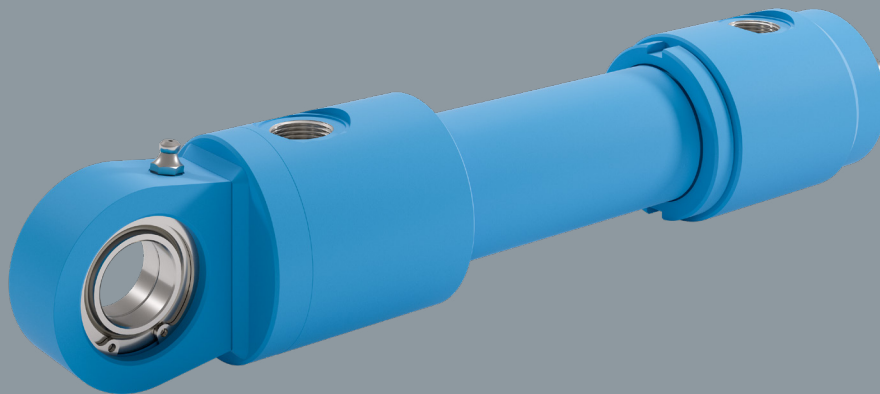


CNL

HYDRAULIC CYLINDER



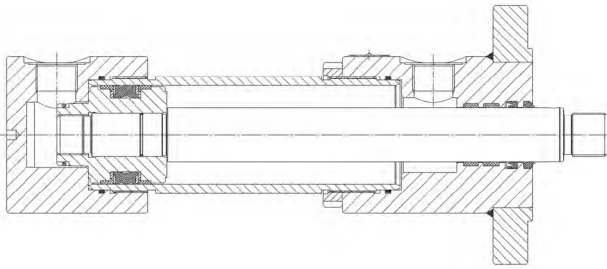
KRACHT®
FLUID TECHNOLOGY AND SYSTEMS

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General

Construction (Standard versions)



Description

- Piston: Ø 40 ... 160 mm
- Modern seals and guide elements
- Simple replacement of wear parts through rugged screw system
- Subsequent retrofitting and upgrades are possible through the modular system
- Rod thread, non-toleranced dimensions, and the position and size of the ports can be adapted according to customer requirements

Available with:

- Adjustable stroke-end damping
- Electronic proximity switches for end-of-stroke signals
- Electronic stroke measuring system available on application
- Water cooling for applications in high ambient temperatures
- Other versions available on request

Hydraulic cylinders of the CNL series feature a fully bolted design. Cylinder heads and base consist of S355.

For the cylinder tubes, seamless precision steel tubes, in accordance with DIN 2391, are used and a high-strength steel is used for the milled, polished and hard-chromium-plated piston rods. The piston and piston rod are sealed with compact seals. According to service conditions, the cylinder can be equipped completely with FKM seals.

Venting is normally carried out through the hydraulic ports. Vent screws in the cylinder head and base are available on request. In case of cylinders with end-position cushioning the venting is fitted as standard. All cylinder sizes can also be equipped with an adjustable end-position cushioning at both ends, when the operation conditions require it.

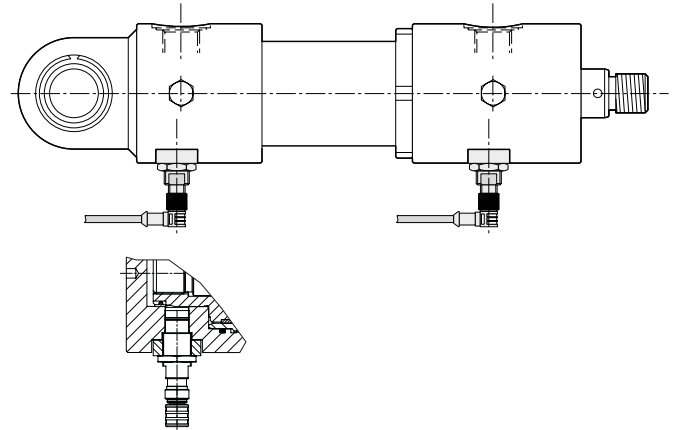
CNL hydraulic cylinders are available with the following features: Double-acting with the piston rod on one side (the so called differential cylinder), or with piston rods on both sides.

If the piston rod returns, under the action of external forces, e. g. due to its own weight, or return springpressure, the differential cylinder can also be used as a single-acting push or pull cylinder, or as a plunger cylinder, i. e. compression cylinder with through-bored piston.

With installation of the cylinders, it is to be ensured that no radial forces act on the piston rod. Deformations lead to the destruction of the cylinder within a short time.

For the mounting of the cylinders, bolts of the Quality Class 8.8 or 10.9 are to be used.

Construction (Versions with limit switches)



Description

Electronic limit switches are employed instead of mechanical limit switches if reliable and exact end-position signals make this necessary.

The signals are suitable for the activation of all commercially available PLC systems, as well as relays.

Characteristics

- Reliable end-position signal output
- Resistant against extreme environmental stresses
- Suitable for connection to PC controls
- Integrated short-circuit protection
- Non-contact switching, meaning there are no wearing parts in the switching system

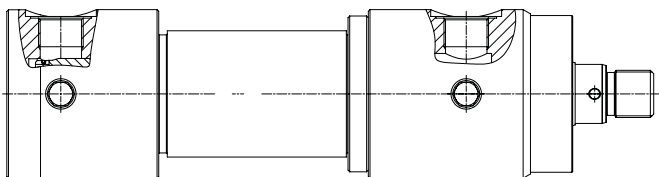
Note

Detailed descriptions of the limit switches are available on request.

Types of mounting

Overview

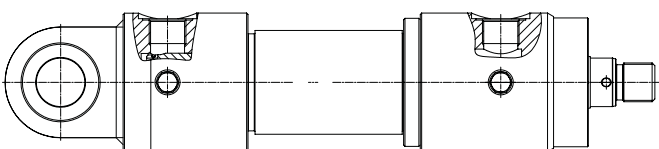
00 – Without mounting



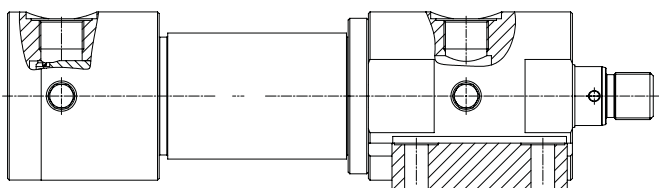
01 – Pivot lug with joint bearing



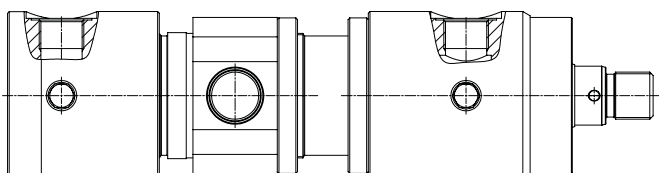
02 – Pivot lug with socket



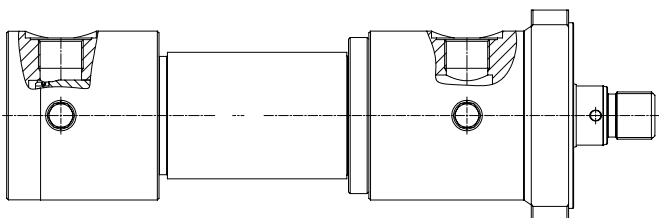
03 – Foot mounting at the head



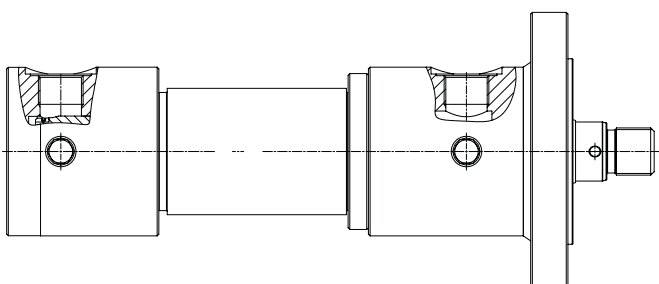
04 – Pivoting pins at the cylinder tube



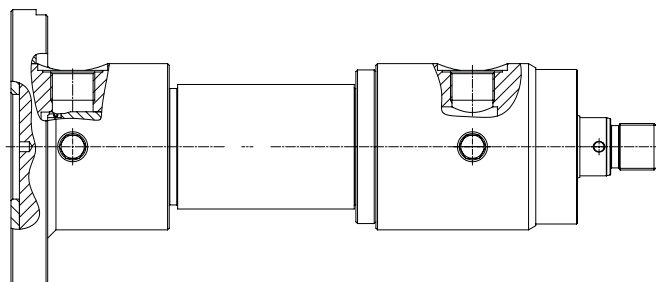
05 – Square flange at the head



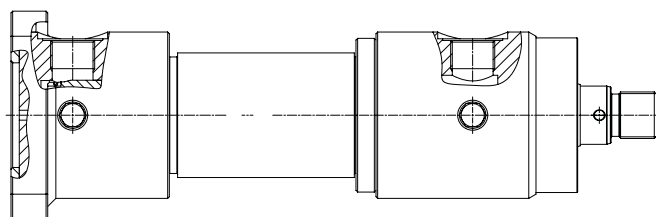
06 – Round flange at the head



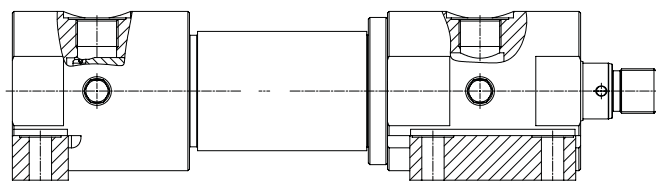
07 – Round flange at the base



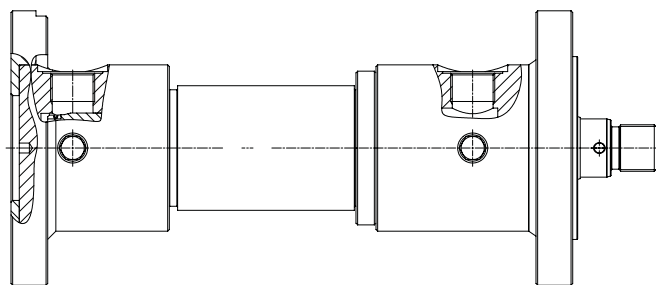
08 – Square flange at the base



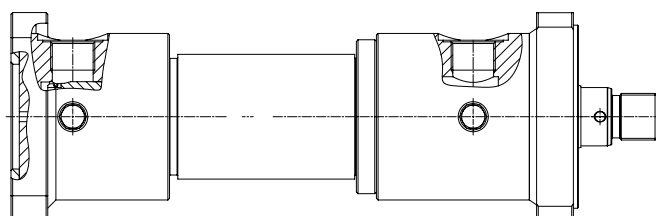
09 – Foot mounting at the head and the base



10 – Round flange at the head and the base



11 – Square flange at the head and the base



Technical data

General characteristics

Type	Piston rod cylinder – threaded version	
Hydraulic connections	Whitworth pipe thread in accordance with DIN 2353	
Mounting position	Any	
Stroke length		
CNL 40, 50	max.	3000 mm
CNL 63 ... 160	max.	4000 mm
Permissible stroke speed	0 ... 0.5 m/s for seal type: Compact seal 0 ... 0.8 m/s for seal type: O-ring-supported PTFE seal	
Stroke increment	1 mm	
Pressure medium	Mineral oil in accordance with DIN 51524 / 25 Low-inflammable hydraulic fluids on request	

Hydraulic characteristics

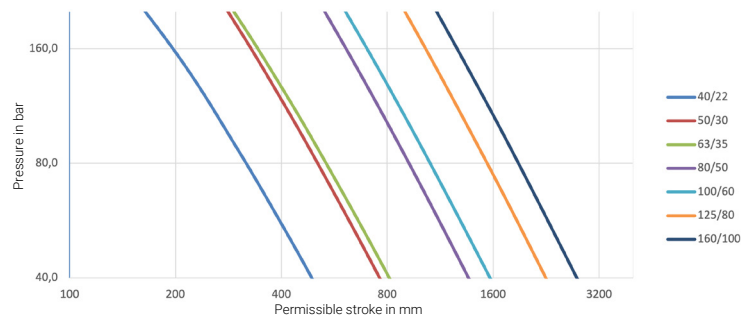
Nominal pressure	200 bar
Working pressure piston side	0 ... 200 bar
Working pressure rod side	0 ... 200 bar
Ambient temperature with standard seals	-20 ... 80 °C
Ambient temperature with FKM seals	-20 ... 180 °C
Pressure medium temperature with standard seals	-20 ... 80 °C
Pressure medium temperature with FKM seals	-20 ... 180 °C
Viscosity range	2.8 ... 380 mm ² /s

Other hydraulic parameters available on request

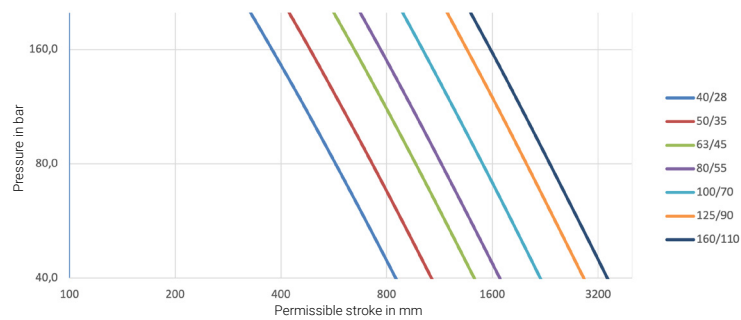
Technical data

Pressure-stroke characteristic curves

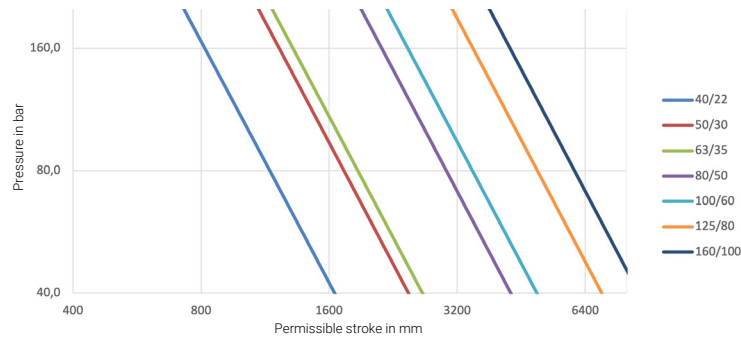
Mounting types pivot lug 01 / 02 – standard piston rod



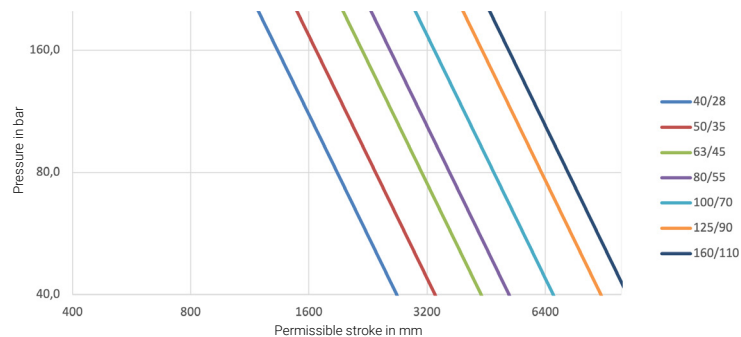
Mounting types pivot lug 01 / 02 – reinforced piston rod



Mounting types flanges 03 / 05 / 06 / 07 / 08 / 09 / 10 / 11 – standard piston rod



Mounting types flanges 03 / 05 / 06 / 07 / 08 / 09 / 10 / 11 – reinforced piston rod

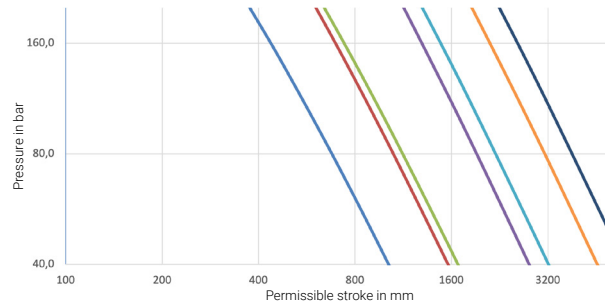


Technical data

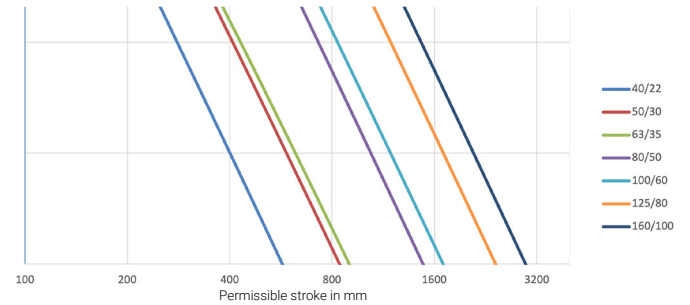
Pressure-stroke characteristic curves

Mounting type pivot lug 04 – standard piston rod

Dimension K_{min}

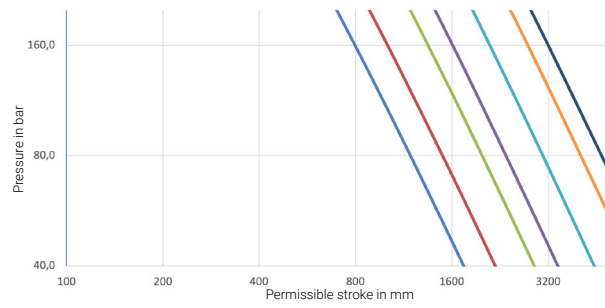


Dimension K_{max}

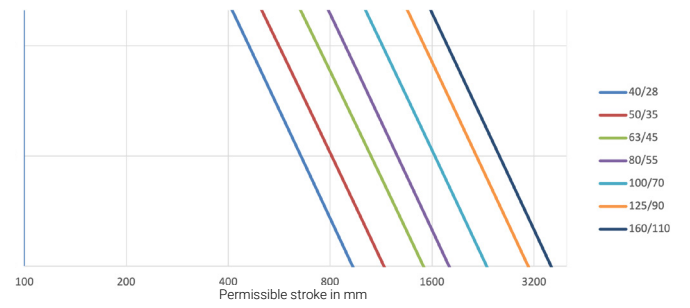


Mounting type pivot lug 04 – reinforced piston rod

Dimension K_{min}



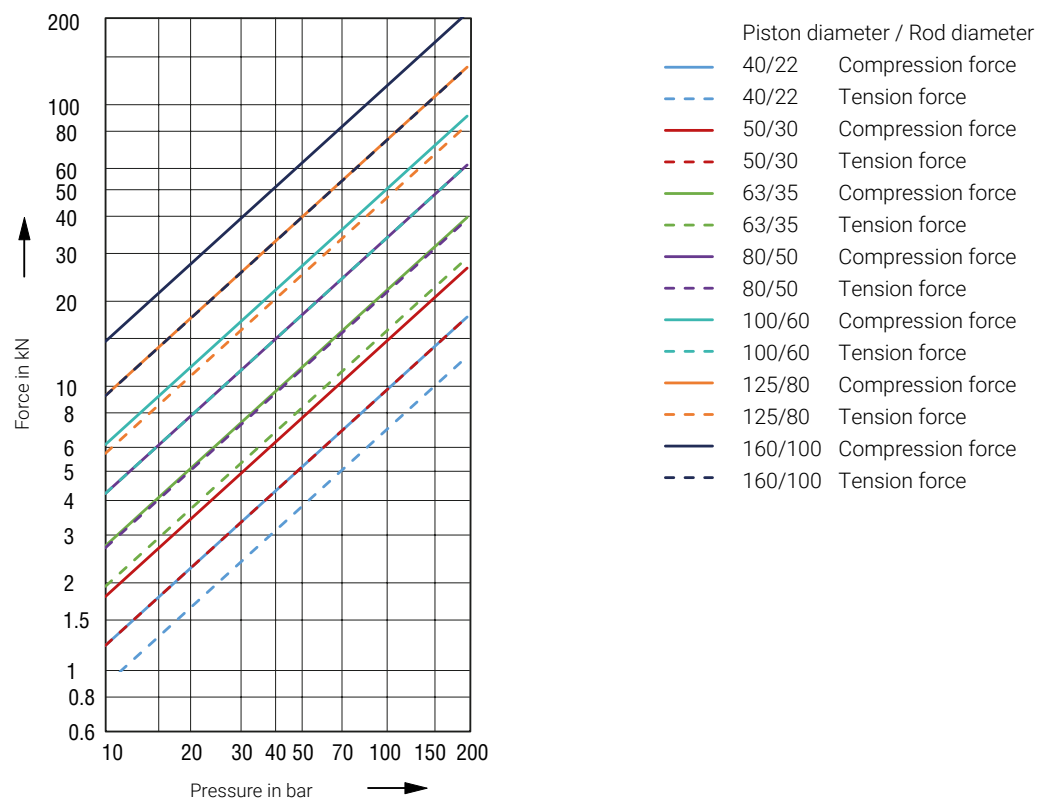
Dimension K_{max}



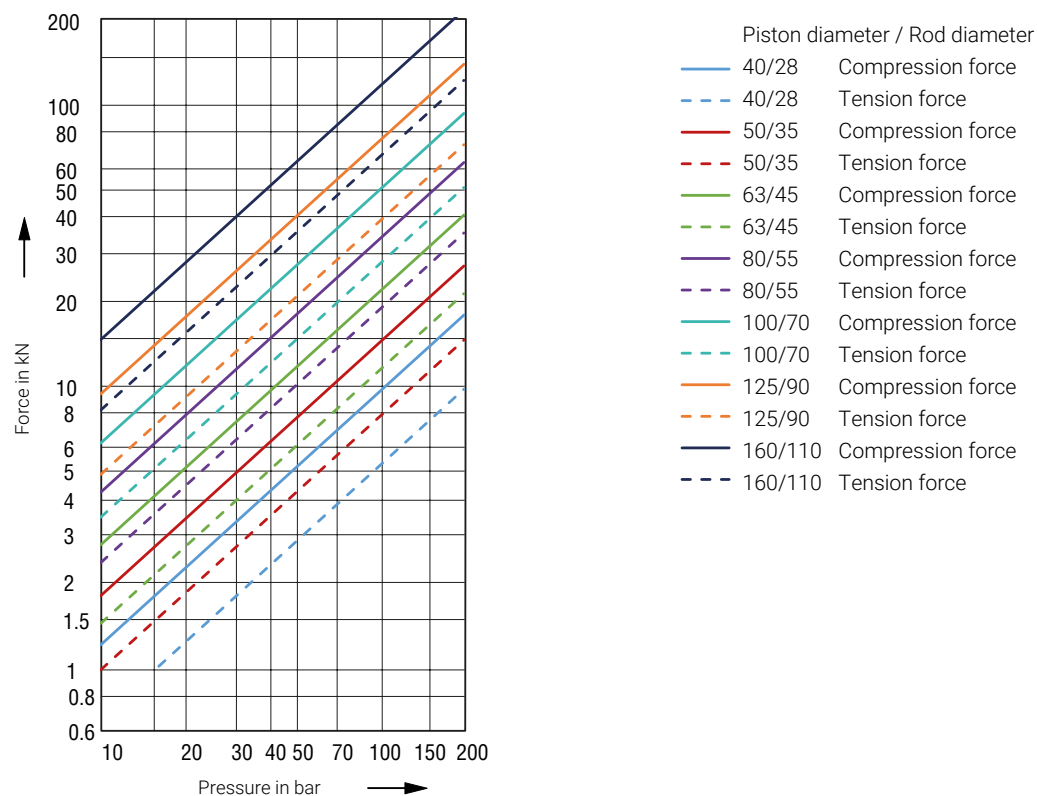
Technical data

Compression force / tension force curves (common combinations)

Normal piston rod



Reinforced piston rod



Type key

CNL - **01** - **0** - **D** - **2** - **63** / **45** - **D** - **L** - **K** - **N** - **X** - **X** - **250** - **0** - **0**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 Product	
CNL	Rod-type cylinder

2 Mounting types	
00	Without mounting
01	Pivot lug with joint bearing
02	Pivot lug with socket
03	Foot mounting at the head
04	Pivoting pins at the cylinder tube
05	Square flange at the head
06	Round flange at the head
07	Round flange at the base
08	Square flange at the base
09	Foot mounting at the head and the base
10	Round flange at the head and the base
11	Square flange at the head and the base

3 K dimension	
0	Without
K ...	K dimension in mm for pivot pins on the cylinder tube only (see drawing on page 14)

4 Functional types	
D	Differential cylinder
G	Synchronous cylinder
P	Plunger cylinder

5 Types of actuation	
1	Single-acting
2	Double-acting

6 Piston diameters (in mm)	
40 · 50 · 63 · 80 · 100 · 125 · 160	

7 Piston rod diameters (in mm)	
22 · 28 · 30 · 35 · 45 · 50 · 55 · 60 · 70 · 80 · 90 · 100 · 110	

8 Damping	
D	With damping
X	Without damping

9 Venting	
L	With venting
X	Without venting

10 Types of seal	
K	Compact seal
G	O-ring-supported PTFE seal

11 Sealing materials	
N	NBR
F	FKM

12 Displacement measurement system	
W	With displacement measurement system
X	Without displacement measurement system

13 Limit switches	
1	Limit switches at the cylinder head and base
2	Limit switch at the head
3	Limit switch at the base
4	Preparation for limit switches
X	Without

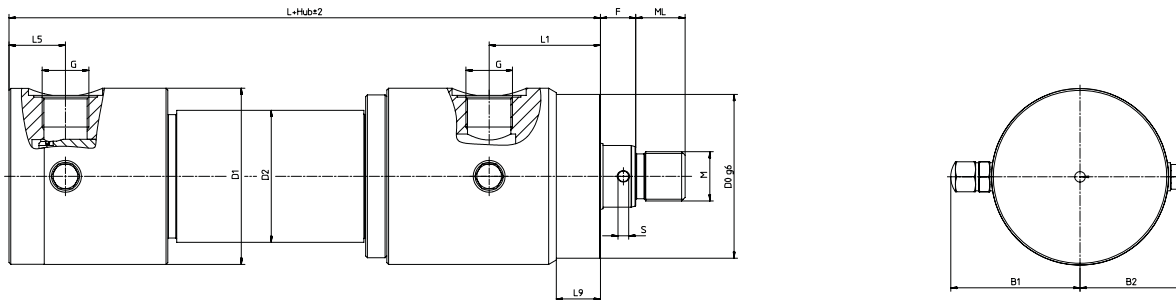
14 Stroke	
... 4000	Stroke in whole millimetres Stroke _{min} (Pivot pin on the tube) = 90 mm Stroke _{min} (Apart from the pivot pin on the tube) = 40 mm

15 Free size	
0	Standard
S	Non-standard size

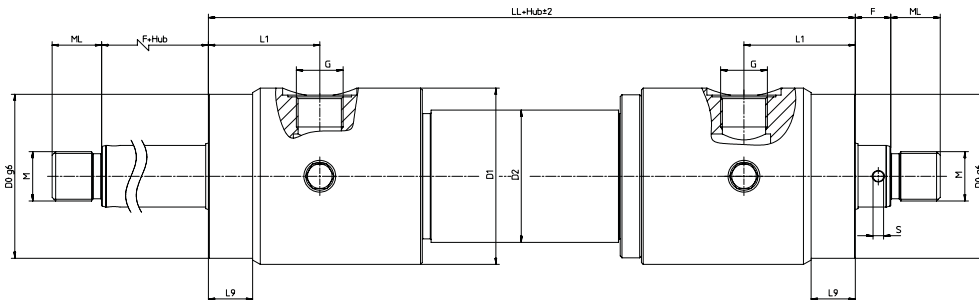
16 Piston rod thread	
0	Standard
S	Special design

Dimensions

Mounting type 00 – Without mounting



Mounting type 00 – Without mounting (Synchronous cylinder)



Piston diameters	B1	B2	D0	D1	D2	F	G	L	L1	L5	L9	LL	M	MH*	ML	S
40	58	43	63	70	50	15	G ¹ / ₂	140	43	32	18	151	M16x1.5	40	16	4.5
50	65	51	78	85	60	15	G ¹ / ₂	160	53	33	20	180	M22x1.5	50	22	6.0
63	73	58	93	100	75	20	G ³ / ₄	185	63	32	25	216	M28x1.5	45	28	6.0
80	83	68	110	120	95	20	G ³ / ₄	205	68	47	30	226	M35x1.5	50	35	8.0
100	101	81	135	145	115	25	G1	240	80	41	35	279	M45x1.5	60	45	8.0
125	114	91	160	170	145	30	G1 ¹ / ₂	300	100	50	40	350	M58x1.5	70	58	10.0
160	130	118	205	220	190	30	G1 ¹ / ₂	345	118	53	50	410	M80x2.0	80	80	12.0

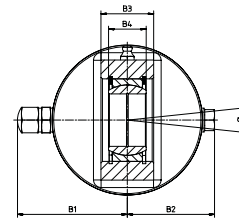
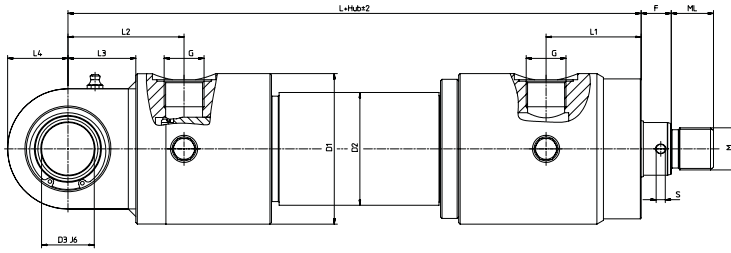
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

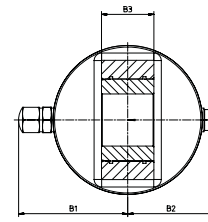
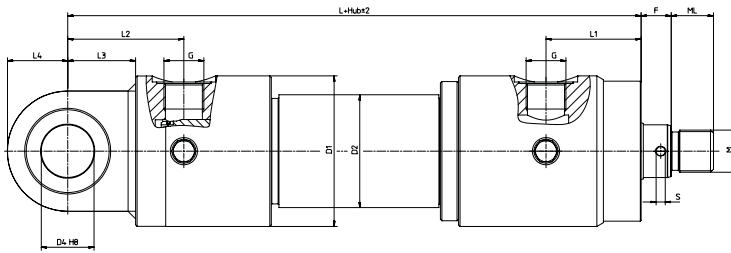
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 01 – Pivot lug with joint bearing



Mounting type 02 – Pivot lug with socket



Piston diameters	B1	B2	B3	B4	D1	D2	D3	D4	F	G	L	L1	L2	L3	L4	M	MH*	ML	S	α
40	58	43	30	20	70	50	25	25	15	G ¹ / ₂	173	43	65	33	30	M16x1.5	40	16	4.5	14°
50	65	51	30	22	85	60	30	30	15	G ¹ / ₂	195	53	68	35	33	M22x1.5	50	22	6.0	12°
63	73	58	35	25	100	75	35	35	20	G ³ / ₄	230	63	77	45	40	M28x1.5	45	28	6.0	12°
80	83	68	45	28	120	95	40	40	20	G ³ / ₄	260	68	102	55	50	M35x1.5	50	35	8.0	14°
100	101	81	55	35	145	115	50	50	25	G1	305	80	106	65	60	M45x1.5	60	45	8.0	12°
125	114	91	65	44	170	145	60	60	30	G ¹ / ₂	375	100	125	75	70	M58x1.5	70	58	10.0	12°
160	130	118	80	55	220	190	80	80	30	G ¹ / ₂	345	118	153	100	90	M80x2.0	80	80	12.0	12°

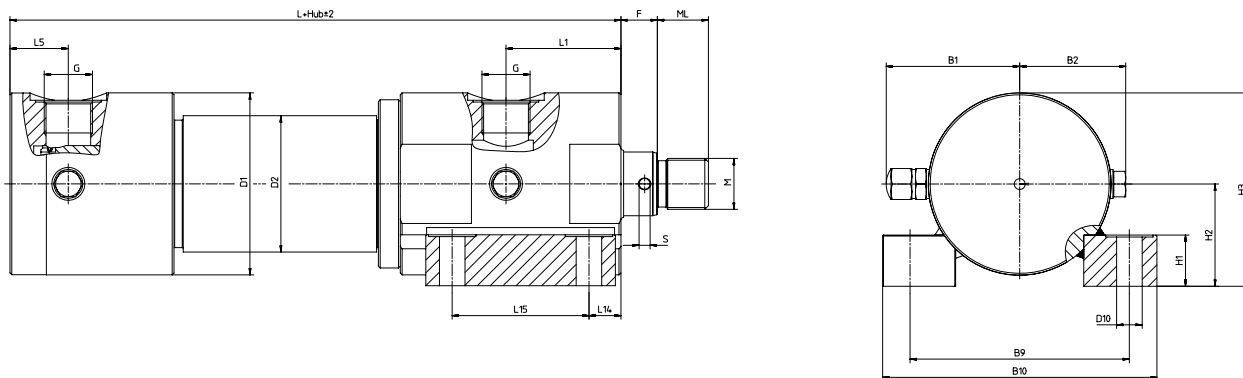
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

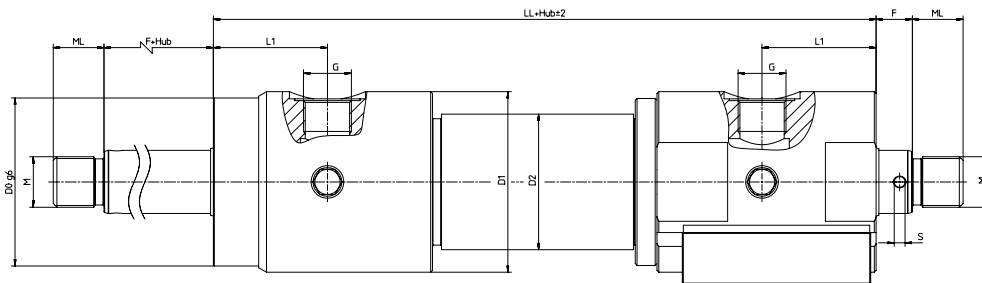
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 03 – Foot mounting at the head



Mounting type 03 – Foot mounting at the head (Synchronous cylinder)



Piston diameters	B1	B2	B9	B10	D1	D2	D10	F	G	H1	H2	H3	L	L1	L5	L14	L15	LL	M	MH*	ML	S
40	58	43	85	110	70	50	9	15	G ¹ / ₂	18	38	73.0	140	43	32	12.5	57	151	M16x1.5	40	16	4.5
50	65	51	105	135	85	60	11	15	G ¹ / ₂	22	45	87.5	160	53	33	15.0	67	180	M22x1.5	50	22	6.0
63	73	58	120	150	100	75	14	20	G ³ / ₄	28	56	106.0	185	63	32	17.5	75	216	M28x1.5	45	28	6.0
80	83	68	145	180	120	95	18	20	G ³ / ₄	32	62	122.0	205	68	47	17.5	85	226	M35x1.5	50	35	8.0
100	101	81	170	220	145	115	22	25	G1	40	80	152.5	240	80	41	25.0	100	279	M45x1.5	60	45	8.0
125	114	91	220	270	170	145	27	30	G1 ¹ / ₂	45	100	185.0	300	100	50	30.0	130	350	M58x1.5	70	58	10.0
160	130	118	280	350	220	190	33	30	G1 ¹ / ₂	55	128	238.0	345	118	53	35.0	140	410	M80x2.0	80	80	12.0

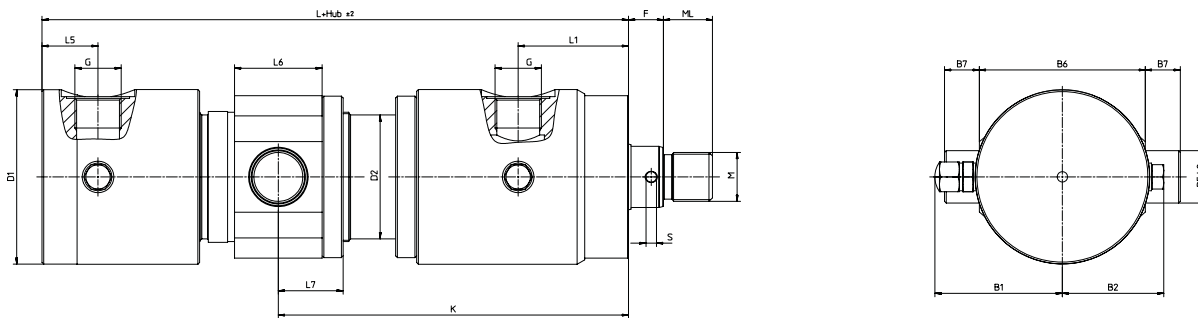
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

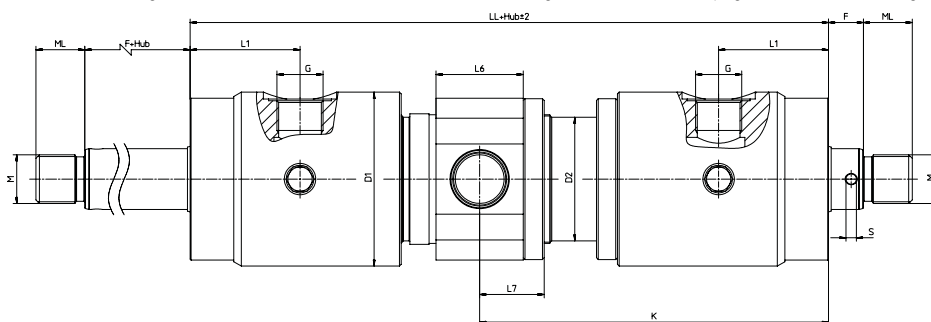
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 04 – Pivoting pins at the cylinder tube



Mounting type 04 – Pivoting pins at the cylinder tube (Synchronous cylinder)



Piston diameters	B1	B2	B6	B7	D1	D2	D5	F	G	K _{min}	L	L1	L5	L6	L7	LL	M	MH*	ML	S
40	58	43	75	15	70	50	20	15	G ¹ / ₂	130	140	43	32	35	28	151	M16x1.5	90	16	4.5
50	65	51	85	20	85	60	25	15	G ¹ / ₂	155	160	53	33	40	32	180	M22x1.5	110	22	6.0
63	73	58	95	20	100	75	30	20	G ³ / ₄	175	185	63	32	50	37	216	M28x1.5	115	28	6.0
80	83	68	115	25	120	95	40	20	G ³ / ₄	188	205	68	47	55	40	226	M35x1.5	128	35	8.0
100	101	81	140	35	145	115	50	25	G ¹	225	240	80	41	65	48	279	M45x1.5	145	45	8.0
125	114	91	175	40	170	145	60	30	G ¹ / ₂	320	300	100	50	90	97	350	M58x1.5	220	58	10.0
160	130	118	215	50	220	190	75	30	G ¹ / ₂	370	345	118	53	110	115	410	M80x2.0	250	80	12.0

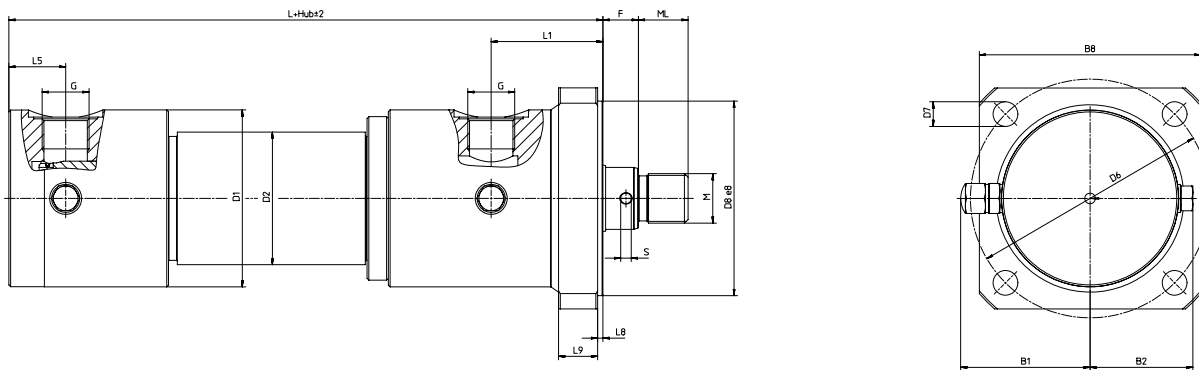
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

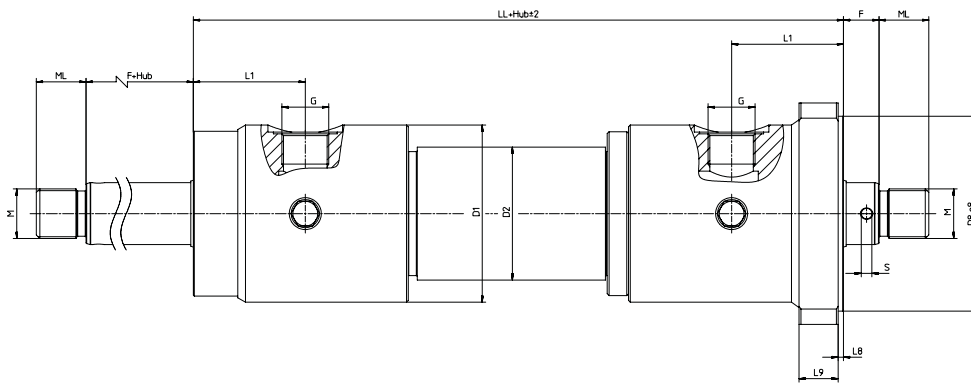
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 05 – Square flange at the head



Mounting type 05 – Square flange at the head (Synchronous cylinder)



Piston diameters	B1	B2	B8	D0	D1	D2	D6	D7	D8	F	G	L	L1	L5	L8	L9	LL	M	MH*	ML	S
40	58	43	97	130	70	50	105	11	80	15	G ¹ / ₂	140	43	32	3	15	151	M16x1.5	40	16	4.5
50	65	51	115	150	85	60	120	14	95	15	G ¹ / ₂	160	53	33	3	17	180	M22x1.5	50	22	6.0
63	73	58	125	165	100	75	135	14	110	20	G ³ / ₄	185	63	32	3	22	216	M28x1.5	45	28	6.0
80	83	68	155	205	120	95	168	18	135	20	G ³ / ₄	205	68	47	3	27	226	M35x1.5	50	35	8.0
100	101	81	185	250	145	115	205	23	165	25	G1	240	80	41	5	30	279	M45x1.5	60	45	8.0
125	114	91	230	325	170	145	255	27	210	30	G1 ¹ / ₂	300	100	50	5	35	350	M58x1.5	70	58	10
160	130	118	285	400	220	190	320	33	265	30	G1 ¹ / ₂	345	118	53	5	45	410	M80x2.0	80	80	12

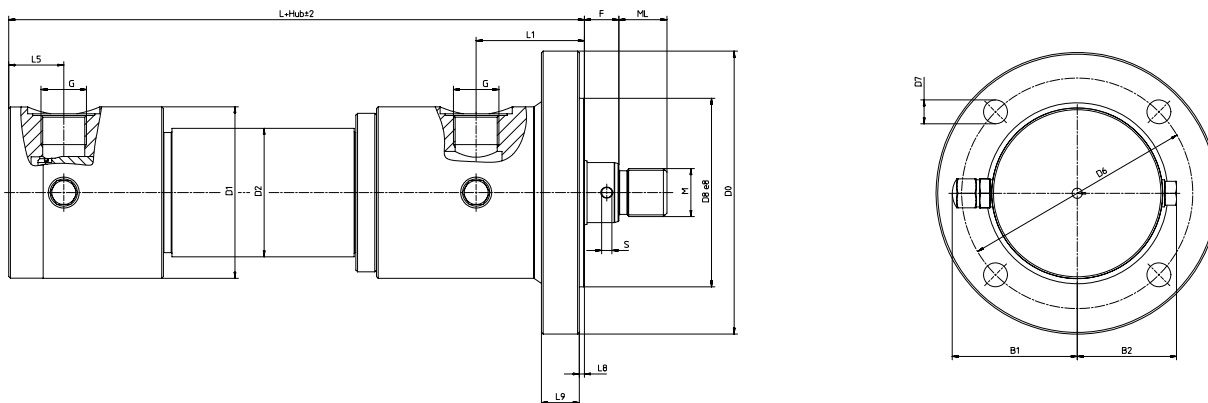
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

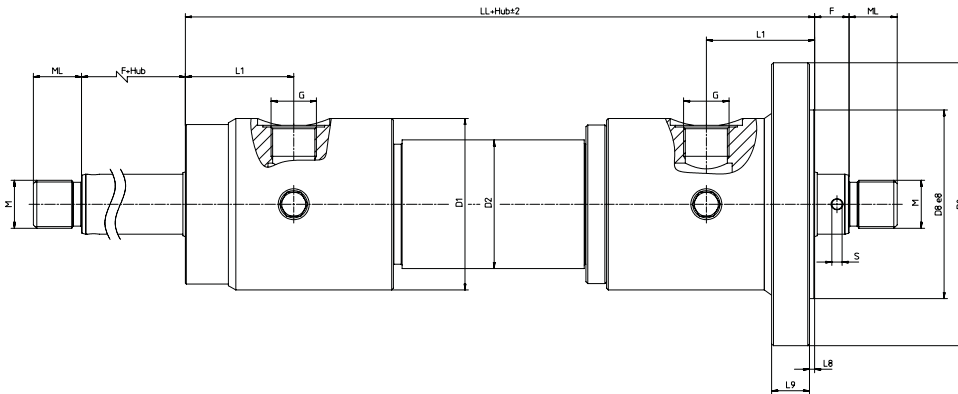
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 06 – Round flange at the head



Mounting type 06 – Round flange at the head (Synchronous cylinder)



Piston diameters	B1	B2	B8	D0	D1	D2	D6	D7	D8	F	G	L	L1	L5	L8	L9	LL	M	MH*	ML	S
40	58	43	97	130	70	50	105	11	80	15	G ¹ / ₂	140	43	32	3	15	151	M16x1.5	40	16	4.5
50	65	51	115	150	85	60	120	14	95	15	G ¹ / ₂	160	53	33	3	17	180	M22x1.5	50	22	6.0
63	73	58	125	165	100	75	135	14	110	20	G ³ / ₄	185	63	32	3	22	216	M28x1.5	45	28	6.0
80	83	68	155	205	120	95	168	18	135	20	G ³ / ₄	205	68	47	3	27	226	M35x1.5	50	35	8.0
100	101	81	185	250	145	115	205	23	165	25	G1	240	80	41	5	30	279	M45x1.5	60	45	8.0
125	114	91	230	325	170	145	255	27	210	30	G1 ¹ / ₂	300	100	50	5	35	350	M58x1.5	70	58	10
160	130	118	285	400	220	190	320	33	265	30	G1 ¹ / ₂	345	118	53	5	45	410	M80x2.0	80	80	12

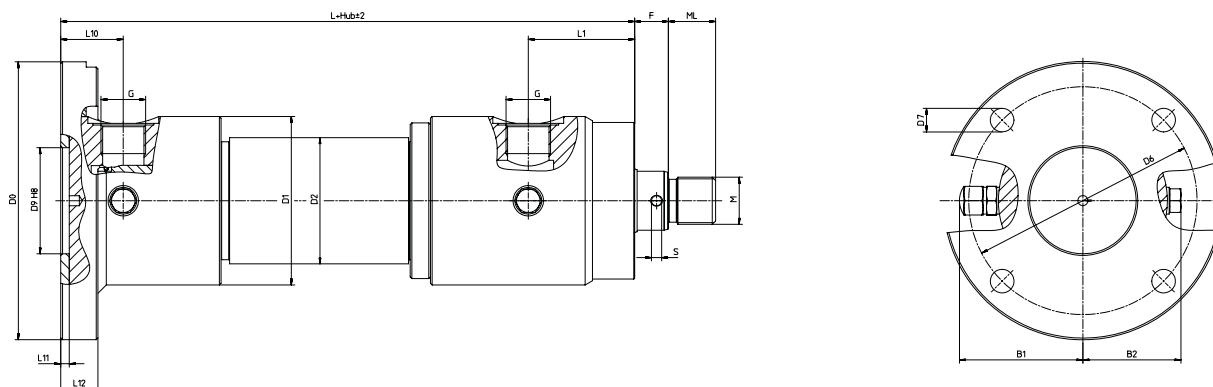
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

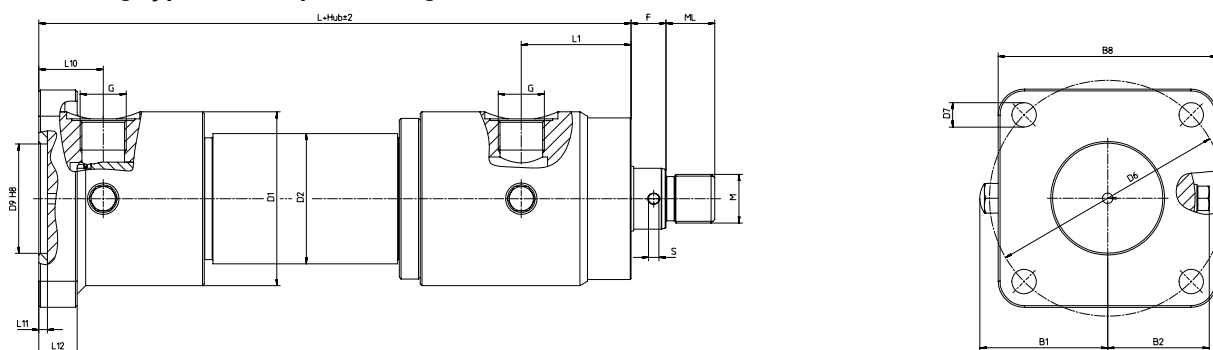
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 07 – Round flange at the base



Mounting type 08 – Square flange at the base



Piston diameters	B1	B2	B8	D0	D1	D2	D6	D7	D8	D9	F	G	L	L1	L8	L9	L10	L11	L12	M	MH*	ML	S
40	58	43	97	130	70	50	105	11	80	47	15	G ¹ / ₂	145	43	3	15	37	5	15	M16x1.5	40	16	4.5
50	65	51	115	150	85	60	120	14	95	55	15	G ¹ / ₂	165	53	3	17	38	5	17	M22x1.5	50	22	6.0
63	73	58	125	165	100	75	135	14	110	63	20	G ³ / ₄	190	63	3	22	37	5	22	M28x1.5	45	28	6.0
80	83	68	155	205	120	95	168	18	135	80	20	G ³ / ₄	210	68	3	27	52	5	27	M35x1.5	50	35	8.0
100	101	81	185	250	145	115	205	23	165	100	25	G1	250	80	5	30	51	10	30	M45x1.5	60	45	8.0
125	114	91	230	325	170	145	255	27	210	125	30	G1 ¹ / ₂	310	100	5	35	60	7	35	M58x1.5	70	58	10.0
160	130	118	285	400	220	190	320	33	265	160	30	G1 ¹ / ₂	355	118	5	45	63	10	45	M80x2.0	80	80	12.0

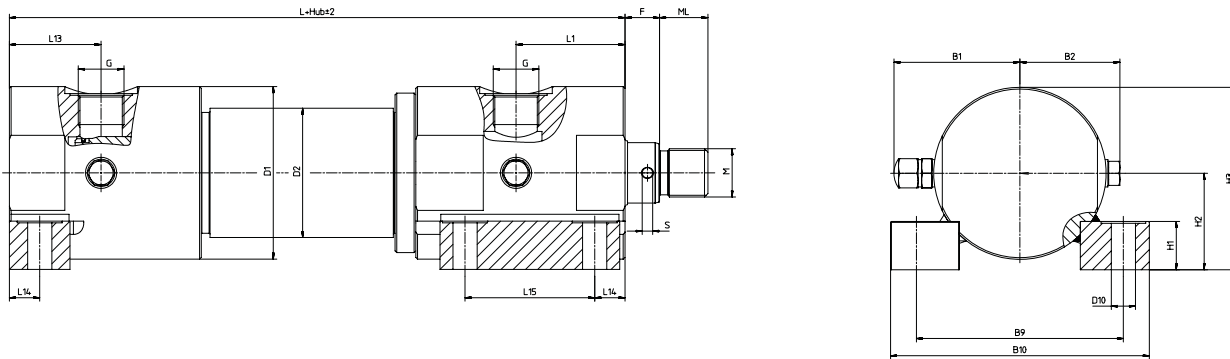
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

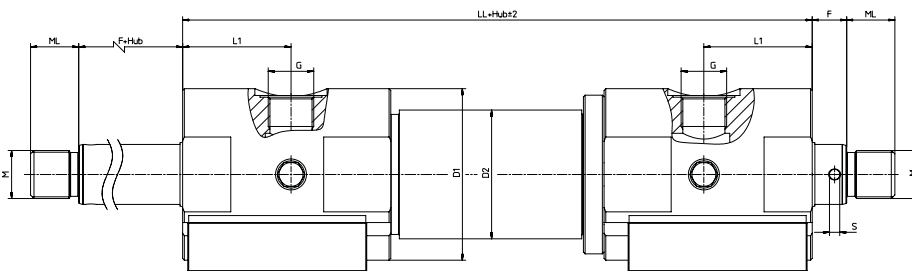
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 09 – Foot mounting at the head and the base



Mounting type 09 – Foot mounting at the head and the base (Synchronous cylinder)



Piston diameters	B1	B2	B9	B10	D1	D2	D10	F	G	H1	H2	H3	L	L1	L13	L14	L15	LL	M	MH*	ML	S
40	58	43	85	110	70	50	9	15	G ¹ / ₂	18	38	73.0	148	43	40	12.5	57	151	M16x1.5	40	16	4.5
50	65	51	105	135	85	60	11	15	G ¹ / ₂	22	45	87.5	167	53	40	15.0	67	180	M22x1.5	50	22	6.0
63	73	58	120	150	100	75	14	20	G ³ / ₄	28	56	106.0	206	63	53	17.5	75	216	M28x1.5	45	28	6.0
80	83	68	145	180	120	95	18	20	G ³ / ₄	32	62	122.0	208	68	50	17.5	85	226	M35x1.5	50	35	8.0
100	101	81	170	220	145	115	22	25	G1	40	80	152.5	264	80	65	25.0	100	279	M45x1.5	60	45	8.0
125	114	91	220	270	170	145	27	30	G1 ¹ / ₂	45	100	185.0	300	100	50	30.0	130	350	M58x1.5	70	58	10.0
160	130	118	280	350	220	190	33	30	G1 ¹ / ₂	55	128	238.0	345	118	53	35.0	140	410	M80x2.0	80	80	12.0

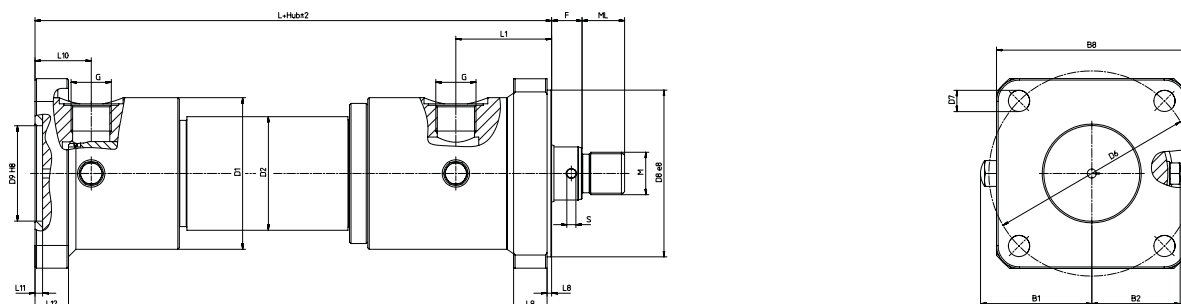
* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

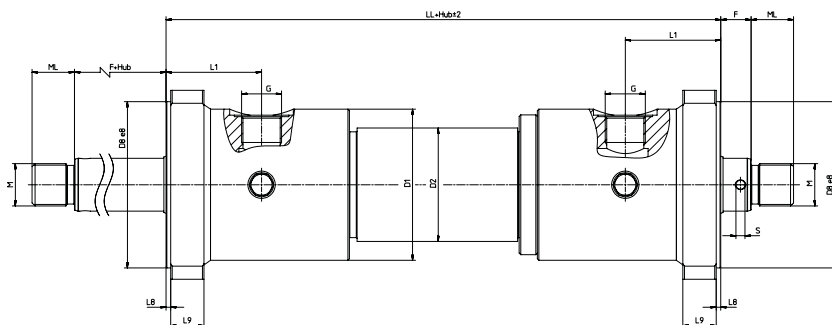
- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Dimensions

Mounting type 11 – Square flange at the head and the base



Mounting type 11 – Square flange at the head and the base (Synchronous cylinder)



Piston diameters	B1	B2	B8	D1	D2	D6	D7	D8	D9	F	G	L	L1	L8	L9	L10	L11	L12	LL	M	MH*	ML	S
40	58	43	97	70	50	105	11	80	47	15	G ¹ / ₂	145	43	3	15	37	5	15	151	M16x1.5	40	16	4.5
50	65	51	115	85	60	120	14	95	55	15	G ¹ / ₂	165	53	3	17	38	5	17	180	M22x1.5	50	22	6.0
63	73	58	125	100	75	135	14	110	63	20	G ³ / ₄	190	63	3	22	37	5	22	216	M28x1.5	45	28	6.0
80	83	68	155	120	95	168	18	135	80	20	G ³ / ₄	210	68	3	27	52	5	27	226	M35x1.5	50	35	8.0
100	101	81	185	145	115	205	23	165	100	25	G1	250	80	5	30	51	10	30	279	M45x1.5	60	45	8.0
125	114	91	230	170	145	255	27	210	125	30	G1 ¹ / ₂	310	100	5	35	60	7	35	350	M58x1.5	70	58	10
160	130	118	285	220	190	320	33	265	160	30	G1 ¹ / ₂	410	118	5	45	63	10	45	410	M80x2.0	80	80	12

* MH (minimum stroke) determines the shortest overall length (L + stroke)

Notes

- B1 + B2 apply only to cylinders with end-of-stroke cushioning
- B2 applies only with optional venting
- Cylinders with a stroke shorter than the specified minimum stroke have the same mounting dimensions

Weights

Differential cylinder

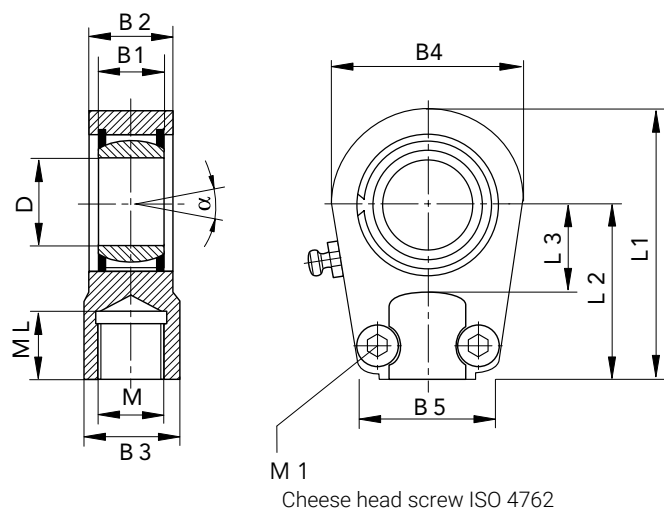
Piston diameters	Base weights according to mounting type						Piston rod diameters	Weights per mm of stroke
	00	01 / 02	03 / 09	04	05 / 06 / 07 / 08	10 / 11		
40	5.2	5.6	5.8	6.5	6.4	7.0	22	0.009
							28	0.011
50	8.5	8.8	9.5	10.2	10.2	10.9	30	0.013
							35	0.015
63	14.5	15.0	15.5	16.2	17.0	18.5	35	0.016
							45	0.023
80	22.2	23.2	24.2	25.6	26.7	29.2	50	0.032
							55	0.035
100	42.6	41.5	47.5	46.5	50.6	53.7	60	0.042
							70	0.052
125	57.6	61.5	66.5	69.0	66.5	69.0	80	0.073
							90	0.083
160	109.1	116.1	125.5	142.3	125.5	142.3	100	0.126
							110	0.140

Synchronous cylinder

Piston diameters	Base weights according to mounting type					Piston rod diameters	Weights per mm of stroke
	00	03 / 09	04	05 / 06	10 / 11		
40	6.0	7.6	7.2	7.2	8.8	22	0.012
						28	0.013
50	10.3	12.8	12.1	12.0	14.2	30	0.018
						35	0.019
63	17.5	20.5	19.5	20.0	23.5	35	0.025
						45	0.029
80	30.0	33.0	33.5	34.5	38.0	50	0.047
						55	0.050
100	48.4	59.5	56.3	56.4	65.7	60	0.064
						70	0.072
125	83.1	98.0	96.0	92.0	98.0	80	0.110
						90	0.122
160	123.6	140.0	156.8	140.0	156.8	100	0.188
						110	0.215

Dimensions / Weights

Swivel fittings



Installation information

The swivel fittings must not bottom out against the piston rod shoulder. Otherwise, the piston rod thread may fail due to jamming during tightening of the cylinder screw.

Order reference

The swivel fittings are to be ordered separately.

Swivel fittings	B1	B2	B3	B4	B5	D	L1	L2	L3	M	M1	ML	α	Weights
GLK 40 B	20	23	25	56	41	25	78	50	25	M16x1.5	M8	17	14°	0.50
GLK 50 B	22	28	32	64	46	30	92	60	30	M22x1.5	M8	23	12°	0.75
GLK 63 B	25	30	40	78	58	35	109	70	38	M28x1.5	M10	29	12°	1.20
GLK 80 B	28	35	49	94	66	40	132	85	45	M35x1.5	M10	36	14°	2.00
GLK 100 B	35	40	61	116	88	50	163	105	55	M45x1.5	M12	46	12°	3.80
GLK 125 B	44	50	75	130	90	60	200	130	65	M58x1.5	M10	59	6°	5.60
GLK 160 B	55	60	105	176	160	80	265	170	80	M80x2.0	M20	80	6°	14.60

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