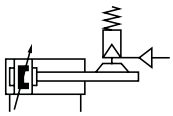
Series XLBH, XSIBH, SLXBH
ISO 15552

Technical details

Operating pressure	Bremse: 3 ... 6 bar
Temperature range	-5°C ... +80°C
Max. stroke	2.800 mm
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	cylinder tube: Al (anodized) End caps: Al-die-cast (painted) Piston rod: steel hard chrome plated Seals: PU, NBR Rod lock: Al (anodized), steel, steel, zinc plated, bronze, PU, NBR, Delrin

A BH rod lock with mechanical clamping is mounted on the front cylinder head. The rod lock is activated by spring force when at rest and is released by pressurisation.
Rod lock's functioning is of static type (cylinder rod must be stopped). It is necessary to stop the cylinder rod before locking it.

Versions



XLBH, XSIBH, SLXBH
rod lock, cylinder double acting, adjustable cushioning, with magnetic piston

Order code

BH--****-***

Cylinder series	
XL	mounted on cylinder series XL
XSI	mounted on cylinder series 88-XSI
SLX	mounted on cylinder series SLX

Piston Ø	
032	32 mm
040	40 mm
050	50 mm
063	63 mm
080	80 mm
100	100 mm
125	125 mm

Versions	
050	standard version

Stroke (mm)	
XXXX	Max. stroke according to cylinder series

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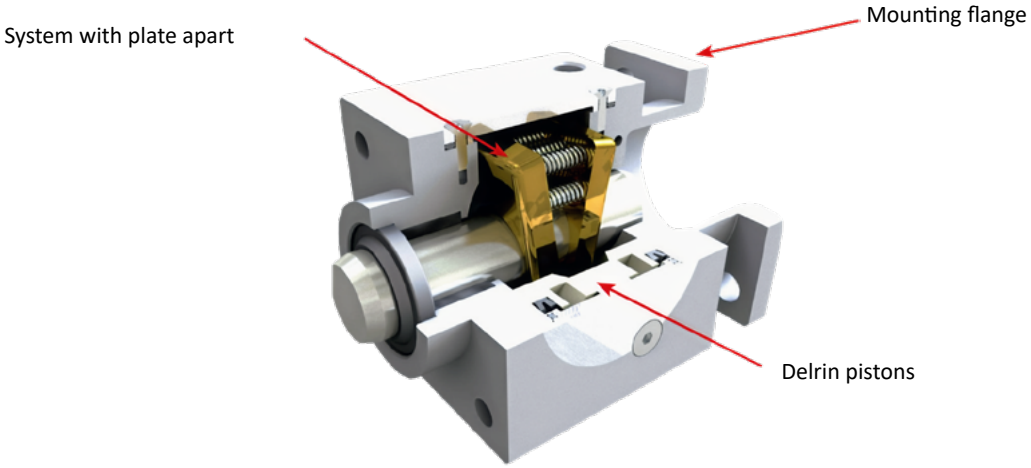
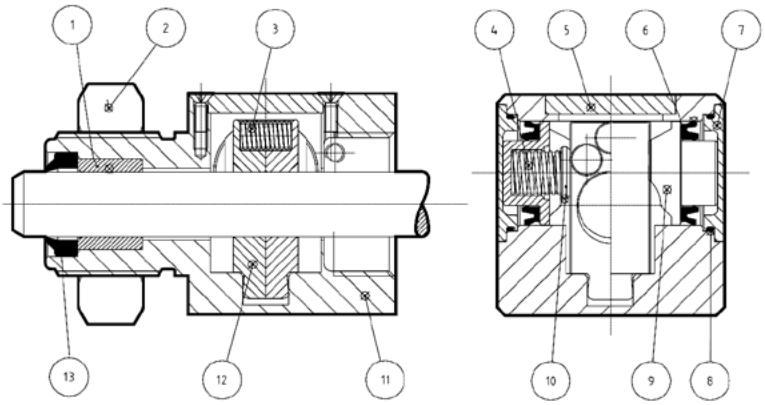
Design and function

The BH series rod lock is a mechanical device that can be used for all ISO 15552 and ISO 6432 cylinders. It is used to lock the piston rod of the cylinder in any position.
This solution makes it possible to block the stroke of the cylinder each time an unexpected pressure drop occurs.
The blocking force is always greater than that developed by the corresponding cylinder at 10 bar.





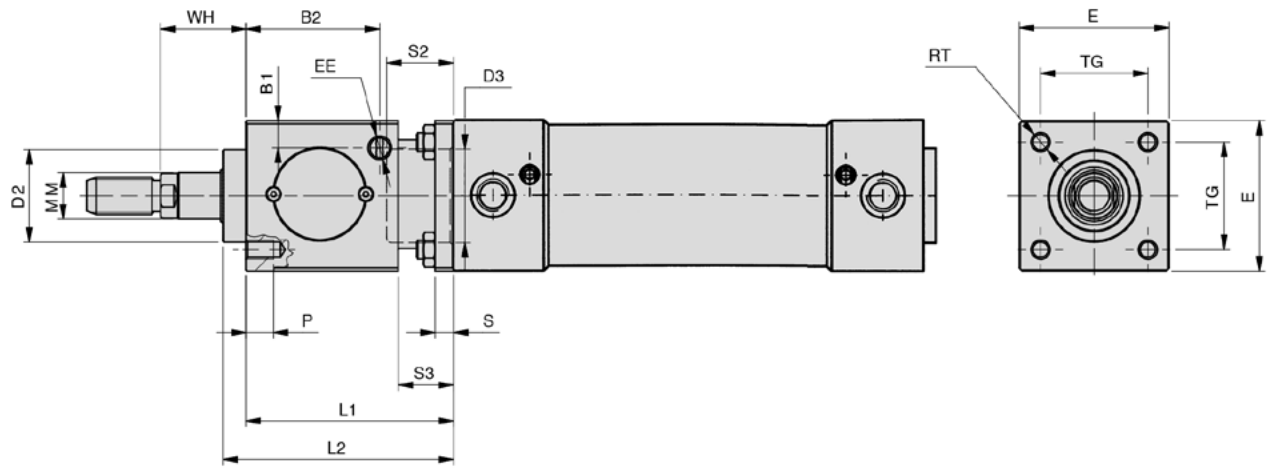
Position	Description	Material
1	guide bush	Delrin
2	nut (only for BH-20 and BH-25)	steel
3	spring	steel
4	spring	steel
5	cover	aluminium
6	piston seal	PUR
7	cover	aluminium
8	O ring	NBR
9	piston	Delrin
10	spring cover	Delrin
11	body	aluminium
12	jaws	bronze
13	piston rod seal	NBR

Series XLBH, XSIBH, SLXBH
ISO 15552

Technical data

Model-no.:		***BH-032	***BH-040	***BH-050	***BH-063	***BH-080	***BH-100	***BH-125
Piston Ø (mm)		32	40	50	63	80	100	125
Force at 6 bar (N)	Extension	434	678	1060	1682	2713	4239	6623
	Retraction	373	570	890	1513	2448	3974	6189
Clamp force (N)		790	1240	1930	3060	5400	7700	12040
Operating pressure cylinder (bar)		3 ... 6	3 ... 6	3 ... 6	3 ... 6	3 ... 6	3 ... 6	3 ... 6
Release pressure (bar)		> 4.5	> 4.5	> 4.5	> 4.5	> 4.5	> 4.5	> 4.5

Dimensions series XLBH, SLBH, XSIBH



EE = port to release the rod lock

Piston Ø	B1	B2	ØD2	D3	E	EE	L1	L2
32	9	33.25	30	30.5	47	G1/8	60	67.5
40	9	42.5	34.9	35.5	54	G1/8	70	80
50	12.5	58	40	40.5	65	G1/8	90	100
63	17.5	59	45	45.5	75	G1/8	90	100
80	17.5	69	45	45.5	95	G1/4	110	120
100	20	69	55	55.5	114	G1/4	110	120
125	19	84.5	60	60.5	138	G1/4	140	156

Piston Ø	ØMM	P	RT	S	S2	S3	TG	VL*	WH
32	12	8	M6	6	19.5	20	32.5	56	22
40	16	8	M6	6	22.5	20	38	70	30
50	20	12	M8	8	29	24	46.5	90	37
63	20	12	M8	8	29	24	56.5	90	37
80	25	16	M10	12	37	32	72	110	46
100	25	16	M10	12	39	32	89	110	51
125	32	20	M12	20	51.5	45	110	140	65

* The dimension VL is the required piston rod extension for the cylinder.