

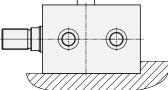
- Stroke reduction by distance bushing
  - Keyway at the broad side of the body to support the body.
  - Internal thread to fix the body at the bottom or front side (instead of longitudinal holes)

3 1.54

# Piston rod with external thread double acting, max. operating pressure 500 bar

**Fixing possibilities** 

# Broad side with 2 cross holes



Cylinders must be backed up for operating pressures exceeding 160 bar.

 $\oplus$ 

# Rod side with 4 longitudinal holes

Œ

# Application

Double-acting block cylinders can be used universally for all hydraulic-operated linear movements.

#### Functioning

The double-acting functioning allows a high function safety as well as exactly calculable and repeatable stroke times.

## Description

Double-acting block cylinder whose piston rod is provided with an external thread. Fixing elements as for example rod end bearings, which are available as accessory, can be screwed onto the external thread (see data sheet G 3.810).

#### Material

Cylinder body:high alloy steel, black oxidePiston:casehardening steel, nitratedSealings:NBR or FKM

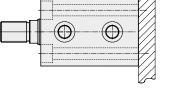
#### Maximum operating temperature

- With NBR seals: 100°C
- With FKM seals: 150°C

#### Important notes

Fixing elements have to be torqued firmly against the piston rod shoulder and then locked with the piston rod.

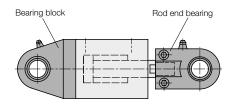
Tolerances, further operating conditions, and other data see data sheet A 0.100.



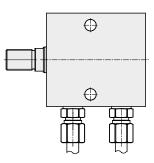
#### Accessory - Spherical bearing

As accessories the following spherical bearings can be delivered (see data sheet G 3.810). A bearing block, which is fixed at the cylinder bottom with socket head cap screws.

A rod end bearing, which is screwed onto the external thread of the piston rod and then locked with the piston rod.

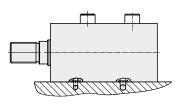


#### Hydraulic connecting possibilities Pipe thread

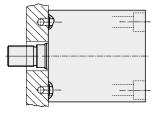


Manifold mounting versions with O-ring sealing

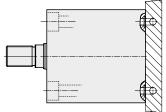
# Broad side with 4 cross holes Version L



#### • Rod side with 4 longitudinal holes Version S



# Bottom side with 4 longitudinal holes Version B





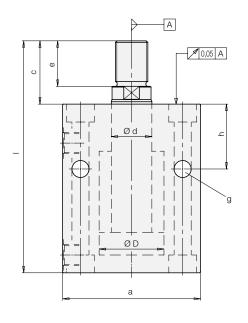


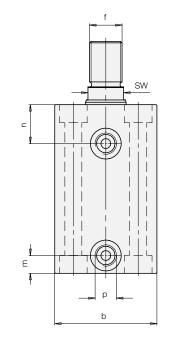
**Block Cylinders** 

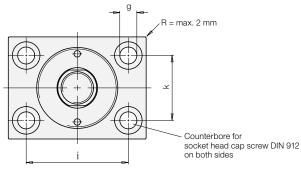


## Dimensions

## Pipe thread





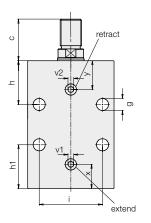


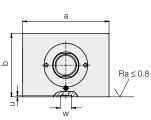


# Manifold mounting versions with O-ring sealing Version S

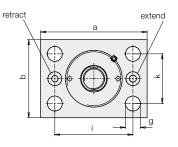
**Version L** 

Broad side with 4 cross holes



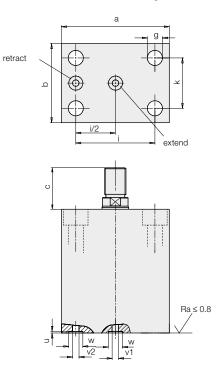


v2 TX Ra ≤ 0.8



Version **B** 

Bottom side with 4 longitudinal holes

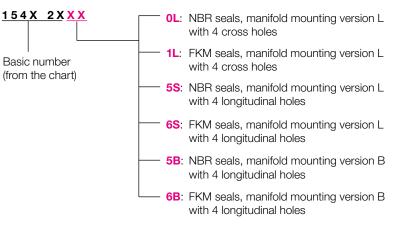


# Technical data Dimensions

Piston Ø D		[mm]	25	32	40	50	63
Rod Ø d		[mm]	16	20	25	32	40
Stroke ±1		[mm]	50	50	50	50	63
<b>F</b>	100 bar	[kN]	4.9	8.0	12.6	19.5	31.2
Force to push at	500 bar	[kN]	24.5	40.2	62.8	98.5	155.9
	100 bar	[kN]	2.9	4.9	7.7	11.6	18.6
Force to pull at	500 bar	[kN]	14.5	24.5	38.3	57.9	93
Oil volume per	Stroke to extend	[cm <sup>3</sup> ]	4.91	8.05	12.56	19.63	31.17
10 mm stroke	Stroke to retract	[cm <sup>3</sup> ]	2.9	4.9	7.66	11.59	18.61
а		[mm]	65	75	85	100	125
b		[mm]	45	55	63	75	95
С		[mm]	26	33	39	47	63
е		[mm]	18	22	28	36	45
f		[mm]	M 14x1.5	M 16x1.5	M 20x1.5	M 27x2	M 33x2
g		[mm]	8.5	10.5	10.5	13	17
h		[mm]	33	38	40	44	50
h1		[mm]	26	27	27	30	41
i		[mm]	50	55	63	76	95
k		[mm]	30	35	40	45	65
		[mm]	120	133	143	162	198
m		[mm]	11	11	11	13	17
n		[mm]	18	22	24	27	26
р			G 1/4	G 1/4	G 1/4	G 1/4	G 1/2
SW		[mm]	13	17	22	27	36
Weight		[kg]	2.0	2.8	3.7	5.4	8.2
u ± 0.05		[mm]	1.1	1.1	1.1	1.1	1.5
v1 extend		[mm]	4	5	6	6	8
v2 retract		[mm]	4	4.5	4.5	6	6
w + 0.2		[mm]	9.8	9.8	9.8	10.8	13.8
Х		[mm]	7.5	10	10	13	16
У		[mm]	21	25	27	29.5	32
Dimensions O-ring	9	[mm]	7 x 1.5	7 x 1.5	7 x 1.5	8 x 1.5	10 x 2
Daut numbers for usersigns with size thread							
Part numbers for versions with pipe thread with NBR seals			1543265	1544265	1545265	1546265	1547 275
with FKM seals			1543265	1544266	1545266	1546265	1547 275
			1343200	1344200	1545200	1040200	104/2/0
Part-numbers for manifold mounting versions with O-ring sealing							
Basic number	154426XX	154526 <mark>XX</mark>	154626XX	1547 27 XX			
Part no. O-ring (	NBR)*		154326XX 3000342	3000342	3000342	3000343	3000347
Part no. O-ring (			3001077	3001077	3001077	3000275	3001078

\* Included in our delivery

#### Code for part numbers for sealing material and manifold mounting versions



#### Example of ordering:

Double-acting block cylinder with piston rod diameter 50 mm, with oil supply at the broad side (manifold mounting version L) and FKM seals: **Part number: 1546261L** 

Accessories: Spherical bearings see data sheet G 3.810.