

Joint plat

*Flat gaskets*

Flachdichtungen

*Juntas planas*

Guarnizioni piatte

*Juntas planas*



2

Joint divers

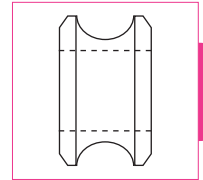
*Miscellaneous gaskets*

Unterschiedliche Dichtungen

*Juntas diversas*

Guarnizioni varie

*Juntas diversas*



15

Joint rond

*Round gaskets*

Runddichtungen

*Juntas redondas*

Guarnizioni tonde

*Juntas redondas*



6

Joint rouge

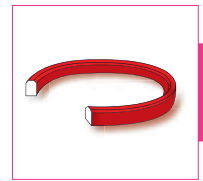
*Red gaskets*

Rote Dichtungen

*Juntas rojas*

Guarnizioni rosse

*Juntas vermelhas*



20

Joint mini O-Ring

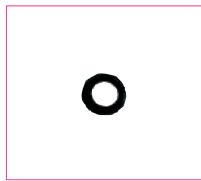
*Mini O-Ring gaskets*

Mini O-Ring Dichtungen

*Juntas mini O-Ring*

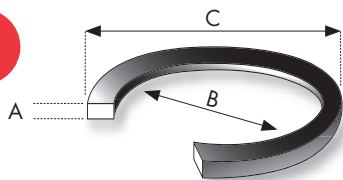
Guarnizioni mini O-Ring

*Juntas mini O-Ring*



13

**2**  
pcs



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

Joint plat; sachet de 2 pièces.

*Flat gasket; bag of 2 pieces.*

Flachdichtung; Beutel von 2 Stück.

*Junta plana; bolsita de 2 piezas.*

Guarnizione piatta; bustina da 2 pezzi.

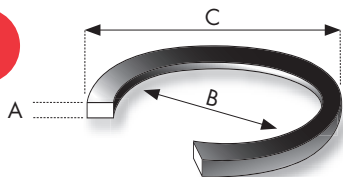
*Junta plana; saquinho de 2 peças.*

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**



**2**  
pcs



MSA	N°/No.	A mm	B Ø mm	C Ø mm
43.050-2920	FH-2920-B01	0.50	29.00	30.70
43.050-2980	FH-2980-B01	0.50	29.70	31.50

**Kg 0.001**

Joint plat type Seiko; sachet de 2 pièces.

*Flat gasket Seiko type; bag of 2 pieces.*

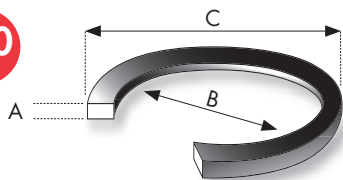
Flachdichtung Seiko Typ; Beutel von 2 Stück.

*Junta plana tipo Seiko; bolsita de 2 piezas.*

Guarnizione piatta tipo Seiko; bustina da 2 pezzi.

*Junta plana tipo Seiko; saquinho de 2 peças.*

**100**  
pcs



Joint plat; sachet de 100 pièces.

Flat gasket; bag of 100 pieces.

Flachdichtung; Beutel von 100 Stück.

Junta plana; bolsa de 100 piezas.

Guarnizione piatta; bustina da 100 pezzi.

Junta plana; 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**

**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 piate; bustina da 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 piate; bustina da 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 piate; scatola di legno con 120 bustine (2 guarnizioni/bustina).

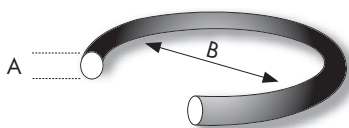
Sortido de juntas planas; caixa de madeira com 120 saquinhos (2 juntas/saquinho).

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

**60 modèles - models - Modelle - modelos - modelli - modelos**

**2x MSA43.050-101 /-102 /-103 /-104 /-105 /-106 /-107 /-108 /-109 /-110 /-111 /-112 /-113 /-114 /-115 /-116 /-117 /-118 /-119 /-120 /-121 /-122 /-123 /-124 /-125 /-126 /-127 /-128 /-129 /-130 /-131 /-132 /-133 /-134 /-135 /-136 /-137 /-138 /-139 /-140 /-141 /-142 /-143 /-144 /-145 /-146 /-147 /-148 /-149 /-150 /-151 /-152 /-153 /-154 /-155 /-156 /-157 /-158 /-159 /-160**

**2**  
 pcs



Joint rond; sachet de 2 pièces.

Round gasket; bag of 2 pieces.

Runddichtung; Beutel von 2 Stück.

Junta redonda; bolsita de 2 piezas.

Guarnizione tonda; bustina da 2 pezzi.

Junta redonda; saquinho de 2 peças.

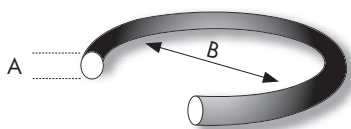
MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm	MSA	A Ø mm	B Ø mm
43.041-446	0.30	30.30	43.041-437	0.50	27.60	43.040-014	0.70	22.10
43.041-404	0.35	16.50	43.041-439	0.50	28.30	43.040-025	0.70	27.60
43.041-408	0.35	17.50	43.041-440	0.50	28.50	43.040-046	0.70	31.80
43.041-410	0.35	18.00	43.041-442	0.50	29.00	43.040-033	0.75	29.30
43.041-417	0.35	20.50	43.041-443	0.50	29.30	43.040-050	0.75	32.50
43.041-433	0.35	26.50	43.041-444	0.50	29.60	43.040-010	0.80	19.40
43.041-401	0.40	15.00	43.041-445	0.50	29.80	43.040-013	0.80	21.00
43.041-402	0.40	15.50	43.041-449	0.50	31.00	43.040-015	0.80	22.10
43.041-403	0.40	15.80	43.041-452	0.50	31.80	43.040-017	0.80	22.90
43.041-406	0.40	17.00	43.041-453	0.50	32.00	43.040-019	0.80	25.20
43.041-409	0.40	17.70	43.041-454	0.50	32.40	43.040-064	0.80	26.00
43.041-412	0.40	19.20	43.041-455	0.50	33.00	43.040-027	0.80	28.00
43.041-413	0.40	19.60	43.040-001	0.60	15.90	43.040-031	0.80	28.70
43.041-414	0.40	20.00	43.040-002	0.60	16.50	43.040-037	0.80	30.00
43.041-416	0.40	20.40	43.040-003	0.60	17.00	43.040-039	0.80	30.50
43.041-418	0.40	21.00	43.040-006	0.60	18.30	43.040-042	0.80	31.00
43.041-421	0.40	21.80	43.040-008	0.60	19.40	43.040-045	0.80	31.50
43.041-424	0.40	23.00	43.040-011	0.60	20.00	43.040-047	0.80	31.80
43.041-461	0.40	24.00	43.041-423	0.60	22.10	43.040-048	0.80	32.00
43.041-462	0.40	26.00	43.040-063	0.60	24.00	43.040-049	0.80	32.15
43.041-438	0.40	28.00	43.040-020	0.60	26.40	43.040-051	0.80	32.40
43.041-441	0.40	28.90	43.040-068	0.60	27.00	43.040-078	0.80	33.00
43.041-451	0.40	31.50	43.041-436	0.60	27.50	43.040-079	0.80	33.50
43.041-426	0.42	23.50	43.040-024	0.60	27.70	43.040-080	0.80	34.00
43.041-407	0.45	17.30	43.040-067	0.60	28.00	43.040-081	0.80	34.50
43.041-448	0.45	30.60	43.040-065	0.60	28.50	43.041-458	0.80	35.00
43.041-405	0.50	16.50	43.040-029	0.60	28.90	43.040-082	0.80	35.50
43.040-004	0.50	17.60	43.040-035	0.60	30.00	43.040-083	0.80	36.00
43.040-005	0.50	18.00	43.041-447	0.60	30.50	43.040-084	0.80	36.50
43.041-411	0.50	18.50	43.041-450	0.60	31.20	43.040-085	0.80	37.00
43.040-007	0.50	19.20	43.041-456	0.60	33.50	43.040-086	0.80	37.50
43.040-009	0.50	19.80	43.041-457	0.60	34.00	43.040-087	0.80	38.00
43.041-415	0.50	20.00	43.041-459	0.60	36.00	43.040-088	0.80	38.50
43.041-419	0.50	21.00	43.041-460	0.60	38.30	43.040-089	0.80	39.50
43.041-420	0.50	21.50	43.040-069	0.60	38.70	43.040-090	0.80	41.50
43.041-422	0.50	22.00	43.040-070	0.60	39.00	43.040-091	0.80	43.00
43.041-425	0.50	23.00	43.040-071	0.60	39.50	43.040-092	0.80	44.00
43.041-427	0.50	24.00	43.040-072	0.60	40.50	43.040-093	0.80	45.00
43.041-428	0.50	24.60	43.040-073	0.60	41.00	43.040-023	0.85	26.90
43.041-429	0.50	25.00	43.040-074	0.60	42.50	43.040-041	0.85	30.80
43.041-431	0.50	25.70	43.040-075	0.60	43.00	43.040-012	0.90	20.60
43.041-432	0.50	26.00	43.040-076	0.60	45.80	43.040-040	0.90	30.70
43.041-434	0.50	26.80	43.040-077	0.60	47.50	43.040-055	0.90	32.20
43.041-435	0.50	27.20	43.040-021	0.65	26.70	43.040-057	0.90	33.90

MSA	A Ø mm	B Ø mm
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



Joint rond; sachet de 100 pièces.

Round gasket; bag of 100 pieces.

Runddichtung; Beutel von 100 Stück.

Junta redonda; bolsita de 100 piezas.

Guarnizione tonda; bustina da 100 pezzi.

Junta redonda; 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
43.001-057	0.90	33.90
43.001-016	1.00	22.00
43.001-018	1.00	23.00
43.001-022	1.00	26.25
43.001-026	1.00	27.50
43.001-028	1.00	28.00
43.001-030	1.00	28.25
43.001-032	1.00	28.40
43.001-034	1.00	29.00
43.001-036	1.00	29.30
43.001-038	1.00	29.75
43.001-061	1.00	30.00
43.001-043	1.00	30.75
43.001-044	1.00	31.00
43.001-066	1.00	31.50

MSA	A Ø mm	B Ø mm
43.001-052	1.00	32.00
43.001-053	1.00	32.50
43.001-062	1.00	33.00
43.001-058	1.00	33.75
43.001-060	1.00	35.30
43.001-094	1.00	36.00
43.001-095	1.00	39.00
43.001-096	1.00	41.50
43.001-097	1.00	43.00
43.001-098	1.00	46.00
43.001-099	1.00	50.00
43.001-054	1.05	32.40
43.001-059	1.50	34.00
43.001-056	1.80	31.60

**Kg 0.003**

**25**  
pcs



Assortiment de joints ronds, section  $\varnothing$  0.30...0.45 mm ; sachet de 25 pièces.  
 Assortment of round gaskets, section  $\varnothing$  0.30...0.45 mm ; bag of 25 pieces.  
 Sortiment von Runddichtungen, Querschnitt  $\varnothing$  0.30...0.45 mm ; Beutel von 25 Stück.  
 Surtido de juntas redondas, sección  $\varnothing$  0.30...0.45 mm ; bolsita de 25 piezas.  
 Assortimento di guarnizioni tonde, sezione  $\varnothing$  0.30...0.45 mm ; bustina da 25 pezzi.  
 Sortido de juntas redondas, secção  $\varnothing$  0.30...0.45 mm ; saquinho de 25 peças.

MSA	Qt.	Kg
43.043	25x	0.003

**50**  
pcs



Assortiment de joints ronds, section  $\varnothing$  0.50 et 0.60 mm ; sachet de 50 pièces.  
 Assortment of round gaskets, section  $\varnothing$  0.50 and 0.60 mm ; bag of 50 pieces.  
 Sortiment von Runddichtungen, Querschnitt  $\varnothing$  0.50 und 0.60 mm ; Beutel von 50 Stück.  
 Surtido de juntas redondas, sección  $\varnothing$  0.50 y 0.60 mm ; bolsita de 50 piezas.  
 Assortimento di guarnizioni tonde, sezione  $\varnothing$  0.50 e 0.60 mm ; bustina da 50 pezzi.  
 Sortido de juntas redondas, secção  $\varnothing$  0.50 e 0.60 mm ; saquinho de 50 peças.

MSA	Qt.	Kg
43.044	50x	0.004

**100**  
pcs



Assortiment de joints ronds, section  $\varnothing$  0.65...1.80 mm ; sachet de 100 pièces.  
 Assortment of round gaskets, section  $\varnothing$  0.65...1.80 mm ; bag of 100 pieces.  
 Sortiment von Runddichtungen, Querschnitt  $\varnothing$  0.65...1.80 mm ; Beutel von 100 Stück.  
 Surtido de juntas redondas, sección  $\varnothing$  0.65...1.80 mm ; bolsita de 100 piezas.  
 Assortimento di guarnizioni tonde, sezione  $\varnothing$  0.65...1.80 mm ; bustina da 100 pezzi.  
 Sortido de juntas redondas, secção  $\varnothing$  0.65...1.80 mm ; saquinho de 100 peças.

MSA	Qt.	Kg
43.045	100x	0.006



MSA	Qt.	Kg
43.511	320x	0.280

Assortiment de joints ronds ; boîte en bois avec 160 sachets (2 joints/sachet).

Assortment of round gaskets ; wooden box with 160 bags (2 gaskets/bag).

Sortiment von Runddichtungen ; Holzkasten mit 160 Beutel (2 Dichtungen/Beutel).

Surtido de juntas redondas ; caja de madera con 160 bolsitas (2 juntas/bolsita).

Assortimento di guarnizioni tonde ; scatola di legno con 160 bustine (2 guarnizioni/bustina).

Sortido de juntas redondas ; caixa de madeira com 160 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...-429**

**1x MSA43.041-431...-462**

**50**  
pcs



Assortiment de joints ronds, pour trappes de piles ; sachet de 50 pièces.

Assortiment of round gaskets, for battery covers ; bag of 50 pieces.

Sortiment von Runddichtungen, für Batteriedeckel ; Beutel von 50 Stück.

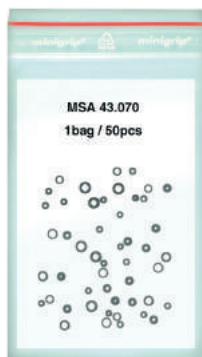
Sortido de juntas redondas, para tapas de baterías ; bolsita de 50 piezas.

Assortimento di guarnizioni tonde, per tappi delle batterie ; bustina da 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.

Assortiment of round gaskets, for crowns and pushers ; bag of 50 pieces.

Sortiment von Runddichtungen, für Kronen und Drücker ; Beutel von 50 Stück.

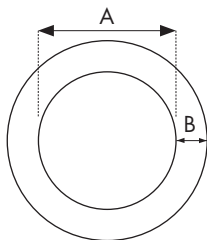
Sortido de juntas redondas, para coronas y pulsadores ; bolsita de 50 piezas.

Assortimento di guarnizioni tonde, per corone e pulsanti ; bustina da 50 pezzi.

Sortido de juntas redondas, para coroaas 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 gasket ; bag of 100 pieces.

Mini O-Ring Dichtung ; Beutel von 100 Stück.

Junta mini O-Ring ; bolsita de 100 piezas.

Guarnizione mini O-Ring ; bustina da 100 pezzi.

Junta mini O-Ring ; saquinho de 100 peças.

MSA	A Ø mm	B Ø mm
43.080-001	<b>0.50</b>	0.30
43.080-002	<b>0.50</b>	0.40
43.080-003	<b>0.50</b>	0.50
43.080-004	<b>0.60</b>	0.35
43.080-005	<b>0.60</b>	0.40
43.080-006	<b>0.60</b>	0.50
43.080-007	<b>0.60</b>	0.55
43.080-008	<b>0.60</b>	0.65
43.080-009	<b>0.70</b>	0.40
43.080-010	<b>0.70</b>	0.50
43.080-011	<b>0.70</b>	0.60
43.080-012	<b>0.80</b>	0.40
43.080-013	<b>0.80</b>	0.50
43.080-014	<b>0.80</b>	0.60
43.080-041	<b>0.85</b>	0.40
43.080-036	<b>0.90</b>	0.40
43.080-035	<b>0.95</b>	0.50
43.080-015	<b>1.00</b>	0.40
43.080-016	<b>1.00</b>	0.50
43.080-017	<b>1.00</b>	0.60
43.080-018	<b>1.20</b>	0.40

MSA	A Ø mm	B Ø mm
43.080-019	<b>1.20</b>	0.60
43.080-020	<b>1.30</b>	0.40
43.080-021	<b>1.30</b>	0.50
43.080-022	<b>1.40</b>	0.40
43.080-023	<b>1.40</b>	0.50
43.080-024	<b>1.40</b>	0.60
43.080-042	<b>1.40</b>	0.70
43.080-025	<b>1.50</b>	0.50
43.080-026	<b>1.50</b>	0.75
43.080-037	<b>1.60</b>	0.40
43.080-027	<b>1.60</b>	0.50
43.080-028	<b>1.60</b>	0.70
43.080-039	<b>1.70</b>	0.50
43.080-040	<b>1.70</b>	0.60
43.080-029	<b>1.80</b>	0.40
43.080-030	<b>1.80</b>	0.60
43.080-031	<b>1.80</b>	0.80
43.080-032	<b>2.00</b>	0.50
43.080-033	<b>2.00</b>	0.60
43.080-034	<b>2.50</b>	0.65
<b>Kg 0.003</b>		



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.

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



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.

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



MSA	1/1	Ø int./ext. mm	Tube
65.003-A	o	0.70 x 1.40	MSA65.003
65.004-A	o	0.70 x 1.40	MSA65.004
65.001-A	o	0.75 x 1.50	MSA65.001
65.002-A	o	0.80 x 1.70	MSA65.002
65.005-A	o	0.80 x 1.70	MSA65.005
65.006-A	o	0.80 x 1.70	MSA65.006

Kg 0.001

Joint rond pour tubes MSA65.00x.

Round gasket for tubes MSA65.00x.

Runddichtung für Röhre MSA65.00x.

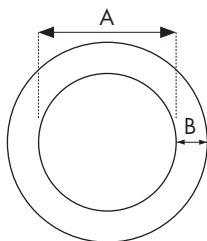
Junta redonda para tubos MSA65.00x.

Guarnizione tonda per tubi MSA65.00x.

Junta redonda para tubos MSA65.00x.



100  
pcs



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

Joint O'Ring; sachet de 100 pièces.

O'Ring gasket; bag of 100 pieces.

O'Ring Dichtung; Beutel von 100 Stück.

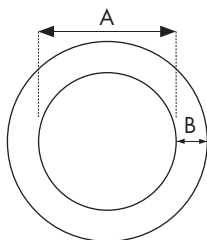
Junta O'Ring; bolsita de 100 piezas.

Guarnizione O'Ring; bustina da 100 pezzi.

Junta O'Ring; saquinho de 100 peças.



1000  
pcs



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

Joint O'Ring; sachet de 1'000 pièces.

O'Ring gasket; bag of 1'000 pieces.

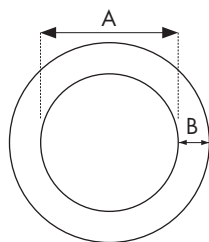
O'Ring Dichtung; Beutel von 1'000 Stück.

Junta O'Ring; bolsita de 1'000 piezas.

Guarnizione O'Ring; bustina da 1'000 pezzi.

Junta O'Ring; saquinho de 1'000 peças.

10  
pcs



MSA	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 da 10 pezzi.  
 Junta redonda para tubos (interior) ; saquinho de 10 peças.

MSA	1/1	Ø int./ext. mm (section)	Pour couronne/ For crown
MSA43.100	○	1.60 x 3.00 (0.70)	Type 5.30
MSA43.101	○	1.80 x 3.40 (0.80)	Type 6.00
MSA43.102	○	2.00 x 3.40 (0.70)	Type 7.00
MSA43.103	○	2.20 x 3.60 (0.70)	Type 7.03
MSA43.104	○	4.00 x 5.00 (0.50)	Type 7.03

Kg 0.001

Joint rond pour tubes à vis.  
 Round gasket for screw-on tubes.  
 Runddichtung für Schraubröhre.  
 Junta redonda para tubos de rosca.  
 Guarnizione tonda per tubi a vite.  
 Junta redonda para tubos de rosca.

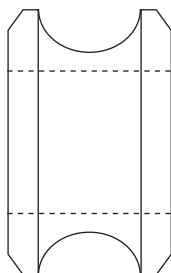
MSA	1/1	Ø int./ext. mm (section)
MSA43.150	○	1.20 x 2.00 (0.40)
MSA43.140	○	2.60 x 3.80 (0.60)

Kg 0.001

Joint rond pour couronnes à vis.  
 Round gasket for screw-on crowns.  
 Runddichtung für Schraubkronen.  
 Junta redonda para coronas de rosca.  
 Guarnizione tonda per corone a vite.  
 Junta redonda para coroas de rosca.



10  
pcs



MSA	1/1	Ø int./ext. mm	Kg
43.006	○	1.50 x 2.80	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.

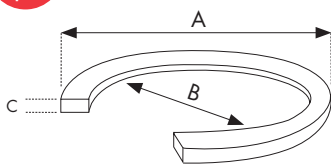
Junta para tubo especial MSA47.101 (ver página 6-4) ; bolsita de 10 piezas.

Guarnizione per tubo speciale MSA47.101 (vedere pagina 6-4) ; bustina da 10 pezzi.

Junta para tubo especial MSA47.101 (ver página 6-4) ; saquinho de 10 peças.



10  
pcs



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

Kg 0.001

Joint plat pour couronnes à vis (intérieur) ; sachet de 10 pièces.

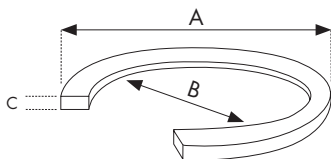
Flat gasket for screw-on crowns (interior) ; bag of 10 pieces.

Flachdichtung für Schraubkronen (Innen) ; Beutel von 10 Stück.

Junta plana para coronas de rosca (interior) ; bolsita de 10 piezas.

Guarnizione piatta per corone a vite (interno) ; bustina da 10 pezzi.

Junta plana para coroas de rosca (interior) ; saquinho de 10 peças.



MSA	1/1	A Ø x B Ø x C mm	Pour couronne/ For crown
MSA43.120	○	3.60 x 2.80 x 0.40	Type 5.30
MSA43.121	○	4.00 x 2.40 x 0.30	Type 6.00
MSA43.122	○	4.60 x 2.60 x 0.30	Type 7.00

Kg 0.001

Joint plat pour couronnes à vis.

Flat gasket for screw-on crowns.

Flachdichtung für Schraubkronen.

Junta plana para coronas de rosca.

Guarnizione piatta per corone a vite.

Junta plana para coroas de rosca.

MSA 43.100 TUBE GASKET Ø 5.30 5 pcs	MSA 43.120 CROWN GASKET Ø 9.30 5 pcs	MSA 43.101 TUBE GASKET Ø 6.00 5 pcs	MSA 43.121 CROWN GASKET Ø 6.00 5 pcs	MSA 43.102 TUBE GASKET Ø 7.00 5 pcs	MSA 43.122 CROWN GASKET Ø 7.00 5 pcs
JOINTS RONDS/PLATS POUR TUBES/CORONNES À VIS POLYIMPLAT GASKETS FOR TUBES/CROWNS UNTERSCHIEDLICHE DICHTUNGEN FÜR RÖHRE UND SCHRAUBKRONEN GUARNIZIONI TONDE/PIATTE PER TUBI/CORONE A VITE					MSA 99.131 60 pcs
MSA 43.104 OUTSIDE TUBE GASKET Ø 7.10 5 pcs	MSA 43.103 TUBE GASKET Ø 7.00 5 pcs	MSA 43.100 TUBE GASKET Ø 7.00 5 pcs	MSA 43.101 TUBE GASKET Ø 7.00 5 pcs	MSA 43.140 CROWN GASKET Ø 2.60 5 pcs	MSA 43.130 CROWN GASKET Ø 1.20 5 pcs



Assortiment de joints plats et ronds pour tubes et couronnes à vis.  
*Assortment of flat and round gaskets for tubes and screw-on crowns.*  
 Sortiment von Flach- und Runddichtungen für Röhre und Schraubkronen.  
*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 :**  
**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

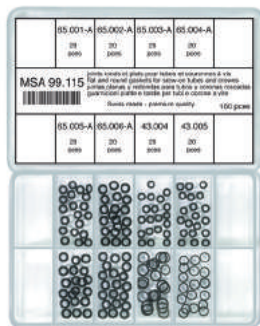
MSA 43.100 TUBE GASKET Ø 5.30 5 pcs	MSA 43.120 CROWN GASKET Ø 9.30 5 pcs	MSA 43.101 TUBE GASKET Ø 6.00 5 pcs	MSA 43.121 CROWN GASKET Ø 6.00 5 pcs
JOINTS RONDS/PLATS POUR TUBES/CORONNES À VIS POLYIMPLAT GASKETS FOR TUBES/CROWNS UNTERSCHIEDLICHE DICHTUNGEN FÜR RÖHRE UND SCHRAUBKRONEN GUARNIZIONI TONDE/PIATTE PER TUBI/CORONE A VITE			
MSA 99.136 50 pcs			
MSA 43.102 TUBE GASKET Ø 7.00 5 pcs	MSA 43.103 TUBE GASKET Ø 7.00 5 pcs	MSA 43.104 OUTSIDE TUBE GASKET Ø 7.00 5 pcs	MSA 43.103 TUBE GASKET Ø 7.00 15 pcs



Assortiment de joints plats et ronds pour tubes et couronnes à vis.  
*Assortment of flat and round gaskets for tubes and screw-on crowns.*  
 Sortiment von Flach- und Runddichtungen für Röhre und Schraubkronen.  
*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**  
**5x MSA43.100 /.101 /.102 /.104 /.120 /.121 /.122**  
**15x MSA43.103**

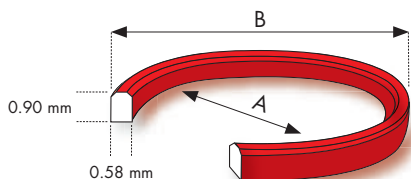
MSA	Qt.	Kg
99.136	50x	0.025



Assortiment de joints plats et ronds pour tubes et couronnes à vis.  
*Assortment of flat and round gaskets for tubes and screw-on crowns.*  
 Sortiment von Flach- und Runddichtungen für Röhre und Schraubkronen.  
*Sortido 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.*

MSA	Qt.	Kg
99.115	160x	0.149

**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**



Joint rouge.  
 Red gasket.  
 Rote Dichtung.  
 Junta roja.  
 Guarnizione rossa.  
 Junta vermelha.

MSA	A Ø mm	B Ø mm
43.052-796	14.84	16.00
43.052-797	15.34	16.50
43.052-798	15.84	17.00
43.052-799	16.34	17.50
43.052-800	16.84	18.00
43.052-801	17.34	18.50
43.052-802	17.84	19.00
43.052-803	18.34	19.50
43.052-804	18.84	20.00
43.052-805	19.34	20.50
43.052-806	19.84	21.00
43.052-807	20.34	21.50
43.052-808	20.84	22.00
43.052-809	21.34	22.50
43.052-810	21.84	23.00
43.052-811	22.34	23.50
43.052-812	22.84	24.00
43.052-813	23.34	24.50
43.052-814	23.84	25.00
43.052-815	24.34	25.50

MSA	A Ø mm	B Ø mm
43.052-816	24.84	26.00
43.052-817	25.34	26.50
43.052-818	25.84	27.00
43.052-819	26.34	27.50
43.052-820	26.84	28.00
43.052-821	27.34	28.50
43.052-822	27.84	29.00
43.052-823	28.34	29.50
43.052-824	28.84	30.00
43.052-825	29.34	30.50
43.052-826	29.84	31.00
43.052-827	30.34	31.50
43.052-828	30.84	32.00
43.052-829	31.34	32.50
43.052-830	31.84	33.00
43.052-831	32.34	33.50
43.052-832	32.84	34.00
43.052-832A	33.05	34.00
43.052-833	33.34	34.50
43.052-834	33.84	35.00

MSA	A Ø mm	B Ø mm
43.052-835	34.34	35.50
43.052-836	34.84	36.00
43.052-837	35.34	36.50
43.052-838	35.84	37.00
43.052-839	36.34	37.50
43.052-840	36.84	38.00
43.052-841	37.34	38.50
43.052-842	37.84	39.00
43.052-843	38.34	39.50
43.052-844	38.84	40.00
43.052-845	39.34	40.50
43.052-846	39.84	41.00
43.052-847	40.34	41.50
43.052-848	40.84	42.00
43.052-849	41.34	42.50
43.052-850	41.84	43.00
43.052-851	42.34	43.50
43.052-852	42.84	44.00

**Kg 0.001**



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

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

Sortiment von roten 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 bustine (1 guarnizione/bustina).

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**



**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.**



A series of horizontal dotted lines spanning the width of the page, providing a template for handwritten notes.