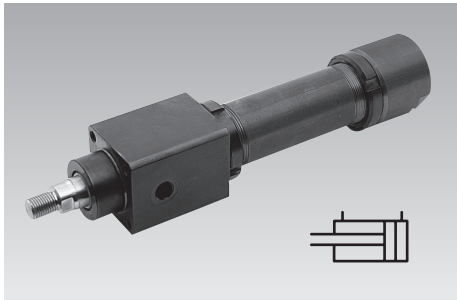




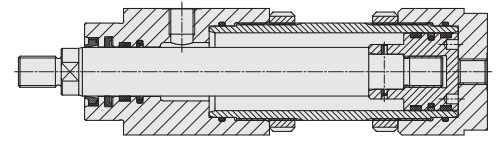
## Hydro-Cylinders

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



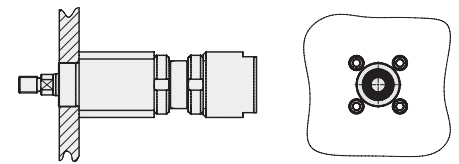
### Advantages

- 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 on 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 type



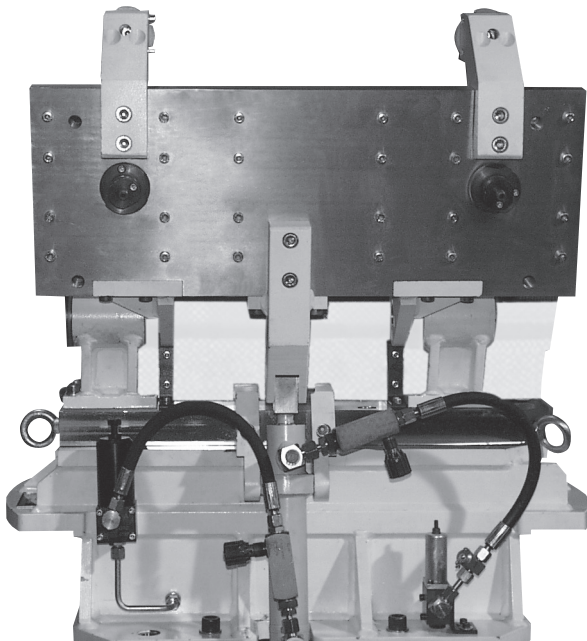
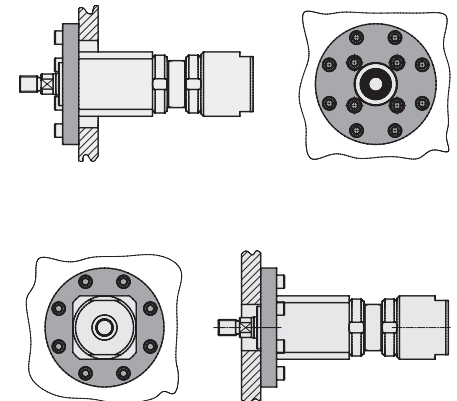
### Application example

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.

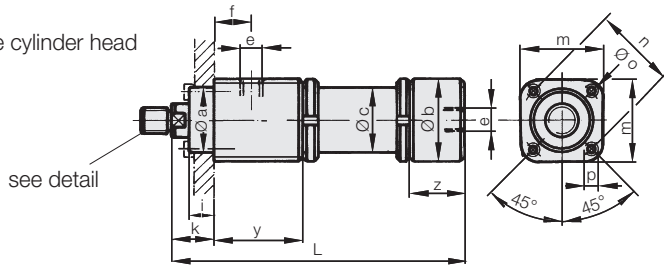
#### • with accessory flange





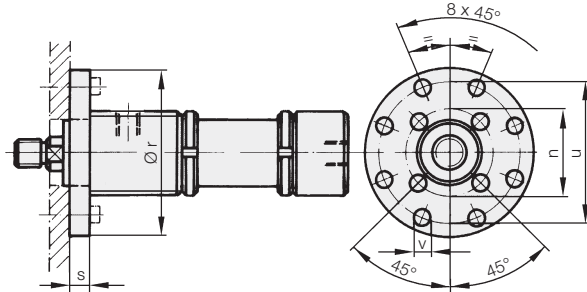
**1. Basic type**

Mounting on the cylinder head from the front

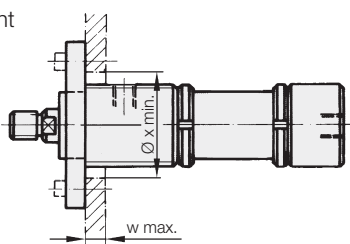


**2. Flange mounting**

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 32/20x250 stroke  
Text: 1 off hydro-cylinder

**Part no. 1284035**

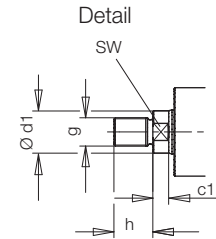
**Example 2**

2 off hydro-cylinder  
Ø 32/20x250 stroke  
both with flange at front  
Text: 2 off hydro-cylinder

**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	Forward thrust [kN]	9.8	16	25	39.2	62.3	100.5
	Pull thrust [kN]	5.7	9.8	15.3	23.1	37.2	61.2
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 +	[mm]	88	100	119	130	150	180
Ø a f7	[mm]	32	40	50	60	70	85
Ø b	[mm]	48	55	65	80	95	115
Ø c	[mm]	35	42	50	60	75	95
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
<b>Part no. Cylinder</b>		see page 3					

Stroke [mm]	Admissible operating pressure [bar] at safety against buckling of s 3.5						
100	200	200	200	200	200	200	200
160	200	200	200	200	200	200	200
200	200	200	200	200	200	200	200
250	200	200	200	200	200	200	200
320	200	200	200	200	200	200	200
400	200	200	200	200	200	200	200
500	200	200	200	200	200	200	200
630	160	200	200	200	200	200	200
800	100	160	200	200	200	200	200
1000	63	100	160	200	200	200	200



**Part numbers Hydro-cylinders**

<b>Piston Ø D</b>	[mm]	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>	<b>63</b>	<b>80</b>
<b>Rod Ø d</b>	[mm]	<b>16</b>	<b>20</b>	<b>25</b>	<b>32</b>	<b>40</b>	<b>50</b>
Stroke [mm]							
100		<b>1283005</b>	<b>1284005</b>	<b>1285005</b>	<b>1286005</b>	<b>1287005</b>	<b>1288005</b>
160		<b>1283015</b>	<b>1284015</b>	<b>1285015</b>	<b>1286015</b>	<b>1287015</b>	<b>1288015</b>
200		<b>1283025</b>	<b>1284025</b>	<b>1285025</b>	<b>1286025</b>	<b>1287025</b>	<b>1288025</b>
250		<b>1283035</b>	<b>1284035</b>	<b>1285035</b>	<b>1286035</b>	<b>1287035</b>	<b>1288035</b>
320		<b>1283045</b>	<b>1284045</b>	<b>1285045</b>	<b>1286045</b>	<b>1287045</b>	<b>1288045</b>
400		<b>1283055</b>	<b>1284055</b>	<b>1285055</b>	<b>1286055</b>	<b>1287055</b>	<b>1288055</b>
500		<b>1283065</b>	<b>1284065</b>	<b>1285065</b>	<b>1286065</b>	<b>1287065</b>	<b>1288065</b>
630		<b>1283075</b>	<b>1284075</b>	<b>1285075</b>	<b>1286075</b>	<b>1287075</b>	<b>1288075</b>
800		<b>1283085</b>	<b>1284085</b>	<b>1285085</b>	<b>1286085</b>	<b>1287085</b>	<b>1288085</b>
1000		<b>1283095</b>	<b>1284095</b>	<b>1285095</b>	<b>1286095</b>	<b>1287095</b>	<b>1288095</b>
<b>Part no. Flange</b>		<b>1283910</b>	<b>1284910</b>	<b>1285910</b>	<b>1286910</b>	<b>1287910</b>	<b>1288910</b>

**Article available on request**

On request, we will check whether the article is still available.