

Series 1260/1320 - Piston rod lock

General

The piston rod lock devices are clamping units mounted on the microbore cylinders front head. They allow the piston rod to lock in any position.

Piston rod clamping is mechanically obtained by springs actuated purpose-made jaws.

This method allows to lock the cylinder in the desired position, should the air pressure drop.

The piston rod lock device is not a safety device.

Construction characteristics

Mounting bracket	Anodised aluminium
Body	Anodised aluminium
Clamping jaws	Hardened alloy copper
Piston	Acetal resin
Seal	NBR
Springs	Springs steel

Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.						
Working pressure	3 bar - 6 bar						
Working temperature	-5°C - +70°C						
Functioning	mechanical double jaws						
Locking	axial, two-direction (normally locked)						
Unlocking	pneumatic						
Clamping force	Ø12	Ø16	Ø20	Ø25	Ø32		
with static load (microbore cylinders)	180N	180N	350N	350N	600N		
Clamping force	Ø32	Ø40	Ø50	Ø63	Ø80	Ø100	Ø125
with static load (cylinders)	600N	1000N	1400N	2000N	5000N	5000N	7000N

"Attention: Dry air must be used for application below 0°C"

Use and maintenance

Operate within the specified technical characteristics.

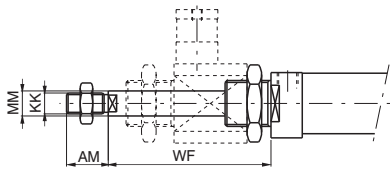
The piston rod lock does not require maintenance if properly utilised.

The working inlet port has to be pressurised for assembling the piston rod lock device on cylinder. Alternatively adjust the jaws with screw located on connection.

Spare parts are not available.

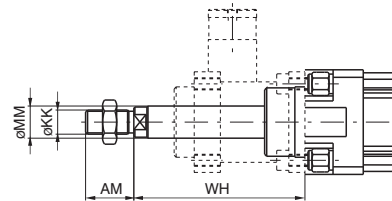
Microbore cylinders for piston rod lock

Threaded end covers version



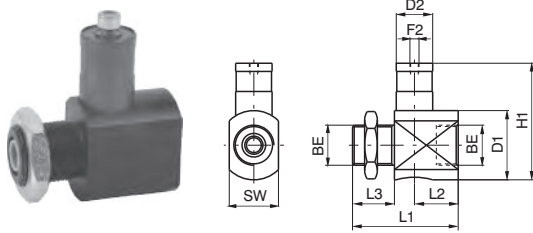
Ordering code	Order piston rod lock separately. Do not use with stainless steel or hexagonal piston rod.
12_ _Ø.stroke.B	

Cylinders for piston rod lock



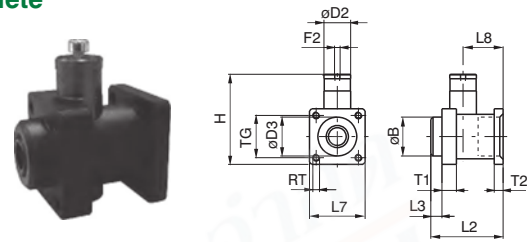
Ordering code	Order piston rod lock separately. Do not use with stainless steel piston rod.
13 --Ø.stroke.--B	

Piston rod lock complete



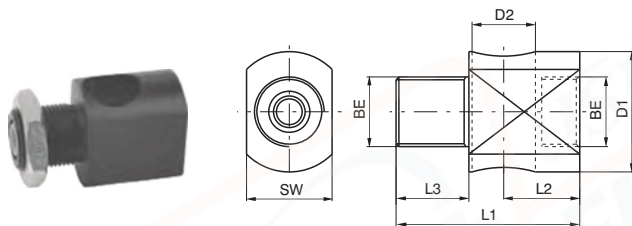
Do not use as safety device

Ordering code	Ø	12	16	20	25	32
1260.Ø.51BS	Weight g	82	82	140	140	188

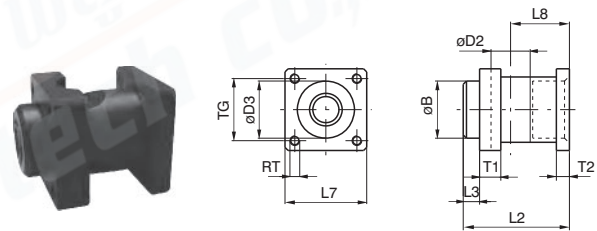


Ordering code	Ø	32	40	50	63	80	100	125
1320.Ø.51BS	Weight g	191	276	535	852	1772	2412	5250

Piston rod lock bracket

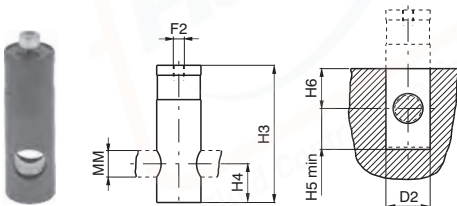


Ordering code	Ø	12	16	20	25	32
1260.Ø.51S	Weight g	60	60	85	85	133



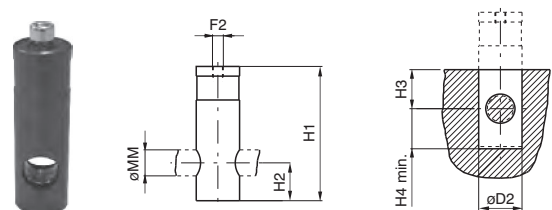
Ordering code	Ø	32	40	50	63	80	100	125
1320.Ø.51S	Weight g	142	171	360	486	1060	1700	3500

Piston rod lock and housing



Do not use as safety device

Ordering code	Ø	12	16	20	25	32
1260.Ø.51B (Ø12÷Ø25)	Weight g	22	22	55	55	55
1320.32.51B (Ø32)						



Ordering code	Ø	32	40	50	63	80	100	125
1320.Ø.51B	Weight g	49	105	175	366	712	712	1750

Table of dimensions (series 1200)

Bore	AM	BE	D1	D2	F2	H1	H3	H4	H5	H6	KK	L1	L2	L3	MM	SW	WF
12	16	M16x1,5	20	16	M5	35	35	10	11	10	M6x1	42	21	12	6	20	55
16	16	M16x1,5	20	16	M5	35	35	10	11	10	M6x1	42	21	12	6	20	55
20	20	M22x1,5	38	20	M5	64	62	17,5	19	18	M8x1,25	58	24	23	8	27	73
25	22	M22x1,5	38	20	M5	64	62	17,5	19	18	M10x1,25	58	24	23	10	27	77
32	20	M30x1,5	39,5	20	M5	64	62	17,5	18,5	18	M10x1,25	60	26	22	12	35	76,5

Table of dimensions (series 1300)

Bore	AM	B	D2	D3	F2	H	H1	H2	H3	H4	KK	L2	L3	L7	L8	MM	RT	T1	T2	TG	WH
32	22	30	20	30,5	M5	67	62	17,5	18	18,5	M10x1,25	58	10	45	31,5	12	M6	13	8	32,5	74
40	24	35	24	35	G 1/8"	86	83	22	22	23	M12x1,25	65	10	50	36	16	M6	13	8	38	85
50	32	40	30	40	G 1/8"	105	100	25	25	26	M16x1,5	82	12	60	45,5	20	M8	16	15	46,5	107
63	32	45	38	45	G 1/8"	121	116	30	30	31	M16x1,5	82	12	70	49,5	20	M8	16	15	56,5	107
80	40	45	48	45	G 1/8"	164	155	36	36	37	M20x1,5	110	20	90	61	25	M10	20	18	72	126
100	40	55	48	55	G 1/8"	172	155	36	36	37	M20x1,5	115	23	105	65	25	M10	20	18	89	143
125	54	60	65	60	G 1/8"	210	195	56	55	56	M27x2	167	45	140	86,5	32	M12	30	22	110	187