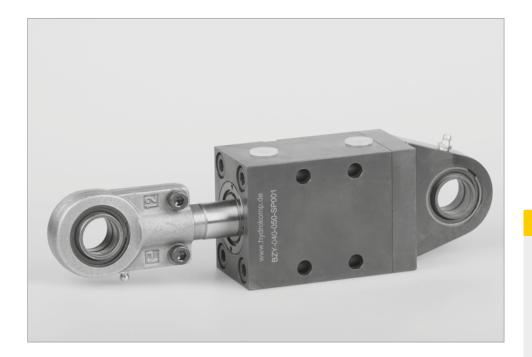
piston with outer thread, double-acting, pmax. 500 bar



The image shows a block cylinder with external threaded piston together with accessories joint head and bearing support. The bearing support is supplied with 4 cylinder head screws and mounted to the cylinder through bleeder bores.

# **Description:**

Where linear movements are hydraulically created and exact strokes are essential, this doubleacting block cylinder is ideal for application.

Block cylinders are typically used in plant engineering, moldmaking, general mechanical engineering, fixture construction and toolmaking.

The compact cubic design and the transverse groove make assembly easy and guarantee service under high operating pressure.

HYDROKOMP offers various versions of oil supply.

Apart from the double sealing at the rod diameter, block cylinders are equipped with an additional metal wiper.

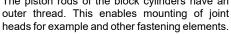
The metal wiper prevents ingress of metallic filings into the soft wiper and ensures continuous

The piston rods of the block cylinders have an outer thread. This enables mounting of joint

### For more information see page 4.

As standard, HYDROKOMP offers the block cylinder in five sizes. Special designs and other strokes are available.

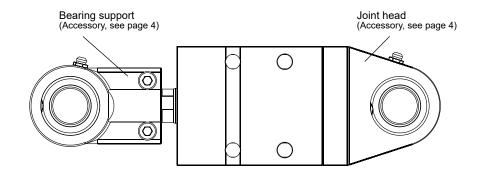
# operation with little leakage.



## Advantages:

- Continuous operation with little leakage
- Allows exact strokes
- Outer thread for accessories
- Metal wiper as standard
- Ouble hydraulic sealing

# Mounting example:





Webcode: 020005



# Designs:

- X Threaded port
- Manifold connection with O-ring
- Bleeder bores
- Transverse bores

# Sealing:

- NBR, Operating temperature: -10° up to +80°C
- KM, Operating temperature: up to max. 150°C

- 4 mounting options

We also design and manufacture customized variants!





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sales@hydrokomp.de



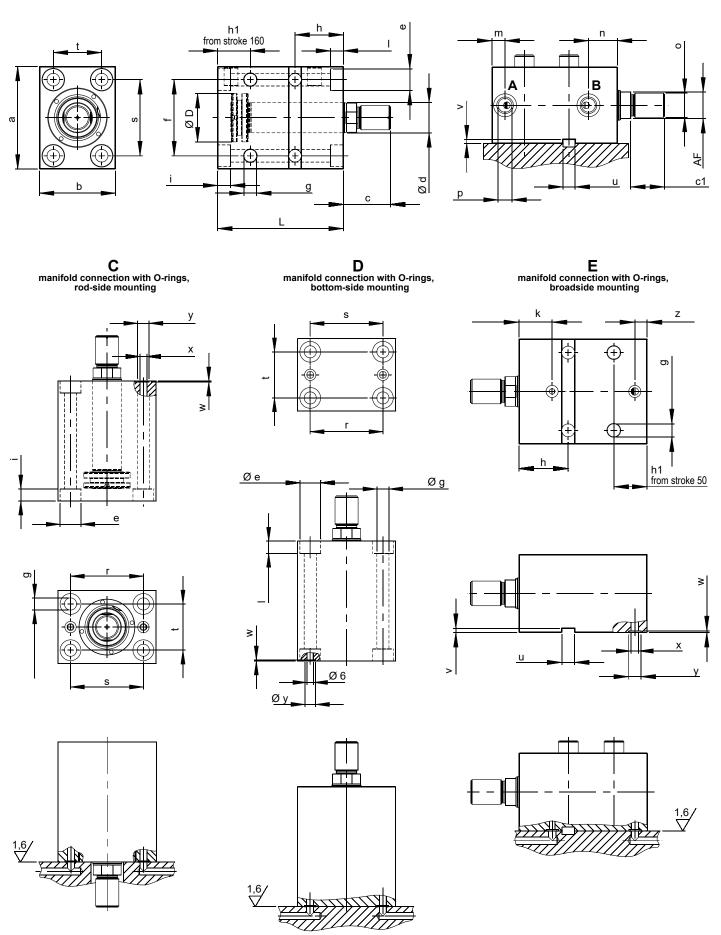
Siemenstr. 16 35325 Mücke (Germany)



www.hydrokomp.de



# A threaded port, bleeder bores and transverse bores





# Block cylinders, piston with outer thread / Designs

Order numbers:						
D Piston Ø <sup>(1)</sup>	[mm]	25	32	40	50	63
d Rod Ø	[mm]	16	20	25	32	40
Stroke <sup>(2)</sup> ±1	[mm]	50	50	50	50	63
Pressure force at 100 bar	[kN]	4,9	8,0	12,6	19,6	31,2
Tension force at 100 bar	[kN]	2,9	4,9	7,7	11,6	18,6
Oil regu./10 mm supply	[cm³]	4,9	8,0	12,6	19,6	31,0
Oil requ./10 mm return flow	[cm <sup>3</sup> ]	2,9	4,9	7,7	11,6	18,6
a	[mm]	65	75	85	100	125
5	[mm]	45	55	63	75	95
0	[mm]	26	33	39	47	63
c1	[mm]	18	22	28	36	45
Ø e	[mm]	14	18	18	20	26
f	[mm]	50	55	63	76	95
Øg		8,5	10,5	10,5	13	17
	[mm]	33	38	40	44	50
1	[mm]					
h1 :	[mm]	26	27	27	30	41
i.	[mm]	6,4	7,6	10,6	12,6	16,6
k	[mm]	21	25	27	29,5	32
	[mm]	8,6	10,6	10,6	12,6	16,6
L	[mm]	94	100	104	115	135
m	[mm]	11	11	11	13	17
n	[mm]	18	22	24	27	26
0		M14x1,5	M16x1,5	M20x1,5	M27x2	M33x2
р		G1/4	G1/4	G1/4	G1/4	G1/2
r	[mm]	50	55	63	76	95
S	[mm]	50	55	63	76	95
AF	[mm]	13	17	22	27	36
t	[mm]	30	35	40	45	65
u	[mm]	10	12	12	15	20
V	[mm]	2	3	3	5	5
w	[mm]	1,1	1,1	1,1	1,1	1,5
 Ø x	[mm]	4	5	6	6	8
Ø y	[mm]	9,8	9,8	9,8	10,8	13,8
z Z	[mm]	7,5	10	10	13	16
Design A (threaded port, bl				10	10	10
Sealing:	eeder bore	s and transverse i	J0163)			
NBR	BZY	025-050-AP-G001	032-050-AP-G001	040-050-AP-G001	050-050-AP-G001	063-063-AP-G001
FKM	BZY	025-050-AV-G001	032-050-AV-G001	040-050-AV-G001	050-050-AV-G001	063-063-AV-G001
Design C (manifold connec				040-030-AV-G001	030-030-AV-G001	003-003-AV-G001
Sealing:	tion with C	7-migs, rou-side m	ounting)			
NBR	BZY	025-050-CP-G001	022 0E0 CD C004	040 0E0 CD C004	0E0 0E0 CD C004	062 062 CD C004
FKM	BZY	025-050-CP-G001 025-050-CV-G001	032-050-CP-G001 032-050-CV-G001	040-050-CP-G001 040-050-CV-G001	050-050-CP-G001 050-050-CV-G001	063-063-CP-G001 063-063-CV-G001
				040-050-CV-G001	050-050-CV-G001	063-063-CV-G001
Design D (manifold connec	ction with C	o-rings, bottom-sid	e mounting)			
Sealing:	571	00E 0E0 DD 000	000 050 DD 000	0.40 0E0 DD 000.	454 454 DD 444	000 000 DD 0004
NBR	BZY	025-050-DP-G001	032-050-DP-G001	040-050-DP-G001	050-050-DP-G001	063-063-DP-G001
FKM	BZY	025-050-DV-G001	032-050-DV-G001	040-050-DV-G001	050-050-DV-G001	063-063-DV-G001
Design E (manifold connec	tion with C	)-rings, broadside	mounting)			
Sealing:						
NBR	BZY	025-050-EP-G001	032-050-EP-G001	040-050-EP-G001	050-050-EP-G001	063-063-EP-G001
FKM	BZY	025-050-EV-G001	032-050-EV-G001	040-050-EV-G001	050-050-EV-G001	063-063-EV-G001
Accessories (see page 4)						
Bearing support		8700-006	8700-009	8700-003	8700-012	8700-015
Joint head		8700-005	8700-008	8700-002	8700-011	8700-014
		3.00.00	2.22.230		3.33.311	

<sup>&</sup>lt;sup>(1)</sup> Special piston diameters available on request.

Scope of supply includes the O-rings.

 $<sup>\,^{(2)}\!</sup>$  Special stroke lengths available on request.



# **Description:**

The piston rods of the block cylinders are equipped with an outer thread. This way also joint heads for example and other fastening elements can be mounted. For the cylinder bottom we offer a bearing support which is mounted with cylinder screws.

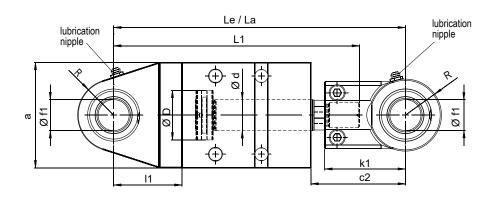
When mounting the joint head it is important to make sure that it is tightly fastened with the piston rod shoulder and jammed by screwing with the piston rod.

Lubrication nipples enable relubrication of joint head and bearing support.

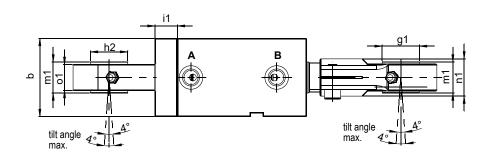
# **Bearing support:**



Joint head: (including fastening screws)







# **Technical Data:**

D Piston Ø (3)	[mm]	25	32	40	50	63
d Rod Ø	[mm]	16	20	25	32	40
Stroke <sup>(4)</sup> ±1	[mm]	50	50	50	50	63
Pressure force at 100 bar	[kN]	4,9	8,0	12,6	19,6	31,2
Tensile force at 100 bar	[kN]	2,9	4,9	7,7	11,6	18,6
Oil requirement/10 mm supply	[cm³]	4,9	8,0	12,6	19,6	31,0
Oil requirement/10 mm return flow	[cm³]	2,9	4,9	7,7	11,6	18,6
a	[mm]	65	75	85	100	125
b	[mm]	45	55	63	75	95
c2	[mm]	52	63	76	91	115
Ø f1 H7	[mm]	16	20	25	32	40
Ø g1	[mm]	20	25	30	38	46
Ø h2	[mm]	20	25	30	38	46
i1	[mm]	12	12	18	20	25
k1	[mm]	44	52	65	80	97
I1	[mm]	37	42	55	65	80
m1	[mm]	16	20	25	32	40
n1	[mm]	21	25	30	38	47
01	[mm]	13	17	21	27	32
R	[mm]	20	23,5	29	35,5	45
Length cylinder L1	[mm]	157	175	198	227	278
Length retracted Le	[mm]	183	205	235	271	330
Length extracted La	[mm]	233	255	285	321	393
Weight approx.	[kg]	2,45	3,75	5,6	7,9	11,3

<sup>(3)</sup>Special piston diameters available on request.

Order numbers on page 3.

<sup>(4)</sup>Special stroke lengths available on request.