

MINI-CYLINDER SERIES ISO 6432 Ø 8-25 mm AND ACCESSORIES

Mini-cylinders to ISO 6432 are available in various versions with a wide range of accessories:

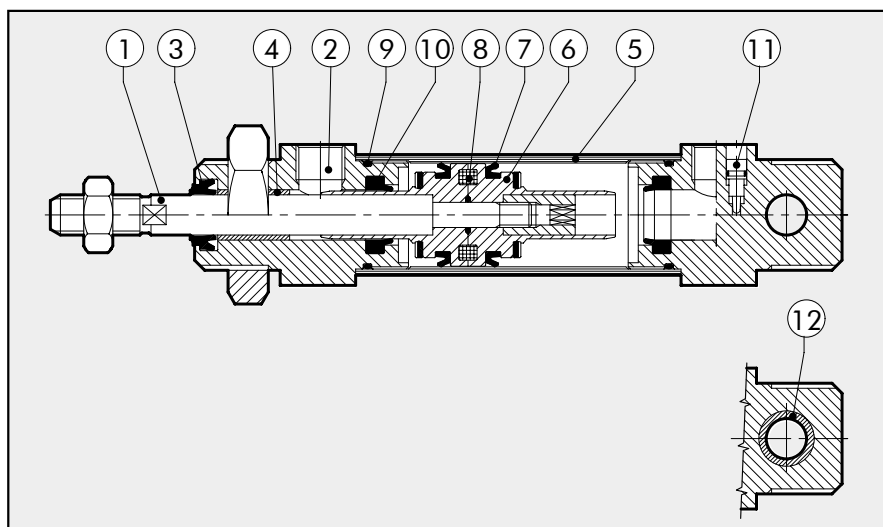
- configuration with or without magnet
- single- or double-acting - single or through-rod
- version with pneumatic cushioning (Ø 16-20-25)
- choice of gaskets made of NBR, POLYURETHANE and Viton® (for high temperatures)
- special configurations on request
- fixing accessories, guide unit and mechanical piston rod lock.



TECHNICAL DATA	Polyurethane		NBR	Viton®
Operating pressure	max 10 bar (max 1 MPa)			
Temperature range	-10°C to +80°C	-10°C to +80°C	-10°C to +150°C (non-magnetic cylinders)	
Fluid	Unlubricated air. Lubrication, if used, must be continuous			
Bores	Ø8; Ø10; Ø12; Ø16; Ø20, Ø25;			
Design	Threaded heads			
Standard strokes	Single-acting:	for bores Ø8-25 strokes from 0 to 50 mm		
	Double-acting:	for bores Ø8-10 strokes from 0 to 100 mm		
		for bores Ø12-16 strokes from 0 to 200 mm		
		for bores Ø20-25 strokes from 0 to 500 mm		
	Double-acting, cushioned:	for bores Ø16 strokes from 0 to 300 mm		
		for bores Ø20-25 strokes from 0 to 500		
Versions	Double-acting, Double-acting cushioned, Single-acting retracted piston rod, Through-rod, Through-rod cushioned, Version with piston rod block.			
Magnet for sensors	All versions come complete with magnet. Supplied without magnet on request.			
Inrush pressure	Ø8 to Ø12: 0.8 bar - Ø16 to Ø25: 0.6 bar			
Forces generated at 6 bar thrust/retraction	Ø 8: 28N / 22N	Ø 10: 44N / 37N	Ø 12: 64N / 50N	
	Ø 16: 108N / 95N	Ø 20: 169N/148N	Ø 25: 265N / 228N	

COMPONENTS

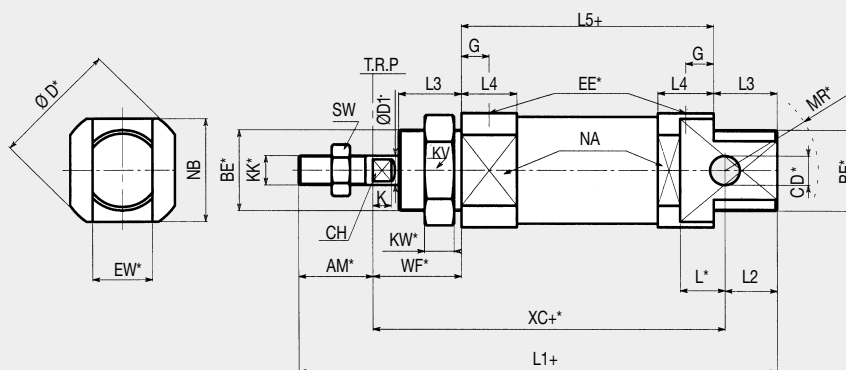
- 1 PISTON ROD: C40 steel or stainless steel, thick chromed
- 2 HEAD: anodised aluminium alloy
- 3 PISTON ROD GASKET: SFR (PARKER PRADIFA) self-lubricating, NBR or Viton®
- 4 GUIDE BUSHING: steel strip with bronze and PTFE insert
- 5 JACKET: drawn anodised aluminium alloy
- 6 HALF-PISTON: acetal resin
- 7 PISTON ROD GASKET: polyurethane (PARKER PRADIFA), NBR or Viton®
- 8 MAGNET: neodymium
- 9 Static O-rings: NBR or Viton®
- 10 CUSHIONING GASKET: NBR or Viton®
- 11 NEEDLE: OT 58 with needle out movement safety system even when fully open
- 12 BUSHING (optional): self-lubricating bronze





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DIMENSIONS OF STANDARD VERSION - CODE 111-112-113

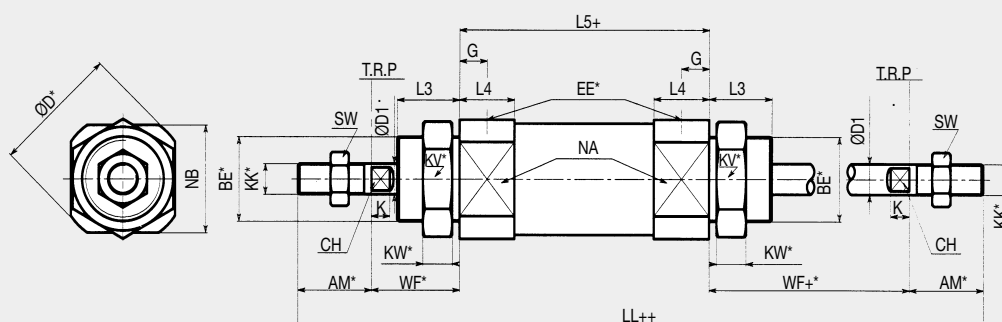


+ = ADD STROKE

Ø	AM (+0.0;-2.0)	BE	øCD (H9)	øD	øD1	G	EE	EW (d13)	L	L1	L2	L3	L4	L5	KK	XC±1	WF (±1,2)	KW	KV	MR	NA	NB	SW	CH	K
8	12	M12x1.25	4	17	4	6	M5	8	6	86	10	12	10	46	M4	64	16	7	19	12	15	15	7	3	3
10	12	M12x1.25	4	17	4	6	M5	8	6	86	10	12	10	46	M4	64	16	7	19	12	15	15	7	3	3
12	16	M16x1.5	6	19	6	6	M5	12	9	104	13	17	10	49	M6	75	22	8	24	16	17	17	10	5	3.5
16	16	M16x1.5	6	23	6	6	M5	12	9	111	13	17	10	56	M6	82	22	8	24	16	20	20	10	5	3.5
20	20	M22x1.5	8	34	8	8	G 1/8	16	12	129	14	17	15	68	M8	95	24	10	32	18	28	28	13	7	4.6
25	22	M22x1.5	8	34	10	9	G 1/8	16	12	143	17	20	18	73	M10x1.25	104	28	10	32	21	30	30	17	8	5

*Dimensions to ISO 6432

DIMENSIONS OF STANDARD VERSION WITH THROUGH-ROD - CODE 104-111-115



+ = ADD STROKE

++ = ADD TWICE THE STROKE

Ø	AM (+0.0;-2.0)	BE	øD	øD1	G	EE	LL	L3	L4	L5	KK	WF (±1,2)	KW	KV	NA	NB	SW	CH	K
8	12	M12x1.25	17	4	6	M5	102	12	10	46	M4	16	7	19	15	15	7	3	3
10	12	M12x1.25	17	4	6	M5	102	12	10	46	M4	16	7	19	15	15	7	3	3
12	16	M16x1.5	19	6	6	M5	125	17	10	49	M6	22	8	24	17	17	10	5	3.5
16	16	M16x1.5	23	6	6	M5	132	17	10	56	M6	22	8	24	20	20	10	5	3.5
20	20	M22x1.5	34	8	8	G 1/8	156	17	15	68	M8	24	10	32	28	28	13	7	4.6
25	22	M22x1.5	34	10	9	G 1/8	173	20	18	73	M10x1.25	28	10	32	30	30	17	8	5

*Dimensions to ISO 6432

KEY TO CODES

CIL	1	1	2	0		1	6	0	0	2	0	C		P	
	TYPE			DIAMETER			STROKE								
101	SE	axial coupling		0	Standard	08		Ø 8÷10	stroke 0-100 mm			C	C40	P	polyurethane
102	DE	axial coupling		U	Bronze rear	10		Ø 12÷16	stroke 0-200 mm				chrome-	N	NBR
104	SE	through-rod			head bushing	12		Ø 20÷25	stroke 0-500 mm				plated	V	Viton®
106	SE	cushioned		V	Without	16							piston rod		
109		DEA			head nut	20						X	stainless		
110		DE		S	Non-	25							steel piston		
111		SE			magnetic								rod		
112		DEM													
113		DEMA													
114	DEM	through-rod													
115	DEMA	through-rod													
116		DEM													
		for mechanical lock													
117		DEMA													
		for mechanical lock													

DE: Double-acting (non-cushioned, not magnetic)

DEM: Magnetic double-acting (non-cushioned)

DEMA: Magnetic double-acting (cushioned)

DEA: Cushioned double-acting (non-magnetic)

SE: Single-acting (magnetic)

N.B.: For cylinders Ø 8 to 10, standard stainless steel piston rod.