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Issue 11-21 E



Application

movements

Functioning

Description

sheet G 3.810).

Material

Piston:

Sealings:

repeatable stroke times.



Block Cylinders

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



Double-acting block cylinders can be used

universally for all hydraulic-operated linear

The double-acting functioning allows a high function safety as well as exactly calculable and

Double-acting block cylinder whose piston rod

Fixing elements as for example rod end bearings, which are available as accessory, can be screwed onto the external thread (see data

Cylinder body: high alloy steel, black oxide

NBR or FKM

Fixing elements have to be torgued firmly against the piston rod shoulder and then locked

Tolerances, further operating conditions, and

other data see data sheet A 0.100.

Maximum operating temperature

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

Important notes

with the piston rod.

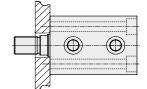
casehardening steel, nitrated

is provided with an external thread.

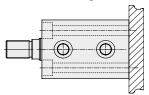
Fixing possibilities

Cylinders must be backed up for operating pressures exceeding 100 bar.

Rod side with 4 longitudinal holes



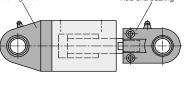
Bottom side with 4 longitudinal holes



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

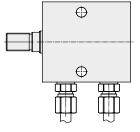
locked with the piston rod. Bearing block Rod end bearing



Available variants

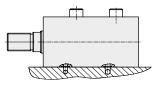
- Stroke reduction by distance bushing
- Keyway at the broad side of the body to support the body.
- Internal thread to fix the body at the bottom or front side (instead of longitudinal holes)

Hydraulic connecting possibilities Pipe thread

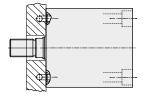


Manifold mounting versions with O-ring sealing

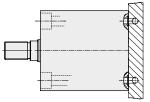
 Broad side with 4 cross holes Version L



• Rod side with 4 longitudinal holes Version S



 Bottom side with 4 longitudinal holes Version B



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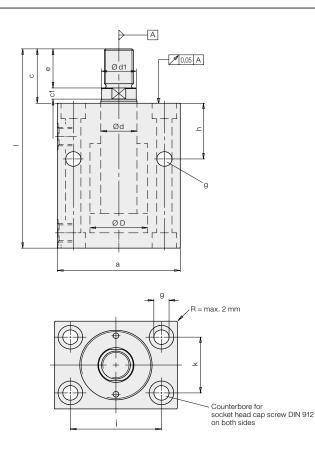
Broad side with 2 cross holes

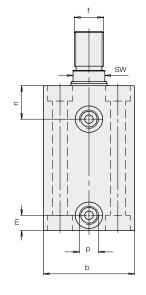
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Pipe thread

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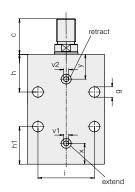
Dimensions

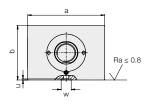




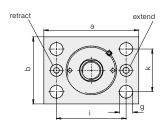
Manifold mounting versions with O-ring sealing

Version L Broad side with 4 cross holes

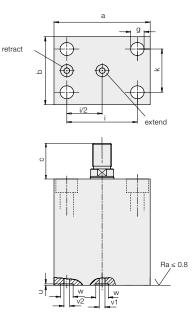




Version S Rod side with 4 longitudinal holes



Version B Bottom side with 4 longitudinal holes



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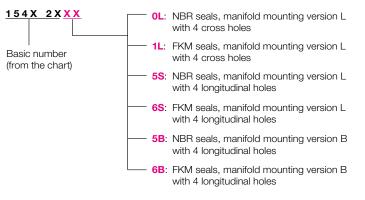
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	Technical data Dimensions								
Piston Ø D		[mm]	25	32	40	50	63		
Rod Ø d		[mm]	16	20	25	32	40		
Stroke ±1		[mm]	50	50	50	50	63		
Force to push at	100 bar	[kN]	4.9	8.0	12.6	19.5	31.2		
TOICE to push at	500 bar	[kN]	24.5	40.2	62.8	98.5	155.9		
Force to pull at	100 bar	[kN]	2.9	4.9	7.7	11.6	18.6		
	500 bar	[kN]	14.5	24.5	38.3	57.9	93		
Oil volume per	Stroke to extend	[cm ³]	4.91	8.05	12.56	19.63	31.17		
10 mm stroke	Stroke to retract	[cm ³]	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		
Ø d1 x c1		[mm]	15x5.6	19x7.8	24x8.1	30.5x8.4	38.7x14.2		
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		
I		[mm]	120	133	143	162	198		
m		[mm]	11	11	11	13	17		
n		[mm]	18	22	24	27	26		
p		r 1	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 7.5	9.8	9.8	10.8 13	13.8		
X		[mm]	7.5 21	10 25	10 27	29.5	16		
y Diananainana Orrigan		[mm]					32		
Dimensions O-ring		[mm]	7 x 1.5	7 x 1.5	7 x 1.5	8 x 1.5	10 x 2		
Part numbers for with NBR seals	r versions with pip	e thread	1543265	1544265	1545265	1546265	1547 275		
With Hon Seals			1543266	1544266	1545266	1546266	1547 275		

Basic number	154326XX	154426XX	154526 <mark>XX</mark>	154626 <mark>XX</mark>	154727XX
Part no. O-ring (NBR)*	3000342	3000342	3000342	3000343	3000347
Part no. O-ring (FKM)*	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.

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