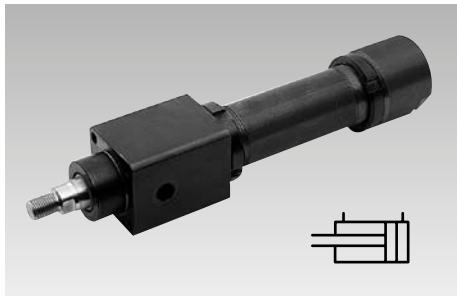




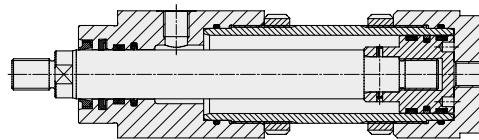
Hydro-Cylinders

without stroke end cushioning, short version,
max. operating pressure 200 bar



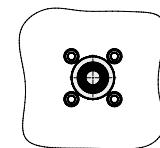
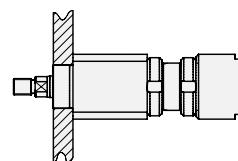
Advantages

- Compact design
- Max. piston speed 0.5 m/s
- Low wear and friction Glydring seals
- High service life due to the use of guide rings at the piston and the piston rod
- Negligible leakage by double sealing piston rod
- Piston rod induction hardened and chromium-plated
- Effective wiper seal
- Particularly suitable for fixture building by direct mounting on cylinder head (small pitch circle dia.) and accurate centring
- Connecting dimensions as per DIN ISO 6020



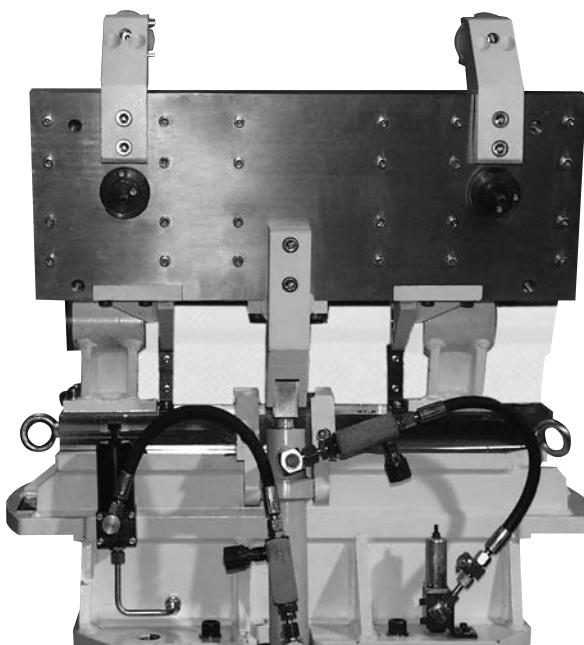
Fixing possibilities

• Basic version



Application example

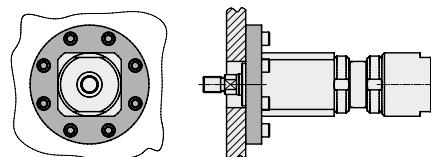
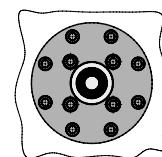
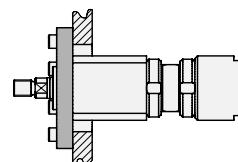
The shown hydro-cylinder is used for operation of a clamping plate in a special fixture for machining of aluminium parts.



Important note

Operating conditions, tolerances and other data see data sheet A 0.100.

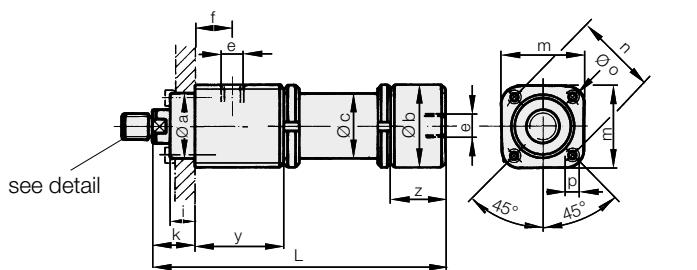
• with accessory flange



Dimensions and part-nos.

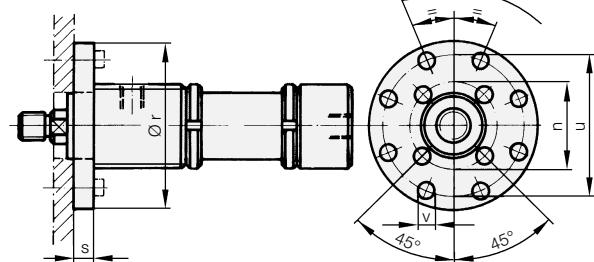
1. Basic type

Mounting on the cylinder head from the front

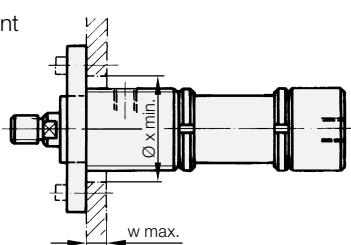


2. Flange mounting

2.1 Mounting from the rear



2.2 Mounting from the front



Special versions are available on request.

Examples for ordering:

Example 1

1 off hydro-cylinder
Ø 32/20 x 250 stroke
Text: 1 off hydro-cylinder

Part no. 1284035

Example 2

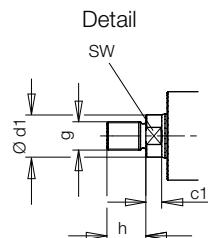
2 off hydro-cylinders
Ø 32/20 x 250 stroke
both with flange at the front

Text: 2 off hydro-cylinders

Part no. 1284035

2 off flange at the front

Part no. 1284910



Piston Ø D	[mm]	25	32	40	50	63	80
Rod Ø d	[mm]	16	20	25	32	40	50
Nominal force at 200 bar	Forward thrust	[kN]	9.8	16	25	39.2	62.3
	Pull thrust	[kN]	5.7	9.8	15.3	23.1	37.2
Piston area	[cm²]	4.9	8.04	12.56	19.63	31.17	50.26
Annulus area	[cm²]	2.89	4.9	7.65	11.59	18.6	30.6
L = stroke + Ø a f7	[mm]	88	100	119	130	150	180
Ø b	[mm]	32	40	50	60	70	85
Ø c	[mm]	48	55	65	80	95	115
Ø d1 x c1	[mm]	15x9	19x8	24x9	31x10	38.5x12	48.5x13
e		G 1/4	G 1/4	G 1/4	G 1/2	G 1/2	G 1/2
f	[mm]	20	22	30	34	40	43
g	[mm]	M 12 x 1.25	M 14 x 1.5	M 16 x 1.5	M 20 x 1.5	M 27 x 2	M 33 x 2
h	[mm]	16	18	22	28	36	45
i	[mm]	15	20	20	24	29	37
k	[mm]	28	32	32	38	45	54
m	[mm]	48	55	65	80	95	115
Ø n	[mm]	45	58	68	82	95	115
Ø o	[mm]	61	73	86	104	119	144
p x depth of thread	[mm]	M 6 x 12	M 8 x 15	M 8 x 15	M 10 x 20	M 12 x 20	M 16 x 28
Ø r	[mm]	90	110	125	150	170	200
s	[mm]	12	16	16	20	25	32
Ø u	[mm]	75	92	106	126	145	165
Ø v	[mm]	7	9	9	11	14	18
w max.	[mm]	9	11	15	18	21	24
Ø x min.	[mm]	62	74	87	105	120	145
y	[mm]	55	61	75	81	93	103
z	[mm]	39	44	46	49	54	60
SW	[mm]	13	17	22	27	36	46
Part no. Cylinder		12830X5	12840X5	12850X5	12860X5	12870X5	12880X5

Stroke
[mm]

Stroke code number
128X0X5

Admissible operating pressure [bar] at safety against buckling of s = 3.5

100	0	200	200	200	200	200
160	1	200	200	200	200	200
200	2	200	200	200	200	200
250	3	200	200	200	200	200
320	4	200	200	200	200	200
400	5	200	200	200	200	200
500	6	200	200	200	200	200
630	7	160	200	200	200	200
800	8	100	160	200	200	200
1000	9	63	100	160	200	200
Part no. Flange		1283910	1284910	1285910	1286910	1287910
						1288910

Intermediate strokes available