MINI CYLINDERS INOX ISO 6432

Pressures
1 bar (0.1 MPa)
10 bar (1 MPa)

Reference Standard
1907/2006 REACH ✓ | 2011/65/CE RoHS ✓ | SILICON FREE | ATEX 2014/34/UE

Temperature
0 °C (-20 °C con aria secca)
+ 80 °C

Sensors recommended
DSL con staffa MFX
DF con staffa DH

CHARACTERISTICS

Fluids	Filtered compressed air, lubricated or non-lubricated
Nut	AISI 304 steel
Rod	AISI 316 stainless steel
Rod seal	Polyurethane
Front and rear head	AISI 304 steel
Locking ring	Galvanized steel
Bushing	Sintered bronze
O-ring seals	NBR (Nitrile rubber)
Bumpers	Neoprene
Piston	Brass
Piston seal	Polyurethane
Magnet	Plastoferrite
Mini cylinder barrel	AISI 304 stainless steel
Functioning	Single acting magnetic. Double acting single or double end rod, magnetic, cushioned or non-cushioned.

Ex II 2GD c T6 -20°C < Tamb < +80°C

Series	Ø mm	Sroke	Special version
M F I	0 1 6	0 0 2 5	V S
MFI Double Acting Magnetic **MJI** Double Acting Magnetic With Double Rod End	Ø16 Ø20 Ø25	Ø010 Ø025 Ø050 Ø080 Ø100 Ø125 Ø150 Ø160 Ø200 Ø250 Ø320 Intermediate or higher strokes are available on request	**VS** Rod Seals in FKM **V** Seals in FKM

Thrust and traction forces

Cylinder Ø	Rod Ø	Effective area mm²			Working pressure bar									
					1	2	3	4	5	6	7	8	9	10
					Developed force									
16	6	S	=	200	18	36	54	72	90	108	126	144	162	180
		T	=	173	16	32	48	64	80	96	112	128	144	160
20	8	S	=	314	28	56	84	112	140	168	196	224	252	280
		T	=	264	24	48	72	96	120	144	168	192	216	240
25	10	S	=	490	44	88	132	176	220	264	308	352	396	440
		T	=	412	36	72	108	144	180	216	252	288	324	360

S Thrust; **T** Traction

Spring forces

Cylinder Ø	Carico molla	Sroke		
		10	25	50
		Developed force		
16	R	16,5	13,7	9
	C	18,3	18,3	18,3
20	R	19	15,5	9,5
	C	21,5	21,5	21,5
25	R	27	24	13,5
	C	29	29	29

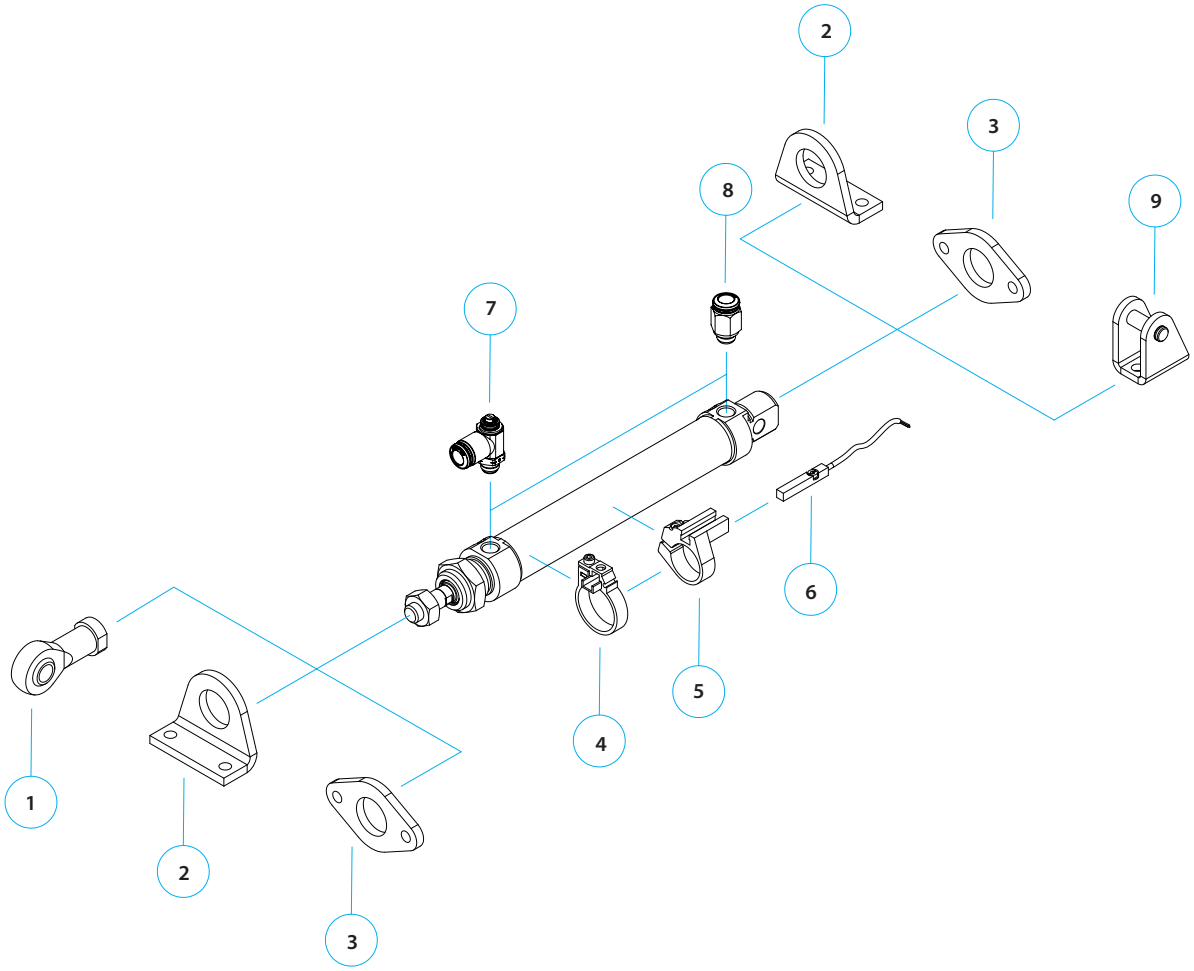
R Spring load at rest; **C** Compressed spring load

Cylinder consumption

Cylinder Ø	Rod Ø	Effective area mm²			Working pressure bar									
					1	2	3	4	5	6	7	8	9	10
					Air consumption per 10 mm of stroke									
16	6	S	=	200	0,004	0,006	0,008	0,010	0,012	0,014	0,016	0,018	0,020	0,022
		T	=	173	0,003	0,005	0,007	0,009	0,010	0,012	0,014	0,016	0,017	0,019
20	8	S	=	314	0,006	0,009	0,013	0,016	0,019	0,022	0,025	0,028	0,031	0,035
		T	=	264	0,005	0,008	0,011	0,013	0,016	0,018	0,021	0,024	0,026	0,029
25	10	S	=	490	0,010	0,015	0,020	0,025	0,029	0,034	0,039	0,044	0,049	0,054
		T	=	412	0,008	0,012	0,016	0,021	0,025	0,029	0,033	0,037	0,041	0,045

S Thrust; **T** Traction

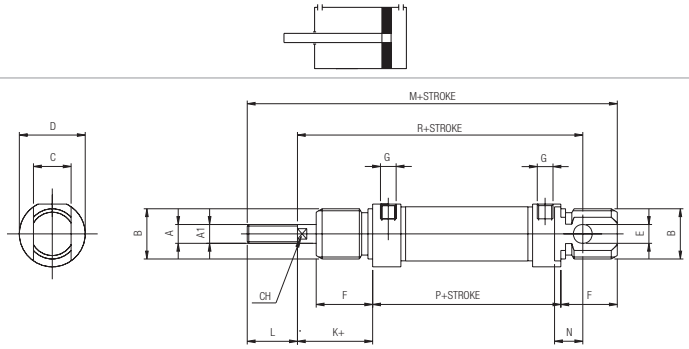
FIXING ELEMENTS AND ACCESSORIES - MINI CYLINDERS INOX ISO 6432



1	FORK WITH ANGLED JOINT PIN - TFI
2	FOOT - MPDI
3	FLANGE - MFLI
4	BRACKET MFX FOR SENSOR - DSL
5	dh bracket for df Sensor
6	Sensor DF - dsl
7	Flow regulator
8	Quick fitting
9	HINGE - MCCI

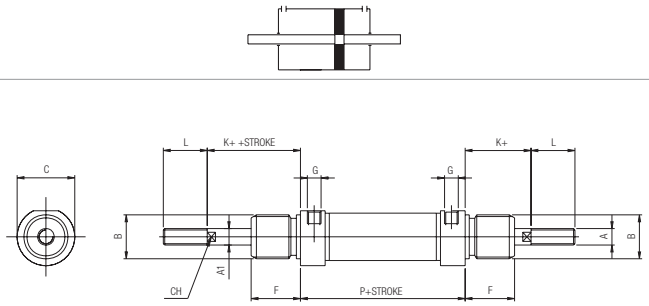
SERIES - MINI CYLINDERS INOX ISO 6432

MFI - DOUBLE ACTING MAGNETIC



Ø	A	A1	B	C	D	E	F	G	K	L	M	N	P	R	CH
16	M6	6	M16x1.5	12	19	6	18	M5	22	16	109	9	53	82	5
20	M8	8	M22x1.5	16	27	8	20	1/8G	24	20	131	12	67	95	7
25	M10x1.25	10	M22x1.5	16	30	8	22	1/8G	28	22	140	12	68	104	9

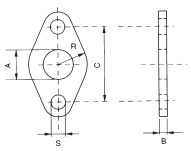
MJ - DOUBLE ACTING MAGNETIC WITH DOUBLE ROD END



Ø	A	A1	B	C	F	G	K	L	P	CH
16	M6	6	M16x1.5	19	18	M5	22	16	53	5
20	M8	8	M22x1.5	27	20	1/8G	24	20	67	7
25	M10x1.25	10	M22x1.5	30	22	1/8G	28	22	68	9

FIXING ELEMENTS AND ACCESSORIES

MFLI - FLANGE

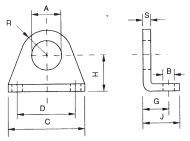


Code	Ø	A	B	C	R	S
MFLI 008	8-10	12	3	30	9	4.5
MFLI 012	12-16	16	4	40	13	5.5
MFLI 020	20-25	22	5	50	19	6.6

Material: Stainless Steel

FIXING ELEMENTS AND ACCESSORIES

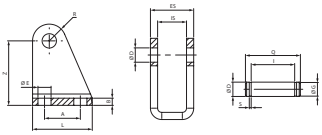
MPDI - FOOT



Code	Ø	A	B	C	D	G	H	J	R	S
MPDI 008	8-10	12	4.5	35	25	11	16	16	10	3
MPDI 012	12-16	16	5.5	42	32	14	20	20	13.5	4
MPDI 020	20-25	22	6.6	54	40	17	25	25	18	5

Material: Stainless Steel

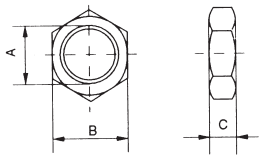
MCCI - CLEVIS BRACKET



Code	Ø	A	B	R	L	Z	IS	ES	S	I	Q	ØE	ØD	ØG
MCCI 008	8-10	12.5	2.5	5	22	24	8.1	13	0.8	14	18	4.5	4	2.3
MCCI 012	12-16	15	3	7	25	27	12	18	0.8	19	24	5.5	6	4
MCCI 020	20-25	20	4	10	32	30	16	24	0.9	25	30	6.5	8	7

Material: Stainless Steel

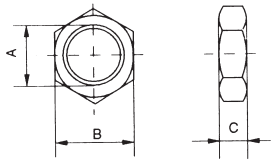
DA - NUT FOR COVERS



Code	A	B	C
0DA00 00 43 E3 ZI	M16x1.5	22	6
0DA00 00 43 F6 ZI	M22x1.5	27	8

Material: Steel

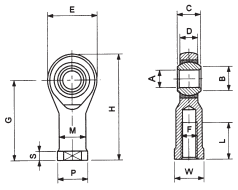
DA - NUT FOR RODS



Code	A	B	C
0DA00 00 43 B8 ZI	M6	10	5
0DA00 00 43 C3 ZI	M8x1.25	13	6.5
0DA00 00 43 C9 ZI	M10x1.25	17	8

Material: Stainless Steel

TF - ROD ENDS SELF-LUBRICATING



Code ■	F	A	B	C	Ø Sfera	D	E	G	H	L	M	P	S	W	Radial load D	Radial load S	Weight
		H7	0	0 / - 0.13		± 0.13	± 0.5	± 0.5		± 0.7	± 0.7	± 0.5	+ 0.2/- 0.7	± 0.25	kg	kg	g
TFI 008	M4x0,7	5	7,7	8	11,11	6	18	27	36	10	9	11	4	9	-	-	-
TFI 012	M6x1	6	8,9	9	12,7	6,75	20	30	40	9	10	13	5	11	470	1.100	19
TFI 020	M8x1.25	8	10,4	12	15,88	9	24	36	48	12	12,5	16	5	14	780	1.900	36
TFI 025	M10x1,25	10	12,9	14	19,05	10,5	28	43	57	15	15	19	6,5	17	1.200	3.100	88

■ Material: Stainless Steel

D Dynamic; S Static