ø T mm
82.009-120		5.00	1.20
Kg 0.001			1/1



MSA	Qt.	Kg
99.184	50x	0.028

Assortiment de couronnes simples couleur acier, **canon court** ; acier inoxydable.
Assortment of steel colour regular crowns, **short pipe** ; stainless steel.
Sortiment von Stahlfarbe einfache Kronen, **kurzes Rohr** ; Edelstahl.
Surtido de coronas sencillas color acero, **cañón corto** ; acero inoxidable.
Assortimento di corone semplici colore acciaio, **cannotto corto** ; acciaio inossidabile.
Sortido de coroas simples cor aço, **canhão curto** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
5x MSA82.002-070 /.002-080 /.002-090 /.003-080 /.003-090
/.004-090 /.005-090 /.006-090 /.007-090 /.008-090



MSA	Qt.	Kg
99.185	45x	0.028

Assortiment de couronnes simples jaunes, **canon court** ; acier inoxydable.
Assortment of yellow regular crowns, **short pipe** ; stainless steel.
Sortiment von gelbe einfache Kronen, **kurzes Rohr** ; Edelstahl.
Surtido de coronas sencillas amarillas, **cañón corto** ; acero inoxidable.
Assortimento di corone semplici gialle, **cannotto corto** ; acciaio inossidabile.
Sortido de coroas simples amarelas, **canhão curto** ; aço inoxidável.

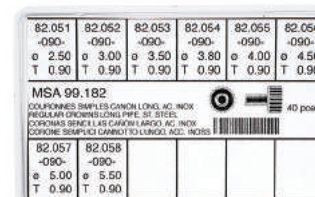
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
9 modèles - models - Modelle - modelos - modelli - modelos
5x MSA82.201-090 /.202-080 /.202-090 /.203-090 /.204-090
/.205-090 /.206-090 /.207-090 /.208-090



Couronnes simples couleur acier et jaunes, **canon long** ; acier inoxydable.
Steel colour and yellow regular crowns, **long pipe** ; stainless steel.
Stahlfarbe und gelbe einfache Kronen, **langes Rohr** ; Edelstahl.
Coronas sencillas color acero y amarillas, **cañón largo** ; acero inoxidable.
Corone semplici colore acciaio e gialle, **cannotto lungo** ; acciaio inossidabile.
Coroas simples cor aço e amarelas, **canhão longo** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
82.051-070*		2.50	0.70	82.251-070*	
82.051-080*		2.50	0.80	82.251-080*	
82.051-090		2.50	0.90	82.251-090	
82.052-070*		3.00	0.70	82.252-070*	
82.052-080*		3.00	0.80	82.252-080*	
82.052-090		3.00	0.90	82.252-090	
82.053-070*		3.50	0.70	82.253-070*	
82.053-080*		3.50	0.80	82.253-080*	
82.053-090		3.50	0.90	82.253-090	
82.054-090		3.80	0.90	82.254-090	
82.055-090		4.00	0.90	82.255-090	
82.056-090		4.50	0.90	82.256-090	
82.057-090		5.00	0.90	82.257-090	
82.058-090		5.50	0.90	82.258-090	

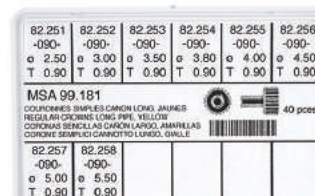
Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



MSA	Qt.	Kg
99.182	40x	0.028

Assortiment de couronnes simples couleur acier, **canon long** ; acier inoxydable.
Assortment of steel colour regular crowns, **long pipe** ; stainless steel.
Sortiment von Stahlfarbe einfache Kronen, **langes Rohr** ; Edelstahl.
Sortido de coronas sencillas en acero inoxidable, **cañón largo** ; color acero.
Assortimento di corone semplici in acciaio inossidabile, **cannotto lungo** ; colore acciaio.
Sortido de coroas simples em aço inoxidável, **canhão longo** ; cor aço.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
5x MSA82.051-090 /.052-090 /.053-090 /.054-090 /.055-090
/.056-090 /.057-090 /.058-090



MSA	Qt.	Kg
99.181	40x	0.028

Assortiment de couronnes simples jaunes, **canon long** ; acier inoxydable.
Assortment of yellow regular crowns, **long pipe** ; stainless steel.
Sortiment von gelbe einfache Kronen, **langes Rohr** ; Edelstahl.
Sortido de coronas sencillas amarillas, **cañón largo** ; acero inoxidable.
Assortimento di corone semplici gialle, **cannotto lungo** ; acciaio inossidabile.
Sortido de coroas simples amarelas, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
5x MSA82.251-090 /.252-090 /.253-090 /.254-090 /.255-090
/.256-090 /.257-090 /.258-090

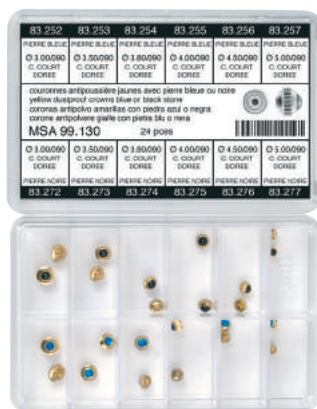


Couronnes antipoussière jaunes avec pierre bleue ou noire ; acier inoxydable.
 Yellow dustproof crowns with blue or black stone ; stainless steel.
 Gelbe staubgeschützte Kronen mit blauem oder schwarzem Stein ; Edelstahl.
 Coronas antipolvo amarillas con piedra azul o negra ; acero inoxidable.
 Corone antipolvere gialle con pietra blu o nera ; acciaio inossidabile.
 Coroas anti-poeira amarelas com pedra azul ou preta ; aço inoxidável.

MSA	Pierre bleue/Blue stone	Ø mm	Ø Tar./Tap. mm	MSA	Pierre noire/Black stone
83.252-090		3.00	0.90	83.272-090	
83.253-090		3.50	0.90	83.273-090	
83.254-090		3.80	0.90	83.274-090	
83.255-090		4.00	0.90	83.275-090	
83.256-090		4.50	0.90	83.276-090	
83.257-090		5.00	0.90	83.277-090	

Kg 0.001

1/1



Assortiment de couronnes antipoussière jaunes avec pierre bleue ou noire ; acier inoxydable.
 Assortment of yellow dustproof crowns with blue or black stone ; stainless steel.
 Sortiment von gelbe staubgeschützte Kronen mit blauem oder schwarzem Stein ; Edelstahl.
 Surtido de coronas antipolvo amarillas con piedra azul o negra ; acero inoxidable.
 Assortimento di corone antipolvere gialle con pietra blu o nera ; acciaio inossidabile.
 Sortido de coroas anti-poeira amarelas com pedra azul ou preta ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA83.252-090 /.253-090 /.254-090 /.255-090 /.256-090
/.257-090 /.272-090 /.273-090 /.274-090 /.275-090 /.276-090
/.277-090

MSA	Qt.	Kg
99.130	24x	0.025

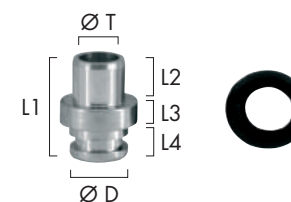


Couronnes antipoussière couleur acier et jaunes avec pierre bleue ou bleu foncé ; acier inoxydable.
 Steel colour and yellow dustproof crowns with blue or dark blue stone ; stainless steel.
 Stahlfarbe und gelbe staubgeschützte Kronen mit blauem oder dunkelblauem Stein ; Edelstahl.
 Coronas antipolvo color acero y amarillas con piedra azul o azul oscuro ; acero inoxidable.
 Corone antipolvere colore acciaio e gialle con pietra blu o blu scuro ; acciaio inossidabile.
 Coroas anti-poeira cor aço e amarelas com pedra azul ou azul escuro ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	Pierre/Stone	MSA	Jaune/Yellow
83.403		4.25	0.90	Bleu/Blue	-	-
83.401		4.35	0.90	Bleu foncé/Dark blue	83.451	
83.405		4.45	0.90	Bleu/Blue	83.453	
83.402		4.45	0.90	Bleu foncé/Dark blue	83.452	
83.404		4.75	0.90	Bleu/Blue	-	-

Kg 0.001

1/1



Tube spécial pour couronnes MSA83.401...83405 et MSA83.451...83453, avec joint MSA43.006 ; acier inoxydable.

Special tube for crowns MSA83.401...83405 and MSA83.451...83453, with gasket MSA43.006 ; stainless steel.

Spezieller Rohr für Kronen MSA83.401...83405 und MSA83.451...83453, mit Dichtung MSA43.006 ; Edelstahl.

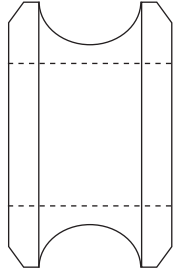
Tubo especial para coronas MSA83.401...83405 y MSA83.451...83453, con junta MSA43.006 ; acero inoxidable.

Tubo speciale per corone MSA83.401...83405 e MSA83.451...83453, con guarnizione MSA43.006 ; acciaio inossidabile.

Tubo especial para coroas MSA83.401...83405 e MSA83.451...83453, com junta MSA43.006 ; aço inoxidável.

MSA	1/1	Ø T mm	Ø D mm	L1 mm	L2 mm	L3 mm	L4 mm	Kg
47.101		1.20	1.20	3.50	1.50	0.80	1.20	0.001

10
pcs



Joint pour tube spécial MSA47.101 ; sachet de 10 pièces.
 Gasket for special tube MSA47.101 ; bag of 10 pieces.
 Dichtung für spezieller Rohr MSA47.101 ; Beutel von 10 Stück.
 Junta para tubo especial MSA47.101 ; bolsita de 10 piezas.
 Guarnizione per tubo speciale MSA47.101 ; bustina di 10 pezzi.
 Junta para tubo especial MSA47.101 ; saquinho de 10 peças.

MSA	1/1	Kg
43.006	○	0.001



83.401	83.402	83.403	83.404	83.405	83.451
Steel Ø4.35	Steel Ø4.45	Steel Ø4.25	Steel Ø4.75	Steel Ø4.45	Yellow Ø4.35
1X	1X	1X	1X	1X	1X

MSA 99.234 12 pieces



Assortiment de couronnes antipoussière couleur acier et jaunes avec pierre bleue ou bleu foncé, 2 tubes et 2 joints ; acier inoxydable.
 Assortment of steel colour and yellow dustproof crowns with blue or dark blue stone, 2 tubes and 2 gaskets ; stainless steel.
 Sortiment von Stahlfarbe und gelbe staubgeschützte Kronen mit blauem oder dunkelblauem Stein, 2 Röhre und 2 Dichtungen ; Edelstahl.
 Sortido de coronas antipolvo color acero y amarillas con piedra azul o azul oscuro, 2 tubos y 2 juntas ; acero inoxidable.
 Assortimento di corone antipolvere colore acciaio e gialle con pietra blu o blu scuro, 2 tubi e 2 guarnizioni ; acciaio inossidabile.
 Sortido de coroas anti-poeira cor aço e amarelas com pedra azul ou azul escuro, 2 tubos e 2 juntas ; aço inoxidável.

MSA	Qt.	Kg
99.234	8x	0.025

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
1xMSA83.401 /.402 /.403 /.404 /.405 /.451 /.452 /.453
2x MSA43.006 /47.101



Couronnes antipoussière couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow dustproof crowns ; stainless steel.
 Stahlfarbe und gelbe staubgeschützte Kronen ; Edelstahl.
 Coronas antipolvo color acero y amarillas ; acero inoxidable.
 Corone antipolvere colore acciaio e gialle ; acciaio inossidabile.
 Coroas anti-poeira cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
83.302-090		3.00	0.90	83.202-090	
83.303-090		3.50	0.90	83.203-090	
83.304-090		3.80	0.90	83.204-090	
83.305-090		4.00	0.90	83.205-090	
83.306-090		4.50	0.90	83.206-090	
83.307-090		5.00	0.90	83.207-090	

Kg 0.001

1/1

83.202	83.203	83.204	83.205	83.206	83.207
Ø 3.00090	Ø 3.50090	Ø 3.80090	Ø 4.00090	Ø 4.50090	Ø 5.00090
JAUNE	JAUNE	JAUNE	JAUNE	JAUNE	JAUNE

MSA 99.151 24 pieces



MSA	Qt.	Kg
99.151	24x	0.028

Assortiment de couronnes antipoussière couleur acier et jaunes ; acier inoxydable.
 Assortment of steel colour and yellow dustproof crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe staubgeschützte Kronen ; Edelstahl.
 Sortido de coronas antipolvo color acero y amarillas ; acero inoxidable.
 Assortimento di corone antipolvere colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas anti-poeira cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA83.202-090 /.203-090 /.204-090 /.205-090 /.206-090
/.207-090 /.302-090 /.303-090 /.304-090 /.305-090 /.306-090
/.307-090

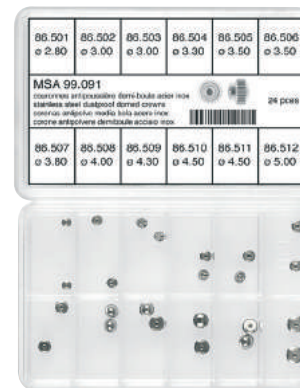


Couronnes antipoussière couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow dustproof crowns ; stainless steel.
 Stahlfarbe und gelbe staubgeschützte Kronen ; Edelstahl.
 Coronas antipolvo color acero y amarillas ; acero inoxidable.
 Corone antipolvere colore acciaio e gialle ; acciaio inossidabile.
 Coroas anti-poeira cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
86.501		2.80	0.90	86.001	
86.502		3.00 Bas/Low	0.90	86.002	
86.503		3.00 Haut/High	0.90	86.003	
86.504		3.30	0.90	86.004	
86.505		3.50 Bas/Low	0.90	86.005	
86.506		3.50 Haut/High	0.90	86.006	
86.507		3.80	0.90	86.007	
86.508		4.00	0.90	86.008	
86.509		4.30	0.90	86.009	
86.510		4.50 Bas/Low	0.90	86.010	
86.511		4.50 Haut/High	0.90	86.011	
86.512		5.00	0.90	86.012	

Kg 0.001

1/1



MSA	Qt.	Kg
99.091	24x	0.049

Assortiment de couronnes antipoussière couleur acier ; acier inoxydable.
 Assortment of steel colour dustproof crowns ; stainless steel.
 Sortiment von Stahlfarbe staubgeschützte Kronen ; Edelstahl.
 Surtido de coronas antipolvo color acero ; acero inoxidable.
 Assortimento di corone antipolvere colore acciaio ; acciaio inossidabile.
 Sortido de coroas anti-poeira cor aço ; aço inoxidável.

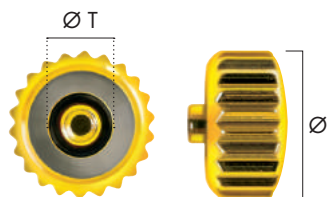
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12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA86.501 /.502 /.503 /.504 /.505 /.506 /.507 /.508 /.509
/.510 /.511 /.512



MSA	Qt.	Kg
99.090	24x	0.049

Assortiment de couronnes antipoussière jaunes ; acier inoxydable.
 Assortment of yellow dustproof crowns ; stainless steel.
 Sortiment von gelbe staubgeschützte Kronen ; Edelstahl.
 Surtido de coronas antipolvo amarillas ; acero inoxidable.
 Assortimento di corone antipolvere gialle ; acciaio inossidabile.
 Sortido de coroas anti-poeira amarelas ; aço inoxidável







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/.010 /.011 /.012



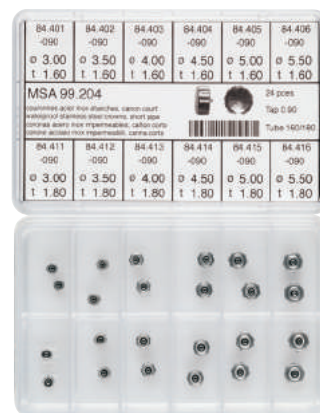
Couronnes étanches couleur acier et jaunes, **canon court** ; acier inoxydable.
 Steel colour and yellow waterproof crowns, **short pipe** ; stainless steel.
 Stahlfarbe und gelbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Coronas herméticas color acero y amarillas, **cañón corto** ; acero inoxidable.
 Corone impermeabili colore acciaio e gialle, **cannotto corto** ; acciaio inossidabile.
 Coroas estanques cor aço e amarelas, **canhão curto** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.302-070		3.00	1.60	0.70	84.202-070	
84.302-080		3.00	1.60	0.80	84.202-080	
84.302-090		3.00	1.60	0.90	84.202-090	
84.401-090		3.00	1.60	0.90	84.501-090	
84.312-070		3.00	1.80	0.70	84.212-070	
84.312-080		3.00	1.80	0.80	84.212-080	
84.312-090		3.00	1.80	0.90	84.212-090	
84.411-090		3.00	1.80	0.90	84.511-090	
84.303-070		3.50	1.60	0.70	84.203-070	
84.303-080		3.50	1.60	0.80	84.203-080	
84.303-090		3.50	1.60	0.90	84.203-090	
84.402-090		3.50	1.60	0.90	84.502-090	
84.313-070		3.50	1.80	0.70	84.213-070	
84.313-080		3.50	1.80	0.80	84.213-080	
84.313-090		3.50	1.80	0.90	84.213-090	
84.412-090		3.50	1.80	0.90	84.512-090	
84.323-070		3.50	2.00	0.70	84.223-070	
84.323-080		3.50	2.00	0.80	84.223-080	
84.323-090		3.50	2.00	0.90	84.223-090	
84.304-070		3.80	1.60	0.70	84.204-070	
84.304-080		3.80	1.60	0.80	84.204-080	
84.304-090		3.80	1.60	0.90	84.204-090	
84.324-070		3.80	2.00	0.70	84.224-070*	
84.324-080		3.80	2.00	0.80	84.224-080	
84.324-090		3.80	2.00	0.90	84.224-090	
84.403-090		4.00	1.60	0.90	84.503-090	
84.413-090		4.00	1.80	0.90	84.513-090	
84.325-070		4.00	2.00	0.70	84.225-070	
84.325-080		4.00	2.00	0.80	84.225-080	
84.325-090		4.00	2.00	0.90	84.225-090	
84.335-070		4.00	2.50	0.70	84.235-070*	
84.335-080		4.00	2.50	0.80	84.235-080*	
84.335-090		4.00	2.50	0.90	84.235-090	

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.404-090		4.50	1.60	0.90	84.504-090	
84.414-090		4.50	1.80	0.90	84.514-090	
84.326-090		4.50	2.00	0.90	84.226-090	
84.421-090		4.50	2.00	0.90	-	-
84.336-090		4.50	2.50	0.90	84.236-090	
84.441-090		4.50	2.50	0.90	-	-
84.405-090		5.00	1.60	0.90	84.505-090	
84.415-090		5.00	1.80	0.90	84.515-090	
84.327-090		5.00	2.00	0.90	84.227-090	
84.422-090		5.00	2.00	0.90	-	-
84.337-090		5.00	2.50	0.90	84.237-090	
84.442-090		5.00	2.50	0.90	-	-
84.406-090		5.50	1.60	0.90	84.506-090	
84.416-090		5.50	1.80	0.90	84.516-090	
84.423-090		5.50	2.00	0.90	-	-
84.339-090		5.50	2.50	0.90	84.239-090	
84.443-090		5.50	2.50	0.90	-	-
84.424-090		6.00	2.00	0.90	-	-
84.340-090		6.00	2.50	0.90	-	-
84.444-090		6.00	2.50	0.90	-	-
84.425-090		6.50	2.00	0.90	-	-
84.445-090		6.50	2.50	0.90	-	-
84.426-090		7.00	2.00	0.90	-	-
84.446-090		7.00	2.50	0.90	-	-
84.427-090		7.50	2.00	0.90	-	-
84.447-090		7.50	2.50	0.90	-	-
84.428-090		8.00	2.00	0.90	-	-
84.448-090		8.00	2.50	0.90	-	-
84.429-090		8.50	2.00	0.90	-	-
84.449-090		8.50	2.50	0.90	-	-

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.430-090		9.00	2.00	0.90	-	-
84.450-090		9.00	2.50	0.90	-	-
84.431-090		9.50	2.00	0.90	-	-
84.451-090		9.50	2.50	0.90	-	-
84.432-090		10.00	2.00	0.90	-	-
84.452-090		10.00	2.50	0.90	-	-

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1

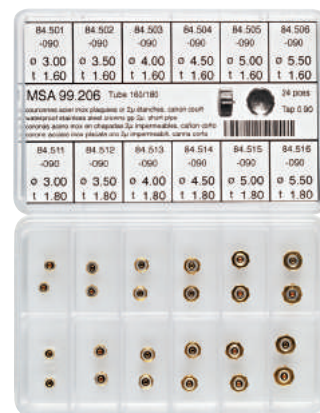


MSA	Qt.	Kg
99.204	24x	0.031

Ø T 1.60 - 1.80 mm

Assortiment de couronnes étanches couleur acier, **canon court** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili colore acciaio, **canotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão curto** ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA84.401-090 /.402-090 /.403-090 /.404-090 /.405-090
 /.406-090 /.411-090 /.412-090 /.413-090 /.414-090 /.415-090
 /.416-090**

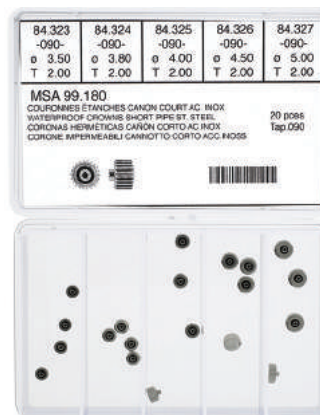


MSA	Qt.	Kg
99.206	24x	0.031

Ø T 1.60 - 1.80 mm

Assortiment de couronnes étanches jaunes, **canon court** ; acier inoxydable.
 Assortiment of yellow waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von gelbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas amarillas, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili gialle, **canotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques amarelas, **canhão curto** ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA84.501-090 /.502-090 /.503-090 /.504-090 /.505-090
 /.506-090 /.511-090 /.512-090 /.513-090 /.514-090 /.515-090
 /.516-090**

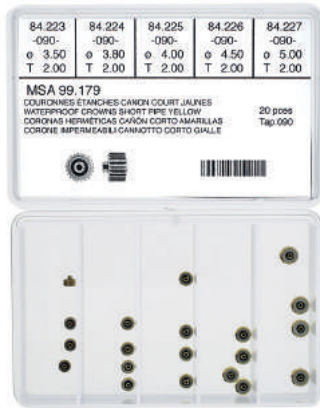


MSA	Qt.	Kg
99.180	20x	0.027

Ø T 2.00 mm

Assortiment de couronnes étanches couleur acier, **canon court** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili colore acciaio, **canotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão curto** ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 5 modèles - models - Modelle - modelos - modelli - modelos
 4x MSA84.323-090 /.324-090 /.325-090 /.326-090 /.327-090**

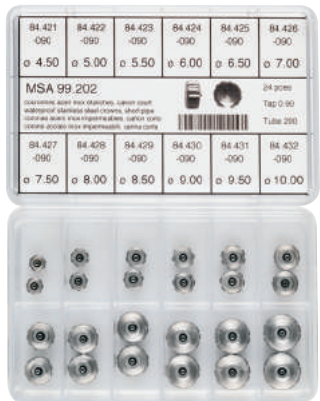


MSA	Qt.	Kg
99.179	20x	0.027

Ø T 2.00 mm

Assortiment de couronnes étanches jaunes, **canon court** ; acier inoxydable.
 Assortiment of yellow waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von gelbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas amarillas, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili gialle, **cannotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques amarelas, **canhão curto** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
5 modèles - models - Modelle - modelos - modelli - modelos
4x MSA84.223-090 /.224-090 /.225-090 /.226-090 /.227-090



MSA	Qt.	Kg
99.202	24x	0.025

Ø T 2.00 mm

Assortiment de couronnes étanches couleur acier, **canon court** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili colore acciaio, **cannotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão curto** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.421-090 /.422-090 /.423-090 /.424-090 /.425-090
/.426-090 /.427-090 /.428-090 /.429-090 /.430-090 /.431-090
/.432-090

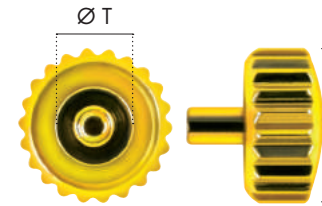


MSA	Qt.	Kg
99.200	24x	0.025

Ø T 2.50 mm













































Assortiment de couronnes étanches couleur acier, **canon court** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **short pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **kurzes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón corto** ; acero inoxidable.
 Assortimento di corone impermeabili colore acciaio, **cannotto corto** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão curto** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.441-090 /.442-090 /.443-090 /.444-090 /.445-090
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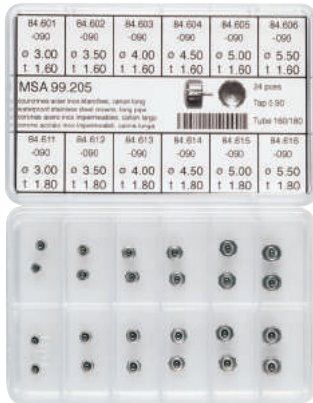
Couronnes étanches couleur acier et jaunes, **canon long** ; acier inoxydable.
 Steel colour and yellow waterproof crowns, **long pipe** ; stainless steel.
 Stahlfarbe und gelbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Coronas herméticas color acero y amarillas, **cañón largo** ; acero inoxidable.
 Corone impermeabili colore acciaio e gialle, **cannotto lungo** ; acciaio inossidabile.
 Coroas estanques cor aço e amarelas, **canhão longo** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.352-070		3.00	1.60	0.70	84.252-070	
84.352-080*		3.00	1.60	0.80	84.252-080	
84.352-090		3.00	1.60	0.90	84.252-090	
84.601-090		3.00	1.60	0.90	84.701-090	
84.362-070		3.00	1.80	0.70	84.262-070	
84.362-080*		3.00	1.80	0.80	84.262-080	
84.362-090		3.00	1.80	0.90	84.262-090	
84.611-090		3.00	1.80	0.90	84.711-090	
84.618-090		3.00	2.00	0.90	84.720-090	
84.353-070		3.50	1.60	0.70	84.253-070	
84.353-080*		3.50	1.60	0.80	84.253-080	
84.353-090		3.50	1.60	0.90	84.253-090	
84.602-090		3.50	1.60	0.90	84.702-090	
84.363-070		3.50	1.80	0.70	84.263-070*	
84.363-080*		3.50	1.80	0.80	84.263-080*	
84.363-090		3.50	1.80	0.90	84.263-090	
84.612-090		3.50	1.80	0.90	84.712-090	
84.373-070		3.50	2.00	0.70	84.273-070	
84.373-080		3.50	2.00	0.80	84.273-080	
84.373-090		3.50	2.00	0.90	84.273-090	
84.619-090		3.50	2.00	0.90	84.721-090	
84.374-070*		-	-	-	84.274-070*	
84.374-080*		3.80	2.00	0.80	84.274-080	
84.374-090		3.80	2.00	0.90	84.274-090	
84.603-090		4.00	1.60	0.90	84.703-090	
84.613-090		4.00	1.80	0.90	84.713-090	
84.375-070*		-	-	-	84.275-070*	
-		-	-	-	84.275-080*	
84.375-090		4.00	2.00	0.90	84.275-090	
84.620-090		4.00	2.00	0.90	84.722-090	

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.385-070*		4.00	2.50	0.70	84.285-070*	
84.385-080*		4.00	2.50	0.80	-	-
84.385-090		4.00	2.50	0.90	84.285-090	
84.604-090		4.50	1.60	0.90	84.704-090	
84.614-090		4.50	1.80	0.90	84.714-090	
84.376-090		4.50	2.00	0.90	84.276-090	
84.621-090		4.50	2.00	0.90	84.723-090	
84.386-090		4.50	2.50	0.90	84.286-090	
84.641-090		4.50	2.50	0.90	-	-
84.605-090		5.00	1.60	0.90	84.705-090	
84.615-090		5.00	1.80	0.90	84.715-090	
84.377-090		5.00	2.00	0.90	84.277-090	
84.622-090		5.00	2.00	0.90	84.724-090	
84.387-090		5.00	2.50	0.90	84.287-090	
84.642-090		5.00	2.50	0.90	-	-
84.606-090		5.50	1.60	0.90	84.706-090	
84.616-090		5.50	1.80	0.90	84.716-090	
84.623-090		5.50	2.00	0.90	84.725-090	
84.389-090		5.50	2.50	0.90	84.289-090	
84.643-090		5.50	2.50	0.90	-	-
84.624-090		6.00	2.00	0.90	-	-
84.644-090		6.00	2.50	0.90	-	-
84.625-090		6.50	2.00	0.90	-	-
84.645-090		6.50	2.50	0.90	-	-
84.626-090		7.00	2.00	0.90	-	-
84.646-090		7.00	2.50	0.90	-	-
84.627-090		7.50	2.00	0.90	-	-
84.647-090		7.50	2.50	0.90	-	-

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
84.628-090		8.00	2.00	0.90	-	-
84.648-090		8.00	2.50	0.90	-	-
84.629-090		8.50	2.00	0.90	-	-
84.649-090		8.50	2.50	0.90	-	-
84.630-090		9.00	2.00	0.90	-	-
84.650-090		9.00	2.50	0.90	-	-
84.631-090		9.50	2.00	0.90	-	-
84.651-090		9.50	2.50	0.90	-	-
84.632-090		10.00	2.00	0.90	-	-
84.652-090		10.00	2.50	0.90	-	-

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1

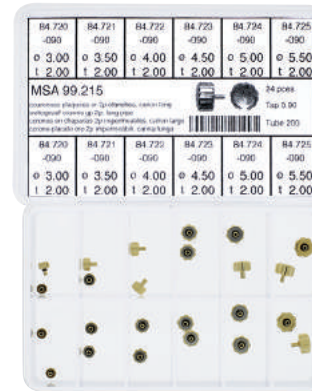


MSA	Qt.	Kg
99.205	24x	0.031

Ø T 1.60 - 1.80 mm

Assortiment de couronnes étanches couleur acier, **canon long** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón largo** ; acciaio inossidabile.
 Assortimento di corone impermeabili colore acciaio, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.601-090 /.602-090 /.603-090 /.604-090 /.605-090
/.606-090 /.611-090 /.612-090 /.613-090 /.614-090 /.615-090
/.616-090

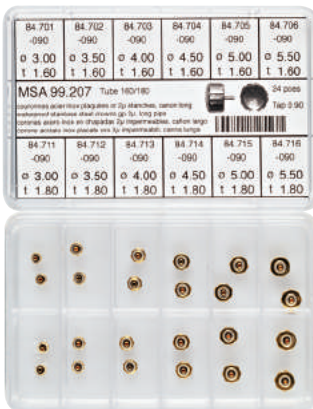


MSA	Qt.	Kg
99.215	24x	0.030

Ø T 2.00 mm

Assortiment de couronnes étanches jaunes, **canon long** ; acier inoxydable.
 Assortiment of yellow waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von gelbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas amarillas, **cañón largo** ; acero inoxidable.
 Assortimento di corone impermeabili gialle, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques amarelas, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
4x MSA84.720-090 /.721-090 /.722-090 /.723-090 /.724-090
/.725-090



MSA	Qt.	Kg
99.207	24x	0.031

Ø T 1.60 - 1.80 mm

Assortiment de couronnes étanches jaunes, **canon long** ; acier inoxydable.
 Assortiment of yellow waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von gelbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas amarillas, **cañón largo** ; acero inoxidable.
 Assortimento di corone impermeabili gialle, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques amarelas, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.701-090 /.702-090 /.703-090 /.704-090 /.705-090
/.706-090 /.711-090 /.712-090 /.713-090 /.714-090 /.715-090
/.716-090

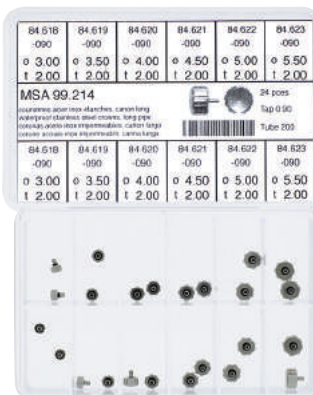


MSA	Qt.	Kg
99.203	24x	0.025

Ø T 2.00 mm

Assortiment de couronnes étanches couleur acier, **canon long** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón largo** ; acciaio inossidabile.
 Assortimento di corone impermeabili colore acciaio, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.621-090 /.622-090 /.623-090 /.624-090 /.625-090
/.626-090 /.627-090 /.628-090 /.629-090 /.630-090 /.631-090
/.632-090



MSA	Qt.	Kg
99.214	24x	0.030

Ø T 2.00 mm

Assortiment de couronnes étanches couleur acier, **canon long** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón largo** ; acciaio inossidabile.
 Assortimento di corone impermeabili colore acciaio, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
4x MSA84.618-090 /.619-090 /.620-090 /.621-090 /.622-090
/.623-090

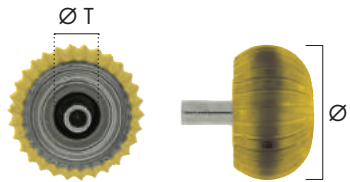


MSA	Qt.	Kg
99.201	24x	0.025

Ø T 2.50 mm

Assortiment de couronnes étanches couleur acier, **canon long** ; acier inoxydable.
 Assortiment of steel colour waterproof crowns, **long pipe** ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen, **langes Rohr** ; Edelstahl.
 Surtido de coronas herméticas color acero, **cañón largo** ; acciaio inossidabile.
 Assortimento di corone impermeabili colore acciaio, **cannotto lungo** ; acciaio inossidabile.
 Sortido de coroas estanques cor aço, **canhão longo** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.641-090 /.642-090 /.643-090 /.644-090 /.645-090
/.646-090 /.647-090 /.648-090 /.649-090 /.650-090 /.651-090
/.652-090



Couronnes étanches type Pumpkin couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow waterproof crowns Pumpkin type ; stainless steel.
 Stahlfarbe und gelbe wasserdichte Kronen Pumpkin Typ ; Edelstahl.
 Coronas herméticas tipo Pumpkin color acero y amarillas ; acero inoxidable.
 Corone impermeabili tipo Pumpkin colore acciaio e gialle ; acciaio inossidabile.
 Coroas estanques tipo Pumpkin cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Hauteur tête/ Head height mm	Ø T mm	Longueur canon/ Pipe length mm	Ø Tar./ Tap. mm	MSA	Jaune/ Yellow
84.810-090		3.50	2.20	1.80	2.00	0.90	84.910-090	
84.811-090		3.50	2.20	2.00	2.00	0.90	84.911-090	
84.812-090		4.00	2.50	1.80	2.00	0.90	84.912-090	
84.813-090		4.00	2.50	2.00	2.00	0.90	84.913-090	
84.814-090		4.00	2.50	2.50	2.00	0.90	84.914-090	
84.815-090		4.50	2.60	1.80	2.00	0.90	84.915-090	
84.816-090		4.50	2.60	2.00	2.00	0.90	84.916-090	
84.817-090		4.50	2.60	2.50	2.00	0.90	84.917-090	
84.818-090		5.00	3.00	1.80	2.50	0.90	84.918-090	
84.819-090		5.00	3.00	2.00	2.50	0.90	84.919-090	
84.820-090		5.00	3.00	2.50	2.50	0.90	84.920-090	
84.821-090		5.50	3.00	1.80	2.50	0.90	84.921-090	
84.822-090		5.50	3.00	2.00	2.50	0.90	84.922-090	
84.823-090		5.50	3.00	2.50	2.50	0.90	84.923-090	
84.824-090		6.00	3.30	2.00	3.00	0.90	-	-
84.825-090		6.00	3.30	2.50	3.00	0.90	-	-
84.826-090		6.50	3.50	2.00	3.00	0.90	-	-
84.827-090		6.50	3.50	2.50	3.00	0.90	-	-
84.828-090		7.00	4.00	2.00	3.00	0.90	-	-
84.829-090		7.00	4.00	2.50	3.00	0.90	-	-
84.830-090		7.50	4.50	2.00	3.00	0.90	-	-
84.831-090		7.50	4.50	2.50	3.00	0.90	-	-
84.832-090		8.00	4.50	2.00	3.00	0.90	-	-
84.833-090		8.00	4.50	2.50	3.00	0.90	-	-

Kg 0.001

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84.810	84.811	84.812	84.813	84.815	84.816
ø 3.50	ø 3.50	ø 4.00	ø 4.00	ø 4.50	ø 4.50
h 2.20	h 2.20	h 2.50	h 2.50	h 2.60	h 2.60
ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00

MSA 99.257
 COURONNES ÉTANCHES TYPE PUMPKIN COULEUR ACIER
 WATERPROOF CROWNS PUMPKIN TYPE STEEL COLOUR
 CORONAS HERMÉTICAS TIPO PUMPKIN COLOR ACERO
 CORONE IMPERMEABILI TIPO PUMPKIN COLORE ACCIAIO

84.818	84.819	84.821	84.822	84.824	84.825
ø 5.00	ø 5.00	ø 5.50	ø 5.50	ø 6.00	ø 6.50
h 3.00	h 3.00	h 3.00	h 3.00	h 3.30	h 3.50
ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00	ø T 2.00	ø T 2.50

MSA	Qt.	Kg
99.257	24x	0.031

Assortiment de couronnes étanches type Pumpkin couleur acier ; acier inoxydable.
 Assortment of steel colour waterproof crowns Pumpkin type ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen Pumpkin Typ ; Edelstahl.
 Surtido de coronas herméticas tipo Pumpkin color acero ; acero inoxidable.
 Assortimento di corone impermeabili tipo Pumpkin colore acciaio ; acciaio inossidabile.
 Sortido de coroas estanques tipo Pumpkin cor aço ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.810-090 / .811-090 / .812-090 / .813/090 / .815-090
/.816-090 / .818-090 / .819-090 / .821.090 / .822-090 / .824-090
/.826-090

84.810	84.811	84.812	84.813	84.815	84.816
ø 3.50	ø 3.50	ø 4.00	ø 4.00	ø 4.50	ø 4.50
h 2.20	h 2.20	h 2.50	h 2.50	h 2.60	h 2.60
ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00

MSA 99.258
 COURONNES ÉTANCHES TYPE PUMPKIN JAUNES
 WATERPROOF CROWNS PUMPKIN TYPE YELLOW
 CORONAS HERMÉTICAS TIPO PUMPKIN AMARILLAS
 CORONE IMPERMEABILI TIPO PUMPKIN GIALLE

84.818	84.819	84.820	84.821	84.822	84.823
ø 5.00	ø 5.00	ø 5.50	ø 5.50	ø 6.00	ø 6.50
h 3.00	h 3.00	h 3.00	h 3.00	h 3.30	h 3.50
ø T 1.80	ø T 2.00	ø T 1.80	ø T 2.00	ø T 2.00	ø T 2.50

MSA	Qt.	Kg
99.258	24x	0.031

Assortiment de couronnes étanches type Pumpkin jaunes ; acier inoxydable.
 Assortiment of yellow waterproof crowns Pumpkin type ; stainless steel.
 Sortiment von gelbe wasserdichte Kronen Pumpkin Typ ; Edelstahl.
 Surtido de coronas herméticas tipo Pumpkin amarillas ; acero inoxidable.
 Assortimento di corone impermeabili tipo Pumpkin gialle ; acciaio inossidabile.
 Sortido de coroas estanques tipo Pumpkin amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.910-090 / .911-090 / .912-090 / .913/090 / .915-090
/.916-090 / .918-090 / .919-090 / .920.090 / .921-090 / .922-090
/.923-090

84.814	84.817	84.820	84.823	84.825	84.827
ø 4.00	ø 4.50	ø 5.00	ø 5.50	ø 6.00	ø 6.50
h 2.50	h 2.60	h 3.00	h 3.00	h 3.30	h 3.50
ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50

MSA 99.259
 COURONNES ÉTANCHES TYPE PUMPKIN COULEUR ACIER
 WATERPROOF CROWNS PUMPKIN TYPE STEEL COLOUR
 CORONAS HERMÉTICAS TIPO PUMPKIN COLOR ACERO
 CORONE IMPERMEABILI TIPO PUMPKIN COLORE ACCIAIO

84.828	84.829	84.830	84.831	84.832	84.833
ø 7.00	ø 7.00	ø 7.50	ø 7.50	ø 8.00	ø 8.00
h 4.00	h 4.00	h 4.50	h 4.50	h 4.50	h 4.50
ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50	ø T 2.50

MSA	Qt.	Kg
99.259	24x	0.031

Assortiment de couronnes étanches type Pumpkin couleur acier ; acier inoxydable.
 Assortiment of steel colour waterproof crowns Pumpkin type ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Kronen Pumpkin Typ ; Edelstahl.
 Surtido de coronas herméticas tipo Pumpkin color acero ; acero inoxidable.
 Assortimento di corone impermeabili tipo Pumpkin colore acciaio ; acciaio inossidabile.
 Sortido de coroas estanques tipo Pumpkin cor aço ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA84.814-090 / .817-090 / .820-090 / .823/090 / .825-090
/.827-090 / .828-090 / .829-090 / .830.090 / .831-090 / .832-090
/.833-090



Couronnes étanches demi-boule couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow waterproof domed crowns ; stainless steel.
 Stahlfarbe und gelbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Coronas herméticas media bola color acero y amarillas ; acero inoxidable.
 Corone impermeabili demiboule colore acciaio e gialle ; acciaio inossidabile.
 Coroas estanques meia bola cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	Dôme/Dome	MSA	Jaune/Yellow
80.501-070		2.80	1.60	0.70	-	80.001-070	
80.501-080		2.80	1.60	0.80	-	80.001-080	
80.501		2.80	1.60	0.90	-	80.001	
80.502-070		3.00	1.60	0.70	Bas/Low	80.002-070	
80.502-080		3.00	1.60	0.80	Bas/Low	80.002-080	
80.502		3.00	1.60	0.90	Bas/Low	80.002	
80.503-070		3.00	1.60	0.70	Haut/High	80.003-070	
80.503-080		3.00	1.60	0.80	Haut/High	80.003-080	
80.503		3.00	1.60	0.90	Haut/High	80.003	
80.507-070		3.00	1.80	0.70	-	80.007-070	
80.507-080		3.00	1.80	0.80	-	80.007-080	
80.507		3.00	1.80	0.90	-	80.007	
80.513-070		3.25	2.00	0.70	-	80.013-070	
80.513-080		3.25	2.00	0.80	-	80.013-080	
80.513		3.25	2.00	0.90	-	80.013	
80.504-070		3.50	1.60	0.70	Bas/Low	80.004-070	
80.504-080		3.50	1.60	0.80	Bas/Low	80.004-080	
80.504		3.50	1.60	0.90	Bas/Low	80.004	
80.505-070		3.50	1.60	0.70	Haut/High	80.005-070	
80.505-080		3.50	1.60	0.80	Haut/High	80.005-080	
80.505		3.50	1.60	0.90	Haut/High	80.005	
80.508-070		3.50	1.80	0.70	-	80.008-070	
80.508-080		3.50	1.80	0.80	-	80.008-080	
80.508		3.50	1.80	0.90	-	80.008	
80.510-070		3.50	2.00	0.70	Bas/Low	80.010-070	
80.510-080		3.50	2.00	0.80	Bas/Low	80.010-080	
80.510		3.50	2.00	0.90	Bas/Low	80.010	
80.511-070		3.50	2.00	0.70	Haut/High	80.011-070	
80.511-080		3.50	2.00	0.80	Haut/High	80.011-080	
80.511		3.50	2.00	0.90	Haut/High	80.011	
80.512-070		3.75	2.00	0.70	-	80.012-070	
80.512-080		3.75	2.00	0.80	-	80.012-080	
80.512		3.75	2.00	0.90	-	80.012	
80.506-070		4.00	1.60	0.70	-	80.006-070	
80.506-080		4.00	1.60	0.80	-	80.006-080	
80.506		4.00	1.60	0.90	-	80.006	

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	Dôme/Dome	MSA	Jaune/Yellow
80.509-070		4.00	1.80	0.70	-	80.009-070	
80.509-080		4.00	1.80	0.80	-	80.009-080	
80.509		4.00	1.80	0.90	-	80.009	
80.514-070		4.00	2.00	0.70	-	80.014-070	
80.514-080		4.00	2.00	0.80	-	80.014-080	
80.514		4.00	2.00	0.90	-	80.014	
80.515-070		4.50	2.00	0.70	-	80.015-070	
80.515-080		4.50	2.00	0.80	-	80.015-080	
80.515		4.50	2.00	0.90	-	80.015	
80.517-070		4.50	2.50	0.70	-	80.017-070	
80.517-080		4.50	2.50	0.80	-	80.017-080	
80.517		4.50	2.50	0.90	-	80.017	
80.516-070		5.00	2.00	0.70	-	80.016-070	
80.516-080		5.00	2.00	0.80	-	80.016-080	
80.516		5.00	2.00	0.90	-	80.016	
80.518-070		5.00	2.50	0.70	-	80.018-070	
80.518-080		5.00	2.50	0.80	-	80.018-080	
80.518		5.00	2.50	0.90	-	80.018	
80.519		5.50	2.00	0.90	-	80.019	
80.520		5.50	2.50	0.90	-	80.020	
80.521		6.00	2.00	0.90	-	80.021	
80.522		6.00	2.50	0.90	-	80.022	

Kg 0.001

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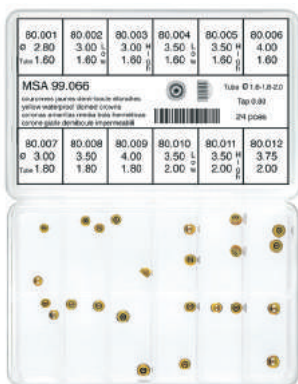


**Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.70 mm
 Ø T 2.00 - 2.50 mm**

Assortiment de couronnes étanches demi-boule couleur acier et jaunes ; acier inoxydable.
 Assortiment of steel colour and yellow waterproof domed crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Surtido de coronas herméticas media bola color acero y amarillas ; acero inoxidable.
 Assortimento di corone impermeabili demiboule colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas estanques meia bola cor aço e amarelas ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA80.013-070 /.014-070 /.015-070 /.016-070 /.017-070
 /.018-070 /.513-070 /.514-070 /.515-070 /.516-070 /.517-070
 /.518-070**

MSA	Qt.	Kg
99.072	24x	0.049

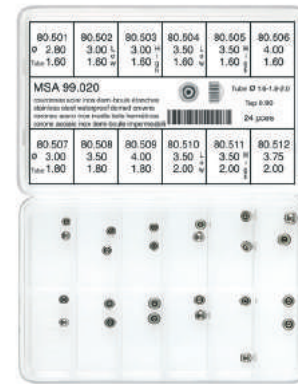


**Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.80 mm
 Ø T 1.60 - 1.80 - 2.00 mm**

Assortiment de couronnes étanches demi-boule jaunes ; acier inoxydable.
 Assortiment of yellow waterproof domed crowns ; stainless steel.
 Sortiment von gelbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Surtido de coronas herméticas media bola amarillas ; acero inoxidable.
 Assortimento di corone impermeabili demiboule e gialle ; acciaio inossidabile.
 Sortido de coroas estanques meia bola amarelas ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA80.001-080 /.002-080 /.003-080 /.004-080 /.005-080
 /.006-080 /.007-080 /.008-080 /.009-080 /.010-080 /.011-080
 /.012-080**

MSA	Qt.	Kg
99.066	24x	0.049

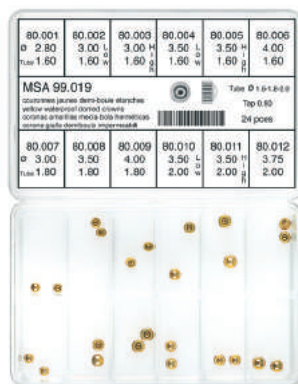


**Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.90 mm
 Ø T 1.60 - 1.80 - 2.00 mm**

Assortiment de couronnes étanches demi-boule couleur acier ; acier inoxydable.
 Assortiment of steel colour waterproof domed crowns ; stainless steel.
 Sortiment von Stahlfarbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Surtido de coronas herméticas media bola color acero ; acero inoxidable.
 Assortimento di corone impermeabili demiboule colore acciaio ; acciaio inossidabile.
 Sortido de coroas estanques meia bola cor aço ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA80.501 /.502 /.503 /.504 /.505 /.506 /.507 /.508 /.509
 /.510 /.511 /.512**

MSA	Qt.	Kg
99.020	24x	0.049

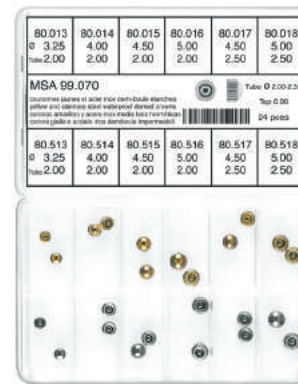


**Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.90 mm
 Ø T 1.60 - 1.80 - 2.00 mm**

Assortiment de couronnes étanches demi-boule jaunes ; acier inoxydable.
 Assortiment of yellow waterproof domed crowns ; stainless steel.
 Sortiment von gelbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Surtido de coronas herméticas media bola amarillas ; acero inoxidable.
 Assortimento di corone impermeabili demiboule gialle ; acciaio inossidabile.
 Sortido de coroas estanques meia bola amarelas ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA80.001 /.002 /.003 /.004 /.005 /.006 /.007 /.008 /.009
 /.010 /.011 /.012**

MSA	Qt.	Kg
99.019	24x	0.049

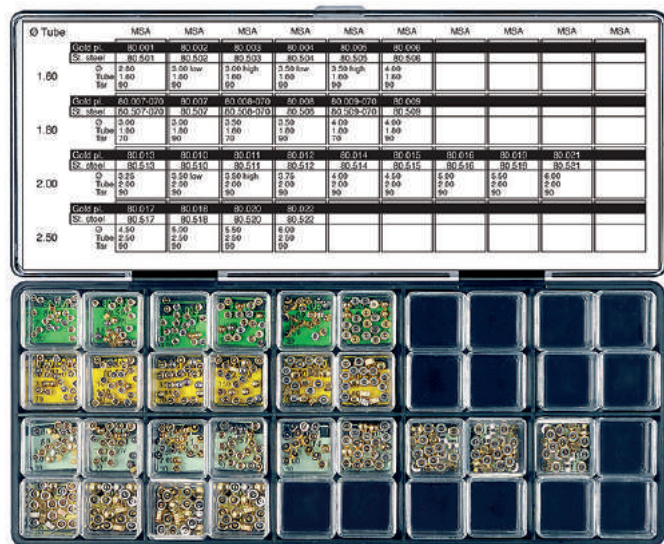


**Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.90 mm
 Ø T 2.00 - 2.50 mm**

Assortiment de couronnes étanches demi-boule couleur acier et jaunes ; acier inoxydable.
 Assortiment of steel colour and yellow waterproof domed crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe wasserdichte Halbkugel Kronen ; Edelstahl.
 Surtido de coronas herméticas media bola color acero y amarillas ; acero inoxidable.
 Assortimento di corone impermeabili demiboule colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas estanques meia bola cor aço e amarelas ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos
 2x MSA80.013 /.014 /.015 /.016 /.017 /.018 /.513 /.514 /.515
 /.516 /.517 /.518**

MSA	Qt.	Kg
99.070	24x	0.049

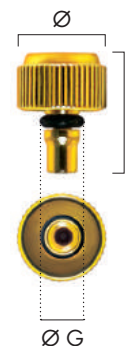


MSA	Qt.	Kg
99.254	500x	0.750

Ø taraudage/tap/Gewinde/rosca/maschiatura/rosca 0.70 - 0.90 mm
Ø T 1.60 - 1.80 - 2.00 - 2.50 mm

Assortiment de couronnes étanches demi-boule, 125 couleur acier et 375 jaunes ; acier inoxydable.
 Assortment of waterproof domed crowns, 125 steel colour and 375 yellow ; stainless steel.
 Sortiment von wasserdichte Halbkugel Kronen, 125 Stahlfarbe und 375 gelbe ; Edelstahl.
 Surtido de coronas herméticas media bola, 125 color acero y 375 amarillas ; acero inoxidable.
 Assortimento di corone impermeabili demiboule, 125 colore acciaio e 375 gialle ; acciaio inossidabile.
 Sortido de coroas estanques meia bola, 125 cor aço e 375 amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
50 modèles - models - Modelle - modelos - modelli - modelos
15x MSA80.001 /.002 /.003 /.004 /.005 /.006 /.007 /.007-070 /.008 /.008-070 /.009 /.009-070
/.010 /.011 /.012 /.013 /.014 /.015 /.016 /.017 /.018 /.019 /.020 /.021 /.022
5x MSA80.501 /.502 /.503 /.504 /.505 /.506 /.507 /.507-070 /.508 /.508-070 /.509 /.509-070
/.510 /.511 /.512 /.513 /.514 /.515 /.516 /.517 /.518 /.519 /.520 /.521 /.522



Couronnes japonaises couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow Japanese crowns ; stainless steel.
 Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
 Coronas japonesas color acero y amarillas ; acero inoxidable.
 Corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
 Coroas japonesas cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	N°/No.	Ø mm	Ø G mm	Ø Tar./Tap. mm	Longueur/Length mm	MSA	Jaune/Yellow	N°/No.
-	-	-	3.00	1.50	0.70	2.20	81.002		506-D502B
-	-	-	3.50	1.50	0.90	4.10	81.001		506-B782B
-	-	-	3.50	1.60	0.70	2.20	81.005		506-2524
-	-	-	3.50	1.80	0.70	1.50	81.003		506-2614
81.504		506-2251 506-225XU	3.50	1.80	0.70	2.10	81.004		506-2254
-	-	-	3.50	1.80	0.90	4.70	81.008		506-4494
-	-	-	3.75	1.80	0.90	5.10	81.009		506-3814
81.507		506-2101 506-2100-A	4.00	1.80	0.90	2.50	81.007		506-2104
81.506		506-2881 506-2880-A	4.00	1.80	0.90	2.70	81.006		506-2884

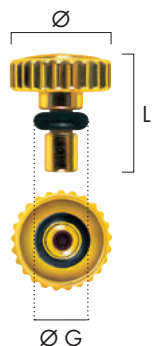
Kg 0.001 1/1



MSA	Qt.	Kg
99.111	24x	0.074

Assortiment de couronnes japonaises couleur acier et jaunes ; acier inoxydable.
 Assortment of steel colour and yellow Japanese crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
 Surtido de coronas japonesas color acero y amarillas ; acero inoxidable.
 Assortimento di corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas japonesas cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA81.001 /.002 /.003 /.004 /.005 /.006 /.007 /.008 /.009
/.504 /.506 /.507



Couronnes japonaises couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow Japanese crowns ; stainless steel.
 Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
 Coronas japonesas color acero y amarillas ; acero inoxidable.
 Corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
 Coroas japonesas cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	N°/No.	Ø mm	Ø G mm	Ø Tar./Tap. mm	Longueur/Length mm	MSA	Jaune/Yellow	N°/No.
-	-	-	3.00	1.30	0.60	3.75	81.108		38-0211NGP
-	-	-	3.00	1.30	0.60	3.95	81.112		38-0105NGP
-	-	-	3.00	1.30	0.60	4.15	81.107		38-0209NGP
81.614		38-0239S	3.00	1.40	0.80	3.95	81.114		38-0239NGP
-	-	-	3.00	1.50	0.60	2.55	81.109		38-0216NGP
-	-	-	3.50	1.30	0.60	4.15	81.111		38-0225NGP
-	-	-	3.50	1.40	0.80	3.60	81.103		38-0147NGP
-	-	-	3.50	1.40	0.80	3.95	81.105		38-0153NGP
-	-	-	3.50	1.40	0.80	4.15	81.104		38-0149NGP
-	-	-	3.50	1.50	0.60	2.55	81.110		38-0224NGP
81.615		38-0223S	3.50	1.50	0.90	3.60	81.115		38-0223NGP
81.613*		38-0157S	3.50	1.70	0.80	2.40	81.113		38-0157NGP
81.606*		38-0154S	4.00	1.50	0.80	4.00	81.106		38-0154NGP
81.602		38-0075S	4.00	2.10	0.90	4.85	81.102		38-0075NGP
81.601		38-0064S	4.50	1.80	0.90	2.50	81.101		38-0064NGP

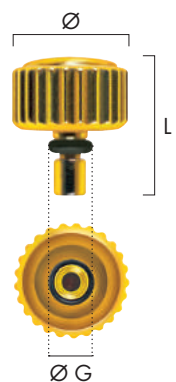
Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



MSA	Qt.	Kg
99.112	24x	0.049

Assortiment de couronnes japonaises couleur acier et jaunes ; acier inoxydable.
 Assortment of steel colour and yellow Japanese crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
 Surtido de coronas japonesas color acero y amarillas ; acero inoxidable.
 Assortimento di corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas japonesas cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA81.103 /.104 /.105 /.106 /.107 /.108 /.110 /.111 /.112
/.115 /.601 /.602



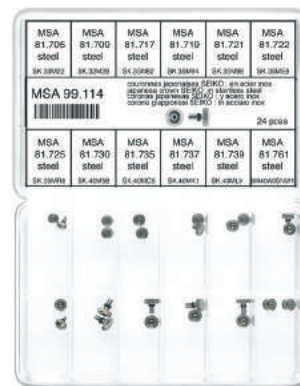
Couronnes japonaises couleur acier et jaunes ; acier inoxydable.
Steel colour and yellow Japanese crowns ; stainless steel.
Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
Coronas japonesas color acero y amarillas ; acero inoxidable.
Corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
Coroas japonesas cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	N°/No.	Ø mm	Ø G mm	Ø Tar./Tap. mm	Longueur/Length mm	MSA	Jaune/Yellow	N°/No.
-	-	-	2.50	1.00	0.60	3.35	81.201		25M04NA1
-	-	-	3.00	1.00	0.60	3.00	81.206		30M82NA1
81.707		30M68NS1	3.00	1.00	0.60	3.10	81.207		30M68NF1
81.708		30M98NS1	3.00	1.00	0.60	3.25	81.208		30M98NA1
-	-	-	3.00	1.00	0.60	3.45	81.246		30MA2NA1
-	-	-	3.00	1.00	0.60	3.65	81.265		6M30A3NNG1
-	-	-	3.00	1.10	0.80	4.25	81.275*		30M89NN1
81.704		30M08NS1	3.00	1.30	0.80	3.55	81.204		30M08NA1
-	-	-	3.00	1.30	0.80	3.60	81.245		30MA6NA1
-	-	-	3.00	1.30	0.80	4.00	81.258		8M30A0NNG2
-	-	-	3.00	1.50	0.60	2.20	81.244		30NA9NN1
81.702*		30E02NS1	3.00	1.50	0.80	2.55	81.202*		30E02NF1
81.705		30M22NS1	3.00	1.50	0.80	3.90	81.205		30M22NA1
-	-	-	3.20	1.00	0.60	3.15	81.241		32M63NN1
81.709		32M29NS1	3.20	1.00	0.60	3.25	81.209		32M29NN1
81.710		32N23NS1	3.20	1.40	0.60	2.10	81.210		32N23NN1
-	-	-	3.20	1.40	0.80	3.75	81.243		32M01NN1
81.712		35D15NS1	3.50	-	0.80	2.00	81.212		35D15NN1
81.711		35D03NS1	3.50	-	0.90	2.00	81.211		35D03NN1
-	-	-	3.50	1.00	0.60	3.00	81.262		35MK6NA1
-	-	-	3.50	1.00	0.60	3.05	81.248*		35MX7NN1
81.742	-	8M35A9SNW0	3.50	1.00	0.80	3.75	-	-	-

MSA	Acier/Steel	N°/No.	Ø mm	Ø G mm	Ø Tar./Tap. mm	Longueur/Length mm	MSA	Jaune/Yellow	N°/No.
81.719		35M94NS1	3.50	1.30	0.80	3.00	81.219		35M94NA1
81.721		35M98NS1	3.50	1.30	0.80	3.30	81.221		35M98NA1
-	-	-	3.50	1.30	0.80	3.35	81.224		35MR6NF1
-	-	-	3.50	1.30	0.80	3.70	81.264		8M35A7NNG0
-	-	-	3.50	1.30	0.80	3.75	81.252		8M35A9NNG0
81.725		35MR8NS1	3.50	1.30	0.80	3.85	81.225		35MR8NF1
81.750		8M35A0SNW1	3.50	1.30	0.80	4.00	81.250		8M35A0NNG1
-	-	-	3.50	1.30	0.80	4.00	81.251		8M35A0NNG2
-	-	-	3.50	1.30	0.80	4.00	81.259		8M35A0BNG1
-	-	-	3.50	1.30	0.80	4.00	81.260		8M35B4NNG1
-	-	-	3.50	1.30	0.80	4.10	81.228		35MV3NN1
-	-	-	3.50	1.30	0.80	4.25	81.271		35MK3NN1
-	-	-	3.50	1.30	0.80	4.85	81.254*		35MX2NF1
-	-	-	3.50	1.40	0.80	2.25	81.247*		35E43NN1
-	-	-	3.50	1.40	0.80	4.00	81.216		35M81NN1
-	-	-	3.50	1.40	0.80	4.00	81.220*		35M97NN1
81.717		35M82NS1	3.50	1.40	0.80	4.10	81.217		35M82NA1
81.727		35MU6NC1	3.50	1.40	0.80	4.35	81.227		35MU6NF1
81.726		35M54NC1	3.50	1.40	0.80	4.90	81.226		35M54NF1
81.713		35E09NS1	3.50	-	0.80	2.45	81.213		35E09NN1
81.772*		35MR0NC1	3.50	1.50	0.80	4.85	-	-	-
81.722		35ME9NS1	3.50	1.70	0.80	2.75	81.222		35ME9NN1
-	-	-	3.50	1.70	0.80	3.25	81.223		35MJ3NN1
-	-	-	3.50	1.80	0.60	4.75	81.214		35M18NA1
81.715		35M68NS1	3.50	1.80	0.90	4.70	81.215		35M68NA1
81.718		35M90NS1	3.50	1.80	0.90	4.85	81.218		35M90NA1
-	-	-	3.80	2.00	0.90	4.00	81.238		40ML5NN1
81.744	-	40MK5NS1	4.00	1.00	0.90	4.80	-	-	-
-	-	-	4.00	1.30	0.80	4.80	81.253		8M40A0NNG1
81.761		8M40A0SNW1	4.00	1.30	0.80	4.80	-	-	-
-	-	-	4.00	1.30	0.80	4.80	81.263		8M40A0NNG3

MSA	Acier/Steel	N°/No.	Ø mm	Ø G mm	Ø Tar./Tap. mm	Longueur/Length mm	MSA	Jaune/Yellow	N°/No.
81.766		9M40B3SNWO	4.00	1.30	0.80	5.00	81.266		9M40B3SNGO
-	-	-	4.00	1.50	0.80	3.80	81.256		40M92NA1
-	-	-	4.00	1.50	0.80	3.95	81.257		40MJ3NA1
-	-	-	4.00	1.50	0.80	4.40	81.236		40MH1NN1
81.731		40MD4NS1	4.00	1.50	0.80	4.75	81.231		40MD4NA1
-	-	-	4.00	1.50	0.80	4.80	81.255*		40M78NA1/NF1
-	-	-	4.00	1.50	0.80	5.10	81.249		40M82NA1
-	-	-	4.00	1.80	0.80	4.20	81.278		40M97NA1
81.735		40MC5NS1	4.00	1.80	0.90	4.45	81.235		40MC5NN1
81.739		40ML9NS1	4.00	1.80	0.90	4.55	81.239		40ML9NN1
81.734		40M76NS1	4.00	1.80	0.90	4.70	81.234		40M76NA1
81.737		40MK1NS1	4.00	1.80	0.90	5.00	81.237		40MK1NN1
81.729		40M54NS1	4.00	2.00	1.00	4.80	81.229		40M54NA1
81.730		40M58NS1	4.00	2.00	1.00	5.00	81.230		40M58NA1
-	-	-	4.00	2.20	0.90	5.00	81.233		40M71NA1
-	-	-	4.00	2.20	0.90	5.25	81.232		40M69NN1
81.738		40ML5NS1	4.00	2.20	0.90	4.05	-	-	-
81.774		9M40B5SNWO	4.00	2.40	0.80	4.30	-	-	-
81.743	-	9M45F3SNSO	4.50	1.10	0.90	4.60	-	-	-
81.777		45M47NS1	4.50	1.30	0.80	5.25	-	-	-
81.773		45E41NS1	4.50	1.50	0.80	4.95	-	-	-
-	-	-	4.50	1.80	0.80	5.30	81.276		45M47NN1
81.745	-	45M60NS1	4.50	1.85	0.80	5.75	-	-	-
81.740		45M30NS1	4.50	2.00	1.00	5.80	81.240		45M30NA1
81.741	-	8K45C1TNWO	4.50	2.15	0.80	6.20	-	-	-

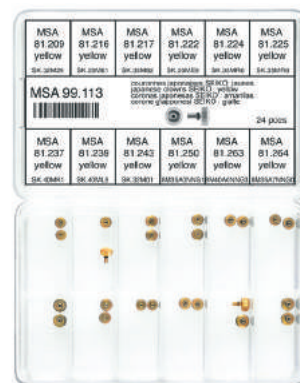
Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



MSA	Qt.	Kg
99.114	24x	0.049

Assortiment de couronnes japonaises couleur acier ; acier inoxydable.
Assortiment of steel colour Japanese crowns ; stainless steel.
Sortiment von Stahlfarbe Japanische Kronen ; Edelstahl.
Surtido de coronas japonesas color acero ; acero inoxidable.
Assortimento di corone giapponesi colore acciaio ; acciaio inossidabile.
Sortido de coroas japonesas cor aço ; aço inoxidável.

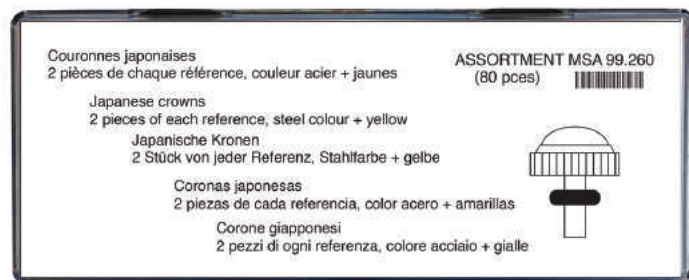
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA81.705 / .709 / .717 / .719 / .721 / .722 / .725 / .730 / .735
/.737 / .739 / .761



MSA	Qt.	Kg
99.113	24x	0.049

Assortiment de couronnes japonaises jaunes ; acier inoxydable.
Assortiment of yellow Japanese crowns ; stainless steel.
Sortiment von gelbe Japanische Kronen ; Edelstahl.
Surtido de coronas japonesas amarillas ; acero inoxidable.
Assortimento di corone giapponesi gialle ; acciaio inossidabile.
Sortido de coroas japonesas amarelas ; aço inoxidável.

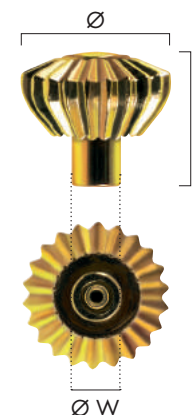
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA81.209 / .216 / .217 / .222 / .224 / .225 / .237 / .239 / .243
/.250 / .263 / .264



MSA	Qt.	Kg
99.260	80x	0.340

Assortiment de couronnes japonaises couleur acier et jaunes ; acier inoxydable.
 Assortment of steel colour and yellow Japanese crowns ; stainless steel.
 Sortiment von Stahlfarbe und gelbe Japanische Kronen ; Edelstahl.
 Surtido de coronas japonesas color acero y amarillas ; acero inoxidable.
 Assortimento di corone giapponesi colore acciaio e gialle ; acciaio inossidabile.
 Sortido de coroas japonesas cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
40 modèles - models - Modelle - modelos - modelli - modelos
2x MSA81.001 /.101 /.108 /.201 /.206 /.208 /.209 /.216 /.217 /.222 /.224 /.225 /.229 /.237
/.239 /.243 /.250 /.263 /.264 /.602 /.615 /.705 /.709 /.717 /.721 /.722 /.725 /.729 /.730 /.731
/.737 /.739 /.740 /.741 /.742 /.743 /.744 /.745 /.761 /.773



Couronnes pour montres de poche couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow pocket watches crowns ; stainless steel.
 Stahlfarbe und gelbe Kronen für Taschenuhren ; Edelstahl.
 Coronas para relojes de bolsillo color acero y amarillas ; acero inoxidable.
 Corone per orologi da tasca colore acciaio e gialle ; acciaio inossidabile.
 Coroas para relógios de bolso cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø W mm	Ø Tar./Top. mm	Hauteur tête/Head height mm	MSA	Jaune/Yellow
63.550*		3.80	2.20	0.90	1.85	63.050*	
63.501*		4.00	2.30	0.90	2.00	63.001	
63.551*		4.00	2.80	0.90	2.80	63.051*	
63.552*		4.50	2.80	0.90	2.50	63.052	
63.553*		4.50	3.00	0.90	2.90	63.053	
63.554*		5.00	2.80	0.90	3.00	63.054	
63.502		5.00	3.00	0.90	2.70	63.002	
63.555		6.00	3.05	0.90	2.90	63.055	
63.555-100*		6.00	3.05	1.00	2.90	-	-
63.503		6.00	3.30	0.90	3.20	63.003	
63.503-140*		6.00	3.30	1.40	3.20	-	-
63.504		6.50	3.50	0.90	3.60	63.004	
63.504-120*		6.50	3.50	1.20	3.60	-	-
63.557		7.00	3.05	0.90	4.00	63.057	
63.557-120		7.00	3.05	1.20	4.00	-	-
63.505		7.25	4.00	0.90	3.90	63.005	
63.505-120		7.25	4.00	1.20	3.90	63.005-120	
63.505-140		7.25	4.00	1.40	3.90	-	-

MSA	Acier/Steel	Ø mm	Ø W mm	Ø Tar./ Tap. mm	Hauteur tête/ Head height mm	MSA	Jaune/Yellow
63.558-090		8.00	4.20	0.90	4.50	63.058*	
63.558-110*		8.00	4.20	1.10	4.50	-	-
63.558-120		8.00	4.20	1.20	4.50	-	-
63.558-140		8.00	4.20	1.40	4.50	-	-
63.506		8.25	4.20	0.90	4.50	63.006	
63.506-120		8.25	4.20	1.20	4.50	63.006-120	
63.506-140		8.25	4.20	1.40	4.50	-	-
63.559-090		9.00	4.60	0.90	4.60	63.059	
63.559-140		9.00	4.60	1.40	4.60	-	-

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Assortiment de couronnes pour montres de poche couleur acier et jaunes ; acier inoxydable.

Assortiment of steel colour and yellow pocket watches crowns ; stainless steel.

Sortiment von Stahlfarbe und gelbe Kronen für Taschenuhren ; Edelstahl.

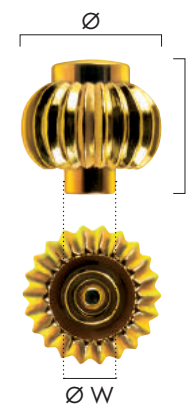
Surtido de coronas para relojes de bolsillo color acero y amarillas ; acero inoxidable.

Assortimento di corone per orologi da tasca colore acciaio e gialle ; acciaio inossidabile.

Sortido de coroas para relógios de bolso cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
2x MSA63.002 / .003 / .004 / .005 / .005-120 / .006 / .006-120 / .054 / .059 / .503 / .504 / .505 / .505-120 / .506 / .506-120 / .506-140 / .557 / .559-140

MSA	Qt.	Kg
99.255	36x	0.030



Couronnes pour montres de poche avec poussoir couleur acier et jaunes ; acier inoxydable.

Steel colour and yellow pocket watches crowns with pusher ; stainless steel.

Stahlfarbe und gelbe Kronen für Taschenuhren mit Drucker ; Edelstahl.

Coronas para relojes de bolsillo con pulsador color acero y amarillas ; acero inoxidable.

Corone per orologi da tasca con pulsante colore acciaio e gialle ; acciaio inossidabile.

Coroas para relógios de bolso com botão cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø W mm	Ø Tar./ Tap. mm	Hauteur tête/ Head height mm	MSA	Jaune/Yellow
63.650		4.00	2.80	0.90	2.35	63.150	
63.600		4.00	2.80	0.90	2.40	63.100	
63.700		4.00	2.80	0.90	2.50	63.200	
63.701		4.50	2.80	0.90	2.80	63.201	
63.601		4.50	3.20	0.90	2.70	63.101	
63.702*		5.00	2.80	0.90	2.95	63.202	
63.651		5.00	3.05	0.90	2.70	63.151	
63.652		5.00	3.10	0.90	2.40	63.152	
63.602		5.00	4.00	0.90	3.00	63.102	
63.703		6.00	4.20	0.90	3.40	63.203	
63.704		6.10	3.00	0.90	3.20	63.204	
63.653		6.50	4.00	0.90	3.20	63.153	
63.705		7.00	4.25	0.90	4.00	63.205	
63.654		7.25	4.10	0.90	3.90	63.154	
63.654-120		7.25	4.10	1.20	3.90	-	-
63.706		8.00	5.00	0.90	4.50	63.206	
63.655		8.25	4.25	0.90	4.35	63.155	
63.655-120		8.25	4.25	1.20	4.35	63.155-120	

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1

Assortiment de couronnes pour montres de poche avec poussoir couleur acier et jaunes ; acier inoxydable.

Assortment of steel colour and yellow pocket watches crowns with pusher ; stainless steel.

Sortiment von Stahlfarbe und gelbe Kronen für Taschenuhren mit Drucker ; Edelstahl.

Surtido de coronas para relojes de bolsillo con pulsador color acero y amarillas ; acero inoxidable.

Assortimento di corone per orologi da tasca con pulsante colore acciaio e gialle ; acciaio inossidabile.

Sortido de coroas para relógios de bolso com botão cor aço e amarelas ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
2x MSA63.100 /.101 /.102 /.151 /.152 /.153 /.154 /.155 /.204
/.600 /.602 /.652 /.653 /.654 /.655 /.655-120 /.704 /.706



MSA	Qt.	Kg
99.256	36x	0.030



Couronnes à vis couleur acier et jaunes avec tube et joint, **vissage externe** ; acier inoxydable.

Steel colour and yellow screw-on crowns with tube and gasket, **outside screwing** ; stainless steel.

Stahlfarbe und gelbe Schraubkronen mit Rohr und Dichtung, **aussen Gewinde** ; Edelstahl.

Coronas de rosca color acero y amarillas con tubo y junta, **rosca externa** ; acero inoxidable.

Corone a vite colore acciaio e gialle con tubo e guarnizione, **filettatura esterna** ; acciaio inossidabile.

Coroas de rosca cor aço e amarelas com tubo e junta, **rosca externa** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø M mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.534		3.50	2.85	1.60	0.90	-	-
60.537*		3.50	2.90	2.00	0.90	60.037*	
60.530		3.50	3.00	1.90	0.90	60.030	
60.522		3.50	3.00	1.90	0.90	60.022	
60.501		3.75	3.00	2.00	0.90	60.001	
60.533		4.00	2.85	2.00	0.90	60.033*	
60.502		4.00	3.00	2.00	0.90	60.002	
60.503		4.00	3.00	2.00	0.90	60.003	
60.504		4.50	3.00	2.00	0.90	60.004	
60.505		4.50	3.00	2.00	0.90	60.005	
-	-	4.50	3.40	1.80	0.90	60.029*	
-	-	4.50	3.40	2.00	0.90	60.032*	
60.526		4.50	3.50	2.50	0.90	60.026	
60.525		4.75	3.50	2.50	0.90	60.025	
-	-	4.75	Type P	2.50	0.90	60.045	-
60.506		5.00	3.00	2.20	0.90	60.006	
60.507		5.00	3.00	2.20	0.90	60.007	
-	-	5.00	3.40	2.20	0.90	60.035*	
60.514		5.00	3.50	2.50	0.90	60.014	
60.513		5.25	4.00	2.70	0.90	60.013	
60.518		5.25	Type B	-	0.90	60.018	
60.519		5.25	Type B	-	1.20	60.019	
60.515		5.30	4.00	2.80	0.90	60.015	
60.515-S		5.30	4.00	M4xM2.5	0.90	60.015-S	

MSA	Acier/Steel	Ø mm	Ø M mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.508		5.50	3.00	2.20	0.90	60.008	
60.509		6.00	3.00	2.20	0.90	60.009	
60.510		6.00	3.50	2.50	0.90	60.010	
60.528		6.00	4.00	2.70	0.90	60.028	
60.516		6.00	4.40	2.90	0.90	60.016	
60.516-S		6.00	4.40	M4.4xM3	0.90	60.016-S	
60.517		6.00	4.50	3.00	0.90	60.017*	
60.527		6.50	4.50	3.00	0.90	-	-

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Couronnes à vis couleur acier et jaunes avec tube en maillechort et joint, **vissage externe** ; acier inoxydable.

Steel colour and yellow screw-on crowns with nickel silver tube and gasket, **outside screwing** ; stainless steel.

Stahlfarbe und gelbe Schraubkronen mit Rohr aus Neusilber und Dichtung, **aussen Gewinde** ; Edelstahl.

Coronas de rosca color acero y amarillas con tubo en plata alemana y junta, **rosca externa** ; acero inoxidable.

Corone a vite colore acciaio e gialle con tubo in alpacca e guarnizione, **filettatura esterna** ; acciaio inossidabile.

Coroas de rosca cor aço e amarelas com tubo em níquel prateado e junta, **rosca externa** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø M1 mm	Ø M2 mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.515-T (1)		5.30	4.00	2.50	0.90	60.015-T (2)	
60.516-T (3)		6.00	4.40	3.00	0.90	60.016-T (4)	

Kg 0.001 1/1

(1) 1x MSA60.515 + 1x MSA65.003

(2) 1x MSA60.015 + 1x MSA65.003

(3) 1x MSA60.516 + 1x MSA65.005

(4) 1x MSA60.016 + 1x MSA65.005



MSA	Qt.	Kg
99.011	12x	0.025

Assortiment de couronnes à vis couleur acier et jaunes avec tube et joint, **vissage externe** ; acier inoxydable.

Assortiment of steel colour and yellow screw-on crowns with tube and gasket, **outside screwing** ; stainless steel.

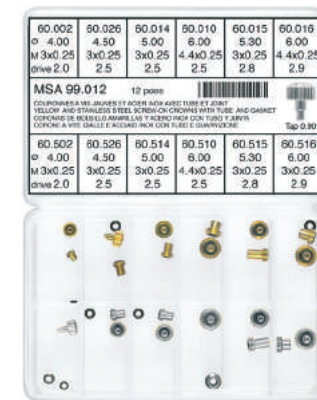
Sortiment von Stahlfarbe und gelbe Schraubkronen mit Rohr und Dichtung, **aussen Gewinde** ; Edelstahl.

Surtido de coronas de rosca color acero y amarillas con tubo y junta, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio e gialle con tubo e guarnizione, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço e amarelas com tubo e junta, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 12 modèles - models - Modelle - modelos - modelli - modelos 1x MSA60.002 /.003 /.004 /.016 /.022 /.502 /.503 /.504 /.505 /.506 /.516 /.522



MSA	Qt.	Kg
99.012	12x	0.025

Assortiment de couronnes à vis couleur acier et jaunes avec tube et joint, **vissage externe** ; acier inoxydable.

Assortiment of steel colour and yellow screw-on crowns with tube and gasket, **outside screwing** ; stainless steel.

Sortiment von Stahlfarbe und gelbe Schraubkronen mit Rohr und Dichtung, **aussen Gewinde** ; Edelstahl.

Surtido de coronas de rosca color acero y amarillas con tubo y junta, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio e gialle con tubo e guarnizione, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço e amarelas com tubo e junta, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 12 modèles - models - Modelle - modelos - modelli - modelos 1x MSA60.002 /.010 /.014 /.015 /.016 /.026 /.502 /.510 /.514 /.515 /.516 /.526



MSA	Qt.	Kg
99.047	76x	0.336

Assortiment de 76 couronnes à vis couleur acier et jaunes avec tubes et joints + 4 tubes spéciaux, **vissage externe** ; acier inoxydable.

Assortiment of 76 steel colour and yellow screw-on crowns with tubes and gaskets + 4 special tubes, **outside screwing** ; stainless steel.

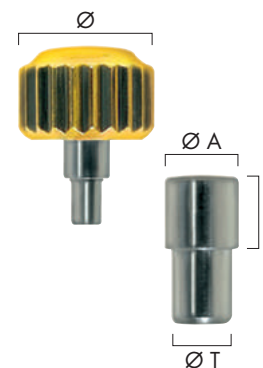
Sortiment von 76 Stahlfarbe und gelbe Schraubkronen mit Röhre und Dichtungen + 4 spezielle Röhre, **aussen Gewinde** ; Edelstahl.

Surtido de 76 coronas de rosca color acero y amarillas con tubos y juntas + 4 tubos especiales, **rosca externa** ; acero inoxidable.

Assortimento di 76 corone a vite colore acciaio e gialle con tubi e guarnizioni + 4 tubi speciali, **filettatura esterna** ; acciaio inossidabile.

Sortido de 76 coroa de rosca cor aço e amarelas com tubos e juntas + 4 tubos especiais, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
38 modèles - models - Modelle - modelos - modelli - modelos
2x MSA60.001 / .002 / .003 / .004 / .005 / .006 / .007 / .008 / .009 / .010 / .013 / .014 / .015 / .016 / .022 / .025 / .026 / .028 / .030 / .501 / .502 / .503 / .504 / .505 / .506 / .507 / .508 / .509 / .510 / .513 / .514 / .515 / .516 / .522 / .525 / .526 / .528 / .530
2x MSA65.001 / .002



Couronnes à vis couleur acier, noires et jaunes avec tube et joint, **vissage interne** ; acier inoxydable.

Steel colour, black and yellow screw-on crowns with tube and gasket, **inside screwing** ; stainless steel.

Stahlfarbe, schwarze und gelbe Schraubkronen mit Rohr und Dichtung, **innen Gewinde** ; Edelstahl.

Coronas de rosca color acero, negras y amarillas con tubo y junta, **rosca interna** ; acero inoxidable.

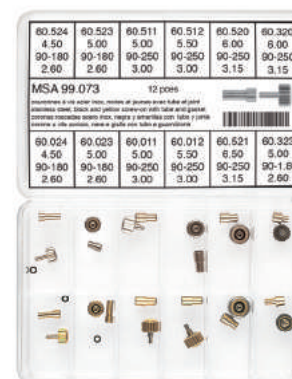
Corone a vite colore acciaio, nere e gialle con tubo e guarnizione, **filettatura interna** ; acciaio inossidabile.

Coroas de rosca cor aço, pretas e amarelas com tubo e junta, **rosca interna** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Top. mm	Ø A mm	L mm	MSA	Noir/Black	MSA	Jaune/Yellow
60.524		4.50	1.80	0.90	2.60	1.80	-	-	60.024	
60.523		5.00	1.80	0.90	2.60	1.80	60.323		60.023	
60.511		5.00	2.50	0.90	3.00	3.00	-	-	60.011	
60.512		5.50	2.50	0.90	3.00	2.90	-	-	60.012	
60.520		6.00	2.50	0.90	3.15	2.70	60.320		-	-
60.521		6.50	2.50	0.90	3.15	2.70	-	-	60.021	

Kg 0.001

1/1



MSA	Qt.	Kg
99.073	12x	0.025

Assortiment de couronnes à vis couleur acier, noires et jaunes avec tube et joint, **vissage interne** ; acier inoxydable.

Assortiment of steel colour, black and yellow screw-on crowns with tube and gasket, **inside screwing** ; stainless steel.

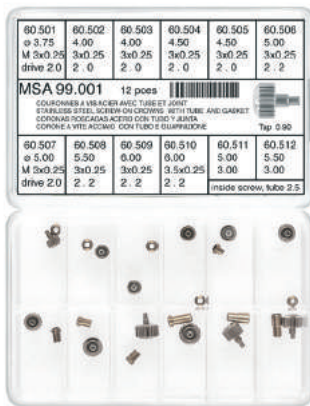
Sortiment von Stahlfarbe, schwarze und gelbe Schraubkronen mit Rohr und Dichtung, **innen Gewinde** ; Edelstahl.

Surtido de coronas de rosca color acero, negras y amarillas con tubo y junta, **rosca interna** ; acero inoxidable.

Assortimento di corone a vite colore acciaio, nere e gialle con tubo e guarnizione, **filettatura interna** ; acciaio inossidabile.

Sortido de coroa de rosca cor aço, pretas e amarelas com tubo e junta, **rosca interna** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
1x MSA60.011 / .012 / .023 / .024 / .320 / .323 / .511 / .512 / .520 / .521 / .523 / .524



MSA	Qt.	Kg
99.001	12x	0.025

Assortiment de couronnes à vis couleur acier avec tubes et joints, **vissage externe (10x) et interne (2x)** ; acier inoxydable.

Assortiment of steel colour screw-on crowns with tubes and gaskets, **outside (10x) and inside (2x) screwing** ; stainless steel.

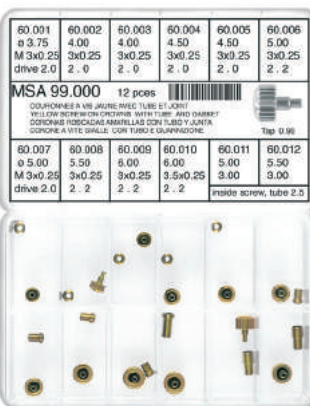
Sortiment von Stahlfarbe Schraubkronen mit Röhre und Dichtungen, **aussen (10x) und innen (2x) Gewinde** ; Edelstahl.

Surtido de coronas de rosca color acero con tubos y juntas, **rosca externa (10x) y interna (2x)** ; acero inoxidable.

Assortimento di corone a vite colore acciaio con tubi e guarnizioni, **filettatura esterna (10x) e interna (2x)** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço com tubos e juntas, **rosca externa (10x) e interna (2x)** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
1x MSA60.501 /.502 /.503 /.504 /.505 /.506 /.507 /.508 /.509
/.510 /.511 /.512



MSA	Qt.	Kg
99.000	12x	0.026

Assortiment de couronnes à vis jaunes avec tubes et joints, **vissage externe (10x) et interne (2x)** ; acier inoxydable.

Assortiment of yellow screw-on crowns with tubes and gaskets, **outside (10x) and inside (2x) screwing** ; stainless steel.

Sortiment von gelbe Schraubkronen mit Röhre und Dichtungen, **aussen (10x) und innen (2x) Gewinde** ; Edelstahl.

Surtido de coronas de rosca amarillas con tubos y juntas, **rosca externa (10x) y interna (2x)** ; acero inoxidable.

Assortimento di corone a vite gialle con tubi e guarnizioni, **filettatura esterna (10x) e interna (2x)** ; acciaio inossidabile.

Sortido de coroas de rosca amarelas com tubos e juntas, **rosca externa (10x) e interna (2x)** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
1x MSA60.001 /.002 /.003 /.004 /.005 /.006 /.007 /.008 /.009
/.010 /.011 /.012



MSA	Qt.	Kg
99.023	76x	0.336

Assortiment de 76 couronnes à vis couleur acier, noires et jaunes avec tubes et joints + 4 tubes spéciaux, **vissage externe (62x) et interne (14x)** ; acier inoxydable.

Assortiment of 76 steel colour, black and yellow screw-on crowns with tubes and gaskets + 4 special tubes, **outside (62x) and inside (14x) screwing** ; stainless steel.

Sortiment von 76 Stahlfarbe, schwarze und gelbe Schraubkronen mit Röhre und Dichtungen + 4 spezielle Röhre, **aussen (62x) und innen (14x) Gewinde** ; Edelstahl.

Surtido de 76 coronas de rosca color acero, negras y amarillas con tubos y juntas + 4 tubos especiales, **rosca externa (62x) y interna (14x)** ; acero inoxidable.

Assortimento di 76 corone a vite colore acciaio, nere e gialle con tubi e guarnizioni + 4 tubi speciali, **filettatura esterna (62x) e interna (14x)** ; acciaio inossidabile.

Sortido de 76 coroas de rosca cor aço, pretas e amarelas com tubos e juntas + 4 tubos especiais, **rosca externa (62x) e interna (14x)** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
39 modèles - models - Modelle - modelos - modelli - modelos
1x MSA60.019 /.519
2x MSA60.001 /.002 /.003 /.004 /.005 /.006 /.007 /.008 /.009 /.010 /.011 /.012 /.013 /.014
/.015 /.016 /.022 /.323 /.501 /.502 /.503 /.504 /.505 /.506 /.507 /.508 /.509 /.510 /.511 /.512
/.513 /.514 /.515 /.516 /.520 /.521 /.522
2x MSA65.001 /.002



Couronnes à vis couleur acier et jaunes sans tube ; acier inoxydable.
Steel colour and yellow screw-on crowns without tube ; stainless steel.
Stahlfarbe und gelbe Schraubkronen ohne Rohr ; Edelstahl.
Coronas de rosca color acero y amarillas sin tubo ; acero inoxidable.
Corone a vite colore acciaio e gialle senza tubo ; acciaio inossidabile.
Coroas de rosca cor aço e amarelas sem tubo ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	Type	MSA	Jaune/Yellow
60.551*		3.50	0.90	Type P	-	-
-	-	4.75	0.90	Type Z	60.055*	
-	-	5.25	0.90	Type C	60.065*	

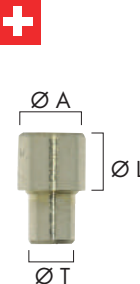
Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Couronne à vis jaune avec tube et joint, **vissage interne** ; acier inoxydable.
Yellow screw-on crown with tube and gasket, **inside screwing** ; stainless steel.
Gelbe Schraubkrone mit Rohr und Dichtung, **innen Gewinde** ; Edelstahl.
Corona de rosca amarilla con tubo y junta, **rosca interna** ; acero inoxidable.
Corona a vite gialla con tubo e guarnizione, **filettatura interna** ; acciaio inossidabile.
Coroa de rosca amarela com tubo e junta, **rosca interna** ; aço inoxidável.

MSA	Jaune/Yellow	Ø mm	Ø T mm	Ø Tar./Tap. mm	Ø A mm	L mm	Type
60.056		3.50	2.00	0.90	2.60	1.90	Type Z

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Couronne à vis couleur acier avec tube, **vissage interne** ; acier inoxydable.
Steel colour screw-on crown with tube, **inside screwing** ; stainless steel.
Stahlfarbe Schraubkrone mit Rohr, **innen Gewinde** ; Edelstahl.
Corona de rosca color acero con tubo, **rosca interna** ; acero inoxidable.
Corona a vite colore acciaio con tubo, **fi**

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	Ø A mm	L mm
60.548		6.00	2.20	0.90	3.20	2.90

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



Couronnes à vis couleur acier et jaunes avec tube et joint, **vissage externe** ; acier inoxydable.

Steel colour and yellow screw-on crowns with tube and gasket, **outside screwing** ; stainless steel.

Stahlfarbe und gelbe Schraubkronen mit Rohr und Dichtung, **aussen Gewinde** ; Edelstahl.

Coronas de rosca color acero y amarillas con tubo y junta, **rosca externa** ; acero inoxidable.

Corone a vite colore acciaio e gialle con tubo e guarnizione, **filettatura esterna** ; acciaio inossidabile.

Coroas de rosca cor aço e amarelas com tubo e junta, **rosca externa** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø M mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.700		3.50	3.00	1.90	0.90	60.600	
60.701		3.75	3.00	2.00	0.90	60.601	
60.702		4.00	3.00	2.00	0.90	60.602	
60.703		4.50	3.00	2.00	0.90	60.603	
60.704		4.50	3.50	2.50	0.90	60.604	
60.705		4.75	3.50	2.50	0.90	60.605	
60.706		4.75	4.00	2.50	0.90	60.606	
60.707		5.00	3.00	2.00	0.90	60.607	
60.708		5.30	4.00	2.80	0.90	60.608	
60.709		5.50	3.50	2.50	0.90	60.609	
60.710		6.00	3.50	2.50	0.90	60.610	
60.711		6.00	4.00	2.70	0.90	60.611	
60.712		6.50	4.00	2.70	0.90	60.612	
60.713		7.00	4.00	2.70	0.90	60.613	
60.714		7.00	4.50	2.30	0.90	60.614	
60.715		7.00	4.50	2.50	0.90	60.615	

MSA	Acier/Steel	Ø mm	Ø M mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.716		7.50	4.50	2.50	0.90	-	-
60.717		8.00	5.00	2.80	0.90	-	-
60.718		8.50	5.00	3.00	0.90	-	-
60.719		9.00	5.00	3.00	0.90	-	-
60.720		9.50	5.00	3.00	0.90	-	-
60.721		10.00	5.00	3.00	0.90	-	-

Kg 0.001

1/1



MSA	Qt.	Kg
99.243	12x	0.025

Assortiment de couronnes à vis couleur acier avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of steel colour screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

Sortiment von Stahlfarbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca color acero con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 6 modèles - models - Modelle - modelos - modelli - modelos 2x MSA60.700 /.701 /.702 /.703 /.707 /.708



MSA	Qt.	Kg
99.246	20x	0.045

Assortiment de couronnes à vis couleur acier avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of steel colour screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

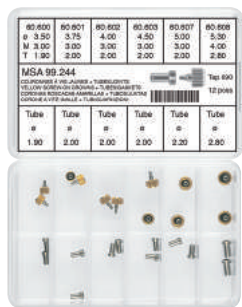
Sortiment von Stahlfarbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca color acero con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 10 modèles - models - Modelle - modelos - modelli - modelos 2x MSA60.704 /.705 /.706 /.709 /.710 /.711 /.712 /.713 /.714 /.715



MSA	Qt.	Kg
99.244	12x	0.025

Assortiment de couronnes à vis jaunes avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of yellow screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

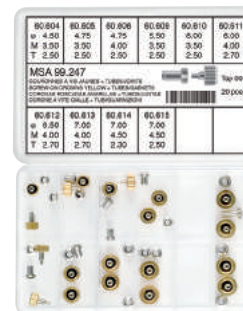
Sortiment von gelbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca amarillas con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite gialle con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca amarelas com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 6 modèles - models - Modelle - modelos - modelli - modelos 2x MSA60.600 /.601 /.602 /.603 /.607 /.608



MSA	Qt.	Kg
99.247	20x	0.045

Assortiment de couronnes à vis jaunes avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of yellow screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

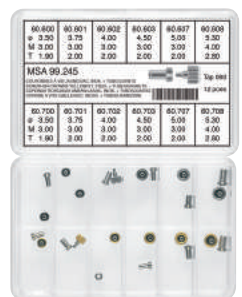
Sortiment von gelbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca amarillas con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite gialle con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca amarelas com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 10 modèles - models - Modelle - modelos - modelli - modelos 2x MSA60.604 /.605 /.606 /.609 /.610 /.611 /.612 /.613 /.614



MSA	Qt.	Kg
99.245	12x	0.025

Assortiment de couronnes à vis couleur acier et jaunes avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of steel colour and yellow screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

Sortiment von Stahlfarbe und gelbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca color acero y amarillas con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio e gialle con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço e amarelas com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 12 modèles - models - Modelle - modelos - modelli - modelos 1x MSA60.600 /.601 /.602 /.603 /.607 /.608 /.700 /.701 /.702 /.703 /.707 /.708



MSA	Qt.	Kg
99.248	20x	0.045

Assortiment de couronnes à vis couleur acier et jaunes avec tubes et joints, **vissage externe** ; acier inoxydable.

Assortment of steel colour and yellow screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.

Sortiment von Stahlfarbe und gelbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.

Sortido de coronas de rosca color acero y amarillas con tubos y juntas, **rosca externa** ; acero inoxidable.

Assortimento di corone a vite colore acciaio e gialle con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.

Sortido de coroas de rosca cor aço e amarelas com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 20 modèles - models - Modelle - modelos - modelli - modelos 1x MSA60.604 /.605 /.606 /.609 /.610 /.611 /.612 /.613 /.614 /.615

60.710	60.711	60.712	60.713	60.714	60.715
ø 6.00	6.00	6.50	7.00	7.00	7.00
M 3.50	4.00	4.00	4.00	4.50	4.50
T 2.50	2.70	2.70	2.70	2.30	2.50

MSA 99.249
COURONNES À VIS AVEC TUBE+JOINT. AC. INOX Tap 090
SCREW-ON CROWNS WITH TUBE+GASKET. ST. STEEL 24 p009
CORONAS ROSCADAS CON TUBO+JUNTA. AC. INOX
CORONE A VITE CON TUBO+GUARNIZIONE. ACC. INOX

60.716	60.717	60.718	60.719	60.720	60.721
ø 7.50	8.00	8.50	9.00	9.50	10.00
M 4.50	5.00	5.00	5.00	5.00	5.00
T 2.50	2.80	3.00	3.00	3.00	3.00

MSA	Qt.	Kg
99.249	24x	0.050

Assortiment de couronnes à vis couleur acier avec tubes et joints, **vissage externe** ; acier inoxydable.
Assortment of steel colour screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.
Sortiment von Stahlfarbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.
Surtido de coronas de rosca color acero con tubos y juntas, **rosca externa** ; acero inoxidable.
Assortimento di corone a vite colore acciaio con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.
Sortido de coroas de rosca cor aço com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA60.710 /.711 /.712 /.713 /.714 /.715 /.716 /.717 /.718 /.719 /.720 /.721



Couronnes à vis couleur acier et jaunes avec tube et joint, **vissage externe** ; palladium.

Steel colour and yellow screw-on crowns with tube and gasket, **outside screwing** ; palladium.

Stahlfarbe und gelbe Schraubkronen mit Rohr und Dichtung, **aussen Gewinde** ; Palladium.

Coronas de rosca color acero y amarillas con tubo y junta, **rosca externa** ; paladio.

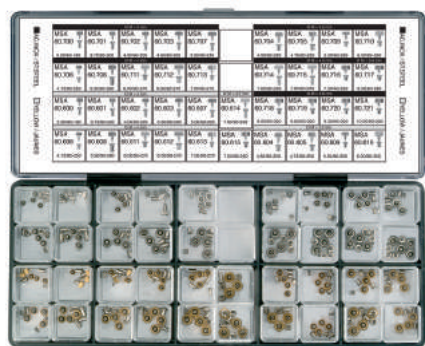
Corone a vite colore acciaio e gialle con tubo e guarnizione, **filettatura esterna** ; palladio.

Coroas de rosca cor aço e amarelas com tubo e junta, **rosca externa** ; paládio.

MSA	Acier/Steel	Ø mm	Ø M mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
60.930*		3.50	3.00	1.90	0.90	60.830*	
60.901*		3.75	3.00	2.00	0.90	60.801*	
60.902*		4.00	3.00	2.00	0.90	60.802*	
60.904*		4.50	3.00	2.00	0.90	60.804*	
60.926*		4.50	3.50	2.50	0.90	60.826*	
60.925*		4.75	3.50	2.50	0.90	60.825*	
60.945*		4.75	4.00	2.50	0.90	60.845*	
60.906*		5.00	3.00	2.00	0.90	60.806*	
60.915*		5.30	4.00	2.80	0.90	60.815*	
60.960*		5.50	3.50	2.50	0.90	60.860*	
60.910*		6.00	3.50	2.50	0.90	60.810*	
60.928*		6.00	4.00	2.70	0.90	60.828*	
60.961*		6.50	4.00	2.70	0.90	60.861*	
60.962*		7.00	4.00	2.70	0.90	60.862*	
60.964*		7.00	4.50	2.30	0.90	60.864*	
60.963*		7.00	4.50	2.50	0.90	60.863*	

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock

1/1



MSA	Qt.	Kg
99.250	152x	0.490

Assortiment de couronnes à vis couleur acier et jaunes avec tubes et joints, **vissage externe** ; acier inoxydable.
Assortment of steel colour and yellow screw-on crowns with tubes and gaskets, **outside screwing** ; stainless steel.
Sortiment von Stahlfarbe und gelbe Schraubkronen mit Röhre und Dichtungen, **aussen Gewinde** ; Edelstahl.
Surtido de coronas de rosca color acero y amarillas con tubos y juntas, **rosca externa** ; acero inoxidable.
Assortimento di corone a vite colore acciaio e gialle con tubi e guarnizioni, **filettatura esterna** ; acciaio inossidabile.
Sortido de coroas de rosca cor aço e amarelas com tubos e juntas, **rosca externa** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
38 modèles - models - Modelle - modelos - modelli - modelos
4x MSA60.600 /.601 /.602 /.603 /.604 /.605 /.606 /.607 /.608 /.609 /.610 /.611 /.612 /.613
/.614 /.615 /.700 /.701 /.702 /.703 /.704 /.705 /.706 /.707 /.708 /.709 /.710 /.711 /.712 /.713
/.714 /.715 /.716 /.717 /.718 /.719 /.720 /.721



Type ZN

Couronnes antipoussière couleur acier, jaunes et roses ; acier inoxydable.
 Steel colour, yellow and pink dustproof crowns ; stainless steel.
 Stahlfarbe, gelbe und rosa staubgeschützte Kronen ; Edelstahl.
 Coronas antipolvo color acero, amarillas y rosadas ; acero inoxidable.
 Corone antipolvere colore acciaio, gialle e rosa ; acciaio inossidabile.
 Coroas anti-poeira cor aço, amarelas e cor de rosa ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow	MSA	Rose/Pink
-	-	3.00	0.90	85.001		-	-
85.042		3.50	0.90	85.002		85.082	
85.043		3.75	0.90	85.003		85.083	
85.044		4.00	0.90	85.004		85.084	
-	-	4.00	1.00	85.007		-	-
85.045		4.50	0.90	85.005		85.085	
-	-	4.50	1.00	85.008		85.088	
85.046		5.00	0.90	85.006		85.086	
-	-	5.00	1.00	85.009		85.089	

Kg 0.001

1/1



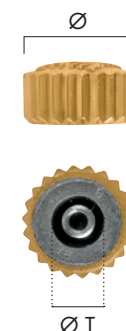
Type ZN

Couronnes chrono couleur acier, jaune et rose ; acier inoxydable.
 Steel colour, yellow and pink chrono crowns ; stainless steel.
 Stahlfarbe, gelb und rosa Chrono Kronen ; Edelstahl.
 Coronas crono color acero, amarilla y rosada ; acero inoxidable.
 Corone crono colore acciaio, gialla e rosa ; acciaio inossidabile.
 Coroas crono cor aço, amarela e cor de rosa ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow	MSA	Rose/Pink
85.050		5.70	1.20	85.010		85.090	

Kg 0.001

1/1



Type ZN

Couronnes étanches couleur acier, jaunes et roses ; acier inoxydable.
 Steel colour, yellow and pink waterproof crowns ; stainless steel.
 Stahlfarbe, gelbe und rosa wasserdichte Kronen ; Edelstahl.
 Coronas herméticas color acero, amarillas y rosadas ; acero inoxidable.
 Corone impermeabili colore acciaio, gialle e rosa ; acciaio inossidabile.
 Coroas estanques cor aço, amarelas e cor de rosa ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow	MSA	Rose/Pink
-	-	3.50	2.00	0.90	85.011		-	-
85.052		4.00	2.00	0.90	85.012		85.092	
85.053		4.50	2.00	0.90	85.013		85.093	
85.054		4.50	2.50	0.90	85.014		85.094	
85.055		5.00	2.00	0.90	85.015		85.095	
85.056		5.00	2.50	0.90	85.016		85.096	
85.057		5.00	2.50	1.00	-	-	-	-

Kg 0.001

1/1



Type MD

Couronnes + tigeons couleur acier et jaunes ; acier inoxydable.
 Steel colour and yellow crowns + pivot-shanks ; stainless steel.
 Stahlfarbe und gelbe Kronen + Tigeons ; Edelstahl.
 Coronas + tijitas color acero y amarillas ; acero inoxidable.
 Corone + alberi a strappo colore acciaio e gialle ; acciaio inossidabile.
 Coroas + tiginhas cor aço e amarelas ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø Tar./Tap. mm	MSA	Jaune/Yellow
85.401		4.25	0.90	85.451	
85.400		4.40	0.90	85.450	
85.400-S*		4.40	0.90	85.450-S	
-	-	4.40	0.90	85.452	
56.500-8479**		Longueur/Length : 3 mm			





Kg 0.001 * Sans tigeons / Without pivot-shanks / Ohne Tigeons / Sin tijitas / Senza alberi / Sem tiginhas

1/1



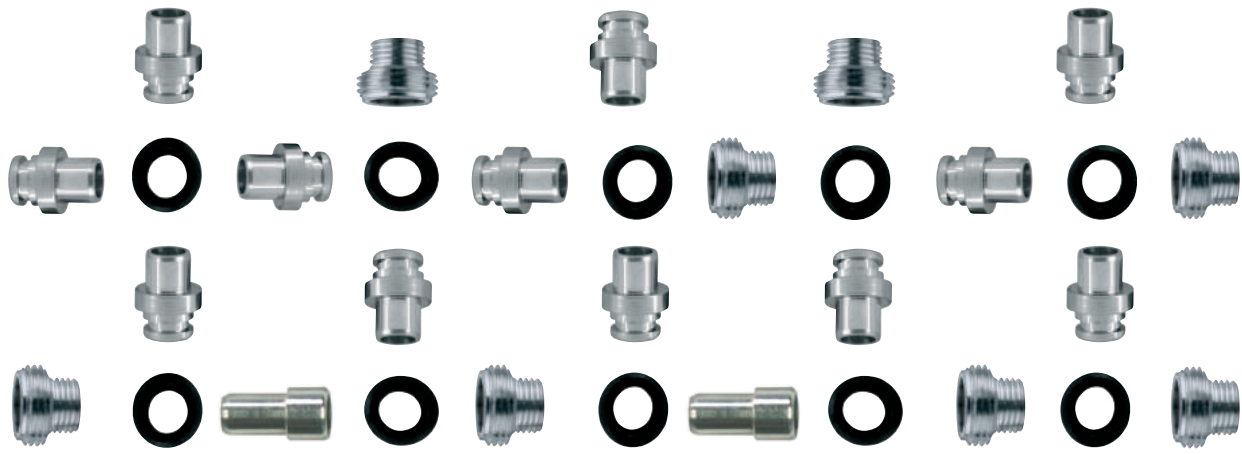
1000
pcs

Couronnes de travail ; blanches et jaunes.
 Working crowns ; white and yellow.
 Arbeitskronen ; weisse und gelbe.
 Coronas de trabajo ; blancas y amarillas.
 Corone di lavoro ; bianche e gialle.
 Coroas de trabalho ; brancas e amarelas.

MSA	1/1	Ø mm	Ø Tar./Tap. mm	Kg
87.000-070		5.00	0.70	0.060
87.000-080		5.00	0.80	0.060
87.000-090		5.00	0.90	0.060
87.000-120		5.00	1.20	0.060

Kg 0.001

1/1



TUBES TUBES RÖHRE TUBOS TUBI TUBOS

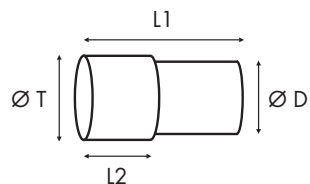
Tubes pour boîtes et couronnes
Tubes for cases and crowns
 Röhre für Gehäuse und Kronen
Tubos para cajas y coronas
 Tubi per casse e corone
Tubos para caixas e coroas



Tubes pour couronnes à vis et joints
Tubes for screw-on crowns and gaskets
 Röhre für Schraubkronen und Dichtungen
Tubos para coronas de rosca y juntas
 Tubi per corone a vite e guarnizioni
Tubos para coroas de rosca e juntas



100 pcs



Tubes en acier inoxydable pour boîtes étanches.

Stainless steel tubes for waterproof cases.

Röhre aus Edelstahl für wasserdichte Gehäuse.

Tubos en acero inoxidable para cajas herméticas.

Tubi in acciaio inossidabile per casse impermeabili.

Tubos em aço inoxidável para caixas estanques.

MSA	Ø T mm	Ø D mm	L1 mm	L2 mm	Kg
47.003-25A	1.30	-	2.00	-	0.001
47.003-34	1.50	1.40	2.40	1.20	0.001
47.003-35	1.50	1.40	2.50	1.20	0.001
47.003-27	1.60	1.50	2.20	1.20	0.001
47.003-29	1.60	1.50	2.30	1.20	0.002
47.003-30	1.60	1.50	2.40	1.20	0.002
47.003-26	1.60	1.50	2.50	1.20	0.002
47.003-33	1.60	1.50	2.60	1.40	0.002
47.003-28	1.60	1.50	2.70	1.20	0.002
47.003-31	1.60	1.50	2.70	1.40	0.002
47.003-32	1.60	1.50	3.00	1.40	0.002
47.003-36A	1.80	1.60	2.80	1.50	0.002
47.003-13	2.00	1.80	2.40	1.15	0.003
47.003-15	2.00	1.80	2.40	1.50	0.003
47.003-14	2.00	1.80	2.80	1.15	0.003
47.003-16	2.00	1.80	3.30	1.50	0.003
47.003-17	2.00	1.80	3.90	1.50	0.004
47.003-18	2.00	1.80	4.50	1.50	0.004

MSA	Ø T mm	Ø D mm	L1 mm	L2 mm	Kg
47.003-21	2.00	1.90	3.00	1.50	0.004
47.003-19	2.00	1.90	3.30	1.15	0.004
47.003-22	2.00	1.90	3.60	1.50	0.004
47.003-20	2.00	1.90	3.80	1.15	0.004
47.003-23	2.00	1.90	4.20	1.50	0.005
47.003-24	2.00	1.90	4.80	1.50	0.005
47.003-01	2.50	1.90	3.20	1.90	0.005
47.003-02	2.50	1.90	3.85	1.90	0.005
47.003-03	2.50	1.90	4.95	1.90	0.006
47.003-04	2.50	1.90	5.05	1.90	0.006
47.003-05	2.50	2.00	3.55	1.90	0.006
47.003-06	2.50	2.00	4.25	1.90	0.006
47.003-07	2.50	2.00	4.45	1.90	0.006
47.003-08	2.50	2.00	4.75	1.90	0.006
47.003-09	2.50	2.20	3.20	1.90	0.006
47.003-10	2.50	2.20	3.50	1.90	0.006
47.003-11	2.50	2.20	4.05	1.90	0.007
47.003-12	2.50	2.20	4.35	1.90	0.008



MSA	Qt.	Kg
47.002	144x	0.029

Ø T 1.30 - 1.50 - 1.60 - 1.80 mm

Assortiment de tubes en acier inoxydable pour boîtes étanches.

Assortment of stainless steel tubes for waterproof cases.

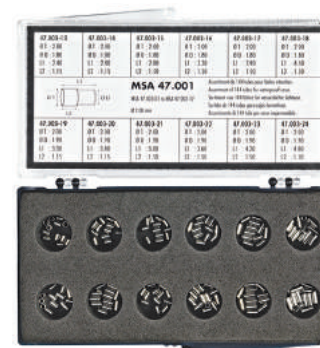
Sortiment von Röhre aus Edelstahl für wasserdichte Gehäuse.

Surtido de tubos en acero inoxidable para cajas herméticas.

Assortimento di tubi in acciaio inossidabile per casse impermeabili.

Sortido de tubos em aço inoxidável para caixas estanques.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
12x MSA47.003-25A /-26 /-27 /-28 /-29 /-30 /-31 /-32 /-33
/-34 /-35 /-36A



MSA	Qt.	Kg
47.001	144x	0.033

Ø T 2.00 mm

Assortiment de tubes en acier inoxydable pour boîtes étanches.

Assortment of stainless steel tubes for waterproof cases.

Sortiment von Röhre aus Edelstahl für wasserdichte Gehäuse.

Surtido de tubos en acero inoxidable para cajas herméticas.

Assortimento di tubi in acciaio inossidabile per casse impermeabili.

Sortido de tubos em aço inoxidável para caixas estanques.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
12x MSA47.003-13 /-14 /-15 /-16 /-17 /-18 /-19 /-20 /-21 /-22
/-23 /-24



MSA	Qt.	Kg
47.000	144x	0.036

Ø T 2.50 mm

Assortiment de tubes en acier inoxydable pour boîtes étanches.

Assortment of stainless steel tubes for waterproof cases.

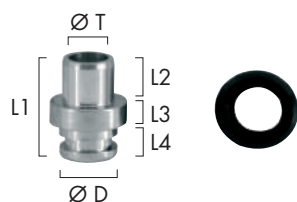
Sortiment von Röhre aus Edelstahl für wasserdichte Gehäuse.

Surtido de tubos en acero inoxidable para cajas herméticas.

Assortimento di tubi in acciaio inossidabile per casse impermeabili.

Sortido de tubos em aço inoxidável para caixas estanques.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
12x MSA47.003-01 /-02 /-03 /-04 /-05 /-06 /-07 /-08 /-09 /-10
/-11 /-12



Tube spécial en acier inoxydable pour couronnes, avec joint MSA43.006.

Stainless steel special crown tube, with gasket MSA43.006.

Spezieller Rohr aus Edelstahl für Kronen, mit Dichtung MSA43.006.

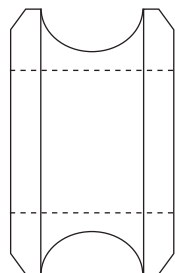
Tubo especial en acero inoxidable para coronas, con junta MSA43.006.

Tubo speciale in acciaio inossidabile per corone, con guarnizione MSA43.006.

Tubo especial em aço inoxidável para coroas, com junta MSA43.006.

MSA	1/1	Ø T mm	Ø D mm	L1 mm	L2 mm	L3 mm	L4 mm	Kg
47.101		1.20	1.20	3.50	1.50	0.80	1.20	0.001

10 pcs



Joint pour tube spécial en acier inoxydable MSA47.101 ; sachet de 10 pièces.

Gasket for stainless steel special tube MSA47.101 ; bag of 10 pieces.

Dichtung für spezieller Rohr aus Edelstahl MSA47.101 ; Beutel von 10 Stück.

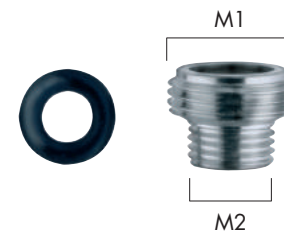
Junta para tubo especial en acero inoxidable MSA47.101 ; bolsita de 10 piezas.

Guarnizione per tubo speciale in acciaio inossidabile MSA47.101 ; bustina di 10 pezzi.

Junta para tubo especial em aço inoxidável MSA47.101 ; saquinho de 10 peças.

MSA	1/1	Kg
43.006		0.001

» Voir le chapitre complet des JOINTS, , pages 1-1... 1-22.
 See the complete chapter of GASKETS, pages 1-1... 1-22.
 Siehe das vollständige Kapitel der DICHTUNGEN, Seiten 1-1... 1-22.
 Ver el capítulo completo de las JUNTAS, páginas 1-1... 1-22.
 Vedere il capitolo completo delle GUARNIZIONI, pagine 1-1... 1-22.
 Ver o capítulo completo das JUNTAS, páginas 1-1... 1-22.



Tubes en maillechort avec joints pour couronnes à vis.

Nickel silver tubes with gaskets for screw-on crowns.

Röhre aus Neusilber mit Dichtungen für Schraubkronen.

Tubos en plata alemana con juntas para coronas de rosca.

Tubi in alpacca con guarnizioni per corone a vite.

Tubos em níquel prateado com juntas para coroas de rosca.

MSA	1/1	Type	Ø M1 mm	Ø M2 mm	Forme/Shape
65.001		Dame/Lady	4.00	2.50	
65.003		Dame/Lady	4.00	2.50	
65.004		Dame/Lady	4.00	2.50	
65.002		Homme/Gent	4.40	3.00	
65.005		Homme/Gent	4.40	3.00	
65.006		Homme/Gent	4.40	3.00	
65.007*		Homme/Gent	5.00	3.00	

Kg 0.001

* Livré avec 3 joints ; 1x MSA43.104 et 2x MSA43.103

Delivered with 3 gaskets ; 1x MSA43.104 and 2x MSA43.103

Mit 3 Dichtungen geliefert ; 1x MSA43.104 und 2x MSA43.103

Suministrado con 3 juntas ; 1x MSA43.104 y 2x MSA43.103

Consegnato con 3 guarnizioni ; 1x MSA43.104 e 2x MSA43.103

Entregue com 3 juntas ; 1x MSA43.104 e 2x MSA43.103

MSA	1/1	Ø mm x mm	Tubes
65.003-A		1.40 x 0.70	MSA65.003
65.004-A		1.40 x 0.70	MSA65.004
65.001-A		1.50 x 0.75	MSA65.001
65.002-A		1.70 x 0.80	MSA65.002
65.005-A		1.70 x 0.80	MSA65.005
65.006-A		1.70 x 0.80	MSA65.006

Kg 0.001



Joints pour tubes.






Gaskets for tubes.

Dichtungen für Röhre.

Juntas para tubos.


Guarnizioni per tubi.

Juntas para tubos.

MSA	1/1	Ø mm
MSA43.100		5.30
MSA43.101		6.00
MSA43.102		7.00
MSA43.103		7.03
MSA43.104		7.03

Kg 0.001

Joints ronds pour tubes à vis.
Round gaskets for screw-on tubes.
 Runddichtungen für Schraubröhre.
Juntas redondas para tubos de rosca.
 Guarnizioni tonde per tubi a vite.
Juntas redondas para tubos de rosca.

MSA	1/1	Ø mm
65.004-R		3

Kg 0.001

Rondelle pour tubes MSA65.004.
Washer for tubes MSA65.004.
 Scheibe für Röhre MSA65.004.
Arandela para tubos MSA65.004.
 Rondella per tubi MSA65.004.
Rodela para tubos MSA65.004.

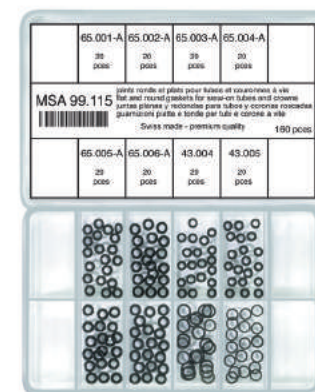


MSA	Qt.	Kg
99.218	14x	0.029



Assortiment de tubes en maillechort avec joints pour couronnes à vis.
Assortment of nickel silver tubes with gaskets for screw-on crowns.
 Sortiment von Röhre aus Neusilber mit Dichtungen für Schraubkronen.
Surtido de tubos en plata alemana con juntas para coronas de rosca.
 Assortimento di tubi in alpacca con guarnizioni per corone a vite.
Sortido de tubos em níquel prateado com juntas para coroas de rosca.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
7 modèles - models - Modelle - modelos - modelli - modelos
2x MSA65.001 /.002 /.003 /.004 /.005 /.006 /.007



MSA	Qt.	Kg
99.115	160x	0.025

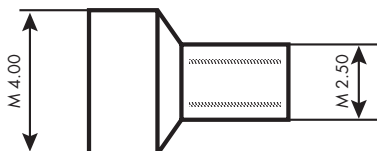


Assortiment de joints plats et ronds pour tubes et couronnes à vis.
Assortment of flat and round gaskets for screw-on tubes and crowns.
 Sortiment von Flach- und Runddichtungen für Schraubröhre und -kronen.
Surtido de juntas planas y redondas para tubos y coronas de rosca.
 Assortimento di guarnizioni piatte e tonde per tubi e corone a vite.
Sortido de juntas planas e redondas para tubos e coroas de rosca.

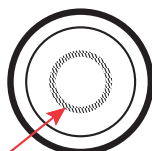
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
8 modèles - models - Modelle - modelos - modelli - modelos
20x MSA43.004 /.005 /65.001-A /.002-A /.003-A /.004-A
/.005-A /.006-A

Outils Tools Werkzeuge
Herramientas Utensili Ferramentas

MSA 65.001 Lady 5.30



MSA 03.665-01



Montre ancienne avec tube ancien.

Old watch with old tube.

Alte Uhr mit altem Rohr.

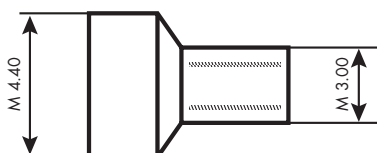
Reloj antiguo con tubo antiguo.

Orologio antico con tubo antico.

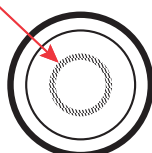
Relógio antigo com tubo antigo.

Fluted*

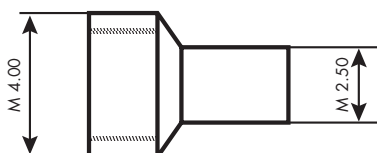
MSA 65.002 Gent 6.00



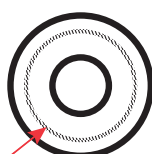
MSA 03.665-02



MSA 65.003 Lady 5.30



MSA 03.665-03



Montre ancienne avec tube nouveau.

Old watch with new tube.

Alte Uhr mit neuem Rohr.

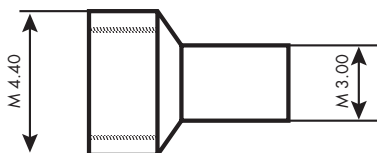
Reloj antiguo con tubo nuevo.

Orologio antico con tubo nuovo.

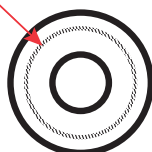
Relógio antigo com tubo novo.

Fluted*

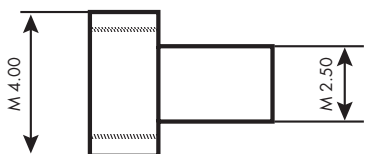
MSA 65.005 Gent 6.00



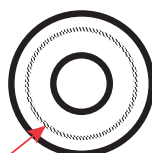
MSA 03.665-05



MSA 65.004 Lady 5.30



MSA 03.665-04



Montre nouvelle avec tube nouveau.

New watch with new tube.

Neue Uhr mit neuem Rohr.

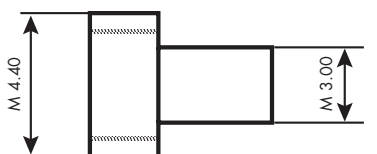
Reloj nuevo con tubo nuevo.

Orologio nuovo con tubo nuovo.

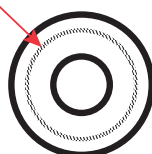
Relógio novo com tubo novo.

Fluted*

MSA 65.006 Gent 6.00



MSA 03.665-06



*Fluted : cannelé - geriffelt - estriado - zigrinato - estriado



POUSOIRS

PUSHERS

DRÜCKER

PULSADORES

PULSANTI

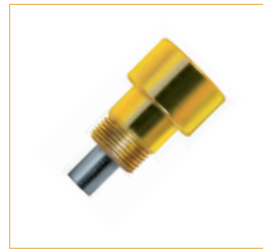
BOTÕES

Poussoirs à chasser
Press-in pushers
Drücker zum einpressen
Pulsadores a presión
Pulsanti a pressione
Botões de pressão



2

Poussoirs à visser
Screw-on pushers
Drücker zum schrauben
Pulsadores de rosca
Pulsanti a vite
Botões de rosca



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Poussoirs rectangulaires
Rectangular pushers
Rechteckiger Drücker
Pulsadores rectangulares
Pulsanti rettangolari
Botões rectangulares

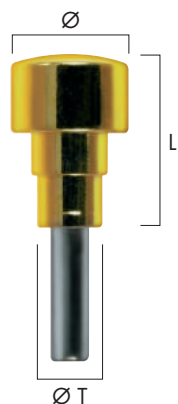


11

Poussoirs spéciaux
Special pushers
Spezielle Drücker
Pulsadores especiales
Pulsanti speciali
Botões especiais



12



Poussoirs à chasser étanches couleur acier, jaunes et roses, **forme cylindrique** ; acier inoxydable.

Steel colour, yellow and pink waterproof press-in pushers, **cylindrical shape** ; stainless steel.

Stahlfarbe, gelbe und rosa wasserdichte Drücker zum einpressen, **zylindrische Form** ; Edelstahl.

Pulsadores a presión herméticos color acero, amarillos y rosados, **forma cilíndrica** ; acero inoxidable.

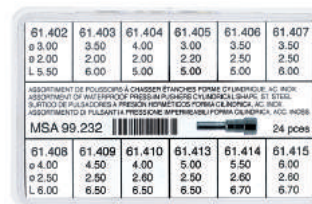
Pulsanti impermeabili a pressione colore acciaio, gialli e rosa, **forma cilindrica** ; acciaio inossidabile.

Botões à pressão estanques cor aço, amarelos e cor de rosa, **forma cilíndrica** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	L mm	MSA	Jaune/ Yellow	MSA	Rose/ Pink
61.401		2.30	1.80	5.50	61.801		-	-
61.402		3.00	2.00	5.50	61.802		-	-
61.405		3.00	2.20	5.00	61.805		-	-
61.403		3.50	2.00	6.00	61.803		-	-
61.406		3.50	2.50	5.00	61.806		-	-
61.407		3.50	2.50	6.00	61.807		-	-
-	-	4.00	1.50	6.10	-	-	61.908	
61.404		4.00	2.00	5.00	61.804		-	-
61.408		4.00	2.50	6.00	61.808		-	-
61.410		4.00	2.60	6.50	61.810		-	-
-	-	4.50	1.50	6.60	-	-	61.909	
61.409		4.50	2.50	6.50	61.809		-	-
61.413		5.00	2.50	6.50	61.813		-	-
61.414		5.50	2.60	6.70	61.814		-	-
61.415		6.00	2.60	6.70	61.815		-	-

Kg 0.001

1/1



Assortiment de poussoirs à chasser étanches couleur acier, **forme cylindrique** ; acier inoxydable.

Assortment of steel colour waterproof press-in pushers, **cylindrical shape** ; stainless steel.

Sortiment von Stahlfarbe wasserdichte Drücker zum einpressen, **zylindrische Form** ; Edelstahl.

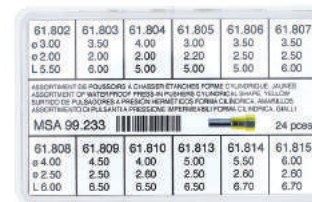
Surtido de pulsadores a presión herméticos color acero, **forma cilíndrica** ; acero inoxidable.

Assortimento di pulsanti impermeabili a pressione colore acciaio, **forma cilindrica** ; acciaio inossidabile.

Sortido de botões à pressão estanques cor aço, **forma cilíndrica** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.402 / .403 / .404 / .405 / .406 / .407 / .408 / .409 / .410 / .413 / .414 / .415

MSA	Qt.	Kg
99.232	24x	0.025



Assortiment de poussoirs à chasser étanches jaunes, **forme cylindrique** ; acier inoxydable.

Assortment of yellow waterproof press-in pushers, **cylindrical shape** ; stainless steel.

Sortiment von gelbe wasserdichte Drücker zum einpressen, **zylindrische Form** ; Edelstahl.

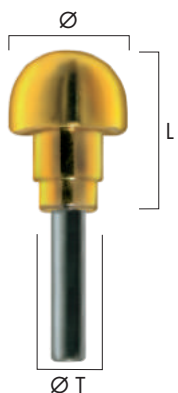
Surtido de pulsadores a presión herméticos amarillos, **forma cilíndrica** ; acero inoxidable.

Assortimento di pulsanti impermeabili a pressione gialli, **forma cilindrica** ; acciaio inossidabile.

Sortido de botões à pressão estanques amarelos, **forma cilíndrica** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.802 / .803 / .804 / .805 / .806 / .807 / .808 / .809 / .810 / .813 / .814 / .815

MSA	Qt.	Kg
99.233	24x	0.025



Poussoirs à chasser étanches couleur acier et jaunes, **forme demi-boule** ; acier inoxydable.

Steel colour and yellow waterproof press-in pushers, **domed shape** ; stainless steel.

Stahlfarbe und gelbe wasserdichte Drücker zum einpressen, **Halbkugel Form** ; Edelstahl.

Pulsadores a presión herméticos color acero y amarillos, **forma media bola** ; acero inoxidable.

Pulsanti impermeabili a pressione colore acciaio e gialli, **forma demiboule** ; acciaio inossidabile.

Botões de pressão estanques cor aço e amarelos, **forma meia bola** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	L mm	MSA	Jaune/Yellow
61.601		3.00	1.80	4.30	61.101	
61.602		3.00	2.00	4.80	61.102	
61.603		3.00	2.00	5.00	61.103	
61.604		3.00	2.00	5.10	61.104	
61.605		3.00	2.00	5.25	61.105	
61.606		3.00	2.00	5.60	61.106	
61.607		3.50	2.00	5.20	61.107	
61.608		3.50	2.00	5.60	61.108	
61.609		3.50	2.00	6.10	61.109	
61.654		3.50	2.20	5.50	61.154	
61.655		3.50	2.50	5.20	61.155	
61.651		4.00	2.00	4.90	61.151	
61.652		4.00	2.00	5.40	61.152	
61.653		4.00	2.00	5.90	61.153	
61.656		4.00	2.50	5.70	61.156	
61.657		4.00	2.50	6.20	61.157	
61.658		4.00	2.50	7.30	61.158	
61.659		5.00	2.50	8.30	61.159	
61.660		5.50	2.60	7.00	61.160	
61.661		6.00	2.60	7.60	61.161	

Kg 0.001

1/1



MSA	Qt.	Kg
99.230	36x	0.033

Assortiment de poussoirs à chasser étanches couleur acier, **forme demi-boule** ; acier inoxydable.

Assortment of steel colour waterproof press-in pushers, **domed shape** ; stainless steel.

Sortiment von Stahlfarbe wasserdichte Drücker zum einpressen, **Halbkugel Form** ; Edelstahl.

Surtido de pulsadores a presión herméticos color acero, **forma media bola** ; acero inoxidable.

Assortimento di pulsanti impermeabili a pressione colore acciaio, **forma demiboule** ; acciaio inossidabile.

Sortido de botões de pressão estanques cor aço, **forma meia bola** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.602 / .604 / .605 / .606 / .607 / .608 / .609 / .651 / .652 / .653 / .654 / .655 / .656 / .657 / .658 / .659 / .660 / .661



MSA	Qt.	Kg
99.231	36x	0.033

Assortiment de poussoirs à chasser étanches jaunes, **forme demi-boule** ; acier inoxydable.

Assortment of yellow waterproof press-in pushers, **domed shape** ; stainless steel.

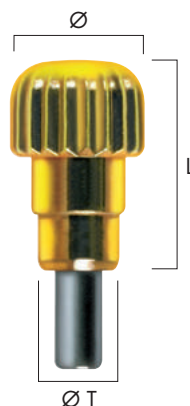
Sortiment von gelbe wasserdichte Drücker zum einpressen, **Halbkugel Form** ; Edelstahl.

Surtido de pulsadores a presión herméticos amarillos, **forma media bola** ; acero inoxidable.

Assortimento di pulsanti impermeabili a pressione gialli, **forma demiboule** ; acciaio inossidabile.

Sortido de botões de pressão estanques amarelos, **forma meia bola** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.102 / .104 / .105 / .106 / .107 / .108 / .109 / .151 / .152 / .153 / .154 / .155 / .156 / .157 / .158 / .159 / .160 / .161



Poussoirs à chasser étanches couleur acier et jaunes, **forme antique** ; acier inoxydable.

Steel colour and yellow wyaterproof press-in pushers, **antique shape** ; stainless steel.

Stahlfarbe und gelbe wasserdichte Drücker zum einpressen, **Antiker Form** ; Edelstahl.

Pulsadores a presión herméticos color acero y amarillos, **forma antigua** ; acero inoxidable.

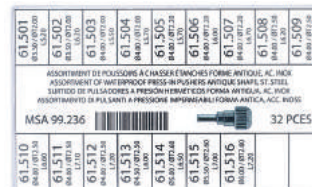
Pulsanti a pressione impermeabili colore acciaio e gialli, forma antica ; acciaio inossidabile.

Botões de pressão estanques cor aço e amarelos, **forma antiga** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	L mm	MSA	Jaune/Yellow
61.501		3.50	2.00	5.20	61.001	
61.502		3.50	2.00	6.20	61.002	
61.503		4.00	2.00	5.50	61.003	
61.504		4.00	2.00	5.70	61.004	
61.505		4.00	2.20	5.70	61.005	
61.506		4.00	2.20	6.00	61.006	
61.507		4.00	2.20	6.70	61.007	
61.508		4.00	2.50	6.20	61.008	
61.509		4.00	2.50	6.30	61.009	
61.510		4.00	2.50	6.60	61.010	
61.511		4.00	2.50	7.10	61.011	
61.512		4.00	2.50	7.20	61.012	
61.513		4.50	2.50	6.00	61.013	
61.514		5.00	2.60	6.50	61.014	
61.515		5.50	2.60	7.00	61.015	
61.516		6.00	2.60	7.20	61.016	

Kg 0.001

1/1



Assortiment de poussoirs à chasser étanches couleur acier, **forme antique** ; acier inoxydable.

Assortment of steel colour waterproof press-in pushers, **antique shape** ; stainless steel.

Sortiment von Stahlfarbe wasserdichte Drücker zum einpressen, **Antiker Form** ; Edelstahl.

Sortido de pulsadores a presión herméticos color acero, **forma antigua** ; acero inoxidable.

Assortimento di pulsanti a pressione impermeabili colore acciaio, **forma antica** ; acciaio inossidabile.

Sortido de botões de pressão estanques cor aço, **forma antiga** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 16 modèles - models - Modelle - modelos - modelli - modelos 2x MSA61.501 /.502 /.503 /.504 /.505 /.506 /.507 /.508 /.509 /.510 /.511 /.512 /.513 /.514 /.515 /.516

MSA	Qt.	Kg
99.236	32x	0.030



Assortiment de poussoirs à chasser étanches jaunes, **forme antique** ; acier inoxydable.

Assortment of yellow waterproof press-in pushers, **antique shape** ; stainless steel.

Sortiment von gelbe wasserdichte Drücker zum einpressen, **Antiker Form** ; Edelstahl.

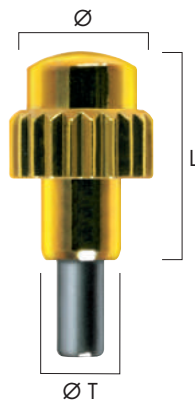
Sortido de pulsadores a presión herméticos amarillos, **forma antigua** ; acero inoxidable.

Assortimento di pulsanti a pressione impermeabili gialli, **forma antica** ; acciaio inossidabile.

Sortido de botões de pressão estanques amarelos, **forma antiga** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 16 modèles - models - Modelle - modelos - modelli - modelos 2x MSA61.001 /.002 /.003 /.004 /.005 /.006 /.007 /.008 /.009 /.010 /.011 /.012 /.013 /.014 /.015 /.016

MSA	Qt.	Kg
99.237	32x	0.030



Poussoirs à chasser étanches couleur acier et jaunes, **forme cannelée** ; acier inoxydable.

Steel colour and yellow waterproof press-in pushers, **fluted shape** ; stainless steel.

Stahlfarbe und gelbe wasserdichte Drücker zum einpressen, **geriffelter Form** ; Edelstahl.

Pulsadores a presión herméticos color acero y amarillos, **forma estriada** ; acero inoxidable.

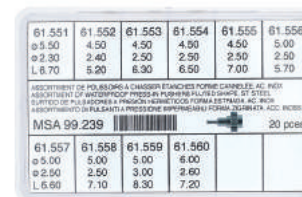
Pulsanti a pressione impermeabili colore acciaio e gialli, **forma zigrinata** ; acciaio inossidabile.

Botões de pressão estanques cor aço e amarelos, **forma estriada** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø T mm	L mm	MSA	Jaune/Yellow
61.552		4.50	2.40	5.20	61.052	
61.553		4.50	2.50	6.30	61.053	
61.554		4.50	2.50	6.50	61.054	
61.555		4.50	2.50	7.00	61.055	
61.556		5.00	2.50	5.70	61.056	
61.557		5.00	2.50	6.60	61.057	
61.558		5.00	2.50	7.10	61.058	
61.559		5.00	3.00	8.30	61.059	
61.551		5.50	2.30	6.70	61.051	
61.560		6.00	2.60	7.20	61.060	

Kg 0.001

1/1



Assortiment de poussoirs à chasser étanches couleur acier, **forme cannelée** ; acier inoxydable.

Assortment of steel colour waterproof press-in pushers, **fluted shape** ; stainless steel.

Sortiment von Stahlfarbe wasserdichte Drücker zum einpressen, **geriffelter Form** ; Edelstahl.

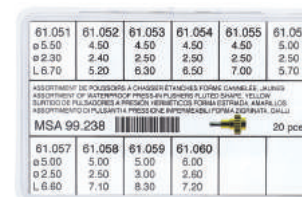
Surtido de pulsadores a presión herméticos color acero, **forma estriada** ; acero inoxidable.

Assortimento di pulsanti a pressione impermeabili colore acciaio, **forma zigrinata** ; acciaio inossidabile.

Sortido de botões de pressão estanques cor aço, **forma estriada** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 10 modèles - models - Modelle - modelos - modelli - modelos 2x MSA61.551 / .552 / .553 / .554 / .555 / .556 / .557 / .558 / .559 / .560

MSA	Qt.	Kg
99.239	20x	0.022



Assortiment de poussoirs à chasser étanches jaunes, **forme cannelée** ; acier inoxydable.

Assortment of yellow waterproof press-in pushers, **fluted shape** ; stainless steel.

Sortiment von gelbe wasserdichte Drücker zum einpressen, **geriffelter Form** ; Edelstahl.

Surtido de pulsadores a presión herméticos amarillos, **forma estriada** ; acero inoxidable.

Assortimento di pulsanti a pressione impermeabili gialli, **forma zigrinata** ; acciaio inossidabile.

Sortido de botões de pressão estanques amarelos, **forma estriada** ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo : 10 modèles - models - Modelle - modelos - modelli - modelos 2x MSA61.051 / .052 / .053 / .054 / .055 / .056 / .057 / .058 / .059 / .060

MSA	Qt.	Kg
99.238	20x	0.022



Poussoirs à visser étanches couleur acier, jaunes et noirs, **formes cylindrique, antique et cannelée** ; acier inoxydable.

Steel colour, yellow and black waterproof screw-on pushers, **cylindrical, antique and fluted shapes** ; stainless steel.

Stahlfarbe, gelbe und schwarze wasserdichte Schraubdrücker, **zylindrische, Antik und geriffelte Formen** ; Edelstahl.

Pulsadores de rosca herméticos color acero, amarillos y negros, **formas cilíndrica, antigua y estriada** ; acero inoxidable.

Pulsanti a vite impermeabili colore acciaio, gialli e neri, **forme cilindrica, antica e zigrinata** ; acciaio inossidabile.

Botões de rosca estanques cor aço, amarelos e pretos, **formas cilíndrica, antiga e estriada** ; aço inoxidável.

MSA	Acier/Steel	Ø mm	Ø M mm	Forme/Shape	MSA	Jaune/Yellow	MSA	Noir/Black
61.701		4.00	2.50 x 0.20	Cylindrique/Cylindrical	61.201		61.301	
61.703		4.00	2.50 x 0.25	Antique/Antique	61.203		-	-
61.704		4.00	2.80 x 0.20	Cylindrique/Cylindrical	61.204		-	-
61.702		4.40	2.50 x 0.20	Cylindrique/Cylindrical	61.202		-	-
61.705		4.50	2.80 x 0.20	Cylindrique/Cylindrical	61.205*		-	-
61.706		5.00	2.80 x 0.20	Cylindrique/Cylindrical	61.206*		-	-
61.707		5.50	2.50 x 0.20	Cannelée/Fluted	61.207		-	-

Kg 0.001 * Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat / Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock 1/1



MSA	Qt.	Kg
99.235	24x	0.025

Assortiment de poussoirs à visser étanches couleur acier et jaunes, **formes cylindrique, antique et cannelée** ; acier inoxydable.

Assortiment of steel colour and yellow waterproof screw-on pushers, **cylindrical, antique and fluted shapes** ; stainless steel.

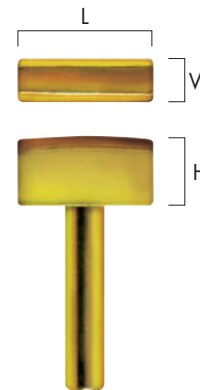
Sortiment von Stahlfarbe und gelbe wasserdichte Schraubdrücker, **zylindrische, Antik und geriffelte Formen** ; Edelstahl.

Surtido de pulsadores de rosca herméticos color acero y amarillos, **formas cilíndrica, antigua y estriada** ; acero inoxidable.

Assortimento di pulsanti a vite impermeabili colore acciaio e gialli, **forme cilindrica, antica e zigrinata** ; acciaio inossidabile.

Sortido de botões de rosca estanques cor aço e amarelos, **formas cilíndrica, antiga e estriada** ; aço inoxidável.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.201 /.202 /.203 /.204 /.207 /.701 /.702 /.703 /.704
/.705 /.706 /.707**



Poussoirs rectangulaires couleur acier, jaunes et roses.

Steel colour, yellow and pink rectangular pushers.

Stahlfarbe, gelbe und rosa rechteckiger Drücker.

Pulsadores rectangulares color acero, amarillos e rosados.

Pulsanti rettangolari colore acciaio, gialli e rosa.

Botões rectangulares cor aço, amarelos e cor de rosa.

MSA	Acier/Steel	L mm	W mm	H mm	MSA	Jaune/Yellow	MSA	Rose/Pink
-	-	5.00	1.60	2.50	61.811		61.911	
-	-	5.00	2.00	2.00	-	-	61.912	
61.411		5.00	2.00	2.50	-	-	-	-
61.412		5.00	2.00	3.30	61.812		-	-

Kg 0.001

1/1



Assortiment de poussoirs rectangulaires couleur acier, jaunes et roses.

Assortiment of steel colour, yellow and pink rectangular pushers.

Sortiment von Stahlfarbe, gelbe und rosa rechteckiger Drücker.

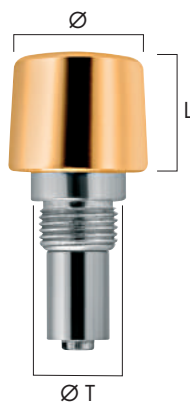
Surtido de pulsadores rectangulares color acero, amarillos e rosados.

Assortimento di pulsanti rettangolari colore acciaio, gialli e rosa.

Sortido de botões rectangulares cor aço, amarelos e cor de rosa.

MSA	Qt.	Kg
99.193	12x	0.031

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.411 /.412 /.811 /.812 /.911 /.912**



Poussoirs spéciaux.
 Special pushers.
 Spezielle Drücker.
 Pulsadores especiales.
 Pulsanti speciali.
 Botões especiais.

MSA	1/1	Ø mm	L mm	Ø T mm	MSA	1/1	Ø mm	L mm	Ø T mm
61.341		4.00	2.90	2.90	61.321		4.50	3.10	2.90
61.342		4.00	2.90	2.90	61.330		4.50	3.60	2.90
61.329		4.00	3.00	2.40	61.322		4.70	3.30	2.90
61.328		4.00	3.20	2.40	61.332		4.70	3.60	2.40
61.314		4.00	3.30	2.90	61.312		4.80	4.20	3.60
61.327		4.00	3.40	2.40	61.326		5.00	2.90	2.90
61.331		4.00	3.80	2.90	61.319		5.00	3.40	2.90
61.310		4.20	2.90	2.90	61.340		5.00	3.60	2.90
61.311		4.20	3.60	2.90	61.345		5.00	3.60	2.90
61.334		4.30	2.50	2.90	61.313		5.25	2.00	3.90
61.333		4.40	2.60	2.90	61.318		5.50	4.00	2.90
61.343		4.40	2.60	2.90	61.315		5.50 x 4.00	3.00	2.90
61.344		4.40	3.40	2.90	61.337		6.00 x 4.00	3.00	2.40
61.339		4.40	3.60	2.90	61.338		6.00 x 4.00	3.00	2.40
61.324		4.50	2.80	3.00	61.317		7.80 x 3.70	3.10	2.90
61.316		4.50	2.90	2.90	61.320		7.80 x 3.70	3.10	2.90
61.323		4.50	2.90	2.90					
61.335		4.50	2.90	2.90					
61.336		4.50	2.90	2.90					
61.325		4.50	2.90	2.90					

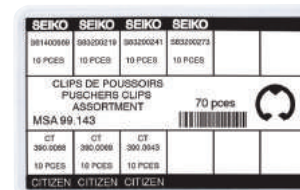
Kg 0.001



MSA	Qt.	Kg
99.229	72x	0.200

Assortiment de poussoirs spéciaux.
 Assortment of special pushers.
 Sortiment von spezielle Drücker.
 Surtido de pulsadores especiales.
 Assortimento di pulsanti speciali.
 Sortido de botões especiais.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
36 modèles - models - Modelle - modelos - modelli - modelos
2x MSA61.310 /.311 /.312 /.313 /.314 /.315 /.316 /.317 /.318
/.319 /.320 /.321 /.322 /.323 /.324 /.325 /.326 /.327 /.328
/.329 /.330 /.331 /.332 /.333 /.334 /.335 /.336 /.337 /.338
/.339 /.340 /.341 /.342 /.343 /.344 /.345



Assortiment de clips pour ressorts de poussoirs.
 Assortment of clips pusher springs.
 Sortiment von Klipps für Drückfeder.
 Surtido de clips para muelles de pulsadores.
 Assortimento di clips per molle di pulsanti.
 Sortido de clips para molas de botões.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
7 modèles - models - Modelle - modelos - modelli - modelos
10x CT390.0043 /.0068 /.0069 /S81400669 /S83200219 /
S83200241 /S83200273

MSA	Qt.	Kg
99.143	70x	0.025

RALLONGEURS, TIGERONS ET QUARTZ EXTENDERS, PIVOT-SHANK AND QUARTZ
VERLÄNGERUNGEN, TIGERONS UND QUARTZ ALARGADORES, TIJITAS Y CUARZOS
PROLUNGHE, ALBERI E QUARZI ACRESCENTADORES, TIGINHAS E QUARTZOS

Rallongeurs de tiges et tigerons
Stem extenders and pivot-shank
Aufzugswellen-Verlängerungen und Tigerons
Alargadores de tijas y tijitas
Prolunghe per alberi di carica e alberi
Acrescentadores de tiges e tiginhas



2

Tiges de remontoir
Winding stems
Aufzugswellen
Tijas de remontuar
Alberi di carica
Tiges de dar corda



5

Quartz pour circuits électroniques
Quartz for electronic circuits
Quarz für E-Blöcke
Cuarzos para circuitos electrónicos
Quarzi per circuiti elettronici
Quartzos para circuitos electrónicos



8

100 pcs

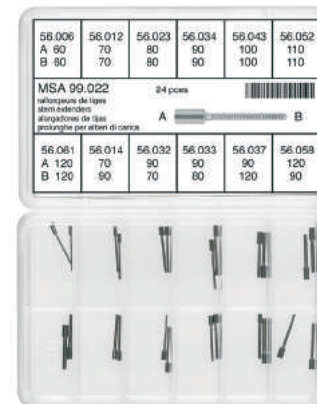


Ø int.  Ø ext.

Rallongeurs de tiges ; acier inoxydable.
 Stem extenders ; stainless steel.
 Aufzugswellen-Verlängerungen ; Edelstahl.
 Alargadores de tijas ; acero inoxidable.
 Prolunghe per alberi di carica ; acciaio inossidabile.
 Acrescentadores de tiges ; aço inoxidável.

MSA	Ø int. mm	Ø ext. mm	Kg
56.000	0.50	0.50	0.010
56.001	0.50	0.60	0.010
56.002	0.50	0.70	0.010
56.003	0.50	0.80	0.010
56.004	0.50	0.90	0.010
56.005	0.60	0.50	0.010
56.006	0.60	0.60	0.010
56.007	0.60	0.70	0.010
56.008	0.60	0.80	0.010
56.009	0.60	0.90	0.010
56.010	0.70	0.50	0.010
56.011	0.70	0.60	0.010
56.012	0.70	0.70	0.010
56.013	0.70	0.80	0.010
56.014	0.70	0.90	0.010
56.016	0.70	1.10	0.010
56.018	0.70	1.30	0.010
56.021	0.80	0.60	0.010
56.022	0.80	0.70	0.010
56.023	0.80	0.80	0.010
56.024	0.80	0.90	0.010
56.027	0.80	1.20	0.010
56.028	0.80	1.30	0.010
56.029	0.80	1.40	0.010
56.030	0.90	0.50	0.010
56.031	0.90	0.60	0.010
56.032	0.90	0.70	0.010
56.033	0.90	0.80	0.010
56.034	0.90	0.90	0.010
56.035	0.90	1.00	0.010
56.036	0.90	1.10	0.010
56.037	0.90	1.20	0.010
56.040	1.00	0.70	0.010

MSA	Ø int. mm	Ø ext. mm	Kg
56.042	1.00	0.90	0.010
56.043	1.00	1.00	0.010
56.045	1.00	1.20	0.010
56.046	1.00	1.30	0.010
56.047	1.00	1.40	0.010
56.048	1.10	0.70	0.010
56.049	1.10	0.80	0.010
56.050	1.10	0.90	0.010
56.052	1.10	1.10	0.010
56.054	1.10	1.30	0.010
56.055	1.10	1.40	0.010
56.056	1.20	0.70	0.010
56.057	1.20	0.80	0.010
56.058	1.20	0.90	0.010
56.059	1.20	1.00	0.010
56.060	1.20	1.10	0.010
56.061	1.20	1.20	0.010
56.062	1.20	1.30	0.010
56.063	1.20	1.40	0.010
56.064	1.30	0.70	0.010
56.065	1.30	0.80	0.010
56.066	1.30	0.90	0.010
56.067	1.30	1.00	0.010
56.068	1.30	1.10	0.010
56.069	1.30	1.20	0.010
56.071	1.30	1.40	0.010
56.072	1.40	0.70	0.010
56.073	1.40	0.80	0.010
56.074	1.40	0.90	0.010
56.075	1.40	1.00	0.010
56.076	1.40	1.10	0.010
56.077	1.40	1.20	0.010
56.079	1.40	1.40	0.010



MSA	Qt.	Kg
99.022	24x	0.026

Assortiment de rallongeurs de tiges ; acier inoxydable.
 Assortiment of stem extenders ; stainless steel.
 Sortiment von Aufzugswellen-Verlängerungen ; Edelstahl.
 Surtido de alargadores de tijas ; acero inoxidable.
 Assortimento di prolunghe per alberi di carica ; acciaio inossidabile.
 Sortido de acrescentadores de tiges ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA56.006 /.012 /.014 /.023 /.032 /.033 /.034 /.037 /.043
/.052 /.058 /.061



MSA	Qt.	Kg
99.021	120x	0.031

Assortiment de rallongeurs de tiges ; acier inoxydable.
 Assortiment of stem extenders ; stainless steel.
 Sortiment von Aufzugswellen-Verlängerungen ; Edelstahl.
 Surtido de alargadores de tijas ; acero inoxidable.
 Assortimento di prolunghe per alberi di carica ; acciaio inossidabile.
 Sortido de acrescentadores de tiges ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
10x MSA56.006 /.012 /.014 /.023 /.032 /.033 /.034 /.037
/.043 /.052 /.058 /.061



Tigeron femelle ; acier inoxydable.
 Female pivot-shank ; stainless steel.
 Muttertigeron ; Edelstahl.
 Tijita hembra ; acero inoxidable.
 Tiginha fêmea ; aço inoxidável.

MSA	Longueur/Length mm	Kg
56.500-8479	3	0.001



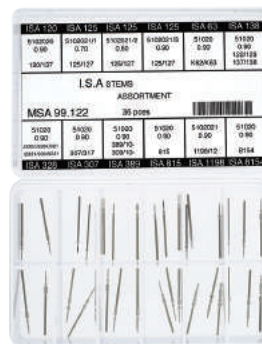
Tigeron femelle ; acier inoxydable.
 Female pivot-shank ; stainless steel.
 Muttertigeron ; Edelstahl.
 Tijita hembra ; acero inoxidable.
 Albero a strappo femmine ; acciaio inossidabile.
 Tiginha fêmea ; aço inoxidável.

MSA	Longueur/Length mm	Ø Tar./Tap. mm	Kg
56.500-08	15	0.80	0.001
56.500-09	15	0.90	0.001
56.500-11	15	1.10	0.001



Tigeron mâle ; acier inoxydable.
 Male pivot-shank ; stainless steel.
 Aussentigeron ; Edelstahl.
 Tijita macho ; acero inoxidable.
 Albero a strappo maschio ; acciaio inossidabile.
 Tiginha macho ; aço inoxidável.

MSA	Longueur/Length mm	Ø Tar./Tap. mm	Kg
56.501-09	12	0.90	0.001



Assortiment de tiges de remontoir **ISA**.
 Assortment of **ISA** winding stems.
 Sortiment von **ISA** Aufzugswellen.
 Surtido tijas de remontuar **ISA**.
 Assortimento di alberi di carica **ISA**.
 Sortido de tiges de dar corda **ISA**.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos
3x IS63.51020 - IS125.5102021/1 - IS125.5102021/2
IS125.5102021/3 - IS307.51020 - IS328.51020 - IS389.51020
IS815.51020 - IS1198.5102021 - IS8154.51020
6x IS137.51020

MSA	Qt.	Kg
99.122	36x	0.025



Assortiment de tiges de remontoir **Ronda**.
 Assortment of **Ronda** winding stems.
 Sortiment von **Ronda** Aufzugswellen.
 Surtido tijas de remontuar **Ronda**.
 Assortimento di alberi di carica **Ronda**.
 Sortido de tiges de dar corda **Ronda**.

MSA	Qt.	Kg
99.123	36x	0.025

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos

Réf./Item no.	Calibres	Dimension/Size mm
0.03x MSA56.034	Rallongeur de tige / Stem extender	Ø int. 0.90 x Ø ext. 0.90 mm
3x RL3000.131	702-08 / 706 / 715 / 772-77 / 782-88	Ø 0.90 x L 17 mm
3x RL3000.132	751-53 / 756 / 762-63	Ø 0.90 x L 17 mm
3x RL3000.133	702-08 / 706 / 772-78 / 782-88	Ø 0.90 x L 17 mm
3x RL3000.142	732	Ø 0.70 x L 17 mm
3x RL3000.146	732	Ø 0.80 x L 17 mm
3x RL3000.151	702-08 / 706 / 772-78 / 782-88	Ø 0.90 x L 25 mm
3x RL3000.155	312-15 / 712-15	Ø 0.90 x L 20 mm
3x RL3000.160	1060 / 1062-1069	Ø 0.90 x L 16 mm
3x RL3000.161	1060 / 1062-1069	Ø 0.90 x L 16 mm
3x RL3000.164	502-509 / 512-519	Ø 0.90 x L 20 mm
3x RL3000.168	582-585	Ø 0.90 x L 17 mm



Assortiment de tiges de remontoir interchangeables **ETA 0405**.
 Assortment of **ETA 0405** interchangeable winding stems.
 Sortiment von **ETA 0405** auswechselbare Aufzugswellen.
 Surtido tijas de remontuar intercambiables **ETA 0405**.
 Assortimento di alberi di carica intercambiabili **ETA 0405**.
 Sortido de tiges de dar corda intercambiáveis **ETA 0405**.

MSA	Qt.	Kg
99.124	36x	0.025

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos**

Réf./Item no.	Calibres	Dimension/Size mm
3x ETA001745	955031 - 955101 - 955102 - 955111 - 955112 - 955114	Ø 0.90 mm
	955121 - 955122 - 955124 - 955132 - 955401 - 955402	
	955411 - 955412 - 955413 - 955414 - 955419 - 955421	
	955422 - 955423 - 955424 - 955431 - 955432 - 955432	
	955812 - 956032 - 956102 - 956111 - 956112 - 956113	
	956114 - 956118 - 956121 - 956122 - 956124 - 956401	
	956402 - 956411 - 956412 - 956414 - 956421 - 956431	
	956612 - 956652	
3x ETA001755	976001 - 978002 - 979001 - 979002	Ø 0.90 mm
3x ETA001771	256031 - 256041 - 256101 - 256111 - 256241 - 256461	Ø 0.90 mm
	256511 - 256561	
3x ETA001776	255111 - 255121 - 255122 - 255241 - 255265 - 255266	Ø 0.90 mm
	255411 - 255421 - 255431 - 255441 - 255461 - 255481	
	255483 - 255485 - 255487 - 255491 - 255495 - 255511	
	255513 - 255611	
3x ETA066370	251242 - 251252 - 251262 - 251265 - 251272	Ø 0.90 mm
3x ETA151022	901001 - 901005	Ø 0.90 mm
3x ETA158079	902002 - 902101 - 902501	Ø 0.90 mm
3x ETA171998	400111 - 400411 - 803111 - 803114 - 803121 - 803124	Ø 0.90 mm
	803161 - 803164 - 804114 - 804121 - 804124 - 804191	
	804192 - 805101 - 805111 - 805114 - 805121 - 805124	
	805144 - 805161 - 805164	
3x ETA213158	251471	Ø 0.90 mm
3x ETA224188	282001	Ø 0.90 mm
3x ETA254995	G10211 - G1021A - G10711 - G1071A - G10791	Ø 0.90 mm
3x ETA291923	F05111 - F06111 - F06161 - F07111	Ø 0.90 mm

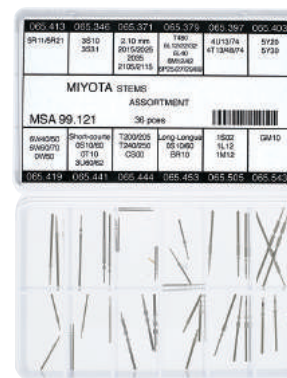


Assortiment de tiges de remontoir **Seiko**.
 Assortment of **Seiko** winding stems.
 Sortiment von **Seiko** Aufzugswellen.
 Surtido tijas de remontuar **Seiko**.
 Assortimento di alberi di carica **Seiko**.
 Sortido de tiges de dar corda **Seiko**.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos**

Réf./Item no.	Calibres
3x S0351105	5H22 - 5H23 - 5L** - 5P** - 5Y** - 6F**
3x S0351207	2E20 - 2E50 - 2E70
3x S0351546	3E** - 3Y02 - 3Y03 - 3Y09 - 4H** - V899 - WWW1
3x S0351580	5T52 - 7T32 - 7T34 - 7T36 - 7T42 - 7T52 - Y182
3x S0351653	5M22 - 5M23 - 5M42 - 5M43 - 5M62 - 5M63
3x S0351807	1F207 - 1N00 - 1N01 - Y150
3x S0351892	7N22 - 7N23 - 7N29 - 7N32 - 7N33 - 7N39 - 7N42
	7N43 - 7N82 - 7N83 - 7N89 - V722 - V729 - V733
3x S0351930	V739 - V782 - V789
	1E20 - YS20
3x S0354022	7009 - 7015 - 7016 - 7019 - Y621 - Y622
3x S0354365	PC10 - PC11 - V810 - V811
3x S0354786	V500 - V501 - V515 - Y130 - Y131
3x S0354866	Y142 - Y143

MSA	Qt.	Kg
99.116	36x	0.025



Assortiment de tiges de remontoir **Miyota**.
 Assortment of **Miyota** winding stems.
 Sortiment von **Miyota** Aufzugswellen.
 Surtido tijas de remontuar **Miyota**.
 Assortimento di alberi di carica **Miyota**.
 Sortido de tiges de dar corda **Miyota**.

**Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
 12 modèles - models - Modelle - modelos - modelli - modelos**

Réf./Item no.	Calibres
3x MY065.346	3S10 - 3S31
3x MY065.371	2015 - 2025 - 2035 - 2105 - 2115
3x MY065.379	6L12 - 6L22 - 6L32 - 6L40 - 6M12 - 6M42 - 6P25
	6P27 - 6P29 - 6P89 - T480
3x MY065.397	4T13 - 4T48 - 4T74 - 4U13 - 4U74
3x MY065.403	5Y20 - 5Y30
3x MY065.413	5R11 - 5R21
3x MY065.419	0W50 - 6W40 - 6W50 - 6W60 - 6W70
3x MY065.441	0S10 - 0S60 - 0T10 - 3U60 - 3U62
3x MY065.444	CS00 - T200 - T205 - T240 - T250
3x MY065.453	0S10 - 0S60 - BR10
3x MY065.505	1L12 - 1M12 - 1S02
3x MY065.543	GM10

MSA	Qt.	Kg
99.121	36x	0.025



Quartz pour circuits électroniques.



Quartz for electronic circuits.

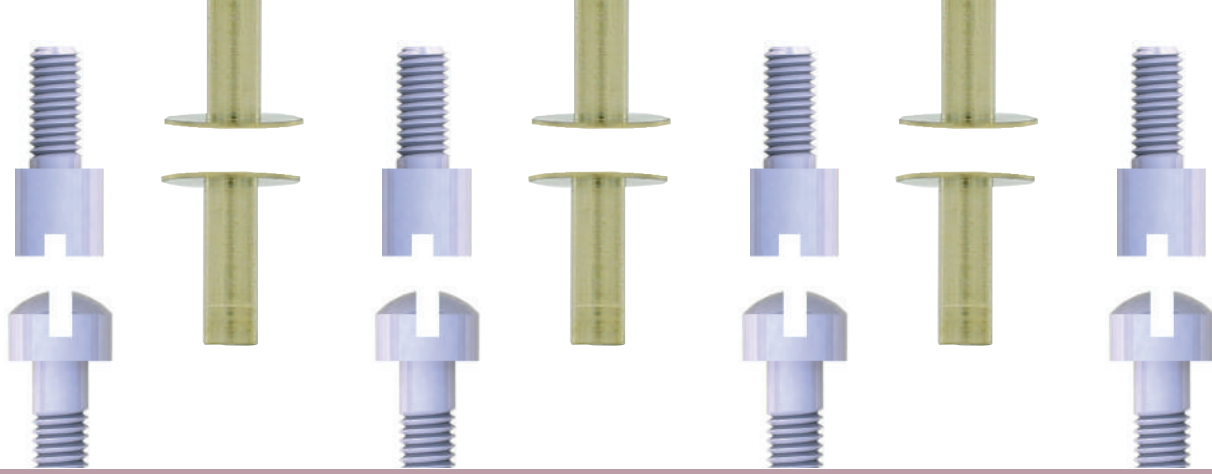
Quarz für E-Blöcke.

Cuarzos para circuitos electrónicos.

Quarzi per circuiti elettronici.

Quartzos para circuitos electrónicos.

MSA	1/1	Type	Ø	Longueur/Lenght mm	Kg
57.001		Micro	1.5 mm	5.0	0.001
57.002		Mini	2.0 mm	6.0	0.001

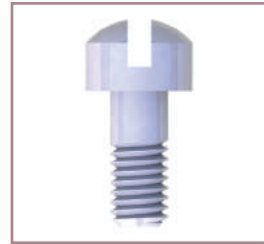


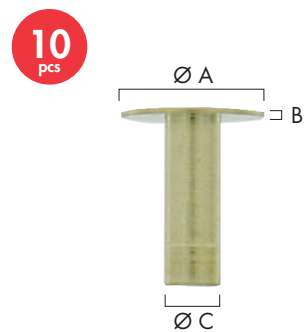
FOURNITURES PARTS FURNITUREN FORNITURAS FORNITURE FORNITURAS

Pieds de cadran
Dial feet
 Zifferblattfüsse
Pies de esfera
 Piedini di quadrante
Pés de mostrador



Vis pour fonds de boîtes
Screws for case backs
 Schrauben für Gehäuseböden
Tornillos para fondos de cajas
 Viti per fondi di casse
Parafusos para fundos de caixas





MSA	A x B x C mm
71.011-064	2.50 x 0.10 x 0.64
71.011-069	2.50 x 0.10 x 0.69
71.011-074	2.50 x 0.10 x 0.74
71.011-079	2.50 x 0.10 x 0.79
71.011-094	2.50 x 0.10 x 0.94
71.011-104	2.50 x 0.10 x 1.04

Kg 0.001



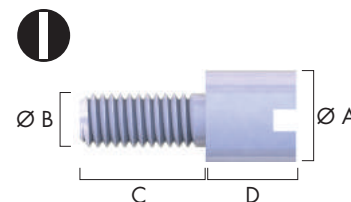
Pied de cadran à coller, **longueur 3 mm** ; sachet de 10 pièces.
 Adhesive dial foot, **length 3 mm** ; bag of 10 pieces.
 Klebezifferblattfuss, **Länge 3 mm** ; Beutel mit 10 Stück.
 Pie de esfera para pegar, **longitud 3 mm** ; bolsita de 10 piezas.
 Piedino di quadrante da incollare, **lunghezza 3 mm** ; bustina di 10 pezzi.
 Pé de mostrador para colar, **comprimento 3 mm** ; saquinho de 10 peças.



Assortiment de pieds de cadran à coller, **longueur 3 mm**.
 Assortment of adhesive dial feet, **length 3 mm**.
 Sortiment von Klebezifferblattfüsse, **Länge 3 mm**.
 Surtido de pies de esfera para pegar, **longitud 3 mm**.
 Assortimento di piedini di quadrante da incollare, **lunghezza 3 mm**.
 Sortido de pés de mostrador para colar, **comprimento 3 mm**.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA71.011-064 /-069 /-074 /-079 /-094 /-104

MSA	Qt.	Kg
99.153	60x	0.025

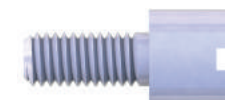


MSA	A x B x C x D mm
71.500	1.20 x 1.00 x 1.50 x 0.70
71.501	1.40 x 1.00 x 1.70 x 0.70
71.502	1.50 x 1.00 x 1.60 x 0.70
71.503	1.50 x 1.00 x 2.00 x 0.70
71.504	1.60 x 1.00 x 2.00 x 0.70
71.505	1.60 x 1.00 x 2.20 x 0.70
71.506	1.80 x 1.00 x 1.50 x 0.70
71.507	1.80 x 1.00 x 1.80 x 0.70
71.508	1.80 x 1.00 x 2.50 x 0.70
71.509	1.80 x 1.00 x 2.70 x 0.70
71.510	1.80 x 1.40 x 1.50 x 0.70
71.511	1.80 x 1.40 x 1.80 x 0.70
71.512	2.00 x 1.20 x 2.20 x 0.70
71.513	2.00 x 1.20 x 2.50 x 0.70
71.514	2.00 x 1.40 x 2.00 x 0.70
71.515	2.00 x 1.40 x 2.40 x 0.70
71.516	2.50 x 1.40 x 2.60 x 0.70
71.517	2.50 x 1.40 x 3.00 x 0.70

Kg 0.001



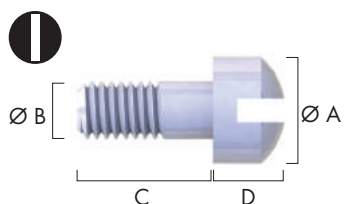
Vis pour fonds de boîtes en acier inoxydable avec tête plate ; sachet de 10 pièces.
 Stainless steel screw for case backs with flat head ; bag of 10 pieces.
 Edelstahl Schraube für Gehäuseböden mit flachem Kopf ; Beutel mit 10 Stück.
 Tornillo para fondos de cajas en acero inoxidable con cabeza plana ; bolsita de 10 piezas.
 Vite per fondi di casse in acciaio inossidabile con testa piatta ; bustina di 10 pezzi.
 Parafuso para fundos de caixas em aço inoxidável com cabeça plana ; saquinho de 10 peças.



Assortiment de vis pour fonds de boîtes avec tête plate ; acier inoxydable.
 Assortment of screws for case backs with flat head ; stainless steel.
 Sortiment von Schrauben für Gehäuseböden mit flachem Kopf ; Edelstahl.
 Surtido de tornillos para fondos de cajas con cabeza plana ; acero inoxidable.
 Assortimento di viti per fondi di casse con testa piatta ; acciaio inossidabile.
 Sortido de parafusos para fundos de caixas com cabeça plana ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
10x MSA71.500 /.501 /.502 /.503 /.504 /.505 /.506 /.507
/.508 /.509 /.510 /.511 /.512 /.513 /.514 /.515 /.516 /.517

MSA	Qt.	Kg
99.240	180x	0.045



10 pcs

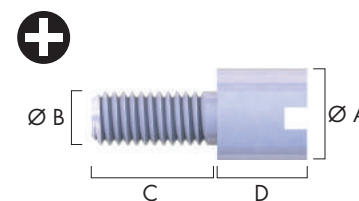
MSA	A x B x C x D mm
71.600	2.20 x 1.20 x 2.80 x 0.80
71.601	2.20 x 1.20 x 3.00 x 0.80
71.602	2.20 x 1.40 x 2.60 x 0.80
71.603	2.20 x 1.40 x 2.80 x 0.80
71.604	2.30 x 1.20 x 3.30 x 0.80
71.605	2.30 x 1.20 x 3.60 x 0.80
71.606	2.30 x 1.40 x 3.00 x 0.80
71.607	2.30 x 1.40 x 3.40 x 0.80
71.608	2.50 x 1.20 x 2.80 x 0.80
71.609	2.50 x 1.20 x 3.20 x 0.80
71.610	2.50 x 1.40 x 2.60 x 0.80
71.611	2.50 x 1.40 x 3.00 x 0.80
71.612	2.70 x 1.20 x 3.20 x 0.80
71.613	2.70 x 1.20 x 3.60 x 0.80
71.614	2.70 x 1.40 x 3.00 x 0.80
71.615	2.70 x 1.40 x 3.30 x 0.80
71.616	2.90 x 1.20 x 3.60 x 0.80
71.617	2.90 x 1.40 x 3.30 x 0.80

Kg 0.001

Vis pour fonds de boîtes en acier inoxydable avec tête bombée ; sachet de 10 pièces.
 Stainless steel screw for case backs with rounded head ; bag of 10 pieces.

Edelstahl Schraube für Gehäuseböden mit gewölbtem Kopf ; Beutel mit 10 Stück.
 Tornillo para fondos de cajas en acero inoxidable con cabeza bombeada ; bolsita de 10 piezas.

Vite per fondi di casse in acciaio inossidabile con testa bombata ; bustina di 10 pezzi.
 Parafuso para fundos de caixas em aço inoxidável com cabeça oval ; saquinho de 10 peças.



10 pcs

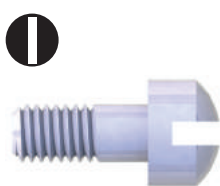
MSA	A x B x C x D mm
71.700	1.40 x 1.00 x 1.50 x 0.70
71.701	1.50 x 1.20 x 1.60 x 0.70
71.702	1.50 x 1.20 x 2.00 x 0.70
71.703	1.60 x 1.00 x 2.00 x 0.70
71.704	1.60 x 1.00 x 2.20 x 0.70
71.705	1.80 x 1.00 x 2.50 x 0.70
71.706	1.80 x 1.00 x 2.70 x 0.70
71.707	2.00 x 1.20 x 2.40 x 0.70
71.708	2.00 x 1.40 x 1.80 x 0.70
71.709	2.00 x 1.40 x 2.20 x 0.70
71.710	2.20 x 1.20 x 2.80 x 0.70
71.711	2.20 x 1.40 x 3.00 x 0.70
71.712	2.20 x 1.40 x 3.30 x 0.70
71.713	2.30 x 1.20 x 3.60 x 0.70
71.714	2.50 x 1.20 x 3.20 x 0.70
71.715	2.50 x 1.30 x 2.80 x 0.70
71.716	2.50 x 1.40 x 2.60 x 0.70

Kg 0.001

Vis pour fonds de boîtes en acier inoxydable avec tête cruciforme ; sachet de 10 pièces.

Stainless steel screw for case backs with Phillips head ; bag of 10 pieces.
 Edelstahl Schraube für Gehäuseböden mit Kreuzschlitzkopf ; Beutel mit 10 Stück.
 Tornillo para fondos de cajas en acero inoxidable con cabeza cruciforme ; bolsita de 10 piezas.

Vite per fondi di casse in acciaio inossidabile con testa cruciforme ; bustina di 10 pezzi.
 Parafuso para fundos de caixas em aço inoxidável com cabeça cruciforme ; saquinho de 10 peças.

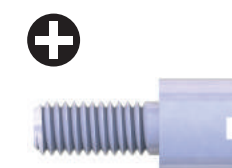


MSA	Qt.	Kg
MSA 99.241	180x	0.180

Assortiment de vis pour fonds de boîtes avec tête bombée ; acier inoxydable.
 Assortiment of screws for case backs with rounded head ; stainless steel.
 Sortiment von Schrauben für Gehäuseböden mit gewölbtem Kopf ; Edelstahl.
 Surtido de tornillos para fondos de cajas con cabeza bombeada ; acero inoxidable.
 Assortimento di viti per fondi di casse con testa bombata ; acciaio inossidabile.
 Sortido de parafusos para fundos de caixas com cabeça oval ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
18 modèles - models - Modelle - modelos - modelli - modelos
10x MSA71.600 /.601 /.602 /.603 /.604 /.605 /.606 /.607
/.608 /.609 /.610 /.611 /.612 /.613 /.614 /.615 /.616 /.617

MSA	Qt.	Kg
99.241	180x	0.045



MSA	Qt.	Kg
MSA 99.242	170x	0.170

Assortiment de vis pour fonds de boîtes avec tête cruciforme ; acier inoxydable.
 Assortiment of screws for case backs with Phillips head ; stainless steel.
 Sortiment von Schrauben für Gehäuseböden mit Kreuzschlitzkopf ; Edelstahl.
 Surtido de tornillos para fondos de cajas con cabeza cruciforme ; acero inoxidable.
 Assortimento di viti per fondi di casse con testa cruciforme ; acciaio inossidabile.
 Sortido de parafusos para fundos de caixas com cabeça cruciforme ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
17 modèles - models - Modelle - modelos - modelli - modelos
10x MSA71.700 /.701 /.702 /.703 /.704 /.705 /.706 /.707
/.708 /.709 /.710 /.711 /.712 /.713 /.714 /.715 /.716

MSA	Qt.	Kg
99.242	170x	0.045



FERMOIRS CLASPS SCHLIESSEN CIERRES CHIUSURE FECHOS

Fermoirs pour bracelets
Clasps for bracelets
Schliessen für Armbänder
Cierres para pulseras
Chiusure per cinturini
Fechos para braceletes



2



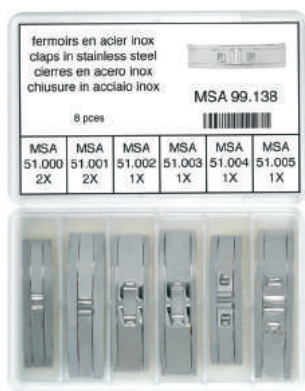
Fermoirs double déploiement ; acier inoxydable.
Clasps double deployment ; stainless steel.
Schliessen Doppel Entfaltung ; Edelstahl.
Cierres doble despliegue ; acero inoxidable.
Chiusure doppio spiegamento ; acciaio inossidabile.
Fechos dupla desdobra ; aço inoxidável.

MSA	1/1	A mm	B mm	C mm	Kg
51.007		35	4	7	0.004
51.005		35.50	3.50	8	0.004
51.001		35.50	4.50	9	0.005
51.003		38	7	10	0.005
51.004		40.50	4	10	0.006
51.002		40.50	7	10	0.005
51.000		41	6	10	0.007



Fermoirs double déploiement ; acier inoxydable.
Clasps double deployment ; stainless steel.
Schliessen Doppel Entfaltung ; Edelstahl.
Cierres doble despliegue ; acero inoxidable.
Chiusure doppio spiegamento ; acciaio inossidabile.
Fechos dupla desdobra ; aço inoxidável.

MSA	B mm	Bracelets/Straps mm	Kg
51.025-10	6	10	0.005
51.025-12	8	12	0.005
51.025-14	8	14	0.005
51.025-16	8	16	0.005
51.025-16A	10	16	0.005
51.025-18	8	18	0.005
51.025-18A	10	18	0.005
51.025-20	10	20	0.005
51.025-20A	12	20	0.006
51.025-22	12	22	0.006
51.025-22A	14	22	0.008



MSA	Qt.	Kg
99.138	8x	0.065

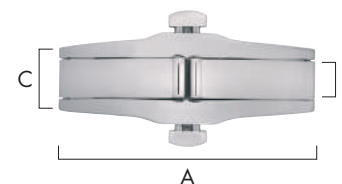
Assortiment de 8 fermoirs double déploiement ; acier inoxydable.
Assortment of 8 clasps double deployment ; stainless steel.
Sortiment von 8 Schliessen Doppel Entfaltung ; Edelstahl.
Surtido de 8 cierres doble despliegue ; acero inoxidable.
Assortimento di 8 chiusure doppio spiegamento ; acciaio inossidabile.
Sortido de 8 fechos dupla desdobra ; aço inoxidável.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
1x MSA51.002 /.003 /.004 /.005
2x MSA51.000 /.001



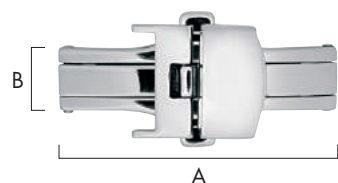
Fermoirs double déploiement; acier inoxydable.
Clasps double deployment; stainless steel.
Schliessen Doppel Entfaltung; Edelstahl.
Cierres doble despliegue; acero inoxidable.
Chiusure doppio spiegamento; acciaio inossidabile.
Fechos dupla desdobra; aço inoxidável.

MSA	A mm	B mm	Bracelets/Straps mm	Kg
51.008-10	36	8	10	0.007
51.008-12	36	8	12	0.008
51.008-14	36	8	14	0.010
51.008-16	40	11	16	0.012
51.008-18	40	11	18	0.012
51.008-20	40	11	20	0.012
51.008-22	40	11	22	0.012
51.008-24	40	11	24	0.012



Fermoirs double déploiement avec boutons à pression; acier inoxydable.
Clasps double deployment with push buttons; stainless steel.
Schliessen Doppel Entfaltung mit Druckknöpfen; Edelstahl.
Cierres doble despliegue con botones a presión; acero inoxidable.
Chiusure doppio spiegamento con bottoni a pressione; acciaio inossidabile.
Fechos dupla desdobra com botões de pressão; aço inoxidável.

MSA	A mm	B mm	C mm	Kg
51.017	35	4	8	0.005
51.009-15	36	4	10	0.006
51.018	35	4.50	8	0.006
51.019	37	4.50	10	0.006
51.009-20	40	6	14	0.009
51.021	40	6	14	0.010
51.020	40	6	10	0.007
51.022	40	7	16	0.009



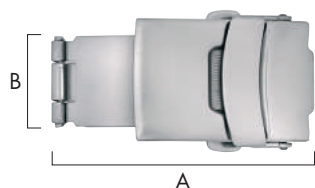
Fermoirs double déploiement avec boutons à pression; acier inoxydable.
Clasps double deployment with push buttons; stainless steel.
Schliessen Doppel Entfaltung mit Druckknöpfen; Edelstahl.
Cierres doble despliegue con botones a presión; acero inoxidable.
Chiusure doppio spiegamento con bottoni a pressione; acciaio inossidabile.
Fechos dupla desdobra com botões de pressão; aço inoxidável.

MSA	A mm	B mm	Bracelets/Straps mm	Kg
51.010-B	36	8	12	0.011
51.010-14	39	11	14	0.012
51.010-16	39	11	16	0.013
51.010-18	39	11	18	0.014
51.010-20	39	11	20	0.014
51.010-22	39	11	22	0.015
51.010-24	39	11	24	0.015



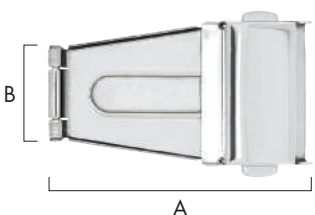
MSA	Bracelets/Straps mm	Kg
51.023-12	12	0.005
51.023-14	14	0.005
51.023-16	16	0.006
51.023-18	18	0.006
51.023-20	20	0.008
51.023-22	22	0.008

Fermoirs double déploiement avec boutons à pression; acier inoxydable.
Clasps double deployment with push buttons; stainless steel.
Schliessen Doppel Entfaltung mit Druckknöpfen; Edelstahl.
Cierres doble despliegue con botones a presión; acero inoxidable.
Chiusure doppio spiegamento con bottoni a pressione; acciaio inossidabile.
Fechos dupla desdobra com botões de pressão; aço inoxidável.



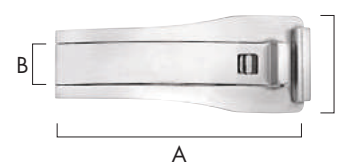
Fermeoirs de sécurité dépliement simple avec boutons à pression ; acier inoxydable.
Flanged clasps simple deployment with push buttons ; stainless steel.
Sicherheitsschliessen einfacher Entfaltung mit Druckknöpfen ; Edelstahl.
Cierres de seguridad despliegue simple con botones a presión ; acero inoxidable.
Chiusure di sicurezza spiegamento semplice con bottoni a pressione ; acciaio inossidabile.
Fechos de segurança desdobra simples com botões de pressão ; aço inoxidável.

MSA	A mm	B mm	Bracelets/Straps mm	Kg
51.011-10	40	9	10	0.010
51.011-12	40	9	12	0.011
51.011-14	40	10	14	0.012
51.011-16	40	15	16	0.013
51.011-18	40	15	18	0.015
51.011-20	40	17	20	0.017
51.011-22	40	17	22	0.019
51.011-24	44	17	24	0.020



Fermeoirs dépliement simple avec boutons à pression ; acier inoxydable.
Clasps simple deployment with push buttons ; stainless steel.
Schliessen einfacher Entfaltung mit Druckknöpfen ; Edelstahl.
Cierres despliegue simple con botones de presión ; acero inoxidable.
Chiusure spiegamento semplice con bottoni a pressione ; acciaio inossidabile.
Fechos desdobra simples com botões de pressão ; aço inoxidável.

MSA	A mm	B mm	Bracelets/Straps mm	Kg
51.012-10	30	12	10	0.005
51.012-12	30	12	12	0.005
51.012-14	32	12	14	0.006
51.012-15	32	12	15	0.006
51.012-16	32	12	16	0.006
51.012-17	32	12	17	0.006
51.012-18	37	12	18	0.007
51.012-19	34	11	19	0.007
51.012-20	36	14	20	0.007
51.012-22	36	14	22	0.009
51.012-24	36	14	24	0.009
51.012-26	36	14	26	0.009



Fermeoirs dépliement simple ; acier inoxydable.
Clasps simple deployment ; stainless steel.
Schliessen einfacher Entfaltung ; Edelstahl.
Cierre despliegue simple ; acero inoxidable.
Chiusure spiegamento semplice ; acciaio inossidabile.
Fechos desdobra simples ; aço inoxidável.

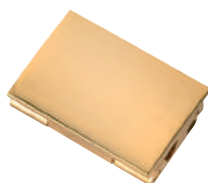
MSA	A mm	B mm	C mm	Kg
51.006-B	33	4	9	0.004
51.006-10	36	6	14	0.006



MSA	Bracelets/Straps mm	Kg
51.015-03	3	0.001
51.015-04	4	0.001
51.015-05	5	0.002
51.015-06	6	0.002
51.015-07	7	0.002
51.015-08	8	0.002
51.015-09	9	0.002
51.015-10	10	0.003

MSA	Bracelets/Straps mm	Kg
51.015-11	11	0.003
51.015-12	12	0.003
51.015-13	13	0.003
51.015-14	14	0.003
51.015-15	15	0.004
51.015-16	16	0.004
51.015-17	17	0.004

Ferмоirs simples; acier.
Simple clasps; steel.
 Einfache Schliessen; Stahl.
Cierres simples; acero.
 Chiusure semplici; acciaio.
Fechos simples; aço.

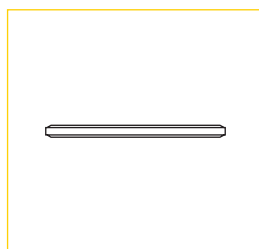


MSA	Bracelets/Straps mm	Kg
51.016-03	3	0.001
51.016-04	4	0.001
51.016-05	5	0.001
51.016-06	6	0.002
51.016-07	7	0.002
51.016-08	8	0.002
51.016-09	9	0.002
51.016-10	10	0.002

MSA	Bracelets/Straps mm	Kg
51.016-11	11	0.003
51.016-12	12	0.003
51.016-13	13	0.003
51.016-14	14	0.003
51.016-15	15	0.003
51.016-16	16	0.004
51.016-17	17	0.004

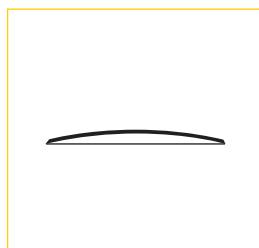
Ferмоirs simples; jaunes.
Simple clasps; yellow.
 Einfache Schliessen; gelbe.
Cierres simples; amarillos.
 Chiusure semplici; gialle.
Fechos simples; amarelos.

Verres minéraux
Mineral crystals
Mineralgläsern
Cristales minerales
Vetri minerali
Vidros minerais



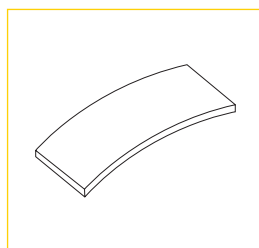
3

Verres saphir
Sapphire crystals
Saphirgläsern
Cristales zafiro
Vetri zaffiro
Vidros safira



9

Plaques minérales
Mineral sheets
Mineralplatten
Placas minerales
Lastrine minerali
Placas minerais



10

12



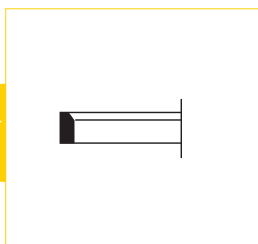
Verres plexiglas
Plexiglas crystals
Gläsern aus Plexiglas
Cristales plexiglás
Vetri plexiglas
Vidros plexiglas

14



Verres ronds avec bague de tension
Round crystals with tension ring
Runde Gläsern mit Spannungsring
Cristales redondos con aro de tensión
Vetri rotondi con ghiera di tensione
Vidros redondos com aro de tensão

15



Joints pour verres
Gaskets for crystals
Dichtungen für Gläsern
Juntas para cristales
Guarnizioni per vetri
Juntas para vidros

16



Verres divers
Miscellaneous crystals
Unterschiedliche Gläsern
Cristales diversos
Vetri diversi
Vidros diversos



Réf./Item nr.	Ø mm
VLX.MUM120	12.00
...	...
VLX.MUM340	34.00

Verres minéraux plats trempés ; épaisseur entre 0.70 et 0.80 mm.
Tempered flat mineral crystals ; thickness between 0.70 and 0.80 mm.
Gehärtete flache Mineralgläsern ; Dicke zwischen 0.70 und 0.80 mm.
Cristales minerales planos templados ; espesor entre 0.70 y 0.80 mm.
Vetri minerali piatti temperati ; spessore tra 0.70 e 0.80 mm.
Vidros minerais planos temperados ; espessura entre 0.70 e 0.80 mm.

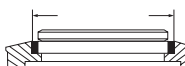
Incréments 0.10 mm du Ø 12.00 au Ø 34.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 12.00 to Ø 34.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 12.00 bis Ø 34.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 12.00 al Ø 34.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 12.00 al Ø 34.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 12.00 ao Ø 34.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.MMS130	13.00
...	...
VLX.MMS460	46.00

Verres minéraux plats trempés ; épaisseur entre 1.00 et 1.10 mm.
Tempered flat mineral crystals ; thickness between 1.00 and 1.10 mm.
Gehärtete flache Mineralgläsern ; Dicke zwischen 1.00 und 1.10 mm.
Cristales minerales planos templados ; espesor entre 1.00 y 1.10 mm.
Vetri minerali piatti temperati ; spessore tra 1.00 e 1.10 mm.
Vidros minerais planos temperados ; espessura entre 1.00 e 1.10 mm.

Incréments 0.10 mm du Ø 13.00 au Ø 46.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 13.00 to Ø 46.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 13.00 bis Ø 46.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 13.00 al Ø 46.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 13.00 al Ø 46.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 13.00 ao Ø 46.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.MMS/J1140	14.00
...	...
VLX.MMS/J1340	34.00

Verres minéraux plats trempés, avec joint "I" ; épaisseur entre 1.00 et 1.10 mm.
Tempered flat mineral crystals, with "I" gasket ; thickness between 1.00 and 1.10 mm.
Gehärtete flache Mineralgläsern, mit "I" Dichtung ; Dicke zwischen 1.00 und 1.10 mm.

Cristales minerales planos templados, con junta "I" ; espesor entre 1.00 y 1.10 mm.

Vetri minerali piatti temperati, con guarnizione "I" ; spessore tra 1.00 e 1.10 mm.

Vidros minerais planos temperados, com junta "I" ; espessura entre 1.00 e 1.10 mm.

Incréments 0.10 mm du Ø 14.00 au Ø 34.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 14.00 to Ø 34.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 14.00 bis Ø 34.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 14.00 al Ø 34.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 14.00 al Ø 34.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 14.00 ao Ø 34.00 mm (precisar o diâmetro na encomenda).



Verres minéraux plats trempés ; épaisseur 1.50 mm.
Tempered flat mineral crystals ; thickness 1.50 mm.
Gehärtete flache Mineralgläsern ; Dicke 1.50 mm.
Cristales minerales planos templados ; espesor 1.50 mm.
Vetri minerali piatti temperati ; spessore 1.50 mm.
Vidros minerais planos temperados ; espessura 1.50 mm.

Incrémenter 0.10 mm du Ø 18.00 au Ø 37.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 18.00 to Ø 37.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 18.00 bis Ø 37.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 18.00 al Ø 37.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 18.00 al Ø 37.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 18.00 ao Ø 37.00 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm
VLX.MME180	18.00
...	...
VLX.MME370	37.00
VLX.MME375	37.50
VLX.MME380	38.00
VLX.MME385	38.50
VLX.MME390	39.00

Réf./Item nr.	Ø mm
VLX.MME395	39.50
VLX.MME400	40.00
VLX.MME405	40.50
VLX.MME410	41.00
VLX.MME415	41.50
VLX.MME420	42.00

Réf./Item nr.	Ø mm
VLX.MME425	42.50
VLX.MME430	43.00
VLX.MME435	43.50
VLX.MME440	44.00
VLX.MME445	44.50
VLX.MME450	45.00



Réf./Item nr.	Ø mm
VLX.MNR/PJ176	17.60
...	...
VLX.MNR/PJ371	37.10

Verres minéraux plats trempés, avec joint plat "L" ; épaisseur du verre 2.00 mm.
Tempered flat mineral crystals, with "L" flat gasket ; crystal thickness 2.00 mm.
Gehärtete flache Mineralgläsern, mit "L" Flachdichtung ; Glasdicke 2.00 mm.
Cristales minerales planos templados, con junta plana "L" ; espesor del cristal 2.00 mm.
Vetri minerali piatti temperati, con guarnizione piatta "L" ; spessore del vetro 2.00 mm.
Vidros minerais planos temperados, com junta plana "L" ; espessura do vidro 2.00 mm.

Incrémenter 0.10 mm du Ø 17.60 au Ø 37.10 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 17.60 to Ø 37.10 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 17.60 bis Ø 37.10 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 17.60 al Ø 37.10 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 17.60 al Ø 37.10 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 17.60 ao Ø 37.10 mm (precisar o diâmetro na encomenda).



Verres minéraux plats trempés ; épaisseur 2.00 mm.
Tempered flat mineral crystals ; thickness 2.00 mm.
Gehärtete flache Mineralgläsern ; Dicke 2.00 mm.
Cristales minerales planos templados ; espesor 2.00 mm.
Vetri minerali piatti temperati ; spessore 2.00 mm.
Vidros minerais planos temperados ; espessura 2.00 mm.

Incrémenter 0.10 mm du Ø 16.50 au Ø 38.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 16.50 to Ø 38.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 16.50 bis Ø 38.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 16.50 al Ø 38.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 16.50 al Ø 38.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 16.50 ao Ø 38.00 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm
VLX.MNP155	15.50
VLX.MNP160	16.00
VLX.MNP165	16.50
...	...
VLX.MNP380	38.00
VLX.MNP385	38.50
VLX.MNP390	39.00

Réf./Item nr.	Ø mm
VLX.MNP395	39.50
VLX.MNP400	40.00
VLX.MNP405	40.50
VLX.MNP410	41.00
VLX.MNP415	41.50
VLX.MNP420	42.00
VLX.MNP425	42.50

Réf./Item nr.	Ø mm
VLX.MNP430	43.00
VLX.MNP435	43.50
VLX.MNP440	44.00
VLX.MNP445	44.50
VLX.MNP450	45.00



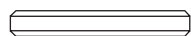
Réf./Item nr.	Ø mm
VLX.MSE175	17.50
...	...
VLX.MSE340	34.00
VLX.MSE345	34.50
VLX.MSE350	35.00
VLX.MSE355	35.50
VLX.MSE360	36.00
VLX.MSE365	36.50
VLX.MSE370	37.00

Verres minéraux plats trempés ; épaisseur 2.50 mm.
Tempered flat mineral crystals ; thickness 2.50 mm.
Gehärtete flache Mineralgläsern ; Dicke 2.50 mm.
Cristales minerales planos templados ; espesor 2.50 mm.
Vetri minerali piatti temperati ; spessore 2.50 mm.
Vidros minerais planos temperados ; espessura 2.50 mm.

Incrémenter 0.10 mm du Ø 17.50 au Ø 34.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 17.50 to Ø 34.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 17.50 bis Ø 34.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 17.50 al Ø 34.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 17.50 al Ø 34.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 17.50 ao Ø 34.00 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm
VLX.MSE375	37.50
VLX.MSE380	38.00
VLX.MSE385	38.50
VLX.MSE390	39.00
VLX.MSE395	39.50
VLX.MSE400	40.00
VLX.MSE405	40.50
VLX.MSE410	41.00
VLX.MSE415	41.50

Réf./Item nr.	Ø mm
VLX.MSE420	42.00
VLX.MSE425	42.50
VLX.MSE430	43.00
VLX.MSE435	43.50
VLX.MSE440	44.00
VLX.MSE445	44.50
VLX.MSE450	45.00



Verres minéraux plats trempés ; épaisseur 3.00 mm.
Tempered flat mineral crystals ; thickness 3.00 mm.
Gehärtete flache Mineralgläsern ; Dicke 3.00 mm.
Cristales minerales planos templados ; espesor 3.00 mm.
Vetri minerali piatti temperati ; spessore 3.00 mm.
Vidros minerais planos temperados ; espessura 3.00 mm.

Incrémenter 0.10 mm du Ø 25.00 au Ø 33.50 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 25.00 to Ø 33.50 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 25.00 bis Ø 33.50 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 25.00 al Ø 33.50 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 25.00 al Ø 33.50 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 25.00 ao Ø 33.50 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm
VLX.MTE250	25.00	VLX.MTE350	35.00	VLX.MTE375	37.50
...	...	VLX.MTE355	35.50	VLX.MTE380	38.00
VLX.MTE335	33.50	VLX.MTE360	36.00	VLX.MTE385	38.50
VLX.MTE340	34.00	VLX.MTE365	36.50	VLX.MTE390	39.00
VLX.MTE345	34.50	VLX.MTE370	37.00	VLX.MTE395	39.50



Verres minéraux bombés trempés ; épaisseur 2.00 mm.
Tempered domed mineral crystals ; thickness 2.00 mm.
Gehärtete gewölbte Mineralgläsern ; Dicke 2.00 mm.
Cristales minerales bombeados templados ; espesor 2.00 mm.
Vetri minerali bombati temperati ; spessore 2.00 mm.
Vidros minerais encurvados temperados ; espessura 2.00 mm.

Incrémenter 0.10 mm du Ø 24.00 au Ø 33.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 24.00 to Ø 33.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 24.00 bis Ø 33.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 24.00 al Ø 33.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 24.00 al Ø 33.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 24.00 ao Ø 33.00 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm
VLX.MBE240	24.00	VLX.MBE355	35.50	VLX.MBE390	39.00
...	...	VLX.MBE360	36.00	VLX.MBE395	39.50
VLX.MBE330	33.00	VLX.MBE365	36.50	VLX.MBE400	40.00
VLX.MBE335	33.50	VLX.MBE370	37.00	VLX.MBE405	40.50
VLX.MBE340	34.00	VLX.MBE375	37.50	VLX.MBE410	41.00
VLX.MBE345	34.50	VLX.MBE380	38.00	VLX.MBE415	41.50
VLX.MBE350	35.00	VLX.MBE385	38.50	VLX.MBE420	42.00



Verres minéraux bombés trempés ; épaisseur entre 0.70 et 0.90 mm.
Tempered domed mineral crystals ; thickness between 0.70 and 0.90 mm.
Gehärtete gewölbte Mineralgläsern ; Dicke zwischen 0.70 und 0.90 mm.
Cristales minerales bombeados templados ; espesor entre 0.70 y 0.90 mm.
Vetri minerali bombati temperati ; spessore tra 0.70 e 0.90 mm.
Vidros minerais encurvados temperados ; espessura entre 0.70 e 0.90 mm.

Incrémenter 0.10 mm du Ø 14.00 au Ø 34.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 14.00 to Ø 34.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 14.00 bis Ø 34.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 14.00 al Ø 34.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 14.00 al Ø 34.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 14.00 ao Ø 34.00 mm (precisar o diâmetro na encomenda).

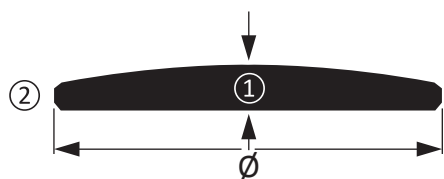
Réf./Item nr.	Ø mm
VLX.MMB140	14.00
...	...
VLX.MMB340	34.00



Verres minéraux bombés trempés ; épaisseur entre 1.10 et 1.20 mm.
Tempered domed mineral crystals ; thickness between 1.10 and 1.20 mm.
Gehärtete gewölbte Mineralgläsern ; Dicke zwischen 1.10 und 1.20 mm.
Cristales minerales bombeados templados ; espesor entre 1.10 y 1.20 mm.
Vetri minerali bombati temperati ; spessore tra 1.10 e 1.20 mm.
Vidros minerais encurvados temperados ; espessura entre 1.10 e 1.20 mm.

Incrémenter 0.10 mm du Ø 18.00 au Ø 38.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 18.00 to Ø 38.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 18.00 bis Ø 38.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 18.00 al Ø 38.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 18.00 al Ø 38.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 18.00 ao Ø 38.00 mm (precisar o diâmetro na encomenda).

Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm
VLX.MSB180	18.00	VLX.MSB390	39.00	VLX.MSB410	41.00
...	...	VLX.MSB395	39.50	VLX.MSB415	41.50
VLX.MSB380	38.00	VLX.MSB400	40.00	VLX.MSB420	42.00
VLX.MSB385	38.50	VLX.MSB405	40.50		



Verres minéraux, type loupe.
Mineral crystals, type lens.
Mineralgläsern, Typ Lupe.
Cristales minerales, tipo lupa.
Vetri minerali, tipo lupa.
Vidros minerais, tipo lente.

Réf./Item nr.	Ø mm	1 mm	2 mm
VLX.XMF155/725	1.55	2.10	1.60
VLX.XMF180/703	1.80	2.10	1.50
VLX.XMF185/726	1.85	2.30	1.60
VLX.XMF190/729	1.90	2.50	1.60
VLX.XMF195/730	1.95	2.50	1.60
VLX.XMF200/716	2.00	2.50	1.25
VLX.XMF205/731	2.05	3.00	1.50
VLX.XMF210/727	2.10	2.50	1.60
VLX.XMF210/735	2.10	4.40	2.40
VLX.XMF215/734	2.15	2.10	1.50
VLX.XMF220/728	2.20	2.50	1.60
VLX.XMF250/732	2.50	2.50	1.60
VLX.XMF256/714	2.56	2.50	1.50
VLX.XMF260/736	2.60	3.20	2.00
VLX.XMF264/713	2.64	2.50	1.50
VLX.XMF265/737	2.65	3.20	2.00
VLX.XMF266/715	2.66	2.50	1.50
VLX.XMF268/742	2.68	3.20	1.60
VLX.XMF270/700	2.70	2.50	1.50
VLX.XMF273/743	2.73	3.20	1.60
VLX.XMF275/701	2.75	2.40	1.60
VLX.XMF278/744	2.78	3.20	1.60
VLX.XMF280/705	2.80	2.50	1.50
VLX.XMF283/745	2.83	3.20	1.60

Réf./Item nr.	Ø mm	1 mm	2 mm
VLX.XMF285/706	2.85	2.50	1.50
VLX.XMF288/746	2.88	3.20	1.60
VLX.XMF290/605	2.90	4.40	3.50
VLX.XMF290/707	2.90	2.50	1.50
VLX.XMF290/723	2.90	4.40	2.00
VLX.XMF293/747	2.93	3.20	1.60
VLX.XMF295/708	2.95	2.50	1.60
VLX.XMF296/738	2.96	3.20	2.00
VLX.XMF298/712	2.98	2.50	1.60
VLX.XMF298/721	2.98	4.00	3.20
VLX.XMF299/613	2.99	5.50	3.50
VLX.XMF300/709	3.00	2.50	1.60
VLX.XMF303/748	3.03	3.20	1.60
VLX.XMF305/710	3.05	2.50	1.60
VLX.XMF308/749	3.08	3.20	1.60
VLX.XMF310/711	3.10	2.50	1.60
VLX.XMF313/750	3.13	3.20	1.60
VLX.XMF315/702	3.15	3.60	2.50
VLX.XMF315/718	3.15	2.50	1.20
VLX.XMF320/615	3.20	3.60	2.50
VLX.XMF320/719	3.20	2.50	1.30
VLX.XMF323/616	3.23	3.20	2.00
VLX.XMF325/720	3.25	2.50	1.30
VLX.XMF330/739	3.30	2.50	1.80

Réf./Item nr.	Ø mm	1 mm	2 mm
VLX.XMF335/740	3.35	2.50	1.80
VLX.XMF340/741	3.40	2.50	1.80
VLX.XMF345/722	3.45	4.40	2.70
VLX.XMF350/704	3.50	2.70	1.90
VLX.XMF350/717	3.50	3.60	1.20
VLX.XMF355/606	3.55	4.00	2.00
VLX.XMF360/733	3.60	3.50	2.30
VLX.XMF365/607	3.65	4.00	2.00
VLX.XMF365/612	3.65	2.50	1.50
VLX.XMF370/600	3.70	3.40	1.60
VLX.XMF375/601	3.75	3.40	1.60
VLX.XMF380/602	3.80	3.40	1.60
VLX.XMF385/608	3.85	4.00	2.00
VLX.XMF390/609	3.90	4.00	2.00
VLX.XMF394/618	3.94	2.40	1.00
VLX.XMF395/614	3.95	4.00	2.00
VLX.XMF400/603	4.00	4.00	2.00
VLX.XMF405/610	4.05	4.00	2.20
VLX.XMF410/611	4.10	4.00	2.00
VLX.XMF411/619	4.11	2.70	1.30
VLX.XMF450/604	4.50	3.60	1.60

Loupes pour verres minéraux.
Lenses for mineral crystals.
Lupen für Mineralgläsern.
Lupas para cristales minerales.
Lenti per vetri minerali.
Lupas para vidros minerais.

Réf./Item nr.	Dimensions/Size mm
VLX.ML4.5X3.6	4.50 x 3.60
VLX.ML5.9X4.7	5.90 x 4.70
VLX.ML7.5X6.3	7.50 x 6.30



Réf./Item nr.	Ø mm
VLX.SRV170	17.00
...	...
VLX.SRV210	21.00

Verres saphir plats ; épaisseur 0.80 mm.
Flat sapphire crystals ; thickness 0.80 mm.
Flache Saphirgläsern ; Dicke 0.80 mm.
Cristales zafiro planos ; espesor 0.80 mm.
Vetri zaffiro piatti ; spessore 0.80 mm.
Vidros safira planos ; espessura 0.80 mm.

Incrémenter 0.10 mm du Ø 17.00 au Ø 21.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 17.00 to Ø 21.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 17.00 bis Ø 21.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 17.00 al Ø 21.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 17.00 al Ø 21.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 17.00 ao Ø 21.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.SRV211	21.10
...	...
VLX.SRV320	32.00
VLX.SRV325	32.50
VLX.SRV330	33.00
VLX.SRV335	33.50

Verres saphir plats ; épaisseur 0.90 mm.
Flat sapphire crystals ; thickness 0.90 mm.
Flache Saphirgläsern ; Dicke 0.90 mm.
Cristales zafiro planos ; espesor 0.90 mm.
Vetri zaffiro piatti ; spessore 0.90 mm.
Vidros safira planos ; espessura 0.90 mm.

Incrémenter 0.10 mm du Ø 21.10 au Ø 32.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 21.10 to Ø 32.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 21.10 bis Ø 32.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 21.10 al Ø 32.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 21.10 al Ø 32.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 21.10 ao Ø 32.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.SRM260	26.00
...	...
VLX.SRM320	32.00
VLX.SRM325	32.50
VLX.SRM330	33.00
VLX.SRM335	33.50

Verres saphir plats ; épaisseur 1.40 mm.
Flat sapphire crystals ; thickness 1.40 mm.
Flache Saphirgläsern ; Dicke 1.40 mm.
Cristales zafiro planos ; espesor 1.40 mm.
Vetri zaffiro piatti ; spessore 1.40 mm.
Vidros safira planos ; espessura 1.40 mm.

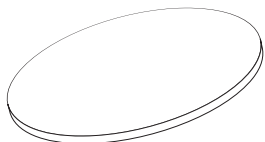
Incrémenter 0.10 mm du Ø 26.00 au Ø 32.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 26.00 to Ø 32.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 26.00 bis Ø 32.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 26.00 al Ø 32.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 26.00 al Ø 32.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 26.00 ao Ø 32.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.SRD260	26.00
...	...
VLX.SRD320	32.00
VLX.SRD325	32.50
VLX.SRD330	33.00
VLX.SRD335	33.50

Verres saphir bombés ; épaisseur 0.90 mm.
Domed sapphire crystals ; thickness 0.90 mm.
Gewölbte Saphirgläsern ; Dicke 0.90 mm.
Cristales zafiro bombeados ; espesor 0.90 mm.
Vetri zaffiro bombati ; spessore 0.90 mm.
Vidros safira encurvados ; espessura 0.90 mm.

Incrémenter 0.10 mm du Ø 26.00 au Ø 32.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 26.00 to Ø 32.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 26.00 bis Ø 32.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 26.00 al Ø 32.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 26.00 al Ø 32.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 26.00 ao Ø 32.00 mm (precisar o diâmetro na encomenda).

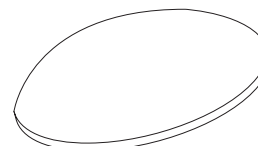


Plaques minérales plates trempées, forme ronde.
 Tempered flat mineral sheets, round shape.
 Gehärtete flache Mineralplatten, Runder Form.
 Placas minerales planas templadas, forma redonda.
 Lastrine minerali piatte temperate, forma rotonda.
 Placas minerais planas temperadas, forma redonda.

Réf./Item nr.	Ø mm	Épaisseur / Thickness mm
VLX.MPL15X07	15	0.70
VLX.MPL15X09	15	0.90
VLX.MPL15X11	15	1.10
VLX.MPL20X07	20	0.70
VLX.MPL20X09	20	0.90
VLX.MPL20X11	20	1.10
VLX.MPL25X07	25	0.70
VLX.MPL25X09	25	0.90
VLX.MPL25X11	25	1.10
VLX.MPL30X07	30	0.70
VLX.MPL30X09	30	0.90

Réf./Item nr.	Ø mm	Épaisseur / Thickness mm
VLX.MPL30X11	30	1.10
VLX.MPL30X13	30	1.30
VLX.MPL35X07	35	0.70
VLX.MPL35X09	35	0.90
VLX.MPL35X11	35	1.10
VLX.MPL35X13	35	1.30
VLX.MPL40X07	40	0.70
VLX.MPL40X09	40	0.90
VLX.MPL40X11	40	1.10
VLX.MPL40X13	40	1.30
VLX.MPL40X15	40	1.50

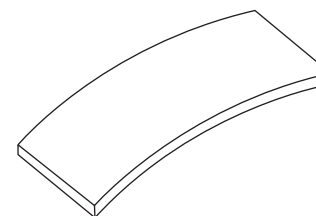
Réf./Item nr.	Ø mm	Épaisseur / Thickness mm
VLX.MPL40X18	40	1.80
VLX.MPL45X09	45	0.90
VLX.MPL45X11	45	1.10
VLX.MPL45X13	45	1.30
VLX.MPL/SP40X25	40	2.50
VLX.MPL/SP40X30	40	3.00
VLX.MPL/SP50X09	50	0.90
VLX.MPL/SP50X25	50	2.50
VLX.MPL/SP55X11	55	1.10
VLX.MPL/SP55X16	55	1.60
VLX.MPL/SP55X20	55	2.00



Plaques minérales bombées trempées, forme ronde.
 Tempered domed mineral sheets, round shape.
 Gehärtete gewölbte Mineralplatten, Runder Form.
 Placas minerales bombeadas templadas, forma redonda.
 Lastrine minerali bombate temperate, forma rotonda.
 Placas minerais encurvadas temperadas, forma redonda.

Réf./Item nr.	Ø mm	Épaisseur / Thickness mm
VLX.MPL/B22X0.7	22	0.70
VLX.MPL/B35X0.9	35	0.90
VLX.MPL/B/SP35X1.5	35	1.50
VLX.MPL/B/SP36X2.0	36	2.00

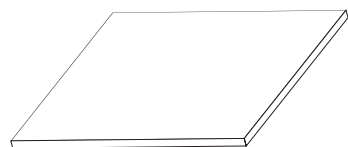
Réf./Item nr.	Ø mm	Épaisseur / Thickness mm
VLX.MPL/B/SP40X0.9	40	0.90
VLX.MPL/B/SP45X1.2	45	1.20
VLX.MPL/B/SP50X1.1	50	1.10



Plaques minérales galbées trempées, forme rectangulaire.
 Tempered curved mineral sheets, rectangular shape.
 Gehärtete gerundete Mineralplatten, Rechteckiger Form.
 Placas minerales curvadas templadas, forma rectangular.
 Lastrine minerali curvate temperate, forma rettangolare.
 Placas minerais curvadas temperadas, forma rectangular.

Réf./Item nr.	Dimensions / Size mm	Galbe / Curve mm
VLX.MPL/G220X160X40	220 x 160	40
VLX.MPL/G220X160X50	220 x 160	50
VLX.MPL/G220X160X60	220 x 160	60
VLX.MPL/G220X160X70	220 x 160	70
VLX.MPL/G220X160X80	220 x 160	80
VLX.MPL/G220X160X100	220 x 160	100
VLX.MPL/G300X200X40	300 x 200	40
VLX.MPL/G300X200X50	300 x 200	50
VLX.MPL/G300X200X60	300 x 200	60
VLX.MPL/G300X200X70	300 x 200	70
VLX.MPL/G300X200X80	300 x 200	80
VLX.MPL/G300X200X100	300 x 200	100
VLX.MPL/G350X250X30	350 x 250	30
VLX.MPL/G350X250X40	350 x 250	40
VLX.MPL/G350X250X50	350 x 250	50
VLX.MPL/G350X250X60	350 x 250	60
VLX.MPL/G350X250X70	350 x 250	70

Réf./Item nr.	Dimensions / Size mm	Galbe / Curve mm
VLX.MPL/G350X250X80	350 x 250	80
VLX.MPL/G350X250X100	350 x 250	100
VLX.MPL/G370X280X40	370 x 280	40
VLX.MPL/G370X280X50	370 x 280	50
VLX.MPL/G370X280X60	370 x 280	60
VLX.MPL/G370X280X70	370 x 280	70
VLX.MPL/G370X280X80	370 x 280	80
VLX.MPL/G370X280X100	370 x 280	100
VLX.MPL/G/SP280X370X60	280 x 370	60
VLX.MPL/G/SP430X320X60	430 x 320	60
VLX.MPL/G/SP430X320X80	430 x 320	80
VLX.MPL/G/SP430X320X100	430 x 320	100
VLX.MPL/G/SP450X320X40	450 x 320	40
VLX.MPL/G/SP500X400X60	500 x 400	60
VLX.MPL/G/SP500X400X80	500 x 400	80
VLX.MPL/G/SP500X400X100	500 x 400	100



Plaques minérales plates trempées, forme carrée.
 Tempered flat mineral sheets, square shape.
 Gehärtete flache Mineralplatten, Viereckiger Form.
 Placas minerales planas templadas, forma cuadrada.
 Lastrine minerali piatte temperate, forma quadrata.
 Placas minerais planas temperadas, forma quadrada.

Réf./Item nr.	Dim. / Size mm	Épaisseur / Thickness mm
VLX.MPL15X15X07	15 x 15	0.70
VLX.MPL15X15X09	15 x 15	0.90
VLX.MPL15X15X11	15 x 15	1.10
VLX.MPL20X20X07	20 x 20	0.70
VLX.MPL20X20X09	20 x 20	0.90
VLX.MPL20X20X11	20 x 20	1.10
VLX.MPL25X25X07	25 x 25	0.70
VLX.MPL25X25X09	25 x 25	0.90

Réf./Item nr.	Dim. / Size mm	Épaisseur / Thickness mm
VLX.MPL25X25X11	25 x 25	1.10
VLX.MPL25X25X13	25 x 25	1.30
VLX.MPL30X30X07	30 x 30	0.70
VLX.MPL30X30X09	30 x 30	0.90
VLX.MPL30X30X11	30 x 30	1.10
VLX.MPL30X30X13	30 x 30	1.30
VLX.MPL35X35X07	35 x 35	0.70
VLX.MPL35X35X09	35 x 35	0.90

Réf./Item nr.	Dim. / Size mm	Épaisseur / Thickness mm
VLX.MPL35X35X11	35 x 35	1.10
VLX.MPL35X35X13	35 x 35	1.30
VLX.MPL35X35X15	35 x 35	1.50
VLX.MPL35X35X18	35 x 35	1.80
VLX.MPL40X40X09	40 x 40	0.90
VLX.MPL40X40X11	40 x 40	1.10
VLX.MPL40X40X13	40 x 40	1.30



Réf./Item nr.	Ø mm
VLX.NML90	9.00
...	...
VLX.NML380	38.00
VLX.NML382	38.20
...	...
VLX.NML500	50.00

Verres en plexiglas normalisés, à poser sous tension.

Snap-in standardized plexiglas crystals.

Normalisierte Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás normalizados, para colocar bajo tensión.

Vetri in plexiglas normalizzati, da incassare a pressione.

Vidros em plexiglas normalizados, para colocar à pressão.

Incrémenter 0.10 mm du Ø 9.00 au Ø 38.00 mm (préciser le diamètre lors de la commande).

Increment 0.10 mm from Ø 9.00 to Ø 38.00 mm (specify the diameter when ordering).

Inkrementieren 0.10 mm von Ø 9.00 bis Ø 38.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.10 mm del Ø 9.00 al Ø 38.00 mm (precisar el diámetro en el pedido).

Incrementare 0.10 mm dal Ø 9.00 al Ø 38.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.10 mm do Ø 9.00 ao Ø 38.00 mm (precisar o diâmetro na encomenda).

Incrémenter 0.20 mm du Ø 38.20 au Ø 50.00 mm (préciser le diamètre lors de la commande).

Increment 0.20 mm from Ø 38.20 to Ø 50.00 mm (specify the diameter when ordering).

Inkrementieren 0.20 mm von Ø 38.20 bis Ø 50.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.20 mm del Ø 38.20 al Ø 50.00 mm (precisar el diámetro en el pedido).

Incrementare 0.20 mm dal Ø 38.20 al Ø 50.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.20 mm do Ø 38.20 ao Ø 50.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.ETC120	12.00
...	...
VLX.ETC380	38.00

Verres en plexiglas étanches, à poser sous tension.

Snap-in waterproof plexiglas crystals.

Wasserdichte Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás herméticos, para colocar bajo tensión.

Vetri in plexiglas impermeabili, da incassare a pressione.

Vidros em plexiglas estanques, para colocar à pressão.

Incrémenter 0.10 mm du Ø 12.00 au Ø 38.00 mm (Préciser le diamètre lors de la commande).

Increment 0.10 mm from Ø 12.00 au Ø 38.00 mm (préciser le diamètre lors de la commande).

Increment 0.10 mm from Ø 12.00 to Ø 38.00 mm (specify the diameter when ordering).

Inkrementieren 0.10 mm von Ø 12.00 bis Ø 38.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.10 mm del Ø 12.00 al Ø 38.00 mm (precisar el diámetro en el pedido).

Incrementare 0.10 mm dal Ø 12.00 al Ø 38.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.10 mm do Ø 12.00 ao Ø 38.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.MDN90	9.00
...	...
VLX.MDN380	38.00

Verres en plexiglas modernes, à poser sous tension.

Snap-in modern plexiglas crystals.

Moderne Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás modernos, para colocar bajo tensión.

Vetri in plexiglas moderni, da incassare a pressione.

Vidros em plexiglas modernos, para colocar à pressão.

Incrémenter 0.10 mm du Ø 9.00 au Ø 38.00 mm (préciser le diamètre lors de la commande).

Increment 0.10 mm from Ø 9.00 to Ø 38.00 mm (specify the diameter when ordering).

Inkrementieren 0.10 mm von Ø 9.00 bis Ø 38.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.10 mm del Ø 9.00 al Ø 38.00 mm (precisar el diámetro en el pedido).

Incrementare 0.10 mm dal Ø 9.00 al Ø 38.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.10 mm do Ø 9.00 ao Ø 38.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.NMB100	10.00
...	...
VLX.NMB500	50.00

Verres en plexiglas "normabas", à poser sous tension.

Snap-in "normabas" plexiglas crystals.

"Normabas" Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás "normabas", para colocar bajo tensión.

Vetri in plexiglas "normabas", da incassare a pressione.

Vidros em plexiglas "normabas", para colocar à pressão.

Incrémenter 0.20 mm du Ø 10.00 au Ø 50.00 mm (préciser le diamètre lors de la commande).

Increment 0.20 mm from Ø 10.00 to Ø 50.00 mm (specify the diameter when ordering).

Inkrementieren 0.20 mm von Ø 10.00 bis Ø 50.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.20 mm del Ø 10.00 al Ø 50.00 mm (precisar el diámetro en el pedido).

Incrementare 0.20 mm dal Ø 10.00 al Ø 50.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.20 mm do Ø 10.00 ao Ø 50.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.MCV164	16.40
...	...
VLX.MCV500	50.00

Verres en plexiglas de forme semi-concave, à poser sous tension.

Snap-in half concave shape plexiglas crystals.

Halbkonkav-Form Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás de forma mitad cóncava, para colocar bajo tensión.

Vetri in plexiglas di forma mezza concava, da incassare a pressione.

Vidros em plexiglas de forma meia cóncava, para colocar à pressão.

Incrémenter 0.20 mm du Ø 16.40 au Ø 50.00 mm (préciser le diamètre lors de la commande).

Increment 0.20 mm from Ø 16.40 to Ø 50.00 mm (specify the diameter when ordering).

Inkrementieren 0.20 mm von Ø 16.40 bis Ø 50.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.20 mm del Ø 16.40 al Ø 50.00 mm (precisar el diámetro en el pedido).

Incrementare 0.20 mm dal Ø 16.40 al Ø 50.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.20 mm do Ø 16.40 ao Ø 50.00 mm (precisar o diâmetro na encomenda).



Réf./Item nr.	Ø mm
VLX.SVN/A200	20.00
...	...
VLX.SVN/A500	50.00

Verres en plexiglas de forme savonnette, à poser sous tension.

Snap-in hunter shape plexiglas crystals.

Savonnette-Form Gläsern aus Plexiglas, unter Spannung einzustellen.

Cristales en plexiglás de forma saboneta, para colocar bajo tensión.

Vetri in plexiglas di forma saponetta, da incassare a pressione.

Vidros em plexiglas de forma sabonete, para colocar à pressão.

Incrémenter 0.20 mm du Ø 20.00 au Ø 50.00 mm (préciser le diamètre lors de la commande).

Increment 0.20 mm from Ø 20.00 to Ø 50.00 mm (specify the diameter when ordering).

Inkrementieren 0.20 mm von Ø 20.00 bis Ø 50.00 mm (bei der Bestellung, den Durchmesser angeben).

Incrementar 0.20 mm del Ø 20.00 al Ø 50.00 mm (precisar el diámetro en el pedido).

Incrementare 0.20 mm dal Ø 20.00 al Ø 50.00 mm (specificare il diametro al momento dell'ordine).

Incrementar 0.20 mm do Ø 20.00 ao Ø 50.00 mm (precisar o diâmetro na encomenda).



Verres ronds en plexiglas avec bague de tension chromée.
 Round plexiglas crystals with chromed tension ring.
 Runde Gläsern aus Plexiglas mit verchromtem Spannungsring.
 Cristales redondos en plexiglás con aro de tensión cromado.
 Vetri rotondi in plexiglas con ghiera di tensione cromata.
 Vidros redondos em plexiglas com aro de tensão cromado.

Réf./Item nr.	Ø mm
VLX.MTL/C141	14.10
...	...
VLX.MTL/C373	37.30

Incrémenter 0.10 mm du Ø 14.10 au Ø 37.30 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 14.10 to Ø 37.30 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 14.10 bis Ø 37.30 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 14.10 al Ø 37.30 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 14.10 al Ø 37.30 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 14.10 ao Ø 37.30 mm (precisar o diâmetro na encomenda).



Verres ronds en plexiglas avec bague de tension dorée.
 Round plexiglas crystals with gilt tension ring.
 Runde Gläsern aus Plexiglas mit vergoldetem Spannungsring.
 Cristales redondos en plexiglás con aro de tensión dorado.
 Vetri rotondi in plexiglas con ghiera di tensione dorata.
 Vidros redondos em plexiglas com aro de tensão dourado.

Réf./Item nr.	Ø mm
VLX.MTL/D141	14.10
...	...
VLX.MTL/D373	37.30

Incrémenter 0.10 mm du Ø 14.10 au Ø 37.30 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 14.10 to Ø 37.30 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 14.10 bis Ø 37.30 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 14.10 al Ø 37.30 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 14.10 al Ø 37.30 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 14.10 ao Ø 37.30 mm (precisar o diâmetro na encomenda).

» Joints/Gaskets "I"



Réf./Item nr.	Ø mm
VLX.JOINT/I140X08	14.00
...	...
VLX.JOINT/I340X08	34.00
VLX.JOINT/I345X08	34.50

Plastic Hytrel

Joints "I" pour verres minéraux minces ; hauteur 0.80 mm, épaisseur 0.35 mm.
 "I" gaskets for thin mineral crystals ; height 0.80 mm, thickness 0.35 mm.
 "I" Dichtungen für dünne Mineralgläsern ; Höhe 0.80 mm, Dicke 0.35 mm.
 Juntas "I" para vidrios minerales finos ; altura 0.80 mm, espesor 0.35 mm.
 Guarnizioni "I" per vetri minerali sottili ; altezza 0.80 mm, spessore 0.35 mm.
 Juntas "I" para vidros minerais finos ; altura 0.80 mm, espessura 0.35 mm.

Incrémenter 0.10 mm du Ø 14.00 au Ø 34.00 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 14.00 to Ø 34.00 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 14.00 bis Ø 34.00 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 14.00 al Ø 34.00 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 14.00 al Ø 34.00 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.10 mm do Ø 14.00 ao Ø 34.00 mm (precisar o diâmetro na encomenda).

» Joints/Gaskets "I"



Réf./Item nr.	Ø mm
VLX.JOINT/I250X12	25.00
...	...
VLX.JOINT/I327X12	32.70
VLX.JOINT/I330X12	33.00
VLX.JOINT/I335X12	33.50
VLX.JOINT/I340X12	34.00
VLX.JOINT/I345X12	34.50

Plastic Hytrel

Joints "I" pour verres minéraux épais ; hauteur 1.20 mm, épaisseur 0.40 mm.
 "I" gaskets for thick mineral crystals ; height 1.20 mm, thickness 0.40 mm.
 "I" Dichtungen für dicke Mineralgläsern ; Höhe 1.20 mm, Dicke 0.40 mm.
 Juntas "I" para vidrios minerales gruesos ; altura 1.20 mm, espesor 0.40 mm.
 Guarnizioni "I" per vetri minerali spessi ; altezza 1.20 mm, spessore 0.40 mm.
 Juntas "I" para vidros minerais espessos ; altura 1.20 mm, espessura 0.40 mm.

Incrémenter 0.10 mm du Ø 25.00 au Ø 32.70 mm (préciser le diamètre lors de la commande).
Increment 0.10 mm from Ø 25.00 to Ø 32.70 mm (specify the diameter when ordering).
Inkrementieren 0.10 mm von Ø 25.00 bis Ø 32.70 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.10 mm del Ø 25.00 al Ø 32.70 mm (precisar el diámetro en el pedido).
Incrementare 0.10 mm dal Ø 25.00 al Ø 32.70 mm (specificare il diametro al momento dell'ordine).

Réf./Item nr.	Ø mm	Réf./Item nr.	Ø mm
VLX.JOINT/I350X12	35.00	VLX.JOINT/I380X12	38.00
VLX.JOINT/I355X12	35.50	VLX.JOINT/I385X12	38.50
VLX.JOINT/I360X12	36.00	VLX.JOINT/I390X12	39.00
VLX.JOINT/I365X12	36.50	VLX.JOINT/I395X12	39.50
VLX.JOINT/I370X12	37.00	VLX.JOINT/I400X12	40.00
VLX.JOINT/I375X12	37.50	VLX.JOINT/I405X12	40.50

» Joints/Gaskets "L"



Réf./Item nr.	Ø mm
VLX.JOINT/L175	17.50
...	...
VLX.JOINT/L365	36.50

Zytel (polyamide nylon)

Joints "L" pour verres minéraux épais.
 "L" gaskets for thick mineral crystals.
 "L" Dichtungen für dicke Mineralgläsern.
 Juntas "L" para vidrios minerales gruesos.
 Guarnizioni "L" per vetri minerali spessi.
 Juntas "L" para vidros minerais espessos.

Incrémenter 0.50 mm du Ø 17.50 au Ø 36.50 mm (préciser le diamètre lors de la commande).
Increment 0.50 mm from Ø 17.50 to Ø 36.50 mm (specify the diameter when ordering).
Inkrementieren 0.50 mm von Ø 17.50 bis Ø 36.50 mm (bei der Bestellung, den Durchmesser angeben).
Incrementar 0.50 mm del Ø 17.50 al Ø 36.50 mm (precisar el diámetro en el pedido).
Incrementare 0.50 mm dal Ø 17.50 al Ø 36.50 mm (specificare il diametro al momento dell'ordine).
Incrementar 0.50 mm do Ø 17.50 ao Ø 36.50 mm (precisar o diâmetro na encomenda).



Verres en plastique.

Plastic crystals.

Plastikgläsern.

Cristales en plástico.

Vetri di plastica.

Vidros de plástico.

MSA	N°/No.	Ø ext. mm	Ø int. mm	Épaisseur/ Thickness mm
50.300	003	20.00	19.10	2.20
50.301	P121	20.00	19.10	2.20
50.324	121	21.03	19.97	1.40
50.302	129	21.50	20.60	2.30
50.303	P101	21.50	20.60	2.30
50.304	104	25.40	24.40	2.60
50.305	P12	29.10	28.00	2.40
50.306	108	29.20	28.10	2.60
50.307	012	29.30	28.20	2.40
50.308	123	29.40	28.20	2.30
50.325	143	29.35	28.20	1.55
50.309	013	29.50	28.50	2.40
50.310	112	29.50	28.50	2.40

MSA	N°/No.	Ø ext. mm	Ø int. mm	Épaisseur/ Thickness mm
50.311	117	29.50	28.50	3.00
50.312	030	29.50	28.60	2.00
50.313	145	29.70	28.50	3.00
50.314	039	30.20	27.20	4.50
50.315	019	30.20	27.80	3.40
50.316	116	30.20	28.90	3.70
50.317	127	30.30	29.50	3.10
50.318	114	30.60	29.30	3.10
50.319	118	30.60	29.40	3.40
50.320	021	30.60	29.50	2.20
50.321	135	30.70	29.50	3.00
50.322	022	31.00	29.90	2.80
50.323	P124	33.20	31.50	2.60



Verres saphir, livrés avec 1 joint.

Sapphire crystals, delivered with 1 gasket.

Saphirgläsern, mit 1 Dichtung geliefert.

Vidrios zafiro, suministrados con 1 junta.

Vetri zaffiro, forniti con 1 guarnizione.

Vidros safira, entregues com 1 junta.

MSA	Ø mm	Épaisseur/Thickness mm	Avec loupe/With lens	Joint/Gasket
50.S25192	19.80	1.40	-	MSA43.S25192 (H. 1.80 mm)
50.S25206C	21.30	1.65	Oui/Yes	MSA43.S25206C (H. 1.80 mm)
50.S25206	21.60	1.65	-	MSA43.S25206C (H. 1.80 mm)
50.S25246C	25.30	1.65	Oui/Yes	MSA43.S25246 (H. 1.90 mm)
50.S25246	25.60	1.65	-	MSA43.S25246 (H. 1.90 mm)
50.S25286C	29.40	2.00	Oui/Yes	MSA43.S25286 (H. 2.20 mm)
50.S25285	29.40	3.20	-	MSA43.S25285 (H. 2.80 mm)
50.S25286	29.70	2.00	-	MSA43.S25286 (H. 2.20 mm)
50.S25295	30.40	2.05	-	MSA43.S25295C1 (H. 2.30 mm)
50.S25295C1	30.40	2.05	Oui/Yes	MSA43.S25295C1 (H. 2.30 mm)
50.S25295C2	30.40	2.05	Oui/Yes	MSA43.S25295C2 (H. 2.70 mm)
50.S25315C	32.80	2.20	Oui/Yes	MSA43.S25315C (H. 2.75 mm)



BAGUES DE LUNETTES BEZEL INSERTS GLASREIFRINGE
ANILLOS DE LUNETAS GHIERE DI LUNETTE ANILHAS DE AROS

Bagues de lunettes

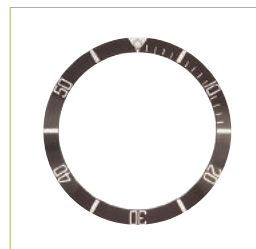
Bezel inserts

Glasreifringe

Anillos de lunetas

Ghiere di lunette

Anilhas de aros



Bagues de lunettes.
 Bezel inserts.

Glasreifringe.
 Anillos de lunetas.

Ghiere di lunette.
 Anilhas de aros.

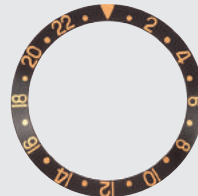
MSA79.14060-81

Ø ext./int. mm
 30.68/29.61



MSA79.16718-1

Ø ext./int. mm
 37.66/30.50



MSA79.16758-3

Ø ext./int. mm
 37.65/30.25



MSA79.16800-2

Ø ext./int. mm
 37.68/30.60



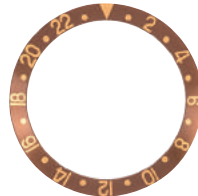
MSA79.16660-81

Ø ext./int. mm
 36.57/29.62



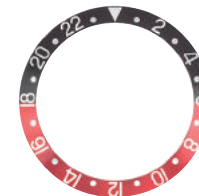
MSA79.16718-3

Ø ext./int. mm
 37.69/30.57



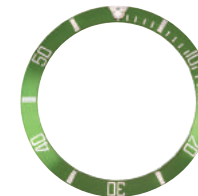
MSA79.16760-7

Ø ext./int. mm
 37.72/30.56



MSA79.16800-GRN

Ø ext./int. mm
 37.68/30.68



MSA79.16700-1

Ø ext./int. mm
 37.68/30.59



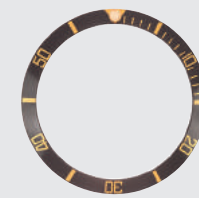
MSA79.16750-1

Ø ext./int. mm
 37.74/30.15



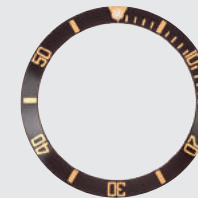
MSA79.1680-1

Ø ext./int. mm
 36.49/30.29



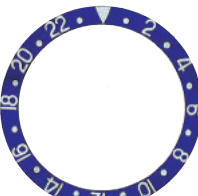
MSA79.16808-1

Ø ext./int. mm
 37.72/30.11



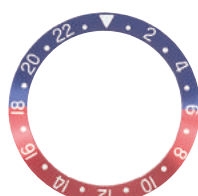
MSA79.16700-2

Ø ext./int. mm
 37.69/30.56



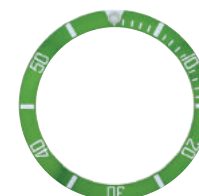
MSA79.16750-6

Ø ext./int. mm
 37.73/30.12



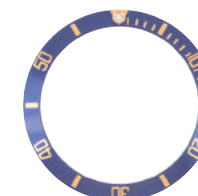
MSA79.1680-2

Ø ext./int. mm
 36.58/30.20



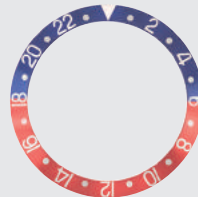
MSA79.16808-2

Ø ext./int. mm
 37.68/30.56



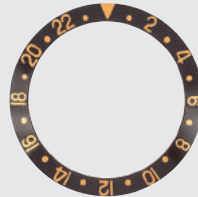
MSA79.16700-6

Ø ext./int. mm
 37.69/30.56



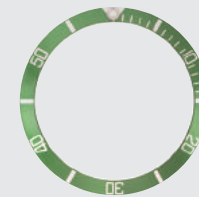
MSA79.16753-1

Ø ext./int. mm
 37.75/30.13



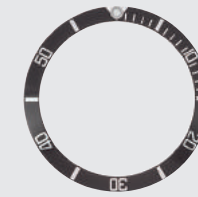
MSA79.1680-GRN

Ø ext./int. mm
 36.35/30.15



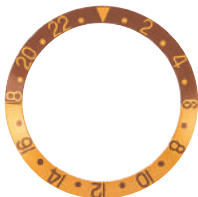
MSA79.5513-1

Ø ext./int. mm
 36.49/30.29



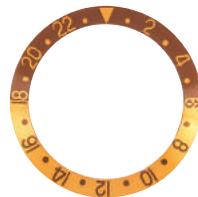
MSA79.16713-5

Ø ext./int. mm
 37.75/30.54



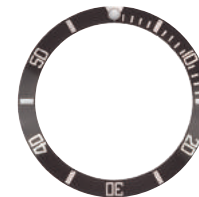
MSA79.16753-5

Ø ext./int. mm
 37.72/30.16



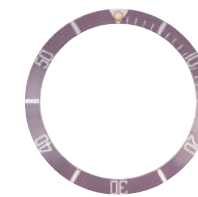
MSA79.16800-1

Ø ext./int. mm
 37.68/30.60



MSA79.5513-1G

Ø ext./int. mm
 36.58/30.29



MSA79.5513-2

Ø ext./int. mm
36.49/30.29



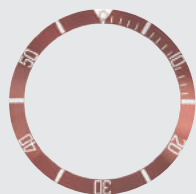
MSA79.B531

Ø ext./int. mm
38.29/30.16



MSA79.5513-7

Ø ext./int. mm
36.53/30.29



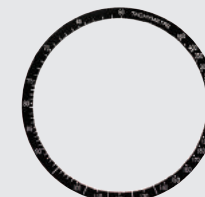
MSA79.SM01

Ø ext./int. mm
38.05/30.65



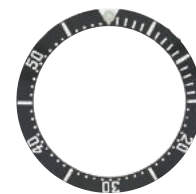
MSA79.SP01

Ø ext./int. mm
38.50/33.90



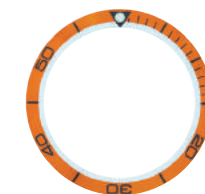
MSA79.SM02

Ø ext./int. mm
38.05/30.65



MSA79.SP02

Ø ext./int. mm
38.10/30.30



MSA79.SM03

Ø ext./int. mm
33.10/26.10



MSA79.SP03

Ø ext./int. mm
36.50/30.90



MSA79.CARRE-01

Ø ext./int. mm
40.80/35.15

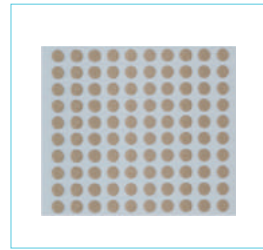


MSA79.CARRE-02

Ø ext./int. mm
40.80/35.15



Etiquettes autocollantes,
Self-stick labels
Selbstklebende Etiketten
Etiquetas autoadhesivas
Etichette autoadesive
Etiquetas autocolantes



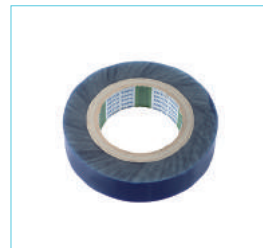
2

Etiquettes électrostatiques
Electrostatic labels
Elektrostatische Etiketten
Etiquetas electrostáticas
Etichette elettrostatiche
Etiquetas electrostáticas



4

Films de protection
Protective films
Schutzfilme
Films de protección
Film di protezione
Filmes de protecção

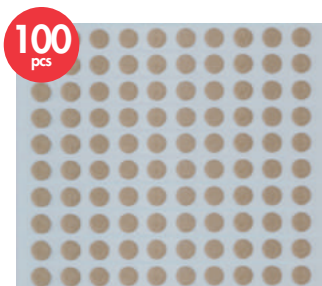


6

Rubans adhésifs en polyimide
Adhesive ribbons in polyimide
Klebebänder aus Polyimid
Cintas adhesivas en poliimida
Nastri adesivi in poliimmide
Fitas adesivas em poliimida



6



MSA	Ø mm	Kg
70.001	3	0.001

Autocollants ronds pour cadrans ; sachet de 100 pièces.
 Round self-adhesive stickers for dials ; bag of 100 pieces.
 Runde Aufkleber für Zifferblättern ; Beutel mit 100 Stück.
 Autoadhesivos redondos para esferas ; bolsita de 100 piezas.
 Autoadesivi tondi per quadranti ; bustina di 100 pezzi.
 Autocolantes redondos para mostradores ; saquinho de 100 peças.



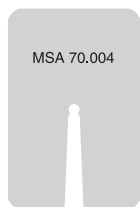
MSA	Dimension/Size mm	Kg
70.005	3 x 3	0.001

Autocollants carrés pour cadrans ; sachet de 100 pièces.
 Square self-adhesive stickers for dials ; bag of 100 pieces.
 Viereckige Aufkleber für Zifferblättern ; Beutel mit 100 Stück.
 Autoadhesivos cuadrados para esferas ; bolsita de 100 piezas.
 Autoadesivi quadrati per quadranti ; bustina di 100 pezzi.
 Autocolantes quadradas para mostradores ; saquinho de 100 peças.



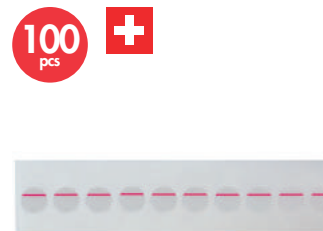
MSA	Dimension/Size mm	Kg
70.002	12 x 2	0.002

Autocollants rectangulaires pour cadrans ; sachet de 100 pièces.
 Rectangular self-adhesive stickers for dials ; bag of 100 pieces.
 Rechteckige Aufkleber für Zifferblättern ; Beutel mit 100 Stück.
 Autoadhesivos rectangulares para esferas ; bolsita de 100 piezas.
 Autoadesivi rettangolari per quadranti ; bustina di 100 pezzi.
 Autocolantes rectangulares para mostradores ; saquinho de 100 peças.



MSA	Dimension/Size mm	Kg
70.004	25 x 38 x 0.15	0.001

Protège cadran en matière synthétique, à utiliser lors de l'extraction des aiguilles.
 Dial protection of synthetic material, used during hands removing.
 Zifferblattschutz aus Kunststoff, verwendet während Zeiger Abhebung.
 Protector de esfera en materia sintética, utilizar durante la extracción de agujas.
 Protezione di quadrante in materia sintetica, da utilizzare durante l'estrazione delle lancette.
 Protector de mostrador em matéria sintética, a utilizar durante a extracção das agulhas.



MSA	Ø mm	Kg
70.006-10*	10	0.007
70.006-12*	12	0.008
70.006-15*	15	0.009
70.006-16	16	0.009
70.006-17	17	0.009
70.006-18	18	0.011
70.006-19	19	0.012
70.006-20	20	0.012
70.006-22	22	0.013

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock

Etiquettes autocollantes de protection avec marque rouge et onglet non gommé pour les fonds de boîte ; sachet de 100 pièces.

Protection self-adhesive labels with red mark and adhesive free lip for watch case backs ; bag of 100 pieces.

Selbstklebende Schutzetiketten mit rotem Zeichen und klebfreiem Gehring für Uhrgehäuseböden ; Beutel mit 100 Stück.

Etiquetas autoadhesivas de protección con marca roja y uñeta sin adhesivo para fondos de cajas ; bolsita de 100 piezas.

Etichette autoadesive di protezione con segno rosso e linghetta senza adesivo per fondi di casse ; bustina di 100 pezzi.

Etiquetas autocolantes de protecção com marca vermelha e onglete sem adesivo para fundos de caixas ; saquinho de 100 peças.

MSA	Ø mm	Kg	MSA	Ø mm	Kg
70.006-24	24	0.015	70.006-38	38	0.032
70.006-25	25	0.016	70.006-40	40	0.034
70.006-26	26	0.016	70.006-42	42	0.036
70.006-27	27	0.017	70.006-45	45	0.042
70.006-28	28	0.018	70.006-50	50	0.053
70.006-30	30	0.020	70.006-55	55	0.066
70.006-32	32	0.024	70.006-60	60	0.082
70.006-34	34	0.026			
70.006-36	36	0.031			



MSA	Ø mm	Kg
70.016-10*	10	0.054
70.016-16	16	0.085
70.016-17	17	0.091
70.016-18	18	0.098
70.016-19	19	0.100
70.016-20	20	0.111
70.016-22	22	0.120
70.016-24	24	0.135

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock

Etiquettes autocollantes de protection avec marque rouge et onglet non gommé pour les fonds de boîte ; rouleau de 1'000 pièces.

Protection self-adhesive labels with red mark and adhesive free lip for watch case backs ; roll of 1'000 pieces.

Selbstklebende Schutzetiketten mit rotem Zeichen und klebfreiem Gehring für Uhrgehäuseböden ; Rolle mit 1'000 Stück.

Etiquetas autoadhesivas de protección con marca roja y uñeta sin adhesivo para fondos de cajas ; rollo de 1'000 piezas.

Etichette autoadesive di protezione con segno rosso e linghetta senza adesivo per fondi di casse ; rullo di 1'000 pezzi.

Etiquetas autocolantes de protecção com marca vermelha e onglete sem adesivo para fundos de caixas ; rolo de 1'000 peças.

MSA	Ø mm	Kg	MSA	Ø mm	Kg
70.016-25	25	0.145	70.016-38	38	0.303
70.016-26	26	0.149	70.016-40	40	0.322
70.016-27	27	0.156	70.016-42	42	0.355
70.016-28	28	0.193	70.016-45	45	0.460
70.016-30	30	0.206	70.016-50	50	0.575
70.016-32	32	0.230	70.016-55	55	0.718
70.016-34	34	0.251	70.016-60	60	0.898
70.016-36	36	0.301			



Étiquettes électrostatiques de protection ; sachet de 100 pièces.
 Electrostatic protection labels ; bag of 100 pieces.
 Elektrostatische Schutzetiketten ; Beutel mit 100 Stück.
 Etiquetas electrostáticas de protección ; bolsita de 100 piezas.
 Etichette elettrostatiche di protezione ; bustina di 100 pezzi.
 Etiquetas electrostáticas de protecção ; saquinho de 100 peças.

MSA	Ø mm	Kg	MSA	Ø mm	Kg	MSA	Ø mm	Kg
70.003-15*	15	0.009	70.003-26	26	0.022	70.003-38	38	0.042
70.003-16*	16	0.009	70.003-27*	27	0.023	70.003-40	40	0.047
70.003-18*	18	0.010	70.003-28	28	0.024	70.003-42	42	0.053
70.003-20	20	0.011	70.003-30	30	0.026	70.003-45	45	0.060
70.003-22	22	0.015	70.003-32	32	0.029	70.003-50	50	0.075
70.003-24	24	0.019	70.003-34	34	0.032	70.003-55	55	0.094
70.003-25	25	0.020	70.003-36	36	0.035	70.003-60	60	0.118

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



Étiquettes électrostatiques de protection ; rouleau de 1'000 pièces.
 Electrostatic protection labels ; roll of 1'000 pieces.
 Elektrostatische Schutzetiketten ; Rolle mit 1'000 Stück.
 Etiquetas electrostáticas de protección ; rollo de 1'000 piezas.
 Etichette elettrostatiche di protezione ; rullo di 1'000 pezzi.
 Etiquetas electrostáticas de protecção ; rolo de 1'000 peças.

MSA	Ø mm	Kg	MSA	Ø mm	Kg	MSA	Ø mm	Kg
70.013-15*	15	0.086	70.013-26	26	0.178	70.013-38	38	0.410
70.013-16*	16	0.079	70.013-27*	27	0.206	70.013-40	40	0.460
70.013-18*	18	0.100	70.013-28	28	0.211	70.013-42	42	0.520
70.013-20	20	0.127	70.013-30	30	0.253	70.013-45	45	0.620
70.013-22	22	0.082	70.013-32	32	0.308	70.013-50	50	0.775
70.013-24	24	0.098	70.013-34	34	0.346	70.013-55	55	0.968
70.013-25	25	0.186	70.013-36	36	0.201	70.013-60	60	1.210

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



Étiquettes électrostatiques de protection ; sachet de 100 pièces.
 Electrostatic protection labels ; bag of 100 pieces.
 Elektrostatische Schutzetiketten ; Beutel mit 100 Stück.
 Etiquetas electrostáticas de protección ; bolsita de 100 piezas.
 Etichette elettrostatiche di protezione ; bustina di 100 pezzi.
 Etiquetas electrostáticas de protecção ; saquinho de 100 peças.

MSA	Dimension/Size mm	Kg
70.008-60	60 x 60	0.117



Étiquettes électrostatiques de protection ; rouleau de 1'000 pièces.
 Electrostatic protection labels ; roll of 1'000 pieces.
 Elektrostatische Schutzetiketten ; Rolle mit 1'000 Stück.
 Etiquetas electrostáticas de protección ; rollo de 1'000 piezas.
 Etichette elettrostatiche di protezione ; rullo di 1'000 pezzi.
 Etiquetas electrostáticas de protecção ; rolo de 1'000 peças.

MSA	Dimension/Size mm	Kg
70.008-60-A	60 x 60	0.117
70.008-70*	70 x 50	1.095
70.008-85*	70 x 85	1.880

* Jusqu'à épuisement des stocks / Will be discontinued after end of stock / Solange Vorrat /
 Hasta agotamiento del stock / Fino all'esaurimento dello stock / Até esgotamento do stock



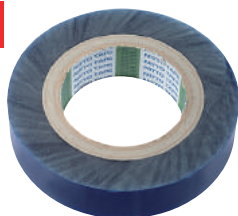
Feuille électrostatique de protection ; format A4.
 Electrostatic protection sheet ; A4 size.
 Elektrostatische Schutzblatt ; A4 Format.
 Hoja electrostática de protección ; formato A4.
 Foglio elettrostatico di protezione ; formato A4.
 Folha electrostática de protecção ; formato A4.

MSA	Dimension/Size mm	Kg
70.008-A4	297 x 210	0.023



Bande électrostatique de protection ; rouleau de 25 et 50 mètres.
 Electrostatic protection tape ; roll of 25 and 50 metres.
 Elektrostatische Schutzband ; Rolle von 25 und 50 Metern.
 Cinta electrostática de protección ; rollo de 25 y 50 metros.
 Striscia elettrostatica di protezione ; rullo di 25 e 50 metri.
 Fita electrostática de protecção ; rolo de 25 e 50 metros.

MSA	Largeur/Width mm	Longueur/Length mm	Épaisseur/Thickness mm	Kg
70.009-050	50	50	0.07	0.250
70.009-100	100	50	0.12	0.650
70.009-150	150	50	0.14	1.200
70.009-200	200	25	0.15	0.800



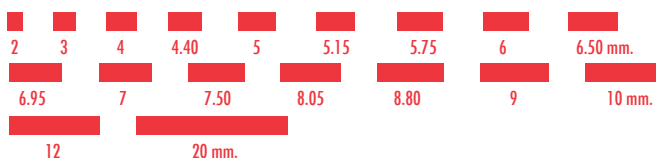
Film PVC de protection légèrement adhésif, épaisseur 75 µm ; rouleau de 100 mètres.
 Protective PVC film softly adhesive, thickness 75 µm ; roll of 100 meters.
 PVC Schutzfilm leicht selbstklebend, Dicke 75 µm ; Rolle von 100 Metern.
 Film PVC de protección ligeramente adhesivo, espesor 75 µm ; rollo de 100 metros.
 Film PVC di protezione leggermente adesivo, spessore 75 µm ; rullo di 100 metri.
 Filme PVC de protecção ligeiramente adesivo, espessura 75 µm ; rolo de 100 metros.

MSA	Largeur/Width mm	Couleur/Colour	Kg	MSA	Largeur/Width mm	Couleur/Colour	Kg
70.010-4	4	Bleu/Blue	0.046	70.010-25	25	Bleu/Blue	0.288
70.010-5	5	Bleu/Blue	0.058	70.010-30	30	Bleu/Blue	0.345
70.010-5/W	5	Transparent	0.058	70.010-35	35	Bleu/Blue	0.403
70.010-6	6	Bleu/Blue	0.069	70.010-40	40	Bleu/Blue	0.460
70.010-8	8	Bleu/Blue	0.092	70.010-45	45	Bleu/Blue	0.518
70.010-10	10	Bleu/Blue	0.115	70.010-50	50	Bleu/Blue	0.575
70.010-12	12	Bleu/Blue	0.138	70.010-50/W	50	Transparent	0.575
70.010-14	14	Bleu/Blue	0.161	70.010-55	55	Bleu/Blue	0.633
70.010-15	15	Bleu/Blue	0.173	70.010-60	60	Bleu/Blue	0.690
70.010-20	20	Bleu/Blue	0.230	70.010-65/W	65	Transparent	0.748

Toutes les largeurs sont disponibles en bleu ou transparent (autres largeurs sur demande) / All widths are available in blue or transparent (other widths on request)
 Alle Breiten sind in blau oder transparent verfügbar (weitere Breiten auf Anfrage) / Todas las anchuras son disponibles en azul y transparente (otras anchuras sobre pedido)
 Tutte le larghezze sono disponibili in blu e trasparente (altre larghezze su richiesta) / Todas as larguras são disponíveis azul e transparente (outras larguras sob pedido)



Largeur - Width - Breite - Anchura - Larghezza - Largura mm.



Ruban spécial en polyimide Kapton pour bracelets et boîtes de montre ; rouleau de 33 mètres.
 Special ribbon in Kapton polyimide for bracelets and watch cases ; roll of 33 meters.
 Spezialklebeband aus Kapton Polyimid für Armbänder und Uhrgehäuse ; Rolle von 33 Metern.
 Cinta especial en poliimida Kapton para brazaletes y cajas de reloj ; rollo de 33 metros.
 Nastro speciale in poliimide Kapton per cinturini e casse di orologio ; rullo di 33 metri.
 Fita especial em poliimida Kapton para braceletes e caixas de relógio ; rolo de 33 metros.

MSA	Largeur/Width mm	Kg	MSA	Largeur/Width mm	Kg
70.007-02	2.00	0.008	70.007-6.95	6.95	0.024
70.007-03	3.00	0.010	70.007-07	7.00	0.025
70.007-04	4.00	0.014	70.007-07.5	7.50	0.027
70.007-04.4	4.40	0.015	70.007-8.05	8.05	0.028
70.007-05	5.00	0.017	70.007-08.8	8.80	0.030
70.007-5.15	5.15	0.017	70.007-09	9.00	0.032
70.007-5.75	5.75	0.020	70.007-10	10.00	0.035
70.007-06	6.00	0.021	70.007-12	12.00	0.042
70.007-06.5	6.50	0.023	70.007-20	20.00	0.069



KITS POUR L'ASSEMBLAGE DE MONTRES WATCH ASSEMBLY KITS KITS FÜR UHRENMONTAGE

KITS PARA EL MONTAJE DE RELOJES KITS PER L'ASSEMBLAGGIO DI OROLOGI KITS PARA A MONTAGEM DE RELÓGIOS

Boîtes de montre, cadrans, aiguilles,
bracelets et mouvements

*Watch cases, dials, hands, straps and
movements*

Uhrgehäuse, Zifferblättern, Zeiger,
Armbänder und Werke

*Cajas de reloj, cuadrantes, agujas,
brazaletes e movimientos*

Casse di orologio, quadranti, lancette,
braccialetti e movimenti

*Caixas de relógio, mostradores, ponteiros,
pulseiras e movimentos*



2

Make your watch **Faites** votre montre



Calibre Valjoux 7750 - SW 500

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.011	Boîte titane/Titanium case	41.00	20	Saphir/Sapphire	Verre minéral/Mineral crystal	Voir/See page 5	0.066
66.013	Cadran blanc/White dial	33.50	-	-	-	-	0.003
66.015	Cadran bleu index/Blue index dial	33.50	-	-	-	-	0.003
66.016	Cadran noir/Black dial	33.50	-	-	-	-	0.003
66.017	Jeu d'aiguilles lumineuses/Set of luminous hands	-	-	-	-	-	-
ETAMP.7750	Mouvement/Movement	-	-	-	-	-	-
SWM.500	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en titane avec fond visible, cadrans (blanc, bleu ou noir) et aiguilles.

Titanium watch case with look through back, dials (white, blue or black) and hands.

Titan Uhrgehäuse mit sichtbarem Boden, Zifferblättern (weiss, blau oder schwarz) und Zeiger.

Caja de reloj en titanio con fondo visible, esferas (blanca, azul o negra) y agujas.

Cassa di orologio in titanio con fondo visibile, quadranti (bianco, blu o nero) e lancette.

Caixa de relógio em titânio com fundo visível, mostradores (branco, azul ou preto) e ponteiros.



Calibre ETA 2824-2 - SW 200-1

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.020	Boîte acier/Steel case	37.00	20	Minéral/Mineral	Verre minéral/Mineral crystal	Voir/See page 5	0.035
66.023	Cadran blanc/White dial	31.50	-	-	-	-	0.003
66.026	Cadran noir/Black dial	31.50	-	-	-	-	0.003
66.027	Jeu d'aiguilles lumineuses/Set of luminous hands	-	-	-	-	-	-
66.029	Jeu d'aiguilles noires/Set of black hands	-	-	-	-	-	-
ETAMP.2824-2	Mouvement/Movement	-	-	-	-	-	-
SWM.200-1	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en acier avec fond visible, cadrans (blanc ou noir) et aiguilles.

Steel watch case with look through back, dials (white or black) and hands.

Stahl Uhrgehäuse mit sichtbarem Boden, Zifferblättern (weiss oder schwarz) und Zeiger.

Caja de reloj en acero con fondo visible, esferas (blanca o negra) y agujas.

Cassa di orologio in acciaio con fondo visibile, quadranti (bianco o nero) e lancette.

Caixa de relógio em aço com fundo visível, mostradores (branco ou preto) e ponteiros.



Calibre Unitas 6497 (seconde à 9H/second at 9H) - Unitas 6498 (seconde à 6H/second at 6H)

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.030	Boîte acier/Steel case	48.00	22	Saphir/Sapphire	Verre minéral/Mineral crystal	Voir/See page 5	0.047
66.033	Cadran argenté (9H)/Silver dial (9H)	42.50	-	-	-	-	0.003
66.034	Cadran argenté (6H)/Silver dial (6H)	42.50	-	-	-	-	0.003
66.035	Cadran noir (9H)/Black dial (9H)	42.50	-	-	-	-	0.003
66.036	Cadran noir (6H)/Black dial (6H)	42.50	-	-	-	-	0.003
66.038	Jeu d'aiguilles rhodiées/Set of rhodium-plated hands	-	-	-	-	-	-
66.039	Jeu d'aiguilles noires/Set of black hands	-	-	-	-	-	-
ETAMP.6497-1	Mouvement/Movement	-	-	-	-	-	-
ETAMP.6498-1	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en acier (PVD noir) avec fond visible, cadrans (couleur argent ou noir) et aiguilles.

Steel watch case (black PVD) with look through back, dials (silver colour or black) and hands.

Stahl Uhrgehäuse (schwarzem PVD) mit sichtbarem Boden, Zifferblättern (Silber-Farbe oder schwarz) und Zeiger.

Caja de reloj en acero (PVD negro) con fondo visible, esferas (color plata o negra) y agujas.

Cassa di orologio in acciaio (PVD nero) con fondo visibile, quadranti (colore argento o nero) e lancette.

Caixa de relógio em aço (PVD preto) com fundo visível, mostradores (cor prata ou preto) e ponteiros.



Calibre Unitas 6497 (seconde à 9H/second at 9H) - Unitas 6498 (seconde à 6H/second at 6H)

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.040	Boîte acier/Steel case	45.00	22	Saphir/Sapphire	Verre minéral/Mineral crystal	Voir/See page 5	0.046
66.043	Cadran argenté (9H)/Silver dial (9H)	37.00	-	-	-	-	0.003
66.044	Cadran argenté (6H)/Silver dial (6H)	37.00	-	-	-	-	0.003
66.045	Cadran noir (9H)/Black dial (9H)	37.00	-	-	-	-	0.003
66.046	Cadran noir (6H)/Black dial (6H)	37.00	-	-	-	-	0.003
66.038	Jeu d'aiguilles rhodiées/Set of rhodium-plated hands	-	-	-	-	-	-
66.039	Jeu d'aiguilles noires/Set of black hands	-	-	-	-	-	-
ETAMP.6497-1	Mouvement/Movement	-	-	-	-	-	-
ETAMP.6498-1	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en acier avec fond visible, cadrans (couleur argent ou noir) et aiguilles.

Steel watch case with look through back, dials (silver colour or black) and hands.

Stahl Uhrgehäuse mit sichtbarem Boden, Zifferblättern (Silber-Farbe oder schwarz) und Zeiger.

Caja de reloj en acero con fondo visible, esferas (color plata o negra) y agujas.

Cassa di orologio in acciaio con fondo visibile, quadranti (colore argento o nero) e lancette.

Caixa de relógio em aço com fundo visível, mostradores (cor prata ou preto) e ponteiros.



Calibre Valjoux 7750 - SW 500

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.050	Boîte acier/Steel case	44.00	22	Saphir/Sapphire	Verre minéral/Mineral crystal	Voir/See page 5	0.079
66.053	Cadran blanc/White dial	38.00	-	-	-	-	0.004
66.056	Cadran noir/Black dial	38.00	-	-	-	-	0.004
66.017	Jeu d'aiguilles lumineuses/ Set of luminous hands	-	-	-	-	-	-
ETAMP.7750	Mouvement/Movement	-	-	-	-	-	-
SWM.500	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en acier avec fond visible, cadrans (blanc ou noir) et aiguilles.

Steel watch case with look through back, dials (white or black) and hands.

Stahl Uhrgehäuse mit sichtbarem Boden, Zifferblättern (weiss oder schwarz) und Zeiger.

Caja de reloj en acero con fondo visible, esferas (blanca o negra) y agujas.

Cassa di orologio in acciaio con fondo visibile, quadranti (bianco o nero) e lancette.

Caixa de relógio em aço com fundo visível, mostradores (branco ou preto) e ponteiros.



Calibre ETA 2892A2 - SW 300-1

MSA	Composants/Components	Ø mm	Entre-cornes/Lugs mm	Verre/Crystal	Fond/Back	Bracelets/Straps	Kg
66.060	Boîte acier/Steel case	41.00	20	Saphir/Sapphire	Verre minéral/Mineral crystal	Voir/See page 5	0.042
66.064	Cadran argenté/Silver dial	34.30	-	-	-	-	0.003
66.066	Cadran noir/Black dial	34.30	-	-	-	-	0.003
66.068	Jeu d'aiguilles rhodiées/ Set of rhodium-plated hands	-	-	-	-	-	-
66.069	Jeu d'aiguilles noires/ Set of black hands	-	-	-	-	-	-
ETAMP.2892A2	Mouvement/Movement	-	-	-	-	-	-
SWM.300-1	Mouvement/Movement	-	-	-	-	-	-

Boîte de montre en acier avec fond visible, cadrans (couleur argent ou noir) et aiguilles.

Steel watch case with look through back, dials (silver colour or black) and hands.

Stahl Uhrgehäuse mit sichtbarem Boden, Zifferblättern (Silber-Farbe oder schwarz) und Zeiger.

Caja de reloj en acero con fondo visible, esferas (color plata o negra) y agujas.

Cassa di orologio in acciaio con fondo visibile, quadranti (colore argento o nero) e lancette.

Caixa de relógio em aço com fundo visível, mostradores (cor prata ou preto) e ponteiros.



MSA	Largeur/Width mm	Couleur/Colour	Kg
66.200	20	Noir/Black	0.015
66.201	20	Bleu/Blue	0.015
66.202	20	Brun/Brown	0.015
66.203	20	Gris/Grey	0.015
66.204	20	Blanc/White	0.015
66.210	22	Noir/Black	0.015
66.211	22	Bleu/Blue	0.015
66.212	22	Brun/Brown	0.015
66.213	22	Gris/Grey	0.015
66.214	22	Blanc/White	0.015

Bracelets en cuir avec fermoirs standard ; noir, bleu, brun, gris ou blanc.

Leather straps with standard clasps ; black, blue, brown, grey or white.

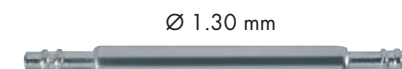
Lederarmbänder mit Standard Schliessen ; schwarz, blau, braun, grau oder weiss.

Correas de couro com cierres estándar ; negro, azul, castaño, gris o blanco.

Cinturini di cuoio con chiusure standard ; nero, blu, bruno, grigio o bianco.

Pulseiras de couro com fechos standard ; preto, azul, castanho, cinzento o branco.

i Voir le chapitre complet des BARRETTES et FERMOIRS, pages 2-xx et 10-xx.
 See the complete chapter of SPRING BARS and CLASPS, pages 2-xx and 10-xx.
 Siehe das vollständige Kapitel der FEDERSTEGE und SCHLIESSEN, Seiten 2-xx und 10-xx.
 Ver el capítulo completo de los PASADORES y CIERRES, páginas 2-xx y 10-xx.
 Vedere il capitolo completo delle ANSE e CHIUSURE, pagine 2-xx e 10-xx.
 Ver o capítulo completo dos PINOS e FECHOS, páginas 2-xx e 10-xx.



Ø 1.30 mm



PENDULERIE CLOCK PARTS PENDELUHR
 REPUESTOS PARA PÉNDULOS PENDOLERIA PÊNDULARIA

Clés pour pendules et montres de poche

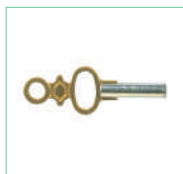
Keys for clocks and pocket watches

Schlüssel für Pendel- und Taschenuhren

Llaves para péndulos y relojes de bolsillo

Chiave per pendole e orologi da tasca

Chaves para pêndulos e relógios de bolso



2

Chiffres pour pendules

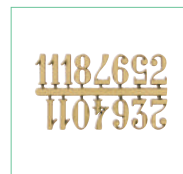
Pendulum numerals

Pendelziffern

Números para péndulos

Numeri per pendoli

Números para pêndulos



13

Goupilles coniques, gouttes et rondelles

Conical pins, hand-collets and washers

Konische Splinte und Scheibchen

Grupillas cónicas, gotas y arandellas

Copiglie coniche, goccie e rondelle

Cavilhas cônicas, gotas e rodelas



4

Suspensions pour pendules

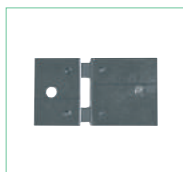
Pendulum suspensions

Pendelfedern

Suspensiones para péndulos

Sospensioni per pendoli

Suspensões para pêndulos



6

Suspensions pour pendules 400 jours

Suspensions for 400-day-clocks

Pendelfedern für Jahresuhren

Suspensiones para péndulos 400 días

Sospensioni per pendoli 400 giorni

Suspensões para pêndulos 400 dias



11



Clés pour pendules.
 Clock keys.
 Schlüssel für Pendeluhren.
 Llaves para péndulos.
 Chiave per pendole.
 Chaves para pêndulos.

PERF	N°	mm	Kg
44.000	0000	1.50	0.008
44.001	000	1.75	0.008
44.002	00	2.00	0.008
44.003	0	2.25	0.008
44.004	1	2.50	0.008
44.005	2	2.75	0.008
44.006	3	3.00	0.008

PERF	N°	mm	Kg
44.007	4	3.25	0.015
44.008	5	3.50	0.015
44.009	6	3.75	0.016
44.010	7	4.00	0.020
44.011	8	4.25	0.020
44.012	9	4.50	0.020
44.013	10	4.75	0.024

PERF	N°	mm	Kg
44.014	11	5.00	0.024
44.015	12	5.25	0.025
44.016	13	5.50	0.031
44.017	14	5.75	0.031
44.018	15	6.00	0.031

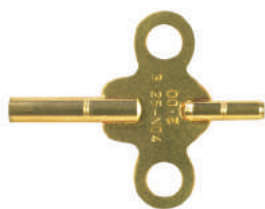


Clés pour pendules ; laiton.
 Clock keys ; brass.
 Schlüssel für Pendeluhren ; Messing.
 Llaves para péndulos ; latón.
 Chiave per pendole ; ottone.
 Chaves para pêndulos ; latão.

PERF	N°	mm	Kg
44.090	5	3.50	0.006
44.091	6	3.75	0.006
44.092	7	4.00	0.006
44.093	8	4.25	0.006
44.094	9	4.50	0.006

PERF	N°	mm	Kg
44.095	10	4.75	0.006
44.096	11	5.00	0.006
44.097	12	5.25	0.006
44.098	13	5.50	0.006
44.099	14	5.75	0.006

PERF	N°	mm	Kg
44.100	15	6.00	0.006
44.101	16	6.25	0.006
44.102	17	6.50	0.006
44.103	18	6.75	0.006
44.104	19	7.00	0.006



Clés doubles pour pendules.
 Clock double keys.
 Doppelschlüssel für Pendeluhren.
 Llaves dobles para péndulos.
 Chiave doppie per pendole.
 Chaves duplas para pêndulos.

PERF	mm	Kg
44.020	1.75-2.00	0.012
44.021	1.75-2.25	0.013
44.022	1.75-2.50	0.013
44.023	2.50-2.00	0.013
44.024	2.75-2.00	0.013
44.025	3.00-2.00	0.020

PERF	mm	Kg
44.026	3.25-2.00	0.016
44.027	3.50-2.00	0.016
44.028	3.75-2.00	0.015
44.029	4.00-2.00	0.015
44.030	4.25-2.00	0.017
44.031	4.50-2.00	0.018

PERF	mm	Kg
44.032	4.75-2.00	0.019
44.033	5.00-2.00	0.019
44.034	5.25-2.00	0.019
44.035	5.50-2.00	0.022
44.036	5.75-2.00	0.022



Clés à 5 branches pour montres de poche ; laiton.
 Five arm pocket watches keys ; brass.
 Schlüssel mit 5 Arme für Taschenuhren ; Messing.
 Llaves a 5 brazos para relojes de bolsillo ; latón.
 Chiave a 5 braccia per orologi da tasca ; ottone.
 Chaves de 5 braços para relógios de bolso ; latão.

PERF	N°	mm	Kg
44.250	3-5-7-9-11	1.65-1.50-1.30-1.15-1.00	0.012
44.251	2-4-6-8-10	1.75-1.60-1.40-1.20-1.05	0.012



Clés à 5 branches pour pendules.
 Five arm clock keys.
 Schlüssel mit 5 Arme für Pendeluhren.
 Llaves a 5 brazos para péndulos.
 Chiave a 5 braccia per pendole.
 Chaves de 5 braços para pêndulos.

PERF	N°	mm	Kg
44.050	2-4-6-8-10	2.75-3.25-3.75-4.25-4.75	0.048
44.051	3-5-7-9-11	3.00-3.50-4.00-4.50-5.00	0.052
44.052	4-6-8-10-12	3.25-3.75-4.25-4.75-5.25	0.052



Clés pour montres de poche, branche carrée ; acier trempé.
 Pocket watches keys, square arm ; tempered steel.
 Schlüssel für Taschenuhren, viereckiger Arm ; gehärtet Edelstahl.
 Llaves para relojes de bolsillo, brazo cuadrado ; acero templado.
 Chiave per orologi da tasca, braccio quadrato ; acciaio temperato.
 Chaves para relógios de bolso, braço quadrado ; aço temperado.

PERF	N°	mm	Kg
44.200	00	2.00	0.002
44.201	0	1.90	0.002
44.202	1	1.80	0.002
44.203	2	1.75	0.002
44.204	3	1.65	0.002

PERF	N°	mm	Kg
44.205	4	1.60	0.002
44.206	5	1.50	0.002
44.207	6	1.40	0.002
44.208	7	1.30	0.002
44.209	8	1.20	0.002

PERF	N°	mm	Kg
44.210	9	1.15	0.002
44.211	10	1.05	0.002
44.212	11	1.00	0.002
44.213	12	0.95	0.002



Assortiment de goupilles coniques; laiton.
 Assortment of conical pins; brass.
 Sortiment von konische Stiften; Messing.
 Surtido de grupillas cónicas; latón.
 Assortimento di copiglie coniche; ottone.
 Sortido de cavilhas cónicas; latão.

PERF	Qt.	Kg
48.000	100x	0.027



Assortiment de gouttes; laiton.
 Assortment of hand-collets; brass.
 Sortiment von Scheibchen; Messing.
 Surtido de gotas; latón.
 Assortimento di gocce; ottone.
 Sortido de gotas; latão.

PERF	Qt.	Kg
48.100	144x	0.031



Assortiment de goupilles coniques; acier.
 Assortment of conical pins; steel.
 Sortiment von konische Stiften; Stahl.
 Surtido de grupillas cónicas; acero.
 Assortimento di coppiglie coniche; acciaio.
 Sortido de cavilhas cónicas; aço.

PERF	Qt.	Kg
48.001	100x	0.026



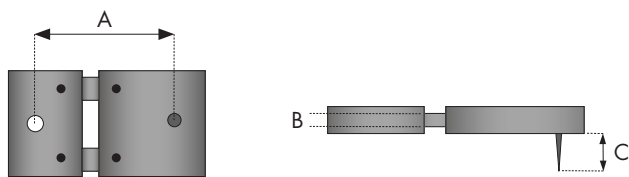
Assortiment de gouttes; acier.
 Assortment of hand-collets; steel.
 Sortiment von Scheibchen; Stahl.
 Surtido de gotas; acero.
 Assortimento di gocce; acciaio.
 Sortido de gotas; aço.

PERF	Qt.	Kg
48.101	144x	0.031



Assortiment de rondelles; acier.
 Assortment of washers; steel.
 Sortiment von Scheiben; Stahl.
 Surtido de arandelas; acero.
 Assortimento di rondelle; acciaio.
 Sortido de rodelas; aço.

PERF	Qt.	Kg
48.200	144x	0.035



Suspensions métalliques pour pendule.
 Metallic pendulum suspensions.
 Metallpendelfedern.
 Suspensiones metálicas para péndulo.
 Sospensioni metalliche per pendolo.
 Suspensões metálicas para pêndulo.

MSA	1/1	N°/No.	A x B x C mm	Kg
55.018		18	- x 0.10 x -	0.001
55.054-S		545	9.00 x 0.04 x 5.50	0.003
55.001		1	10.50 x 0.04 x 6.80	0.001
55.035		35	10.50 x 0.04 x 6.80	0.001
55.009		9	10.50 x 0.05 x 6.80	0.001
55.019		19	10.50 x 0.06 x 6.80	0.001
55.002		2	11.50 x 0.04 x 6.80	0.001
55.024		24	11.50 x 0.05 x -	0.001
55.037		37	12.00 x 0.04 x 6.80	0.001
55.300		300	12.50 x 0.04 x 6.80	0.001
55.016		16	12.50 x 0.05 x -	0.001
55.023		23	12.50 x 0.05 x -	0.001
55.003		3	12.50 x 0.05 x 6.80	0.001
55.010		10	12.50 x 0.05 x 6.80	0.001

MSA	1/1	N°/No.	A x B x C mm	Kg
55.036		36	12.50 x 0.05 x 6.80	0.001
55.038		38	12.50 x 0.05 x 6.80	0.001
55.039		39	17.00 x 0.05 x 6.80	0.001
55.307		307	12.50 x 0.05 x 6.80	0.001
55.017		17	13.00 x 0.04 x 6.80	0.001
55.202		202	13.00 x 0.04 x 6.80	0.001
55.020		20	13.00 x 0.06 x 6.80	0.001
55.008		8	13.50 x 0.04 x 6.80	0.001
55.004		4	13.50 x 0.05 x 6.80	0.001
55.022		22	14.00 x 0.05 x -	0.001
55.005		5	14.50 x 0.05 x 6.80	0.001
55.015		15	14.50 x 0.05 x 6.80	0.001
55.130		130	14.50 x 0.05 x 6.80	0.008
55.014		14	15.00 x 0.05 x 6.80	0.001
55.201		201	15.00 x 0.05 x 6.80	0.001
55.026		26	15.50 x 0.05 x -	0.001
55.006		6	15.50 x 0.06 x 6.80	0.001



MSA	1/1	N°/No.	A x B x C mm	Kg
55.048		48	15.50 x 0.06 x 7.80	0.003
55.303		303	15.50 x 0.07 x 7.80	0.001
55.304		304	15.50 x 0.10 x 7.80	0.001
55.128		128	16.00 x 0.05 x 6.80	0.001
55.021		21	16.00 x 0.06 x 6.80	0.001
55.311		311	16.50 x 0.05 x 6.80	0.008
55.007		7	16.50 x 0.06 x 6.80	0.001
55.012		12	17.00 x 0.05 x 6.80	0.001
55.025		25	17.00 x 0.05 x -	0.001
55.027		27	17.50 x 0.04 x 6.80	0.001
55.301		301	17.50 x 0.06 x 8.00	0.001
55.132		132	18.00 x 0.05 x 6.80	0.001
55.045		45	18.00 x 0.06 x 7.80	0.002
55.047		47	18.00 x 0.06 x 7.80	0.002
55.308		308	18.00 x 0.10 x -	0.001
55.028		28	18.50 x 0.05 x 6.80	0.001

MSA	1/1	N°/No.	A x B x C mm	Kg
55.131		131	18.50 x 0.06 x 6.80	0.008
55.013		13	19.00 x 0.05 x 6.80	0.001
55.102		102	19.00 x 0.50	0.001
55.029		29	19.50 x 0.05 x 6.80	0.001
55.046		46	19.50 x 0.06 x 7.80	0.002
55.049		49	19.50 x 0.06 x 7.80	0.001
55.312		312	20.00 x 0.06 x 6.80	0.008
55.043		43	20.00 x 0.07 x 7.80	0.001
55.041		41	20.50 x 0.07 x 7.80	0.003
55.042		42	20.50 x 0.07 x 7.80	0.002
55.313		313	23.00 x 0.07 x 6.80	0.008
55.040		40	26.00 x 0.07 x 6.80	0.003

Suspensions en plastique pour pendule.
 Plastic pendulum suspensions.

Kunststoffpendelfedern.
 Suspensiones de plástico para péndulo.

Sospensioni in plastica per pendolo.
 Suspensões de plástico para pêndulo.

MSA	1/1	N°/No.	A x B x C mm	Kg
55.295		295	19.00 x 0.10 x -	0.001
55.296		296	32.00 x 0.10 x -	0.001



Assortiment de suspensions en métal pour pendule.
 Assortment of pendulum metal suspensions.
 Sortiment von metallische Pendelfedern.
 Surtido de suspensiones en metal para péndulo.
 Assortimento di sospensioni di metallo per pendolo.
 Sortido de suspensões em metal para pêndulo.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
2x MSA55.001 /.002 /.003 /.006 /.007 /.008 /.010 /.017 /.027
/.035 /.311 /.312

MSA	Qt.	Kg
99.013	24x	0.057



Assortiment de suspensions en métal pour pendule.
 Assortment of pendulum metal suspensions.
 Sortiment von metallische Pendelfedern.
 Surtido de suspensiones en metal para péndulo.
 Assortimento di sospensioni di metallo per pendolo.
 Sortido de suspensões em metal para pêndulo.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
12 modèles - models - Modelle - modelos - modelli - modelos
3x MSA55.001 /.002 /.003 /.006 /.007 /.008 /.010 /.017 /.027
/.035 /.311 /.312

MSA	Qt.	Kg
99.014	36x	0.067

MSA	N°/No.	Description	Kg
55.901	1	Dessus/Upper part Gr. 1	0.001
55.902	2	Dessous/Bottom part Gr. 1	0.001
55.903	3	Dessus/Upper part Gr. 2	0.001
55.904	4	Dessous/Bottom part Gr. 2	0.001
55.905	5	Dessus/Upper part Gr. 3	0.001
55.906	6	Dessous/Bottom part Gr. 3	0.001
55.907	7	Jeu/Set MSA55.901+MSA55.902	0.002
55.908	8	Jeu/Set MSA55.903+MSA55.904	0.002
55.909	9	Jeu/Set MSA55.905+MSA55.906	0.002

Plaques supérieures et inférieures pour pendules 400 jours.
 Upper and bottom fittings for 400-day-clocks.
 Ober- und Unterbeschläge für Jahresuhren.
 Placas superiores e inferiores para péndulos 400 días.
 Lastre superiori e inferiori per pendoli 400 giorni.
 Placas superiores e inferiores para péndulos 400 dias.



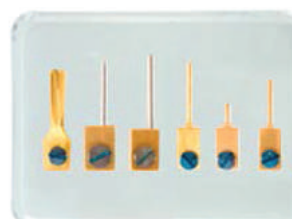
Assortiment de plaques supérieures et inférieures pour pendules 400 jours.
 Assortment of upper and bottom fittings for 400-day-clocks.
 Sortiment von Ober- und Unterbeschläge für Jahresuhren.
 Surtido de placas superiores e inferiores para péndulos 400 días.
 Assortimento di lastre superiori e inferiori per pendoli 400 giorni.
 Sortido de placas superiores e inferiores para péndulos 400 dias.

MSA	Qt.	Kg
55.921	6x	0.020

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
1x MSA55.901 /.902 /.903 /.904 /.905 /.906

MSA	N°/No.	Kg
55.910	EH	0.001
55.911	EK	0.001
55.912	EN	0.001
55.913	G1	0.001
55.914	G2	0.001
55.915	MK	0.001

Entraîneurs pour pendules 400 jours.
 Actuators for 400-day-clocks.
 Mitnehmern für Jahresuhrenpendeln.
 Arrastres para péndulos 400 días.
 Conduttori per pendoli 400 giorni.
 Arrastadores para péndulos 400 dias.



Assortiment d'entraîneurs pour pendules 400 jours.
 Assortment of actuators for 400-day-clocks.
 Sortiment von Mitnehmern für Jahresuhrenpendeln.
 Surtido de arrastres para péndulos 400 días.
 Assortimento di conduttori per pendoli 400 giorni.
 Sortido de arrastadores para péndulos 400 dias.

MSA	Qt.	Kg
55.920	6x	0.020

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
1x MSA55.910 /.911 /.912 /.913 /.914 /.915



MSA	N°/No.	A x B x C mm	Kg
55.930	04	0.050 x 0.60 x 160	0.001
55.931	06	0.060 x 0.60 x 160	0.001
55.932	07	0.066 x 0.60 x 160	0.001
55.933	08	0.070 x 0.60 x 160	0.001
55.934	09	0.075 x 0.60 x 160	0.001
55.935	10	0.080 x 0.60 x 160	0.001
55.936	11	0.085 x 0.60 x 160	0.001
55.937	12	0.090 x 0.60 x 160	0.001
55.938	13	0.095 x 0.60 x 160	0.001
55.939	14	0.100 x 0.60 x 160	0.001

A : Epaisseur - Thickness - Dicke - Grosor - Spessore - Espessura
 B : Largeur - Width - Breite - Anchura - Larghezza - Largura
 C : Longueur - Length - Länge - Longitud - Lunghezza - Comprimento.

Fils de suspension pour pendules 400 jours, forme carrée.
 Suspension spring wires for 400-day-clocks, square shape.
 Drehpendelfederndrähte für Jahresuhren, viereckige Form.
 Hilos de suspensión para péndulos 400 días, forma cuadrada.
 Fili di sospensione per pendoli 400 giorni, forma quadrata.
 Fios de suspensão para pêndulos 400 dias, forma quadrada.



Assortiment de fils de suspension pour pendules 400 jours.
 Assortment of suspension spring wires for 400-day-clocks.
 Sortiment von Drehpendelfederndrähte für Jahresuhrenpendeln.
 Surtido de hilos de suspensión para péndulos 400 días.
 Assortimento di fili di sospensione per pendoli 400 giorni.
 Sortido de fios de suspensão para pêndulos 400 dias.

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
1x MSA55.930 /.931 /.932 /.933 /.934 /.935 /.936 /.937 /.938
/.939

MSA	Qt.	Kg
55.940	10x	0.015



MSA	Hauteur/Height	Kg
55.601	10 mm / 3/8"	0.002
55.602	13 mm / 1/2"	0.004
55.603	16 mm / 5/8"	0.006
55.604	21 mm / 13/16"	0.006
55.605	25 mm / 1"	0.009

Chiffres autocollants pour pendule ; 1 à 12.
 Self-adhesive pendulum numerals ; 1 to 12.
 Aufklebende Pendelziffern ; 1 bis 12.
 Números autoadhesivos para péndulo ; 1 hasta 12.
 Numeri autoadesivi per pendolo ; 1 a 12.
 Números autocolantes para pêndulo ; 1 a 12.



MSA	Hauteur/Height	Kg
55.611	10 mm / 3/8"	0.003
55.612	13 mm / 1/2"	0.003
55.613	16 mm / 5/8"	0.005
55.614	21 mm / 13/16"	0.007
55.615	25 mm / 1"	0.008

Chiffres autocollants pour pendule ; 3, 6, 9 et 12.
 Self-adhesive pendulum numerals ; 3, 6, 9 and 12.
 Aufklebende Pendelziffern ; 3, 6, 9 und 12.
 Números autoadhesivos para péndulo ; 3, 6, 9 y 12.
 Numeri autoadesivi per pendolo ; 3, 6, 9 e 12.
 Números avocolantes para pêndulo ; 3, 6, 9 e 12.



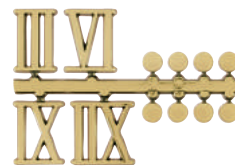
MSA	Hauteur/Height	Kg
55.621	16 mm / 5/8"	0.003
55.622	19 mm / 3/4"	0.004
55.623	25 mm / 1"	0.005

Chiffres autocollants pour pendule ; 3, 6, 9, 12 et index.
 Self-adhesive pendulum numerals ; 3, 6, 9, 12 and indexes.
 Aufklebende Pendelziffern ; 3, 6, 9, 12 und Indexzeichen.
 Números autoadhesivos para péndulo ; 3, 6, 9, 12 y índices.
 Numeri autoadesivi per pendolo ; 3, 6, 9, 12 e indici.
 Números autocolantes para pêndulo ; 3, 6, 9, 12 e índices.



Chiffres autocollants pour pendule ; 3, 6, 9, 12 et index.
 Self-adhesive pendulum numerals ; 3, 6, 9, 12 and indexes.
 Aufklebende Pendelziffern ; 3, 6, 9, 12 und Indexzeichen.
 Números autoadhesivos para péndulo ; 3, 6, 9, 12 y índices.
 Numeri autoadesivi per pendolo ; 3, 6, 9, 12 e indici.
 Números autocolantes para pêndulo ; 3, 6, 9, 12 e índices.

MSA	Hauteur/Height	Kg
55.631	16 mm / 5/8"	0.003
55.632	19 mm / 3/4"	0.004
55.633	25 mm / 1"	0.007



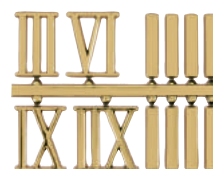
Chiffres autocollants pour pendule ; III, VI, IX, XII et index.
 Self-adhesive pendulum numerals ; III, VI, IX, XII and indexes.
 Aufklebende Pendelziffern ; III, VI, IX, XII und Indexzeichen.
 Números autoadhesivos para péndulo ; III, VI, IX, XII y índices.
 Numeri autoadesivi per pendolo ; III, VI, IX, XII e indici.
 Números autocolantes para pêndulo ; III, VI, IX, XII e índices.

MSA	Hauteur/Height	Kg
55.671	16 mm / 5/8"	0.004
55.672	19 mm / 3/4"	0.004
55.673	25 mm / 1"	0.006



MSA	Hauteur/Height	Kg
55.651	10 mm / 3/8"	0.002
55.652	13 mm / 1/2"	0.004
55.653	16 mm / 5/8"	0.005
55.654	21 mm / 13/16"	0.008
55.655	25 mm / 1"	0.010

Chiffres autocollants pour pendule ; I à XII.
 Self-adhesive pendulum numerals ; I to XII.
 Aufklebende Pendelziffern ; I bis XII.
 Números autoadhesivos para péndulo ; I hasta XII.
 Numeri autoadesivi per pendolo ; I a XII.
 Números autocolantes para pêndulo ; I a XII.



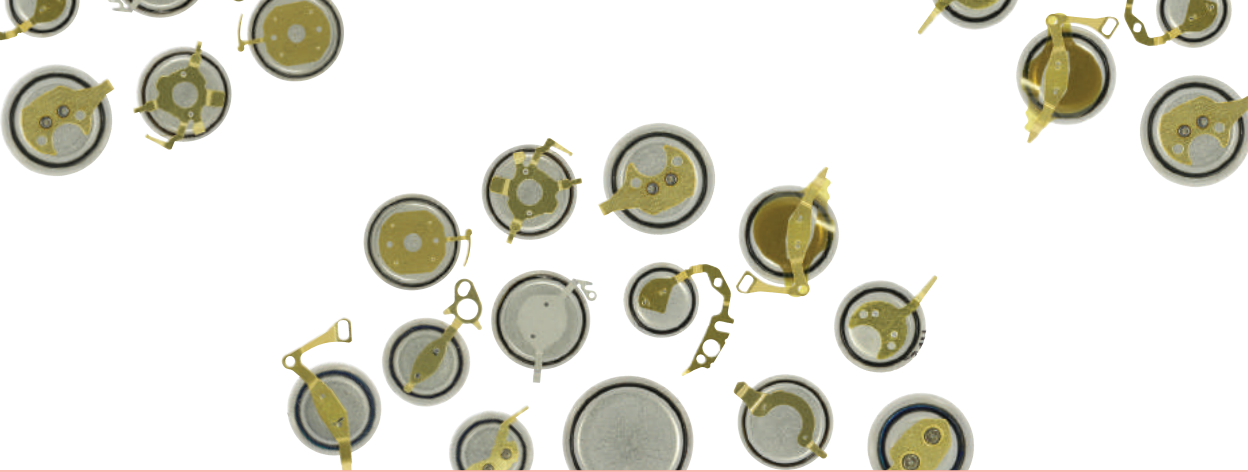
MSA	Hauteur/Height	Kg
55.681	16 mm / 5/8"	0.004
55.682	19 mm / 3/4"	0.005
55.683	25 mm / 1"	0.007

Chiffres autocollants pour pendule ; III, VI, IX, XII et index.
 Self-adhesive pendulum numerals ; III, VI, IX, XII and indexes.
 Selbstklebende Pendelziffern ; III, VI, IX, XII und Indexzeichen.
 Números autoadhesivos para péndulo ; III, VI, IX, XII y índices.
 Numeri autoadesivi per pendolo ; III, VI, IX, XII e indici.
 Números autocolantes para pêndulo ; III, VI, IX, XII e índices.



MSA	Hauteur/Height	Kg
55.661	10 mm / 3/8"	0.002
55.662	13 mm / 1/2"	0.004
55.663	16 mm / 5/8"	0.004
55.664	21 mm / 13/16"	0.007
55.665	25 mm / 1"	0.014

Chiffres autocollants pour pendule ; III, VI, IX et XII.
 Self-adhesive pendulum numerals ; III, VI, IX and XII.
 Aufklebende Pendelziffern ; III, VI, IX und XII.
 Números autoadhesivos para péndulo ; III, VI, IX y XII.
 Numeri autoadesivi per pendolo ; III, VI, IX e XII.
 Números autocolantes para pêndulo ; III, VI, IX e XII.



PILES BATTERIES BATTERIEN
 BATERÍAS PILE PILHAS

Piles
 Batteries
 Batterien
 Baterías
 Pile
 Pilhas



2

Adaptateurs de pile
 Battery adapters
 Batterieadapter
 Adaptadores de batería
 Adattatori di pila
 Adaptadores de pilha



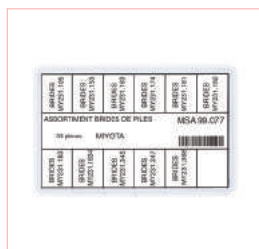
5

Accumulateurs
 Capacitors
 Akkumulatoren
 Acumuladores
 Accumulatori
 Acumuladores



6

Assortiments de brides de fixation de pile
 Assortments of battery clamps
 Sortiment von Batteriehalterfedern
 Surtidos de bridas de fijación de batería
 Assortimenti di bride di fissaggio della pilla
 Sortidos de bridas de fixação de pilha



10

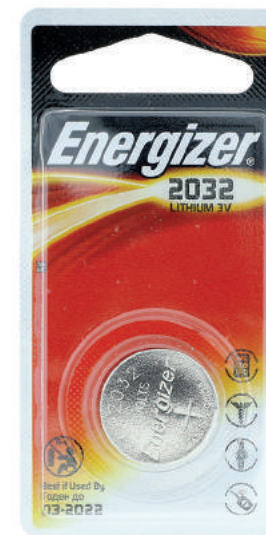


Piles type bouton Energizer® 0% mercure.
Energizer® button type batteries 0% mercury.
Energizer® Knopf-Typ Batterien 0% Quecksilber.
Baterías tipo botón Energizer® 0% mercurio.
Pile tipo bottone Energizer® 0% mercurio.
Pilhas tipo botão Energizer® 0% mercúrio.

Réf./Item	N°/Nr.
PILE301	301/386
PILE386	Voir/See PILE301
PILE303	303/357
PILE357	Voir/See PILE303
PILE309	Voir/See PILE393
PILE393	393/309
PILE314	314/315
PILE317	317
PILE319	319
PILE321	321
PILE329	329
PILE335	335
PILE337	337
PILE341	341

Réf./Item	N°/Nr.
PILE344	344/350
PILE350	Voir/See PILE344
PILE346	346
PILE361	Voir/See PILE362
PILE362	362/361
PILE363	Voir/See PILE364
PILE364	364/363
PILE365	365/366
PILE366	Voir/See PILE365
PILE370	Voir/See PILE371
PILE371	371/370
PILE373	373
PILE376	Voir/See PILE377
PILE377	377/376

Réf./Item	N°/Nr.
PILE379	379
PILE380	Voir/See PILE394
PILE394	394/380
PILE391	391/381
PILE384	Voir/See PILE392
PILE392	392/384
PILE389	389/390
PILE390	Voir/See PILE389
PILE395	395/399
PILE399	Voir/See PILE395



Piles lithium Energizer®.
Energizer® lithium batteries.
Energizer® Lithium-Batterien.
Baterías de litio Energizer®.
Pile di litio Energizer®.
Pilhas de lítio Energizer®.

Réf./Item	N°/Nr.
PILEBR1225	BR1225
PILEBR2325	BR2325
PILEBR2330	BR2330
PILECR1025	CR1025
PILECR1216	CR1216
PILECR1220	CR1220

Réf./Item	N°/Nr.
PILECR1616	CR1616
PILECR1620	CR1620
PILECR1632	CR1632
PILECR2	CR2
PILECR2-12	CR2, FS8-2
PILECR2016	CR2016

Réf./Item	N°/Nr.
PILECR2025	CR2025
PILECR2032	CR2032
PILECR2320*	CR2320
PILECR2430	CR2430
PILECR2450	CR2450

* Renata



Horotec SA est le représentant exclusif Energizer® pour l'industrie horlogère suisse.
Horotec SA ist der Energizer® Exklusivvertreter für die Schweizer Uhrindustrie.
Horotec SA è il rappresentante esclusivo Energizer® per l'industria orologiera svizzera.

Piles type bouton Energizer® 0% mercure.
Energizer® Knopf-Typ Batterien 0% Quecksilber.
Pile tipo bottone Energizer® 0% mercurio.

Réf./Item	N°/Nr.
PILE317VPO	317
PILE321VPO	321
PILE329VPO	329
PILE335VPO	335
PILE341VPO	341

Réf./Item	N°/Nr.
PILE362/361VPO	362/361
PILE364/363VPO	364/363
PILE371/370VPO	371/370
PILE377/376VPO	377/376
PILE379VPO	379

Réf./Item	N°/Nr.
PILE392/384VPO	392/384
PILE394/380VPO	394/380
PILE395/399VPO	395/399
PILE397/396VPO	397/396

Livraison sur plateau (commande minimum : 500 pièces par référence).
Lieferung auf Schale (Mindestauftrag: 500 Stück per Referenz).
Consegna su vassoio (Ordine minimo : 500 pezzi per referenza).



Piles lithium Leclanché®.
Leclanché® lithium batteries.
Leclanché® Lithium-Batterien.
Baterías de litio Leclanché®.
Pile di litio Leclanché®.
Pilhas de lítio Leclanché®.

Réf./Item	N°/Nr.
PILELS14250	LS14250 - 3.6 V
PILELS14500	LS14500 - 3.6 V
PILELS33600	LS33600 - 3.6 V



Piles diverses Energizer®.
Energizer® miscellaneous batteries.
Energizer® unterschiedliche atterrien.
Baterías diversas Energizer®.
Pile diverse Energizer®.
Pilhas diversas Energizer®.

Réf./Item	N°/Nr.	Emballage/Packaging
PILE10	AC10E/10/PR70	Blister 8 pces
PILE123	123/CR17345	Blister 1 pce
PILE13	AC13E/13/PR48	Blister 8 pces
PILE312	AC312E/312/PR41	Blister 8 pces
PILE6LR61VRAC12	6LR61/6AM6	Vrac/Bulk 12 pces
PILEA23	A23/E23A	Blister 1 pce
PILEA27/2	A27	Blister 2 pces
PILEA544	A544/4LR44	Blister 1 pce
PILEE11A	E11A/A11	Blister 1 pce
PILEEPX625	EPX625G/LR9	Blister 1 pce
PILEPX76	EPX76/SR44	Blister 2 pces
PILEER3S1/2AA*	ER3S 1/2 AA	-
PILEHR03	AAA HR03 850	Blister 2 pces
PILEHR14	HR14	Blister 2 pces
PILEHR6	AA HR6 2450	Blister 4 pces
PILEL91	AA/L91/FR6	Blister 2 pces
PILEL92	AAA/L92/FR03	Blister 2 pces
PILELR03	AAA/xLR03	Blister 4 pces
PILELR03VP	AAA/LR03	Carton 615 pces
PILELR03VRAC10	AAA LR03/AM4	Vrac/Bulk 10 pces

* Leclanché

Réf./Item	N°/Nr.	Emballage/Packaging
PILELR1	LR1/E90	Blister 1 pce
PILELR14	LR14	Blister 2 pces
PILELR14VP	C LR14/AM2	Carton 176 pces
PILELR14VRAC12	LR14/AM2	Vrac/Bulk 12 pces
PILELR14VRAC72	LR14/AM2	Vrac/Bulk 72 pces
PILELR1VRAC576	LR1	Vrac/Bulk 576 pces
PILELR20	LR20	Blister 2 pces
PILELR20VP	D LR20/AM1	Carton 100 pces
PILELR20VRAC12	LR20/AM1	Vrac/Bulk 12 pces
PILELR43	LR43/186	Blister 2 pces
PILELR44	LR44/A76	Blister 2 pces
PILELR54	LR54/189	Blister 2 pces
PILELR55	LR55/191	Blister 2 pces
PILELR6	LR6	Blister 4 pces
PILELR61	AAAA/LR61/AM5/E96	Blister 2 pces
PILELR6VP	AA/LR6/AM3	Carton 325 pces
PILELR6VRAC10	AA LR6/AM3	Vrac/Bulk 10 pces
PILELR6VRAC325	AA LR6/AM3	Vrac/Bulk 325 pces



Réf./Item no.	Dimension/Size mm	Kg
PIL001	Ø 16.00 x 10.80	0.007

Adaptateur de pile pour réveil Cartier (pile EPX625G).
Battery adapter for alarm clock Cartier (battery EPX625G).
Batterieadapter für Cartier-Wecker (Batterie EPX625G).
Adaptador de batería para despertador Cartier (pila EPX625G).
Adattatore di pila per sveglia Cartier (pila EPX625G).
Adaptador de pilha para despertador Cartier (pilha EPX625G).



Réf./Item	Ø ext. x Ø int. mm	Epaisseur/Thickness mm	Kg
PIL002	8.50 x 7.60	2.25	0.001

Adaptateur en Teflon® pour pile 388, remplacée par la pile 329.
Teflon® adapter for battery 388, replaced by the battery 329.
Teflon® Adapter für Batterie 388, ersetzt bei der Batterie 329.
Adaptador Teflon® para batería 388, sustituida por la batería 329.
Adattatore Teflon® per pila 388, sostituita dalla pila 329.
Adaptador Teflon® para pilha 388, substituida pela pilha 329.



Accumulateurs Seiko.
 Capacitors Seiko.
 Akkumulatoren Seiko.
 Acumuladores Seiko.
 Accumulatori Seiko.
 Acumuladores Seiko.

Réf./Item	Dimensions/Sizes	Calibres
S302265U	CTL920	S760A
S302324H	MT920	V172 - V174 - V175
S302324L	MT920	5D22 - 5D44
S302324M	MT920	7B22 - 7B24 - 7B25 - 7B26 - 7B32 - 7B37 - 7B42 - 7B52
S302324P	MT920	V121 - V122
S302324R	MT920	7M12A - 7M22A - 7M42A
S302324T	MT920	7L22 - YT57B
S302324X	MT920	5J21A - 5J22A - 5J23A - 5J32
S302324Y	MT920	5K22A - 5K25A - 5K2JA - V142A - V145A - V14JA - VS32
S302344Z	TC920	5M62A - 5M63A - 5M65A
S30235MZ	TC920	5M22A - 5M23A - 5M25A - 5M42 - 5M43 - 5M47 - 5M54 - YT57 - YT58

Réf./Item	Dimensions/Sizes	Calibres
S302624X	-	V137
S302726T	MT516	V110A
S302726Y	MT516	1M20A
S302726Z	MT516	4M61 - 4M71
S302729N	MT616	3M62A
S302729R	MT616	4M21
S302729Y	MT616	V181 - V182
S30273MZ	MT616	3M21A - 3M22A - MT35
S30274MZ	MT616	3M62
S3029109	MT616	5Y75



Accumulateurs Citizen.
 Capacitors Citizen.
 Akkumulatoren Citizen.
 Acumuladores Citizen.
 Accumulatori Citizen.
 Acumuladores Citizen.

Réf./Item	Dimensions/Sizes	Calibres
CT295.29	MT920	0850A - 0855A - 0870A - 0875A
CT295.31	MT1620	9447 - 9448 - 9455 - 9457
CT295.33	MT621	8511A - 8512A - 8515A - 862A - 8626A - 8628A 8629A - 8651 - 8730
CT295.34	MT920	7820A - 7870A - 7872A - 7875A - 7877A
CT295.37	-	Voir/See CT295.55
CT295.38	MT920	C601 - C605 - C615
CT295.39	MT920	5080
CT295.40	-	Voir/See CT295.56
CT295.41	MT616	A310A - A315A
CT295.44	MT1620	A160 - A270 - C690
CT295.45	-	Voir/See CT295.63
CT295.46	-	Voir/See CT295.61
CT295.50	-	Voir/See CT295.55
CT295.51	MT621	E000M - E001M - E010M - E011M - E030M - E031M E068M - E100M - E101M - E110M - E111M - E168M E410G - G430M - G431M - G530G - H500M - H501M H570M - H571M
CT295.53	US2025	D600

Réf./Item	Dimensions/Sizes	Calibres
CT295.55	MT621	A114A - A119A - A134A - A234 - A234A - A239A - BP10 F810M - F910M - 8511
CT295.56	MT920	7W71 - 7821A - 7828A - 7871A - 7873 - 7876 - 7878 7879 - A730-G - B510 - B690 - B800M - B810M B870M - B873M
CT295.57	MT920	7810A - 7811A - 7812A - 7815A - 7817A
CT295.60	MT621	B232M - B236M - B237M - BP10
CT295.61	-	Voir/See CT295.76
CT295.63	-	Voir/See CT295.60
CT295.65	MT1620	A410M - A411M - A412M - A413M - A414M
CT295.66	MT616	G820M - G870M
CT295.67	MT416F	G620M - G670M - G671M - J620M
CT295.69	CTL920	E600M - E610M - E670M - G900M
CT295.758	CTL920	E310M - E690M - U200 - U700 - U706
CT295.76	MT516	B023M - B033M - B035M - B036M - H335M - H338M H360M - H380M - J015M - J165M
CT295.763	MT516	J015M - J165M

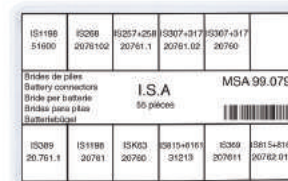


Assortiment de brides de fixation de pile ; **Miyota.**
 Assortment of battery clamps ; **Miyota.**
 Sortiment von Batteriehalterfeder ; **Miyota.**
 Surtido de bridas de fijación de batería ; **Miyota.**
 Assortimento di bride di fissaggio della pila ; **Miyota.**
 Sortido de bridas de fixação de pilha ; **Miyota.**

MSA	Qt.	Kg
99.077	33x	0.025

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos

Réf./Item no.	Calibres
3x MY231.105	0U30 - 2005 - 2015 - 2025 - 2034 - 2035 - 2115 - 213D
3x MY231.153	3S10 - 3S31 - 3S70
3x MY231.163	5S00 - 5S10 - 6L12 - 6L15 - 6L30 - 6M15 - 6M17
3x MY231.1634	6P29 - 6P89 - 6P90
3x MY231.174	5Y20 - 5Y26 - 5Y30 - 5Y36
3x MY231.181	T480
3x MY231.182	5R20 - 5R21 - 5R - 5R31 - 5R32 - 5R37
3x MY231.183	6T50 - 6T60 - 6T65 - 6T66
3x MY231.345	0S10 - 0S20 - 0S30 - 0S31 - 0S40 - 0S60 - 0S70 - 0610
3x MY231.347	T200 - T205 - T240 - T241 - T250
3x MY231.368	1L02 - 1L12 - 1L22 - 1L32 - 1L40 - 1L45 - 1S13 - 9T13 - 9T15 - 9T22 - 9T33



Assortiment de brides de fixation de pile ; **ISA.**
 Assortment of battery clamps ; **ISA.**
 Sortiment von Batteriehalterfeder ; **ISA.**
 Surtido de bridas de fijación de batería ; **ISA.**
 Assortimento di bride di fissaggio della pila ; **ISA.**
 Sortido de bridas de fixação de pilha ; **ISA.**

MSA	Qt.	Kg
99.079	55x	0.025

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos

Réf./Item no.	Calibres
5x IS198.20761	1198
5x IS198.51600	1198
5x IS258.207611	257 - 258
5x IS268.2076102	268
5x IS307.20760	307 - 317
5x IS307.2076102	307 - 317
5x IS369.207611	369
5x IS389.207611	309 - 389
5x IS63.20760	K63
5x IS815.2076201	815 - 8151 - 8152 - 8161 - 8162 - 8171 - 8172
5x IS815.31213	815 - 8151 - 8152 - 8161 - 8162 - 8171 - 8172



Assortiment de brides de fixation de pile ; **ETA.**
 Assortment of battery clamps ; **ETA.**
 Sortiment von Batteriehalterfeder ; **ETA.**
 Surtido de bridas de fijación de batería ; **ETA.**
 Assortimento di bride di fissaggio della pila ; **ETA.**
 Sortido de bridas de fixação de pilha ; **ETA.**

MSA	Qt.	Kg
99.078	33x	0.025

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
11 modèles - models - Modelle - modelos - modelli - modelos

Réf./Item no.	Calibres
3x ETA040504	256031 - 256041 - 256111 - 256461 - 256511 - 256513 - 256561 - 256563
3x ETA040509	978001 - 978002
3x ETA040511	976001
3x ETA043326	281001 - 281002
3x ETA061960	251242 - 251251 - 251252 - 251262 - 251265 - 251272
3x ETA072474	281001 - 281002
3x ETA104168	579105
3x ETA119906	251242 - 251251 - 251252 - 251262 - 251265 - 251272
3x ETA168182	901001
3x ETA259594	280001 - 280002
3x ETA4401.980001	980001 - 980106 - 980153 - 980163

Art. MSA	Pages
MSA 43.	
43.001-xxx	1-8 + 1-9
43.002-xxx	1-3
43.003	1-15
43.004	1-17
43.005	1-17
43.006	1-15 + 5-10 + 6-4
43.018	1-16
43.019	1-16
43.030	1-4
43.031	1-4
43.032	1-16
43.040-xxx	1-6 + 1-7
43.041-xxx	1-6
43.043 ... 43.045	1-10
43.050-xxx	1-2
43.050-2920	1-2
43.050-2980	1-2
43.052-xxx	1-20
43.060	1-12
43.070	1-12
43.080-xxx	1-13
43.100 ... 43.104	1-16 + 6-6
43.120 ... 43.122	1-17
43.140	1-17
43.150	1-17
43.511	1-11
43.521	1-5
43.532	1-21
43.S25192	11-16
43.S25206C	11-16
43.S25246	11-16
43.S25285	11-16
43.S25286	11-16
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