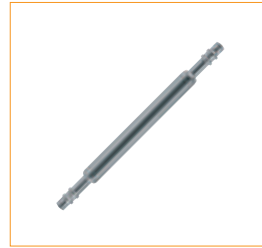


BARRETTES SPRING BARS FEDERSTEGE PASADORES ANSE PINOS

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

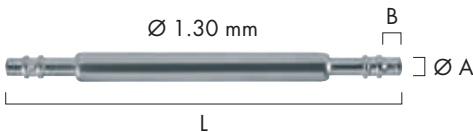


26

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



29



- 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.

35



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

41



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

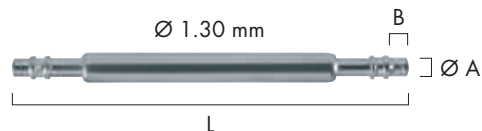
44



Barrettes femelles
Female bars
Weibliche Stege
Pasadores hembra
Anse femmina
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 bars
 Druckstege
 Pasadores de presión
 Anse a pressione
 Pinos de pressão

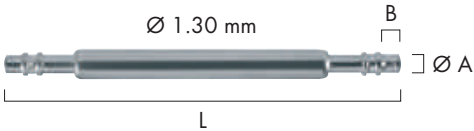


46

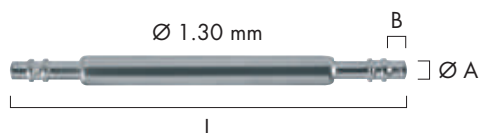
Barrettes à vis
 Screw-on bars
 Schraubstege
 Pasadores de rosca
 Anse a vite
 Pinos de rosca



55



- 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.



Barrette double sécurité; acier inoxydable.
 Double flanged spring bar; stainless steel.
 Doppel-Ansatz Federsteg; Edelstahl.
 Pasador doble seguridad; acero inoxidable.
 Ansa doppia sicurezza; acciaio inossidabile.
 Pino 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



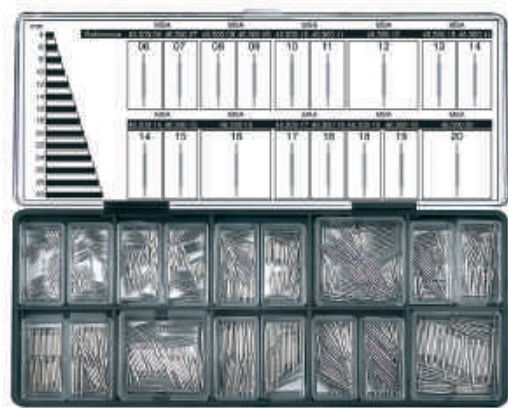
Ø 1.30 mm



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
99.027	100x	0.036

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



Ø 1.30 mm



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
99.058	1'000x	0.389

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



Barrette double sécurité ; acier inoxydable.
 Double flanged spring bar ; stainless steel.
 Doppel-Ansatz Federsteg ; Edelstahl.
 Pasador doble seguridad ; acero inoxidable.
 Ansa doppia sicurezza ; acciaio inossidabile.
 Pino 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



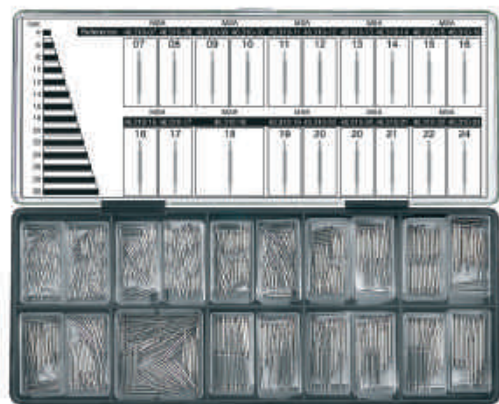
Ø 1.50 mm



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
99.155	100x	0.041

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.310-10 /-12 /-14 /-16 /-17 /-18 /-19 /-20 /-22 /-24



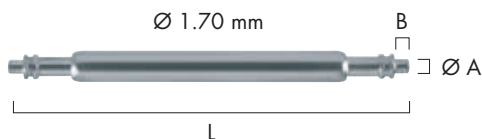
Ø 1.50 mm



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
99.060	1'000x	0.444

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

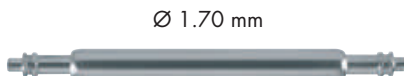


Barrette double sécurité; acier inoxydable.
 Double flanged spring bar; stainless steel.
 Doppel-Ansatz Federsteg; Edelstahl.
 Pasador doble seguridad; acero inoxidable.
 Ansa doppia sicurezza; acciaio inossidabile.
 Pino dupla segurança; aço inoxidável.

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

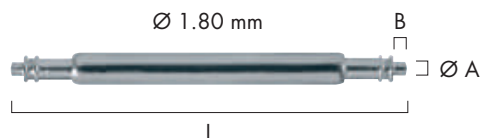
MSA	L mm	Ø A x B mm	Kg
46.315-22	22	0.80 x 0.80	0.022
46.315-23	23	0.80 x 0.80	0.022
46.315-24	24	0.80 x 0.80	0.023



Assortiment de barrettes double sécurité; acier inoxydable.
 Assortment of double flanged spring bars; stainless steel.
 Sortiment von Doppel-Ansatz Federsteg; 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
99.154	60x	0.040

Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.315-18 /-20 /-21 /-22 /-23 /-24



Barrette double sécurité ; acier inoxydable.
Double flanged spring bar ; stainless steel.
 Doppel-Ansatz Federsteg ; Edelstahl.
Pasador doble seguridad ; acero inoxidable.
 Ansa doppia sicurezza ; acciaio inossidabile.
Pino dupla segurança ; aço inoxidável.

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



Ø 1.80 mm



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



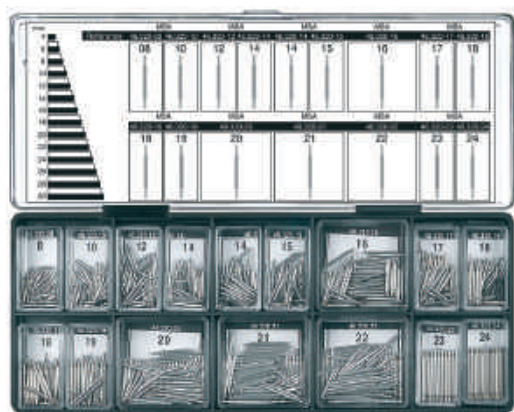
Ø 1.80 mm



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



Ø 1.80 mm



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 :

14 modèles - models - Modelle - modelos
modelli - modelos

50x MSA46.320-08 /-10 /-12 /-15 /-17 /-19
/-23 /-24

100x MSA46.320-14 /-16 /-18 /-20 /-21 /-22

MSA	Qt.	Kg
99.062	1'000x	0.494



Ø 1.80 mm



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

100x MSA46.320-22 /-23 /-24 /-26 /-28 /-30
/-32 /-34 /-36 /-38

MSA	Qt.	Kg
99.157	1000x	0.580

Ø 1.30 – 1.50 – 1.80 mm



Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortiment 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 :

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

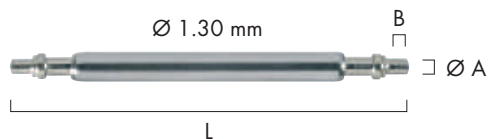


Assortiment de barrettes double sécurité ; acier inoxydable.
 Assortiment of double flanged spring bars ; stainless steel.
 Sortiment von Doppel-Ansatz Federstege ; Edelstahl.
 Surtido de pasadores doble seguridad ; acero inoxidable.
 Assortimento di anse doppia sicurezza ; acciaio inossidabile.
 Sortido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

Contenu - Contents - Inhalt - Contenido
Contenuto - Conteúdo :

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

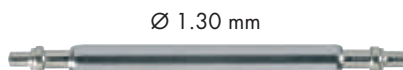
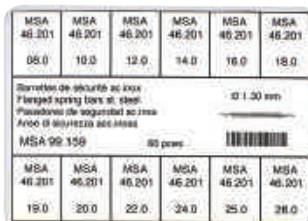


Barrette de sécurité ; acier inoxydable.
 Flanged spring bar ; stainless steel.
 Ansatz Federsteg ; Edelstahl.
 Pasador de seguridad ; acero inoxidable.
 Ansa di sicurezza ; acciaio inossidabile.
 Pino de segurança ; aço inoxidável.

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

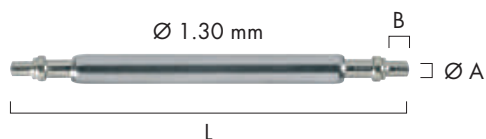
MSA	L mm	Ø A x B mm	Kg
46.201-15.0	15	0.70 x 1.00	0.010
46.201-16.0	16	0.70 x 1.00	0.011
46.201-17.0	17	0.70 x 1.00	0.012
46.201-18.0	18	0.70 x 1.00	0.013
46.201-19.0	19	0.70 x 1.00	0.014
46.201-20.0	20	0.70 x 1.00	0.014
46.201-21.0	21	0.70 x 1.00	0.015
46.201-22.0	22	0.70 x 1.00	0.015
46.201-23.0	23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



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortment of flanged spring bars ; stainless steel.
 Sortiment von Ansatz Federsteg ; 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
99.159	60x	0.044

Contenu - Contents - Inhalt - Contenido - Contenuto - 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

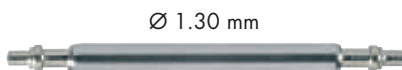
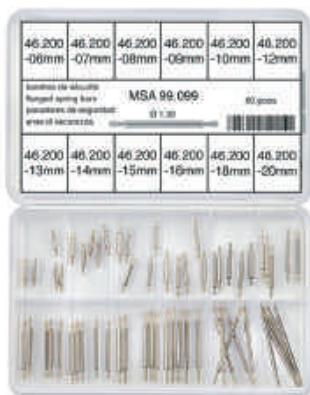


Barrette de sécurité ; maillechort.
 Flanged spring bar ; nickel silver.
 Ansatz Federsteg ; Neusilber.
 Pasador de seguridad ; alpaca.
 Ansa di sicurezza ; argenteone.
 Pino de segurança ; níquel prateado.



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

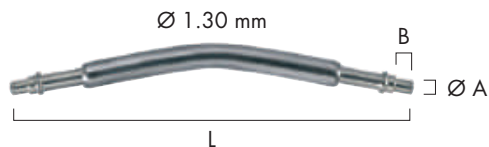
MSA	L mm	Ø A x B mm	Kg
46.200-16.0	16	0.70 x 1.00	0.014
46.200-17.0	17	0.70 x 1.00	0.014
46.200-18.0	18	0.70 x 1.00	0.014
46.200-19.0	19	0.70 x 1.00	0.014
46.200-20.0	20	0.70 x 1.00	0.014
46.200-21.0	21	0.70 x 1.00	0.014
46.200-22.0	22	0.70 x 1.00	0.014
46.200-23.0	23	0.70 x 1.00	0.014
46.200-24.0	24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



Assortiment de barrettes de sécurité ; maillechort.
 Assortment of flanged spring bars ; nickel silver.
 Sortiment von Ansatz Federsteg ; Neusilber.
 Surtido de pasadores de seguridad ; alpaca.
 Assortimento di anse di sicurezza ; argenteone.
 Sortido de pinos de segurança ; níquel prateado.

MSA	Qt.	Kg
99.099	60x	0.033

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



Barrette de sécurité courbée; maillechort.
 Curved flanged spring bar; nickel silver.
 Gebogener Ansatz Federsteg; Neusilber.
 Pasador de seguridad curvado; alpaca.
 Ansa di sicurezza curva; argentine.
 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



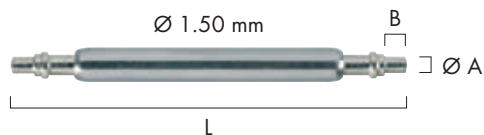
Ø 1.30 mm



Assortiment de barrettes de sécurité courbées; maillechort.
 Assortiment of curved flanged spring bars; nickel silver.
 Sortiment von gebogene Ansatz Federsteg; Neusilber.
 Surtido de pasadores de seguridad curvados; alpaca.
 Assortimento di anse di sicurezza curve; argentine.
 Sortido de pinos de segurança curvados; níquel prateado.

MSA	Qt.	Kg
99.104	60x	0.036

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



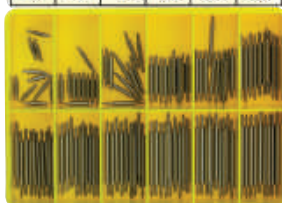
Barrette de sécurité ; acier inoxydable.
 Flanged spring bar ; stainless steel.
 Ansatz Federsteg ; Edelstahl.
 Pasador de seguridad ; acero inoxidable.
 Ansa di sicurezza ; acciaio inossidabile.
 Pino de segurança ; aço inoxidável.



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 46.211	MSA 46.211	MSA 46.211	MSA 46.211	MSA 46.211	MSA 46.211
06.0	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 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



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 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



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 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

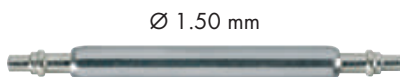


Barrette de sécurité ; maillechort.
 Flanged spring bar ; nickel silver.
 Ansatz Federsteg ; Neusilber.
 Pasador de seguridad ; alpaca.
 Ansa di sicurezza ; argenteone.
 Pino de segurança ; níquel prateado.

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

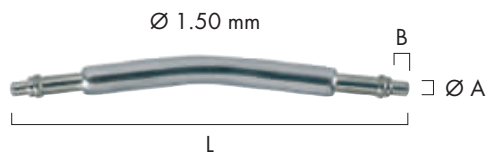
MSA	L mm	Ø A x B mm	Kg
46.210-16.0	16	0.75 x 1.00	0.018
46.210-17.0	17	0.75 x 1.00	0.018
46.210-18.0	18	0.75 x 1.00	0.018
46.210-19.0	19	0.75 x 1.00	0.018
46.210-20.0	20	0.75 x 1.00	0.018
46.210-21.0	21	0.75 x 1.00	0.018
46.210-22.0	22	0.75 x 1.00	0.018
46.210-23.0	23	0.75 x 1.00	0.018
46.210-24.0	24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



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

MSA	Qt.	Kg
99.100	60x	0.038

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



Barrette de sécurité courbée ; maillechort.
 Curved flanged spring bar ; nickel silver.
 Gebogener Ansatz Federsteg ; Neusilber.
 Pasador de seguridad curvado ; alpaca.
 Ansa di sicurezza curva ; argenteone.
 Pino de segurança curvado ; 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



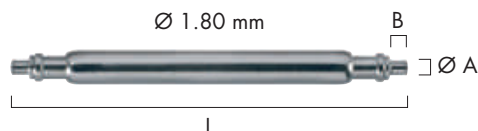
Ø 1.50 mm



Assortiment de barrettes de sécurité courbées ; maillechort.
 Assortiment of curved flanged spring bars ; nickel silver.
 Sortiment von gebogene Ansatz Federsteg ; Neusilber.
 Surtido de pasadores de seguridad curvados ; alpaca.
 Assortimento di anse di sicurezza curve ; argenteone.
 Sortido de pinos de segurança curvados ; níquel prateado.

MSA	Qt.	Kg
99.103	60x	0.038

Contenu - Contents - Inhalt - Contenito - Contenido - Conteúdo :
10 modèles - models - Modelle - modelos - modelli - modelos
6x MSA46.271-10.0 /-12.0 /-13.0 /-14.0 /-15.0 /-16.0 /-17.0
/-18.0 /-20.0 /-22.0



Barrette de sécurité; acier inoxydable.
 Flanged spring bar; stainless steel.
 Ansatz Federsteg; Edelstahl.
 Pasador de seguridad; acero inoxidable.
 Ansa di sicurezza; acciaio inossidabile.
 Pino 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 Ansatz Federsteg; 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



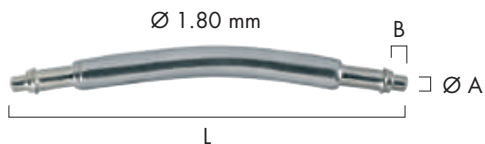
Ø 1.80 mm



Assortiment de barrettes de sécurité ; acier inoxydable.
 Assortiment of flanged spring bars ; stainless steel.
 Sortiment von 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
6x MSA46.220-22.0 /-24.0 /-25.0 /-26.0 /-28.0 /-30.0 /-32.0
/-34.0 /-36.0 /-38.0

MSA	Qt.	Kg
99.196	60x	0.048

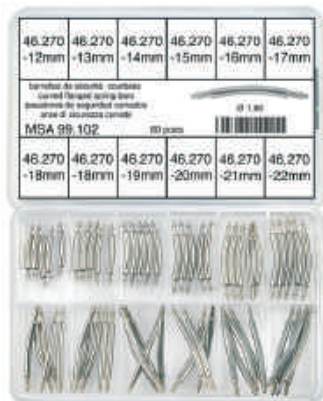


Barrette de sécurité courbée ; maillechort.
 Curved flanged spring bar ; nickel silver.
 Gebogener Ansatz Federsteg ; Neusilber.
 Pasador de seguridad curvado ; alpaca.
 Ansa di sicurezza curva ; argenteone.
 Pino de segurança curvado ; níquel prateado.

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



Ø 1.80 mm



Assortiment de barrettes de sécurité courbées ; maillechort.
 Assortiment of curved flanged spring bars ; nickel silver.
 Sortiment von gebogene Ansatz Federsteg ; Neusilber.
 Surtido de pasadores de seguridad curvados ; alpaca.
 Assortimento di anse di sicurezza curve ; argenteone.
 Sortido de pinos de segurança curvados ; níquel prateado.

MSA	Qt.	Kg
99.102	60x	0.040

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



Barrette de sécurité ; acier inoxydable.

Flanged spring bar ; stainless steel.

Ansatz Federsteg ; Edelstahl.

Pasador de seguridad ; acero inoxidable.

Ansa di sicurezza ; acciaio inossidabile.

Pino de segurança ; aço inoxidável.



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



Barrette de sécurité télescopique ; acier inoxydable.

Telescopic flanged spring bar ; stainless steel.

Teleskopischer Ansatz Federsteg ; Edelstahl.

Pasador de seguridad telescópico ; acero inoxidable.

Ansa di sicurezza telescopica ; acciaio inossidabile.

Pino de segurança telescópico ; 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



Ø 2.00 mm



Assortiment de barrettes de sécurité télescopiques ; acier inoxydable.
 Assortiment of telescopic flanged spring bars ; stainless steel.
 Sortiment von teleskopische 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.

MSA	Qt.	Kg
99.126	50x	0.024

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



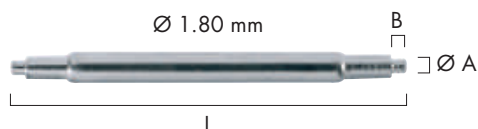
Ø 2.00 mm



Assortiment de barrettes de sécurité télescopiques ; acier inoxydable.
 Assortiment of telescopic flanged spring bars ; stainless steel.
 Sortiment von teleskopische 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.

MSA	Qt.	Kg
99.141	36x	0.028

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



Barrette universelle télescopique ; acier inoxydable.
 Telescopic universal spring bar ; stainless steel.
 Teleskopischer universeller Federsteg ; Edelstahl.
 Pasador universal telescópico ; acero inoxidable.
 Ansa universale telescopica ; acciaio inossidabile.
 Pino universal telescópico ; 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

MSA	L mm	Ø A x B mm	Kg
46.600-1723	17-23	0.80 x 1.00	0.020
46.600-1824	18-24	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

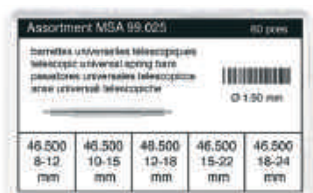


Barrette universelle télescopique ; maillechort.
 Universal telescopic spring bar ; nickel silver.
 Teleskopischer universeller Federsteg ; Neusilber.
 Pasador universal telescópico ; alpaca.
 Ansa universale telescopica ; argentine.
 Pino universal telescópico ; níquel plateado.



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



Ø 1.90 mm



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

MSA	Qt.	Kg
99.025	60x	0.037

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



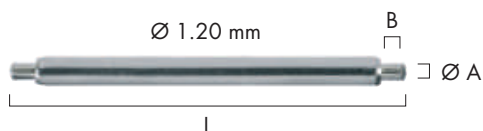
Ø 1.90 mm



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

MSA	Qt.	Kg
99.219	60x	0.045

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

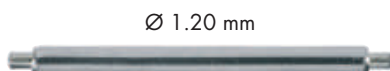
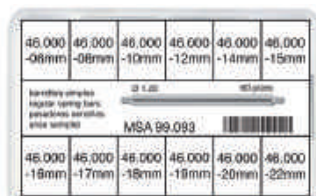


Barrette simple ; maillechort.
 Regular spring bar ; nickel silver.
 Einfacher Federsteg ; Neusilber.
 Pasador sencillo ; alpaca.
 Ansa semplice ; argenteone.
 Pino simples ; níquel plateado.



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

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



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

MSA	Qt.	Kg
99.093	60x	0.031

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

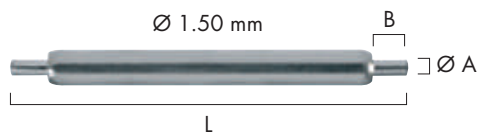


Barrette simple ; maillechort.
Regular spring bar ; nickel silver.
 Einfacher Federsteg ; Neusilber.
Pasador sencillo ; alpaca.
 Ansa semplice ; argenteone.
Pino simples ; níquel prateado.



MSA	L mm	Ø A x B mm	Kg
46.005-05.0	5	0.70 x 0.80	0.011
46.005-06.0	6	0.70 x 1.00	0.011
46.005-07.0	7	0.70 x 1.00	0.011
46.005-08.0	8	0.70 x 1.00	0.011
46.005-09.0	9	0.70 x 1.00	0.011
46.005-10.0	10	0.70 x 1.00	0.011
46.005-11.0	11	0.70 x 1.00	0.011
46.005-12.0	12	0.70 x 1.00	0.011
46.005-13.0	13	0.70 x 1.00	0.011
46.005-14.0	14	0.70 x 1.00	0.011

MSA	L mm	Ø A x B mm	Kg
46.005-15.0	15	0.70 x 1.00	0.011
46.005-16.0	16	0.70 x 1.00	0.011
46.005-17.0	17	0.70 x 1.00	0.011
46.005-18.0	18	0.70 x 1.00	0.011
46.005-19.0	19	0.70 x 1.00	0.011
46.005-20.0	20	0.70 x 1.00	0.011
46.005-21.0	21	0.70 x 1.00	0.011
46.005-22.0	22	0.70 x 1.00	0.011
46.005-23.0	23	0.70 x 1.00	0.011
46.005-24.0	24	0.70 x 1.00	0.011



Barrette simple ; maillechort.
 Regular spring bar ; nickel silver.
 Einfacher Federsteg ; Neusilber.
 Pasador sencillo ; alpaca.
 Ansa semplice ; argenteone.
 Pino 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



Ø 1.50 mm



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

MSA	Qt.	Kg
99.095	60x	0.034

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



Barrette simple ; maillechort.
Regular spring bar ; nickel silver.
 Einfacher Federsteg ; Neusilber.
Pasador sencillo ; alpaca.
 Ansa semplice ; argentine.
Pino simples ; níquel plateado.



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



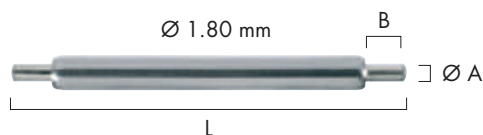
Ø 1.80 mm



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

MSA	Qt.	Kg
99.096	60x	0.040

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

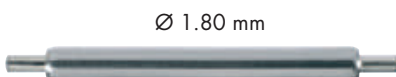


Barrette simple ; acier inoxydable.
 Regular spring bar ; stainless steel.
 Einfacher Federsteg ; Edelstahl.
 Pasador sencillo ; acero inoxidable.
 Ansa semplice ; acciaio inossidabile.
 Pino simples ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
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
46.021-17.0	17	0.90 x 2.00	0.023

MSA	L mm	Ø A x B mm	Kg
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



Assortiment de barrettes simples ; acier inoxydable.
 Assortment 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.

MSA	Qt.	Kg
99.144	50x	0.038

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

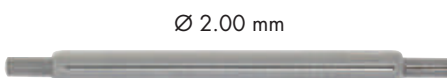


Barrette simple ; acier inoxydable.
Regular spring bar ; stainless steel.
 Einfacher Federsteg ; Edelstahl.
Pasador sencillo ; acero inoxidable.
 Ansa semplice ; acciaio inossidabile.
Pino simples ; aço inoxidável.

100
pcs

MSA	L mm	Ø A x B mm	Kg
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
46.022-17.0	17	0.90 x 2.00	0.026

MSA	L mm	Ø A x B mm	Kg
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.

MSA	Qt.	Kg
99.194	60x	0.052

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



Barrette pour fermoir ; acier inoxydable.

Spring bar for clasp ; stainless steel.

Federsteg für Schliess ; Edelstahl.

Pasador para cierre ; acero inoxidable.

Ansa per chiusura ; acciaio inossidabile.

Pino para fecho ; 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



Ø 1.00 mm



Assortiment de barrettes pour fermoirs ; acier inoxydable.

Assortiment of spring bars for clasps ; stainless steel.

Sortiment von Federstege für Schliessen ; Edelstahl.

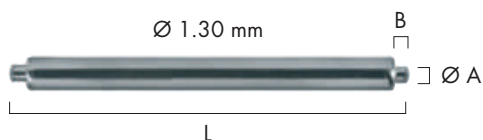
Surtido de pasadores para cierres ; acero inoxidable.

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

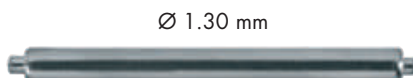


Barrette pour fermoir ; acier inoxydable.
 Spring bar for clasp ; stainless steel.
 Federsteg für Schliess ; Edelstahl.
 Pasador para cierre ; acero inoxidable.
 Ansa per chiusura ; acciaio inossidabile.
 Pino para fecho ; aço inoxidável.

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
99.036	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



Barrette pour fermoir, mesure spéciale ; acier inoxydable.
 Spring bar for clasp, special size ; stainless steel.
 Federsteg für Schliess, Sondermassnahm ; Edelstahl.
 Pasador para cierre, medida especial ; acero inoxidable.
 Ansa per chiusura, misura speciale ; acciaio inossidabile.
 Pino para fecho, medida especial ; 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, mesures spéciales ; acier inoxydable.
 Assortment of spring bars for clasps, special sizes ; stainless steel.
 Sortiment von Federsteg für Schliessen, Sondermassnahmen ; Edelstahl.
 Surtido de pasadores para cierres, medidas especiales ; acero inoxidable.
 Assortimento di anse per chiusure, misure speciali ; acciaio inossidabile.
 Sortido de pinos para fechos, medidas especiais ; aço inoxidável.

MSA	Qt.	Kg
99.192	100x	0.044

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



Barrette de sécurité pour fermoir ; acier inoxydable.

Flanged spring bar for clasp ; stainless steel.

Ansatz Federsteg für Schliess ; Edelstahl.

Pasador de seguridad para cierre ; acero inoxidable.

Ansa di sicurezza per chiusura ; acciaio inossidabile.

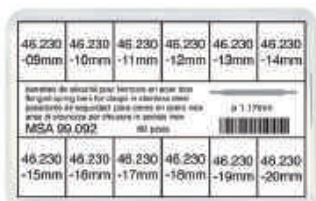
Pino de segurança para fecho ; aço inoxidável.

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 Ansatz Federsteg 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.



MSA	Qt.	Kg
99.092	60x	0.030

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



Barrette de sécurité pour fermoir ; acier inoxydable.
 Flanged spring bar for clasp ; stainless steel.
 Ansatz Federsteg für Schliess ; Edelstahl.
 Pasador de seguridad para cierre ; acero inoxidable.
 Ansa di sicurezza per chiusura ; acciaio inossidabile.
 Pino de segurança para fecho ; 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



Ø 1.30 mm



Assortiment de barrettes de sécurité pour fermoirs ; acier inoxydable.
 Assortment of flanged spring bars for clasps ; stainless steel.
 Sortiment von 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.

MSA	Qt.	Kg
99.098	60x	0.032

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



Barrette de sécurité pour fermoir ; acier inoxydable.
 Flanged spring bar for clasp ; stainless steel.
 Ansatz Federsteg für Schliess ; Edelstahl.
 Pasador de seguridad para cierre ; acero inoxidable.
 Ansa di sicurezza per chiusura ; acciaio inossidabile.
 Pino de segurança para fecho ; 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



Ø 1.50 mm



Assortiment de barrettes de sécurité pour fermoirs ; acier inoxydable.
 Assortment of flanged spring bars for clasps ; stainless steel.
 Sortiment von Ansatz Federsteg 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.

MSA	Qt.	Kg
99.152	60x	0.033

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

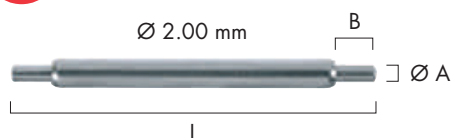
10
pcs



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

Barrette spéciale forte ; acier inoxydable.
Special strong spring bar ; stainless steel.
 Spezieller starker Federsteg ; Edelstahl.
Pasador especiale fuerte ; acero inoxidable.
 Ansa speciale forte ; acciaio inossidabile.
Pino especial forte ; aço inoxidável.

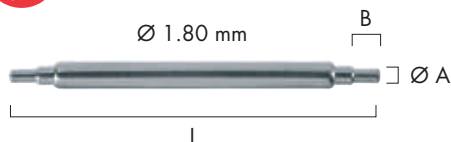
10
pcs



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

Barrette spéciale forte ; acier inoxydable.
Special strong spring bar ; stainless steel.
 Spezieller starker Federsteg ; Edelstahl.
Pasador especiale fuerte ; acero inoxidable.
 Ansa speciale forte ; acciaio inossidabile.
Pino especial forte ; aço inoxidável.

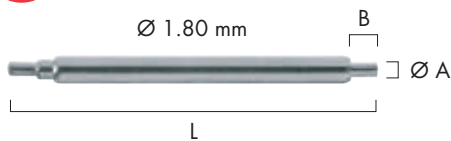
10
pcs



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

Barrette télescopique spéciale forte ; acier inoxydable.
Telescopic special strong spring bar ; stainless steel.
 Teleskopischer spezieller starker Federsteg ; Edelstahl.
Pasador telescópico especial fuerte ; acero inoxidable.
 Ansa telescopica speciale forte ; acciaio inossidabile.
Pino telescópico especial forte ; aço inoxidável.

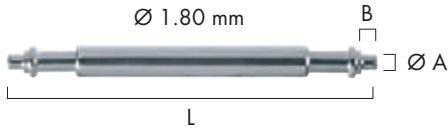
10
pcs



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

Barrette spéciale forte, 1 côté télescopique ; acier inoxydable.
Special strong spring bar, 1 telescopic side ; stainless steel.
 Spezieller starker Federsteg, 1 teleskopischer Seite ; Edelstahl.
Pasador especiale fuerte, 1 lado telescópico ; acero inoxidable.
 Ansa speciale forte, 1 lato telescopico ; acciaio inossidabile.
Pino especial forte, 1 lado telescópico ; aço inoxidável.

10
pcs



MSA	L mm	Ø A x B mm	Kg
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

Barrette de sécurité spéciale forte ; acier inoxydable.

Flanged special strong spring bar ; stainless steel.

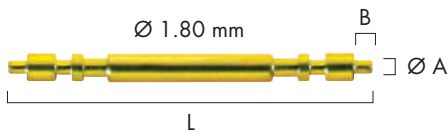
Doppel-Ansatz spezieller starker Federsteg ; Edelstahl.

Pasador de seguridad especial fuerte ; acero inoxidable.

Ansa di sicurezza speciale forte ; acciaio inossidabile.

Pino de segurança especial forte ; aço inoxidável.

10
pcs



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

Barrette double sécurité spéciale forte, dorée ; acier inoxydable.

Double flanged special strong spring bar, gilt ; stainless steel.

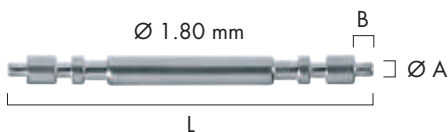
Doppel-Ansatz spezieller starker Federsteg, vergoldet ; Edelstahl.

Pasador doble seguridad especial fuerte, dorado ; acero inoxidable.

Ansa doppia sicurezza speciale forte, dorata ; acciaio inossidabile.

Pino dupla segurança especial forte, dourado ; aço inoxidável.

10
pcs



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

Barrette double sécurité spéciale forte ; acier inoxydable.

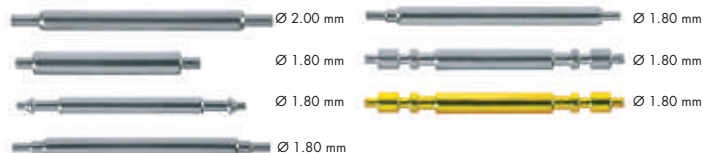
Double flanged special strong spring bar ; stainless steel.

Doppel-Ansatz spezieller starker Federsteg ; Edelstahl.

Pasador doble seguridad especial fuerte ; acero inoxidable.

Ansa doppia sicurezza speciale forte ; acciaio inossidabile.

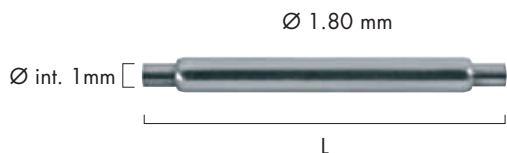
Pino dupla segurança especial forte ; aço inoxidável.



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

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

MSA	Qt.	Kg
99.120	36x	0.038

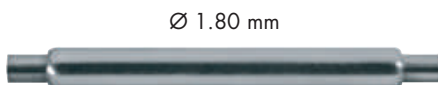
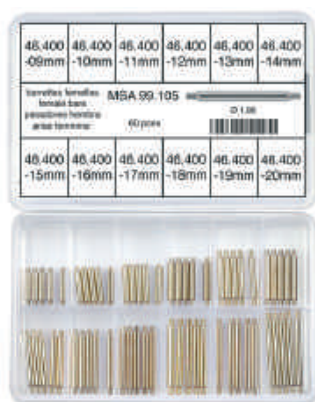


Barrette femelle ; maillechort.
 Female bar ; nickel silver.
 Weiblicher Steg ; Neusilber.
 Pasador hembra ; alpaca.
 Ansa femmina ; argentone.
 Pino fêmeo ; níquel prateado.

100
pcs

MSA	L mm	Kg
46.400-07.0	7	0.020
46.400-08.0	8	0.020
46.400-09.0	9	0.020
46.400-10.0	10	0.020
46.400-11.0	11	0.020
46.400-12.0	12	0.020
46.400-13.0	13	0.020
46.400-14.0	14	0.020
46.400-15.0	15	0.020

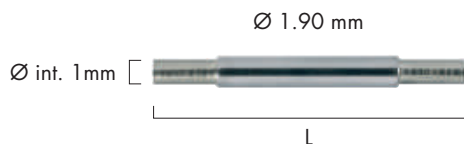
MSA	L mm	Kg
46.400-16.0	16	0.020
46.400-17.0	17	0.020
46.400-18.0	18	0.020
46.400-19.0	19	0.020
46.400-20.0	20	0.020
46.400-21.0	21	0.020
46.400-22.0	22	0.020
46.400-23.0	23	0.020
46.400-24.0	24	0.020



Assortiment de barrettes femelles ; maillechort.
 Assortiment of female bars ; nickel silver.
 Sortiment von weibliche Stege ; Neusilber.
 Surtido de pasadores hembra ; alpaca.
 Assortimento di anse femmina ; argentone.
 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**

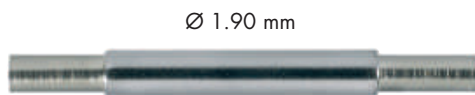


Barrette femelle universelle télescopique ; maillechort.
 Female telescopic universal bar ; nickel silver.
 Weiblicher teleskopischer universeller Steg ; Neusilber.
 Pasador hembra universal telescópico ; alpaca.
 Ansa femmina universale telescopica ; argentone.
 Pino fêmeo universal telescópico ; níquel prateado.

100
pcs

MSA	L mm	Kg
46.450-0812	08-12	0.015
46.450-1015	10-15	0.015
46.450-1218	12-18	0.016

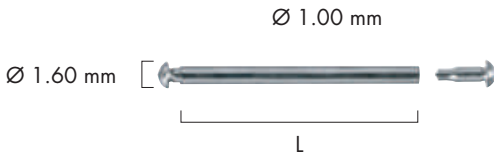
MSA	L mm	Kg
46.450-1522	15-22	0.016
46.450-1824	18-24	0.018



Assortiment de barrettes femelles universelles télescopiques ; maillechort.
 Assortment of female telescopic universal bars ; nickel silver.
 Sortiment von weibliche teleskopische universelle Stege ; Neusilber.
 Surtido de pasadores hembra universales telescópicos ; alpaca.
 Assortimento di anse femmina universali telescopiche ; argentone.
 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



Barrette à pression ; acier inoxydable.

Press-in bar ; stainless steel.

Drucksteg ; Edelstahl.

Pasador de presión ; acero inoxidable.

Ansa a pressione ; acciaio inossidabile.

Pino de pressão ; aço inoxidável.

10
pcs

MSA	L mm	Kg
46.380-10	10	0.002
46.380-12	12	0.002
46.380-14	14	0.002
46.380-15	15	0.002
46.380-16	16	0.002
46.380-17	17	0.002
46.380-18	18	0.002
46.380-19	19	0.002
46.380-20	20	0.002
46.380-21	21	0.002

MSA	L mm	Kg
46.380-22	22	0.002
46.380-23	23	0.002
46.380-24	24	0.002
46.380-25	25	0.002
46.380-26	26	0.002
46.380-27	27	0.002
46.380-28	28	0.002
46.380-29	29	0.002
46.380-30	30	0.002



Ø 1.00 mm



Assortiment de barrettes à pression ; acier inoxydable.

Assortiment of press-in bars ; stainless steel.

Sortiment von Druckstegen ; Edelstahl.

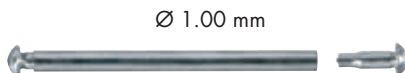
Surtido de pasadores de presión ; acero inoxidable.

Assortimento di anse a pressione ; acciaio inossidabile.

Sortido de pinos de pressão ; aço inoxidável.

MSA	Qt.	Kg
99.220	60x	0.029

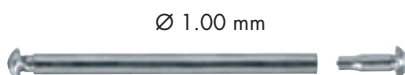
Contenu - Contents - Inhalt - Contenido - Contenuto - Conteúdo :
6 modèles - models - Modelle - modelos - modelli - modelos
10x MSA46.380-10 /-12 /-14 /-16 /-18 /-20



Assortiment de barrettes à pression ; acier inoxydable.
Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckstege ; 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
99.221	60x	0.042

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



Assortiment de barrettes à pression ; acier inoxydable.
Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckstege ; 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
99.222	100x	0.037

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



Barrette à pression ; acier inoxydable.

Press-in bar ; stainless steel.

Drucksteg ; Edelstahl.

Pasador de presión ; acero inoxidable.

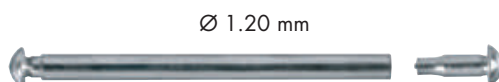
Ansa a pressione ; acciaio inossidabile.

Pino 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 Druckstege ; 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



Ø 1.20 mm



Assortiment de barrettes à pression ; acier inoxydable.

Assortiment of press-in bars ; stainless steel.

Sortiment von Druckstege ; 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



Ø 1.20 mm



Assortiment de barrettes à pression ; acier inoxydable.

Assortiment of press-in bars ; stainless steel.

Sortiment von Druckstege ; Edelstahl.

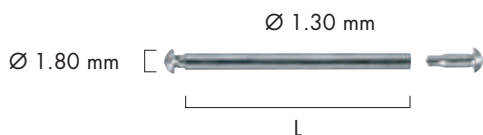
Surtido de pasadores de presión ; acero inoxidable.

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



Barrette à pression ; acier inoxydable.
 Press-in bar ; stainless steel.
 Drucksteg ; Edelstahl.
 Pasador de presión ; acero inoxidable.
 Ansa a pressione ; acciaio inossidabile.
 Pino de pressão ; aço inoxidável.

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

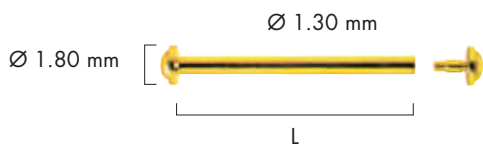
MSA	L mm	Kg
46.370-30	30	0.002
46.370-31	31	0.002
46.370-32	32	0.002
46.370-33	33	0.002
46.370-34	34	0.002
46.370-35	35	0.002



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckstegen ; 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

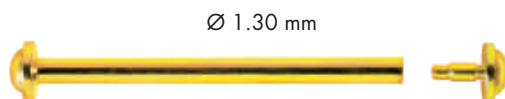


Barrette à pression, dorée ; acier inoxydable.
 Press-in bar, gilt ; stainless steel.
 Drucksteg, vergoldet ; Edelstahl.
 Pasador de presión, dorado ; acero inoxidable.
 Ansa a pressione, dorata ; acciaio inossidabile.
 Pino de pressão, dourado ; aço inoxidável.

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 Druckstege, 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



Tube pour barrettes à pression ; acier inoxydable.
 Tube for press-in bars ; stainless steel.
 Rohr für Druckstege ; Edelstahl.
 Tubo para pasadores de presión ; acero inoxidable.
 Tubo per anse a pressione ; acciaio inossidabile.
 Tubo 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

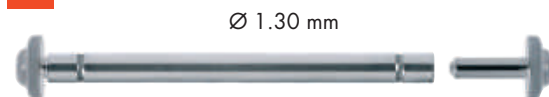
MSA	L mm	Kg
46.910-17	17	0.001
46.910-18	18	0.001
46.910-20	20	0.001
46.910-21	21	0.001



Rivet pour barrettes à pression ; laiton plaqué or 2N18 1 µ et laiton palladium 1 µ.
 Rivet for press-in bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Niete für Druckstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Remache para pasadores de presión ; latón dorado 2N18 1 µ y latón paladio 1 µ.
 Ribattino per anse a pressione ; ottone placcato oro 2N18 1 µ e ottone palladio 1 µ.
 Rebite 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	

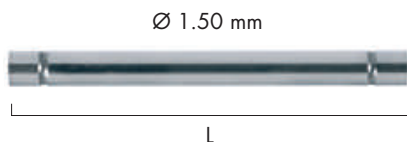
Kg 0.001 **1/1**



Assortiment de barrettes à pression ; acier inoxydable.
 Assortment of press-in bars ; stainless steel.
 Sortiment von Druckstege ; 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



Tube pour barrettes à pression ; acier inoxydable.

Tube for press-in bars ; stainless steel.

Rohr für Druckfederstege ; Edelstahl.

Tubo para pasadores de presión ; acero inoxidable.

Tubo per anse a pressione ; acciaio inossidabile.

Tubo para pinos de pressão ; aço inoxidável.

MSA	Longueur/Length mm	Kg
46.920-10	10	0.001
46.920-12	12	0.001
46.920-14	14	0.001
46.920-15	15	0.001

MSA	Longueur/Length mm	Kg
46.920-16	16	0.001
46.920-17	17	0.001
46.920-18	18	0.001
46.920-20	20	0.001



Rivet pour barrettes à pression ; laiton MS58 et laiton palladium 1 µ.

Rivet for press-in bars ; brass MS58 and palladium brass 1 µ.

Niete für Druckfederstege ; Messing MS58 und Messing Palladium 1 µ.

Remache para pasadores de presión ; latón MS58 y latón paladio 1 µ.

Ribattino per anse a pressione ; ottone MS58 e ottone palladio 1 µ.

Rebite 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



Ø 1.50 mm



Assortiment de barrettes à pression ; acier inoxydable.
 Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckstege ; 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

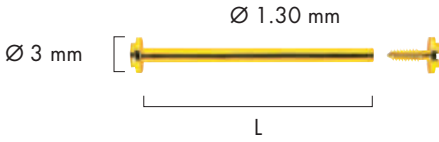


Ø 1.50 mm



Assortiment de barrettes à pression ; acier inoxydable.
 Assortiment of press-in bars ; stainless steel.
 Sortiment von Druckstege ; 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



Barrette à vis dorée ; laiton.
 Gilded screw-on bar ; brass.
 Vergoldenem Schraubsteg ; Messing.
 Pasador de rosca dorado ; latón.
 Ansa a vite dorata ; ottone.
 Pino de rosca dourado ; latão.

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

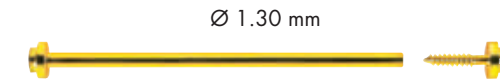
MSA	Longueur/Length mm	Kg
46.800-18	18	0.003
46.800-20	20	0.003

100
pcs



Vis pour barrettes à vis dorées ; laiton.
 Screw for gilded screw-on bars ; brass.
 Schraube für vergoldene Schraubstege ; Messing.
 Tornillo para pasadores de rosca dorados ; latón.
 Vite per anse a vite dorate ; ottone.
 Parafuso para pinos de rosca dourados ; latão.

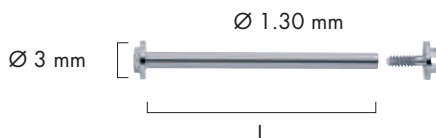
MSA	Kg
46.800-V	0.006



Assortiment de barrettes à vis dorées ; laiton.
 Assortment of gilded screw-on bars ; brass.
 Sortiment von vergoldene Schraubstege ; Messing.
 Surtido de pasadores de rosca dorados ; latón.
 Assortimento di anse a vite dorate ; ottone.
 Sortido de pinos de rosca dourados ; latão.

MSA	Qt.	Kg
99.002	60x	0.043

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



Barrette à vis chromée ; laiton.
 Chromed screw-on bar ; brass.
 Verchromtem Schraubsteg ; Messing.
 Pasador de rosca cromado ; latón.
 Ansa a vite cromata ; ottone.
 Pino de rosca cromado ; latão.

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

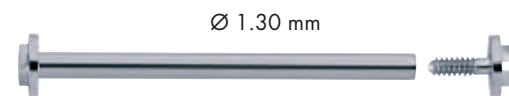
MSA	Longueur/Length mm	Kg
46.801-18	18	0.003
46.801-20	20	0.003

100
pcs



Vis pour barrettes à vis chromées ; laiton.
 Screw for chromed screw-on bars ; brass.
 Schraube für verchromte Schraubsteg ; Messing.
 Tornillo para pasadores de rosca cromados ; latón.
 Vite per anse a vite cromate ; ottone.
 Parafuso para pinos de rosca cromados ; latão.

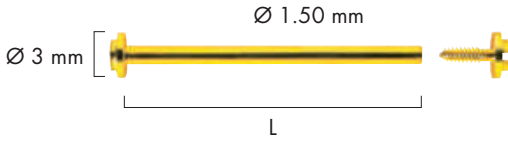
MSA	Kg
46.801-V	0.005



Assortiment de barrettes à vis chromées ; laiton.
 Assortment of chromed screw-on bars ; brass.
 Sortiment von verchromte Schraubsteg ; Messing.
 Surtido de pasadores de rosca cromados ; latón.
 Assortimento di anse a vite cromate ; ottone.
 Sortido de pinos de rosca cromados ; latão.

MSA	Qt.	Kg
99.108	60x	0.043

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

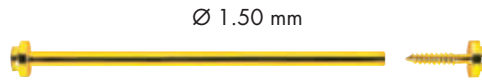


Barrette à vis dorée ; laiton.
 Gilded screw-on bar ; brass.
 Vergoldenem Schraubsteg ; Messing.
 Pasador de rosca dorado ; latón.
 Ansa a vite dorata ; ottone.
 Pino de rosca dourado ; latão.

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

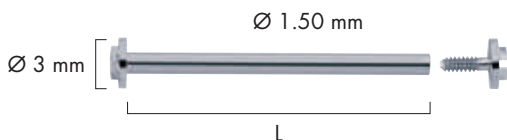
MSA	Longueur/Length mm	Kg
46.802-18	18	0.004
46.802-20	20	0.004



Assortiment de barrettes à vis dorées ; laiton.
 Assortiment of gilded screw-on bars ; brass.
 Sortiment von vergoldene Schraubsteg ; Messing.
 Surtido de pasadores de rosca dorados ; latón.
 Assortimento di anse a vite dorate ; ottone.
 Sortido de pinos de rosca dourados ; latão.

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

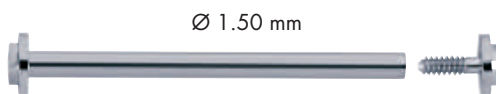


Barrette à vis chromée ; laiton.
 Chromed screw-on bar ; brass.
 Verchromtem Schraubsteg ; Messing.
 Pasador de rosca cromado ; latón.
 Ansa a vite cromata ; ottone.
 Pino de rosca cromado ; latão.

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 chromées ; laiton.
 Assortiment of chromed screw-on bars ; brass.
 Sortiment von verchromte Schraubsteg ; Messing.
 Surtido de pasadores de rosca cromados ; latón.
 Assortimento di anse a vite cromate ; ottone.
 Sortido de pinos de rosca cromados ; latão.

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



Ø 1.30 mm



Tube pour barrettes à vis ; maillechort.
 Tube for screw-on bars ; nickel silver.
 Rohr für Schraubstege ; Neusilber.
 Tubo para pasadores de rosca ; alpaca.
 Tubo per anse a vite ; argentone.
 Tubo para pinos de rosca ; níquel prateado.

MSA	Longueur/Length mm	Kg
46.810-10	10	0.001
46.810-12	12	0.001
46.810-14	14	0.001
46.810-15	15	0.001

MSA	Longueur/Length mm	Kg
46.810-16	16	0.001
46.810-17	17	0.001
46.810-18	18	0.001
46.810-20	20	0.001



Vis pour barrettes à vis ; laiton plaqué or 2N18 1 µ et laiton palladium 1 µ.
 Screw for screw-on bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Schraube für Schraubstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Tornillo 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.
 Parafuso 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



Ø 1.30 mm

Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubstege ; Neusilber.
 Surtido de pasadores de rosca ; alpaca.
 Assortimento di anse a vite ; argenteone.
 Sortido de pinos de rosca ; níquel plateado.

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
99.055	16x + 32x	0.073



Ø 1.30 mm

Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubstege ; Neusilber.
 Surtido de pasadores de rosca ; alpaca.
 Assortimento di anse a vite ; argenteone.
 Sortido de pinos de rosca ; níquel plateado.

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

MSA	Qt.	Kg
99.059	80x + 160x	0.265



Tube pour barrettes à vis ; maillechort.
 Tube for screw-on bars ; nickel silver.
 Rohr für Schraubstege ; Neusilber.
 Tubo para pasadores de rosca ; alpaca.
 Tubo per anse a vite ; argentone.
 Tubo 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.
 Screw for screw-on bars ; brass gold-plated 2N18 1 µ and palladium brass 1 µ.
 Schraube für Schraubstege ; Messing vergoldet 2N18 1 µ und Messing Palladium 1 µ.
 Tornillo 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.
 Parafuso 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 Schraubstege ; Neusilber.
 Surtido de pasadores de rosca ; alpaca.
 Assortimento di anse a vite ; argenteone.
 Sortido de pinos de rosca ; níquel plateado.

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

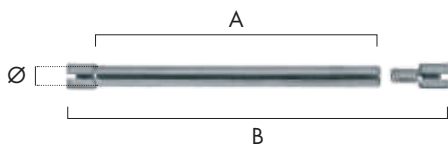
MSA	Qt.	Kg
99.056	16x + 32x	0.089



Assortiment de barrettes à vis ; maillechort.
 Assortiment of screw-on bars ; nickel silver.
 Sortiment von Schraubstege ; Neusilber.
 Surtido de pasadores de rosca ; alpaca.
 Assortimento di anse a vite ; argenteone.
 Sortido de pinos de rosca ; níquel plateado.

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



Barrette à vis extra-large + vis ; acier inoxydable.
 Extra large screw-on bar + screw ; stainless steel.
 Extra breiter Schraubsteg + Schraube ; Edelstahl.
 Pasador de rosca extra-ancho + tornillo ; acero inoxidable.
 Ansa a vite super lunga + vite ; acciaio inossidabile.
 Pino de rosca extra-largo + parafuso ; 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.
 Assortment of extra large screw-on bars ; stainless steel.
 Sortiment von extra breite Schraubstege ; Edelstahl.
 Surtido de pasadores de rosca extra-anchos ; acero inoxidable.
 Assortimento di anse a vite super lunghe ; acciaio inossidabile.
 Sortido de pinos de rosca extra-largos ; aço inoxidável.

MSA	Qt.	Kg
99.195	60x	0.056

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