

# Built-in piston

with threaded bushing, double-acting, pmax. 500 bar

200-4  
Issue: 10/2022

## Description:

The built-in piston consists of a piston and a threaded bushing and it includes all seals.

The built-in piston is a subassembly, which has to be integrated directly into the housing body. The housing body has the features of the cylinder housing. The advantage of this design is the minimized space requirement of the clamping or operating cylinders.

The threaded bushing is equipped as standard with a metal wiper as well as a soft wiper. The hydraulic oil is fed through drilled channels.

## Operating conditions:

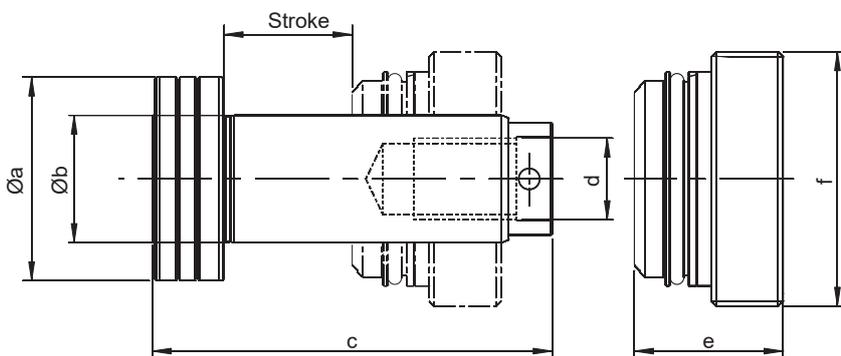
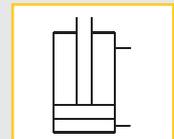
The built-in piston operates hydraulically double-acting. This enables retraction forces as well as extraction forces to be generated. Use appropriate seals according to the temperature conditions.

The dimensions for manufacturing and the tolerances for surface and dimensions must be complied according to the HYDROKOMP drawings.

After tightening the threaded bushing, it is necessary to secure it by using the supplied threaded pin. For this, a small thread must be fitted into the threaded bore of the bushing into which the threaded pin is screwed.



Webcode: 020004



The measurements chart is only for orientation the maximum dimensions. All subassemblies are available as CAD models (2D and 3D) on our website hydrokomp.de

Piston						Threaded bushing		
Øa	Øb	c	d	Stroke	Order no. <sup>(1)</sup>	e	f	Order no. <sup>(1)</sup>
[mm]	[mm]	[mm]		[mm]				
16	10	56	M6x15	16	EBK-016-016-X	22	M27x1,5	GB-016-X
		72		32	EBK-016-032-X			
		90		50	EBK-016-050-X			
20	12	57	M8x16	16	EBK-020-016-X	22	M32x1,5	GB-020-X
		73		32	EBK-020-032-X			
		91		50	EBK-020-050-X			
25	16	63	M10x17	20	EBK-025-020-X	22,5	M36x1,5	GB-025-X
		93		50	EBK-025-050-X			
		143		100	EBK-025-100-X			
32	20	74	M12x18	25	EBK-032-025-X	27	M42x1,5	GB-032-X
		99		50	EBK-032-050-X			
		149		100	EBK-032-100-X			
		209		160	EBK-032-160-X			
40	25	78	M16x27	25	EBK-040-025-X	29	M50x1,5	GB-040-X
		103		50	EBK-040-050-X			
		153		100	EBK-040-100-X			
		213		160	EBK-040-160-X			
50	32	86	M20x32	25	EBK-050-025-X	35	M62x1,5	GB-050-X
		111		50	EBK-050-050-X			
		161		100	EBK-050-100-X			
		221		160	EBK-050-160-X			
63	40	99	M27x40	30	EBK-063-030-X	35	M72x1,5	GB-063-X
		132		63	EBK-063-063-X			
		169		100	EBK-063-100-X			
		233		160	EBK-063-160-X			
80	50	109	M30x40	32	EBK-080-032-X	43	M95x2	GB-080-X
		157		80	EBK-080-080-X			
		177		100	EBK-080-100-X			
		237		160	EBK-080-160-X			
100	63	119		40	EBK-100-040-X	44	M115x2	GB-100-X
		179		100	EBK-100-100-X			
		243		160	EBK-100-160-X			

<sup>(1)</sup>Select the correct order number: replace X by sealing NBR = 001, FKM = 002.

## Sealing:

- ⊗ NBR, operating pressure: -10° up to +80°C
- ⊗ FKM, operating pressure: up to max. 150°C

## Power range:

- ⊗ from 2 kN at piston Ø 16 mm, at 100 bar operating pressure
- ⊗ from 392 kN at piston Ø 100 mm, at 500 bar operating pressure

## Stroke range:

- ⊗ from 16 mm up to 160 mm special strokes available on request

## Special features:

- ⊗ space-saving installation options
- ⊗ installation directly into the housing body
- ⊗ with soft wiper and metal wiper as standard
- ⊗ oil supply through drilled channels

We also design and manufacture customized variants!

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