

Mounting elements for hydraulic cylinders



- For the series
- CDL2
 - CDM1/CGM1/CSM1
 - CDH1/CGH1/CSH1
 - CDH2/CGH2/CSH2
 - CDH3/CGH3/CSH3
 - CD70/CG70
 - CD210/CG210
 - CDT3/CGT3/CST3

Features

Mounting elements:

- Plain clevis
- Swivel head
- Fork clevis
- Bearing block
- Clevis bracket and eye bearing block
- Trunnion mounting bearing block
- Bolts



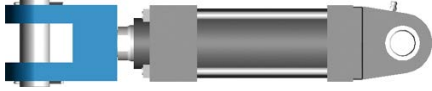









Contents

Features	1
Overview of mounting elements	2, 3
Swivel head CGK	4, 5
Clevis bracket CLCC	6, 7
Fork clevis CCKA	8
Eye bearing block CLEA	9
Clevis bracket CLCB	10, 11
Trunnion mounting bearing block CLTA	12, 13
Swivel head CGKA	14
Swivel head CGKL	15
Swivel head CGKD	16...19
Trunnion mounting bearing block CLTB	20...23
Clevis bracket CLCA	24...27
Clevis bracket CLCD	28...31
Plain clevis CSA	32, 33
Swivel head CGA	34, 35
Swivel head CGAK	36, 37
Swivel head CGAS	38, 39
Fork clevis CCKB	40, 41









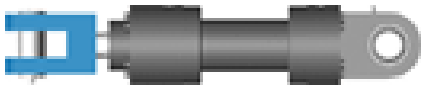


Project planning software
Interactive catalog system
boschrexroth.com/Hydraulik/Zylinder

Overview of mounting elements

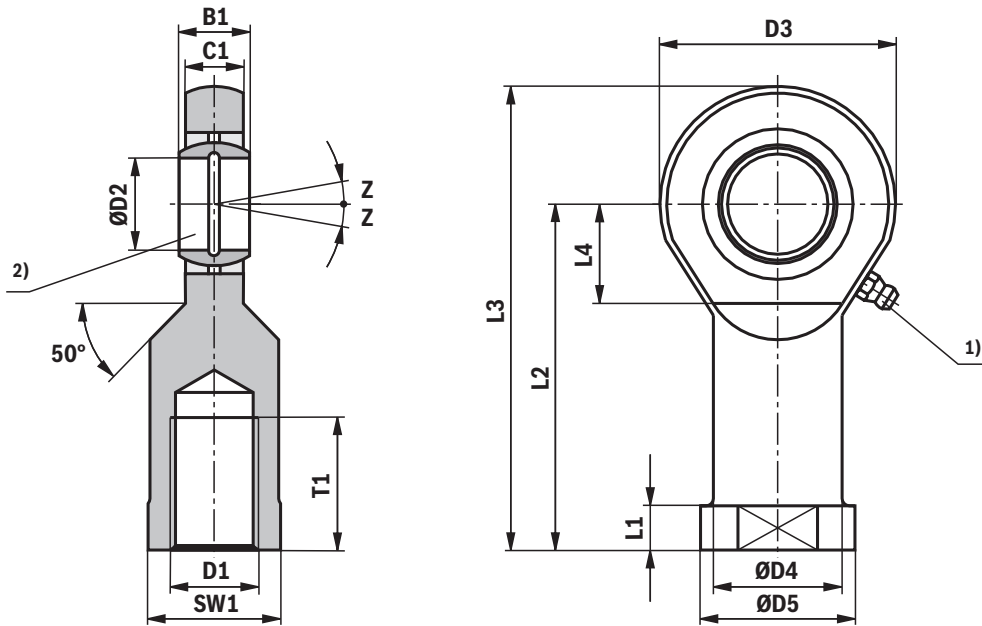
Assembly (symbolic representation)	Denomination / type	For attachment to series	Page
	Swivel head CGK ISO 12240-4	CD70; CG70 CD210; CG210	4, 5
	Clevis bracket CLCC		6, 7
	Fork clevis CCKA		8
	Eye bearing block CLEA		9
	Clevis bracket (clampable) CLCB ISO 8133	CDT3; CGT3; CST3	10, 11
	Trunnion mounting bearing block CLTA		12, 13
	Swivel head (clampable) CGKA ISO 8132 ISO 8133		14
	Swivel head CGKL ISO 12240-4	CDL2	15
	Swivel head (clampable) CGKD ISO 8132	CDL2 CDT3; CGT3; CST3	16, 17
	Swivel head (clampable) CGKD ISO 8132	CDH2; CGH2; CSH2 CDM1; CGM1; CSM1	18, 19
	Trunnion mounting bearing block CLTB ISO 8132	CDL2	20, 21
	Trunnion mounting bearing block CLTB ISO 8132	CDH2; CGH2; CSH2 CDM1; CGM1; CSM1	22, 23

Overview of mounting elements

Assembly (symbolic representation)	Denomination / type	For attachment to series	Page
	Clevis bracket (clampable) CLCA ISO 8132	CDL2 CDT3; CGT3; CST3	24, 25
	Clevis bracket (clampable) CLCA ISO 8132	CDH2; CGH2; CSH2 CDM1; CGM1; CSM1	26, 27
	Clevis bracket (clampable) CLCD ISO 8132	CDL2 CDT3; CGT3; CST3	28, 29
	Clevis bracket (clampable) CLCD ISO 8132	CDH2; CGH2; CSH2 CDM1; CGM1; CSM1	30, 31
	Plain clevis CSA	CDH1; CGH1; CSH1 CDH3; CGH3; CSH3	32, 33
	Swivel head CGA		34, 35
	Swivel head (clampable) CGAK		36, 37
	Swivel head (clampable) CGAS		38, 39
	Fork clevis (clampable) CCKB ISO 8132	CDH2; CGH2; CSH2 CDM1; CGM1; CSM1	40, 41

Dimensions: swivel head CGK for series CD70; CG70 and CD210; CG210
(dimensions in mm)

ISO 12240-4



Series			Type	Material no. Maintenance required ¹⁾	B1	C1 max.	D1	ØD2	D3 max.	ØD4 max.	ØD5 max.
CD70, CG70	CD210, CG210										
ØAL	ØAL	ØMM									
25	—	—	CGK 10 ³⁾	R900001653	9	7.5	M10	10	30	16	20
32	—	—	CGK 12 ³⁾	R900001327	10	8.5	M12	12	35	19	23
40	40	16	CGK 15 ⁴⁾	R900001328	12	10.5	M14	15	41	22	27
		18									
50	40	25	CGK 20 ⁴⁾	R900001329	16	13.5	M20 x 1.5	20	54	28	36
		22									
		25									
63	50	36	CGK 25	R900001330	20	18	M24 x 2	25	65	35	44
		25									
		28									
80	63	36	CGK 30	R900001331	22	20	M30 x 2	30	75	42	52
		45									
		36									
—	80	45	CGK 35	R900012486	25	22	M36 x 3	35	84	47	60
100	80	56	CGK 40	R900001332	28	24	M39 x 3	40	94	52	67
125	100	45	CGK 45	R900001333	32	28	M42 x 3	45	104	58	72
150	100	50	CGK 50	R900001334	35	31	M45 x 3	50	114	62	77
		70									
		50									
		56									
200	125	63	CGK 60	R900001335	44	39	M52 x 3	60	137	70	90
		90									
		63									
		70									
—	150	80	CGK 80	R900001928	55	48	M64 x 4	80	182	95	112
		100									
		80									
	180	80									

Dimensions: swivel head CGK for series CD70; CG70 and CD210; CG210
(dimensions in mm)

Series			Type	L1	L2	L3 max.	L4 min.	T1 min.	SW1 ⁵⁾	Z ⁵⁾	m kg	C ₀ ⁶⁾ kN	F _{adm} ⁷⁾ kN
CD70, CG70 ØAL	CD210, CG210 ØAL	ØMM											
25	—	—	CGK 10 ³⁾	6.5	43	60	13	15	15 / 16	12° – 15°	0.07	17.6	5.8
32	—	—	CGK 12 ³⁾	7	50	69	17	18	19	10° – 11°	0.1	24.5	8.1
40	40	16	CGK 15 ⁴⁾	8	61	83	19	21	22	8° – 12°	0.16	36	11.9
		18											
50	40	25	CGK 20 ⁴⁾	10	77	106	24	30	30 / 32	9°	0.34	60	19.8
		22											
		25											
63	50	36	CGK 25	12	94	128	30	36	36	7 °	0.6	83	27.4
		25											
		28											
80	63	36	CGK 30	15	110	149	34	45	41 / 46	6 °	0.9	110	36.3
		45											
		36											
—	80	45	CGK 35	15	125	169	40	60	50	6 °	1.4	146	48.2
100	80	56	CGK 40	18	142	191	46	65	55	7 °	2.0	180	59.4
125	100	45	CGK 45	20	145	199	50	65	60 / 65	7 °	2.7	240	79.2
150	100	50	CGK 50	20	160	219	58	68	65 / 70	6 °	3.5	290	95.7
		70											
	125	50											
		56											
200	125	63	CGK 60	20	175	246	73	70	75	6 °	5.6	450	148.5
		90											
	150	63											
		70											
—	150	80	CGK 80	25	230	324	98	85	100	6 °	13.1	750	247.5
		100											
		180											

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Bolt Ø m6 required

³⁾ Cannot be re-lubricated

⁴⁾ Can be re-lubricated via lubricating hole in housing

⁵⁾ Dimensions may differ depending on the manufacturer

⁶⁾ C₀ = Static load rating of the swivel head

⁷⁾ F_{adm} = Maximum admissible load of the swivel head with oscillatory or alternating loads

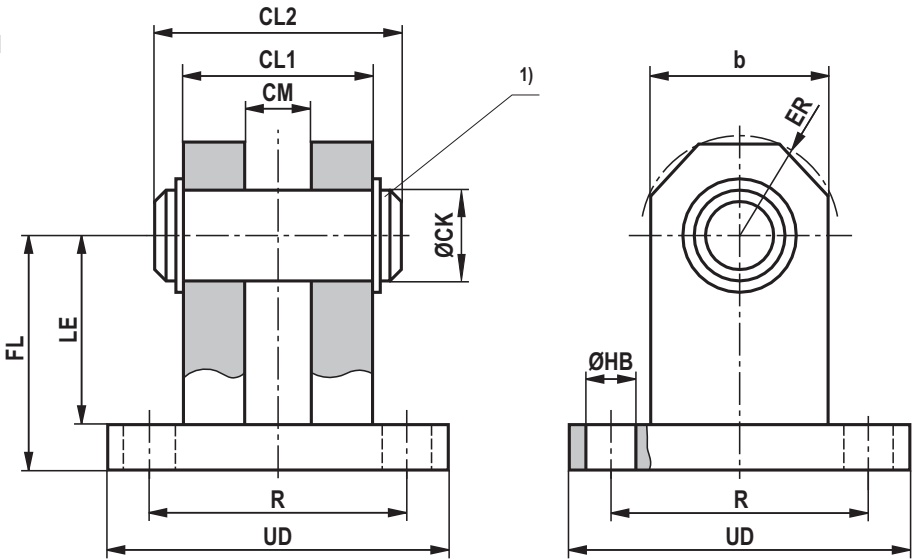


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: clevis bracket CLCC for series CD70; CG70 and CD210; CG210
(dimensions in mm)

Suitable for swivel head
 Type CGK... or CGA...



Series					Type	Material no.	ØCK H9 1)	CL1 h16	CL2 max.	CM A12	FL js12
CD70, CG70		CD210, CG210									
ØAL 2)	ØAL 3)	ØAL	ØMM	ØAL 3)							
25	—	—	—	—	CLCC 10	R900318440 4)	10	25	37	9	35
32	25	—	—	—	CLCC 12	R900318423 4)	12	25	37	10	35
	32	—	—								
40	40	40	16	40	CLCC 15	R900318468 4)	15	35	48	12	45
			18								
50	50	40	25	50	CLCC 20	R900318469 4)	20	50	64	16	58
	63	50	22								
			25								
63	80	50	36	63	CLCC 25	R900318470 4)	25	60	74	20	75
	100	63	25								
			28								
80	125	63	36	—	CLCC 30	R900318471 4)	30	60	74	22	75
			45								
			80								
—	150	80	45	80	CLCC 35	R900318472 4)	35	70	93	25	90
100	—	80	56	100	CLCC 40	R900318473 4)	40	70	93	28	90
125	200	100	45	125	CLCC 45	R900318481 4)	45	110	133	32	125
150	—	100	50	150	CLCC 50	R900318482 4)	50	110	133	35	125
			70								
		125	50								
			56								
200	—	125	63	180	CLCC 60	R900318483 4)	60	125	148	44	155
			90								
		150	63								
			70								
—	—	150	80	—	CLCC 80	R900318477 4)	80	140	163	55	130
			100								
		180	80								
—	—	180	90	—	CLCC 81	R900318478 4)	80	140	163	60	150
		200	90								
			100								
—	—	180	125	—	CLCC 90	R900318479 4)	90	140	163	65	150
—	—	200	140	—	CLCC 100	R900318480 4)	100	150	175	70	165
—	—	—		200	CLCC 70	R900318484 4)	70	125	148	49	155

Dimensions: clevis bracket CLCC for series CD70; CG70 and CD210; CG210
(dimensions in mm)

CD70, CG70		Series			Type	ØHB H13	ER max.	LE min.	UD max.	R js14	b max.	m kg
		CD210, CG210										
ØAL ²⁾	ØAL ³⁾	ØAL	ØMM	ØAL ³⁾								
25	—	—	—	—	CLCC 10	5.5	13	25	45	33	24	0.3
32	25	—	—	—	CLCC 12	5.5	13	25	45	33	24	0.3
	32	—	—									
40	40	40	16	40	CLCC 15	11	17	35	75	50	32	0.8
			18									
50	50	40	25	50	CLCC 20	13.5	22	42	90	65	40	1.8
	63	50	22									
			25									
63	80	50	36	63	CLCC 25	13.5	25	59	95	70	45	2.5
	100	63	25									
			28									
80	125	63	36	—	CLCC 30	13.5	25	59	95	70	45	2.5
			45									
		80	36									
—	150	80	45	80	CLCC 35	17.5	35	68	130	95	65	6.0
100	—	80	56	100	CLCC 40	17.5	35	68	130	95	65	6.0
125	200	100	45	125	CLCC 45	26	46	100	180	135	85	15.0
150	—	100	50	150	CLCC 50	26	46	100	180	135	85	15.0
			70									
		125	50									
			56									
200	—	125	63	180	CLCC 60	33	66	125	225	170	125	28.0
			90									
		150	63									
			70									
—	—	150	80	—	CLCC 80	33	75	100	245	190	140	33.0
			100									
		180	80									
—	—	180	90	—	CLCC 81	33	75	120	245	190	140	34.0
		200	90									
			100									
—	—	180	125	—	CLCC 90	33	75	120	245	190	140	35.0
—	—	200	140	—	CLCC 100	33	95	135	255	200	170	41.0
—	—	—		200	CLCC 70	33	80	125	225	170	145	28.0

ØAL = Piston Ø

ØMM = Piston rod Ø

1) Bolt Ø m6 required
(bolt and bolt lock are included in the scope of delivery)

2) For mounting on the piston rod with CGK... or CGA

3) For mounting on the cylinder base (type of mounting "B")

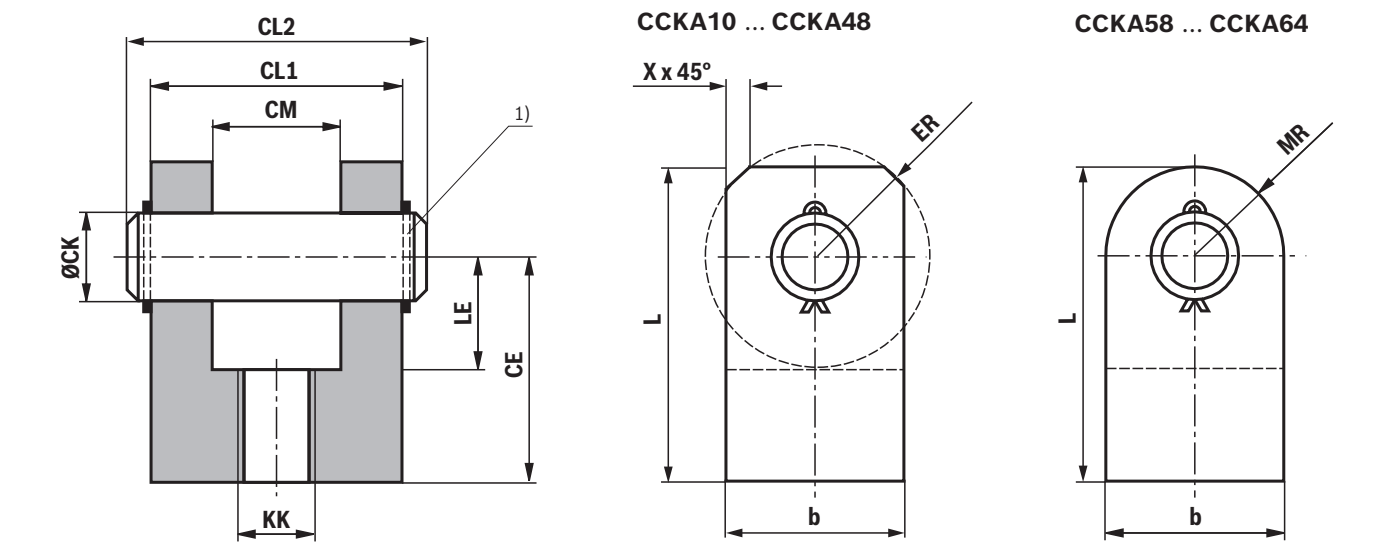
4) On request



Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: fork clevis CCKA for series CD70; CG70 and CD210; CG210
(dimensions in mm)



Series		Type ²⁾	Material no.	ØCK H7 ¹⁾	CL1	CL2 max.	CM	CE	L	KK	LE min.	ER max.	MR max.	X	b max.	m kg
CD70, CG70 ØMM	CD210, CG210 ØMM															
16	16	CCKA 10	R900318486 ³⁾	12.7	44	56	20 ±0.3	38 ±0.1	51	M10 x 1.5	19	15.3	–	5	26	0.2
18	18															
22	22	CCKA 16	R900318488 ³⁾	19.1	65	77	32.5 ±0.3	54 ±0.1	73	M16 x 1.5	26	23.6	–	5	38	1.0
25	25	CCKA 20	R900318487 ³⁾	19.1	65	77	32.5 ±0.3	54 ±0.1	73	M20 x 1.5	26	23.6	–	5	38	1.0
28	28															
36	36	CCKA 26	R900318489 ³⁾	25.4	77	92	39 ±0.3	75 ±0.1	101	M26 x 1.5	34	28.2	–	15	52	2.4
45	45	CCKA 33	R900318491 ³⁾	34.95	100	118	51.5 ±0.3	95 ±0.1	130	M33 x 2	45	38.1	–	20	70	4.5
50	50	CCKA 39	R900318494 ³⁾	44.48	127	147	65 ±0.3	114 ±0.1	159	M39 x 2	57	57	–	10	90	8.5
56	56															
63	63	CCKA 48	R900318496 ³⁾	50.83	125	147	65 ±0.3	140 ±0.1	190	M48 x 2	64	53.9	–	30	100	13.0
70	70															
80	80	CCKA 58	R900541067 ³⁾	63.53	154 h16	176	78 A12	165 ±0.2	230	M58 x 2	76	–	65	–	130	23.0
90	90	CCKA 64	R900318498 ³⁾	76.23	154 h16	176	78 A12	172 ±0.2	242	M64 x 2	83	–	70	–	140	25.0

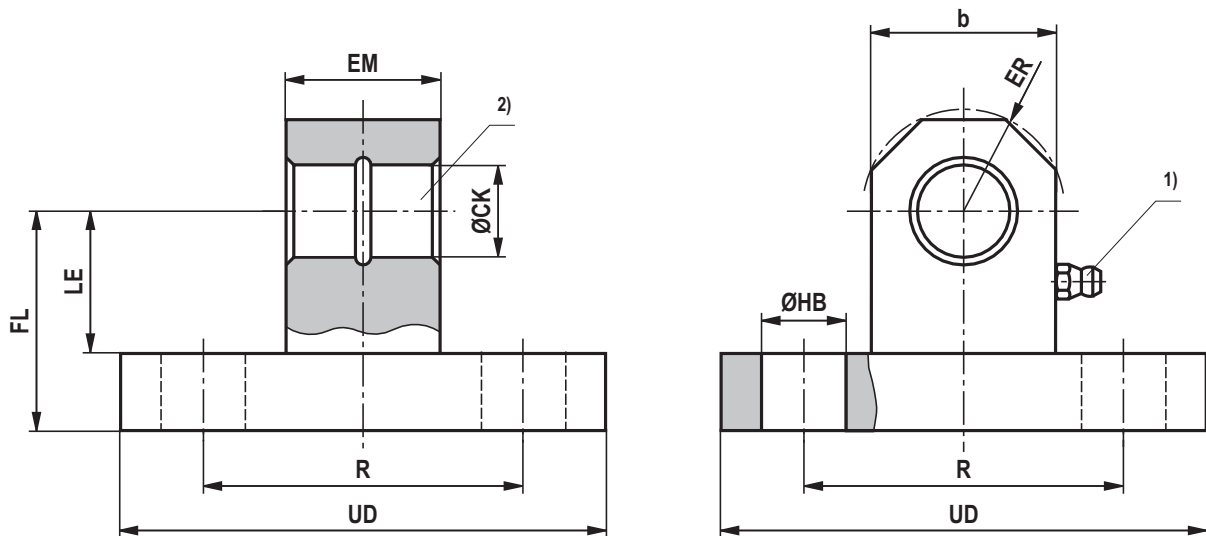
ØMM = Piston rod Ø

¹⁾ Bolt Ø f7 required
(bolt and bolt lock are included in the scope of delivery)

²⁾ Only possible with thread design "C"

³⁾ On request

Dimensions: eye bearing block CLEA for series CD70; CG70 and CD210; CG210
(dimensions in mm)



Series				Type	Material no. Maintenance required ¹⁾	ØCK H7 ²⁾	EM h13	FL js12	ØHB H13	ER max.	LE min.	UD max.	R js14	b	m kg
CD70, CG70		CD210, CG210													
ØAL ³⁾	ØMM ⁴⁾	ØAL ³⁾	ØMM ⁴⁾												
32	16	40	16	CLEA 10	R900318516 ⁵⁾	12.7	20	28.5	11	13	18.5	63	41.5	24	0.4
40			18												
50	18		18												
63															
80	22	50	22	CLEA 20	R900318518 ⁵⁾	19.1	32.5	47.5	13.5	22	31.5	89	65	40	1.6
			25												
100	25	63	25												
125	28		28												
150	36	80	36	CLEA 26	R900318519 ⁵⁾	25.43	39	57	17.5	30	38	114	82.5	55	2.3
200															
—	45	100	45	CLEA 33	R900318520 ⁵⁾	34.95	51.5	76	17.5	41	54	127	97	75	5.8
—	50	125	50	CLEA 39	R900318521 ⁵⁾	44.48	65	79.5	22	49	57	165	126	90	10.0
	56		56												
—	63	150	63	CLEA 48	R900318522 ⁵⁾	50.83	65	89	26	56	64	190	145.5	105	14.0
	70		70												
—	80	180	80	CLEA 58	R900318524 ⁵⁾	63.53	78	101.5	30	69	77	216	167	130	21.0
—	90	200	90	CLEA 64	R900318523 ⁵⁾	76.23	78	108	33	77	83	242	190.5	145	26.0

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Suitable for fork clevis type CCKA...

³⁾ For mounting on cylinder base (type of mounting "G")

⁴⁾ For mounting on piston rod with CCKA...

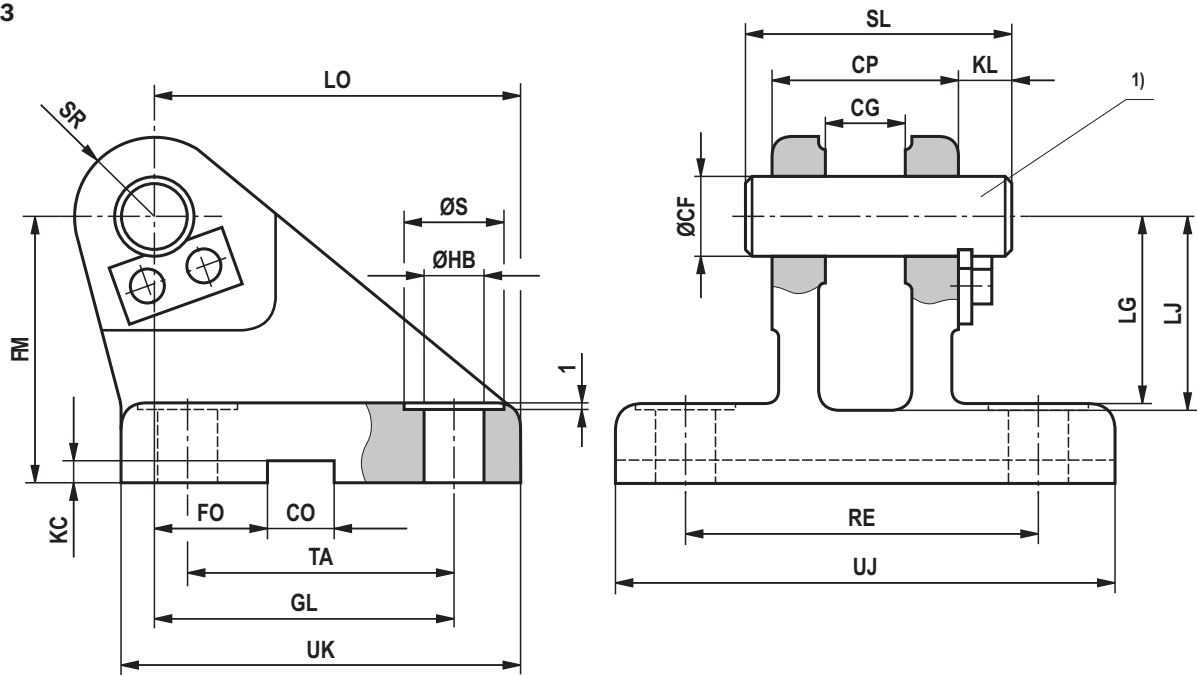
⁵⁾ On request

Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: clevis bracket CLCB - AB 5 (clampable) for series CDT3; CGT3; CST3
(dimensions in mm)

ISO 8133



Type	Material no.	Nominal force kN	ØCF K7 ¹⁾	CP h14	CG +0.1 +0.3	CO N9	FO js14	FM js13	GL JS13	ØHB H13	ØS
CLCB 12	R900326960 ⁴⁾	8	12	30	10	10	16	40	46	9	15
CLCB 16	R900327372 ⁴⁾	12.5	16	40	14	16	18	50	61	11	18
CLCB 20	R900327373 ⁴⁾	20	20	50	16	16	20	55	64	14 ³⁾	20
CLCB 25	R900326961 ⁴⁾	32	25	60	20	25	22	65	78	16 ³⁾	24
CLCB 30	R900327374 ⁴⁾	50	30	70	22	25	24	85	97	18 ³⁾	26
CLCB 40	R900327375 ⁴⁾	80	40	80	28	36	24	100	123	22	33
CLCB 50	R900327376 ⁴⁾	125	50	100	35	36	35	125	155	30	48
CLCB 60	R900327377 ⁴⁾	200	60	120	44	50	35	150	187	39	60
CLCB 80	R900327378 ⁴⁾	320	80	160	55	50	35	190	255	45	80
CLCB 100	R900327379 ⁴⁾	500	100	200	70	63	35	210	285	48	80

Dimensions: clevis bracket CLCB - AB 5 (clampable) for series CDT3; CGT3; CST3
(dimensions in mm)

Type	KC +0.3 0	KL	LG	LJ	LO max.	RE js13	SL	SR max.	TA js13	UJ max.	UK max.	<i>m</i> ²⁾ kg
CLCB 12	3.3	8	28	29	56	55	40	12	40	75	60	0.6
CLCB 16	4.3	8	37	38	74	70	50	16	55	95	80	1.3
CLCB 20	4.3	10	39	40	80	85	62	20	58	120	90	2.1
CLCB 25	5.4	10	48	49	98	100	72	25	70	140	110	3.2
CLCB 30	5.4	13	62	63	120	115	85	30	90	160	135	6.5
CLCB 40	8.4	16	72	73	148	135	100	40	120	190	170	12.0
CLCB 50	8.4	19	90	92	190	170	122	50	145	240	215	23.0
CLCB 60	11.4	20	108	110	225	200	145	60	185	270	260	37.0
CLCB 80	11.4	26	140	142	295	240	190	80	260	320	340	79.0
CLCB 100	12.4	30	150	152	335	300	235	100	300	400	400	140.0

- 1) Bolt Ø h6 required, suitable for swivel head CGKA...
(bolt and bolt lock are included in the scope of delivery)
- 2) *m* = Weight of clevis bracket in kg
- 3) Dimensions may differ from the standard depending on the manufacturer
- 4) On request

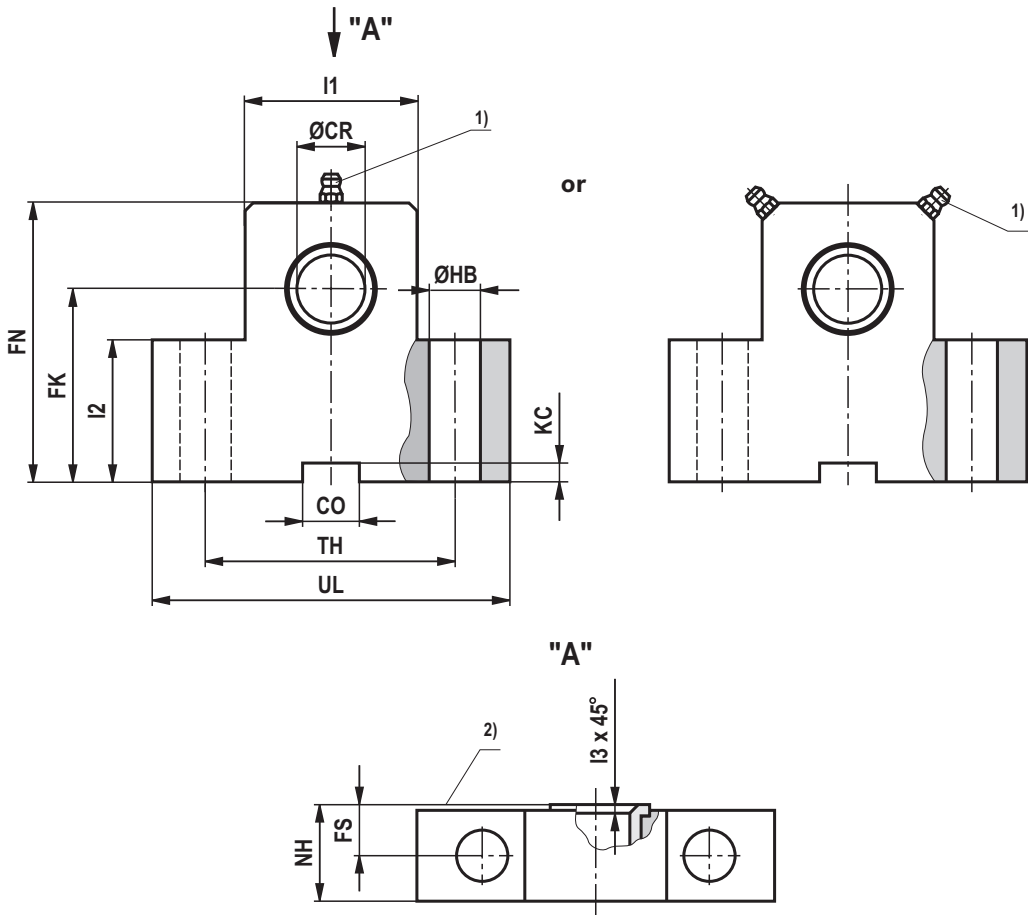


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: trunnion mounting bearing block CLTA - AT 4 for series CDT3; CGT3; CST3 (dimensions in mm)

CLTA 12-20



Series CDT3, CGT3, CST3 ØAL	Type	Material no. Maintenance required ¹⁾	Nominal force kN ⁴⁾	ØCR H7	CO N9	FK js12	FN max.	FS JS14	ØHB H13	KC +0.3 0	NH max.	TH JS14	UL max.	l1	l2	l3	m ⁵⁾ kg
25	CLTA 12	R901071355	8	12	10	38	55	8	9	3.3	17 ³⁾	40	63	25	25	1	0.5
32	CLTA 16	R901071364	12.5	16	16	45	65	10	11	4.3	21	50	80	30	30	1	0.9
40	CLTA 20	R901071365	20	20	16	55	80	10	11	4.3	21	60	90	40	38	1.5	1.35

ØAL = Piston Ø

¹⁾ Grease nipple, cone shape A according to DIN 71412

²⁾ Inside

³⁾ Dimensions may differ depending on the manufacturer

⁴⁾ Nominal force applies to applications in pairs

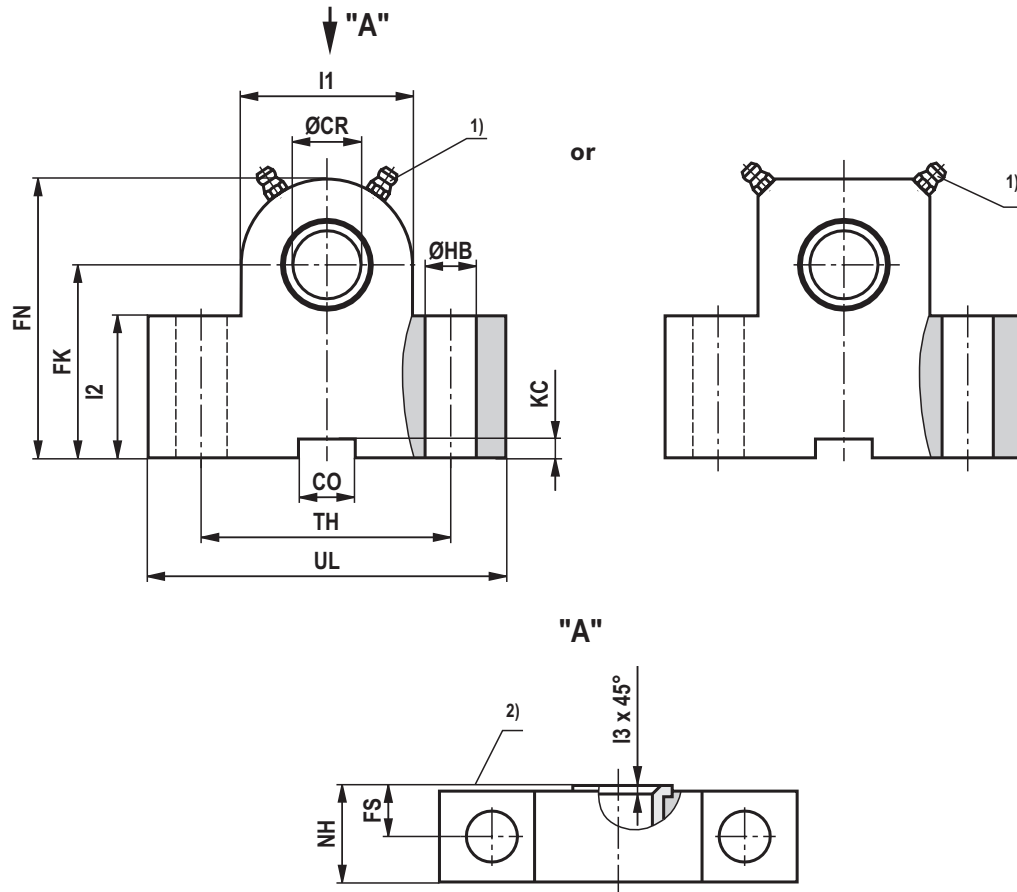
⁵⁾ *m* = Weight per pair in kg, bearing blocks are delivered in pairs

Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: trunnion mounting bearing block CLTA - AT 4 for series CDT3; CGT3; CST3 (dimensions in mm)

CLTA 25-100



Series CDT3, CGT3, CST3 ØAL	Type	Material no. Maintenance required ¹⁾	Nominal force kN ⁴⁾	ØCR H7	CO N9	FK js12	FN max.	FS js14	ØHB H13	KC +0.3 0	NH max.	TH js14	UL max.	l1	l2	l3	m ⁵⁾ kg
50	CLTA 25	R901071368	32	25	25	65	90	12	14 ³⁾	5.4	26	80	110	56	45	1.5	2.4
63	CLTA 32	R901071377	50	32	25	75	110	15	18 ³⁾	5.4	33	110	150	70	52	2	5.0
80	CLTA 40	R901071380	80	40	36	95	140	16	22	8.4	41	125	170	88	60	2.5	8.5
100	CLTA 50	R901071385	125	50	36	105	150	20	26	8.4	51	160	210	90	72	2.5	15
125	CLTA 63	R901071395	200	63	50	125	195	25	33	11.4	61	200	265	136	87	3	30
160	CLTA 80	R901071398	320	80	50	150	230	31	39	11.4	81	250	325	160	112	3.5	59
200	CLTA 100	R901071400	500	100	63	200	300	42	52	12.4	101	320	410	200	150	4.5	131

ØAL = Piston Ø

¹⁾ Grease nipple, cone shape A according to DIN 71412

²⁾ Inside

³⁾ Dimensions may differ depending on the manufacturer

⁴⁾ Nominal force applies to applications in pairs

⁵⁾ **m** = Weight per pair in kg, bearing blocks are delivered in pairs

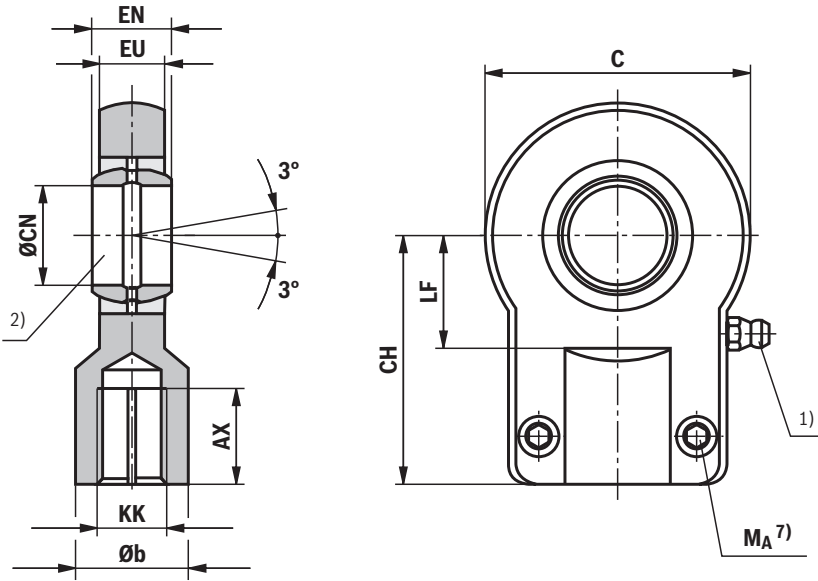


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: swivel head CGKA - AP 6 (clampable) for series CDT3; CGT3; CST3
(dimensions in mm)

ISO 8132
ISO 8133



Type	Material no. Maintenance required ¹⁾	KK 6H	AX min.	Øb	C max.	CH js13	ØCN	EN	EU max.	LF min.	M _A ⁶⁾ Nm	m ⁷⁾ kg	C ₀ ⁸⁾ (head) kN	F _{adm} ⁹⁾ kN
CGKA 12 ³⁾	R900327186	M10 x 1.25	15	17	40	42	12 -0.008	10 -0.05	8	16	9.5	0.15	17	6.3
CGKA 16 ⁴⁾	R900327192	M12 x 1.25	17	21	45	48	16 -0.008	14 -0.05	11	20	9.5	0.25	28.5	10.5
CGKA 20 ⁴⁾	R900306874	M14 x 1.5	19	25	55	58	20 -0.010	16 -0.05	13	25	23	0.43	42.5	15.7
CGKA 25	R900327191	M16 x 1.5	23	30	65	68	25 -0.010	20 -0.05	17	30	23	0.73	67	24.7
CGKA 30	R900327187	M20 x 1.5	29	36	80	85	30 -0.010	22 -0.05	19	35	46	1.3	108	39.9
CGKA 40	R900327188	M27 x 2	37	45	100	105	40 -0.012	28 -0.05	23	45	46	2.3	156	57.6
CGKA 50	R900327368	M33 x 2	46	55	125	130	50 -0.012	35 -0.05	30	58	80	4.4	245	90.4
CGKA 60	R900327369	M42 x 2	57	68	160	150	60 -0.012	44 -0.05	38	68	195	8.4	380	140.2
CGKA 80	R900327370	M48 x 2	64	90	205	185	80 -0.015	55 -0.15	47	82 ⁵⁾	385	15.6	585	215.9
CGKA 100	R900327371	M64 x 3	86	110	240	240	100 -0.02	70 -0.2	57	116	660	28	865	319.2

- ØAL

= Piston Ø
- ØMM

= Piston rod Ø
- 1)

Grease nipple, cone head form A according to DIN 71412
- 2)

Bolt Ø h6 required
- 3)

Cannot be re-lubricated
- 4)

Can be re-lubricated via lubricating hole
- 5)

Dimensions may differ from the standard depending on the manufacturer
- 6)

M_A = tightening torque
- 7)

m = Weight of swivel head in kg
- 8)

C₀ = Static load rating of the swivel head
- 9)

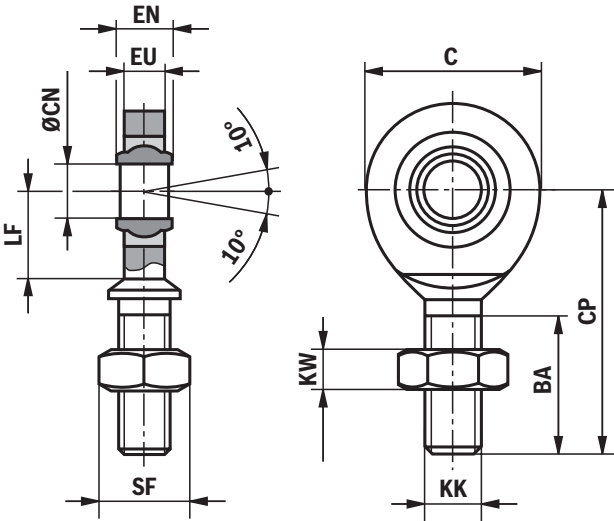
F_{adm} = Maximum admissible load of the swivel head with oscillatory or alternating loads

Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.


Dimensions: swivel head **CGKL** for CDL2 series
(dimensions in mm)

ISO 12240-4



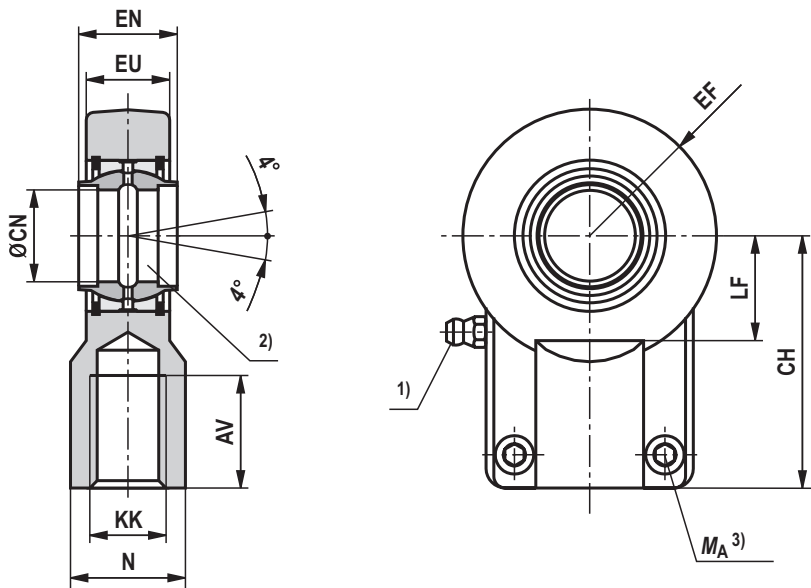
Series CDL2		Type	Material no.	KK	BA min.	C	ØCN -0.008	CP max.	EN h12	EU max.	KW	LF min.	SF	<i>m</i> ¹⁾ kg	<i>C</i> ₀ ²⁾ kN	<i>F</i> _{adm} ³⁾ kN
ØAL	ØMM															
25	14	CGKL 10	R901150690	M10	26	29	10	48	9	7.5	5	15	16	0.1	18	8.1
32	18	CGKL 12	R901150695	M12	28	34	12	54	10	8.5	6	18	18	0.1	30	11.2

- ØAL = Piston Ø
ØMM = Piston rod Ø
1) *m* = Weight of swivel head in kg
2) *C*₀ = Static load rating of the swivel head
3) *F*_{adm} = Maximum admissible load of the swivel head with oscillatory or alternating loads

 **Note:**
Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: swivel head CGKD (clampable) for series CDL2 and CDT3; CGT3; CST3
(dimensions in mm)

ISO 8132



Series CDL2		Series CDT3, CGT3, CST3		Type	Material no.		Nominal force kN	AV min.	N max.	CH js13	EF max.	ØCN H7 2)	EN h12	EU max.
ØAL	ØMM	ØAL	ØMM		Maintenance required 1)	Flat type grease nipple 4)								
40	22	—	—	CGKD 20	R900308576	R900308576	20	23	28	52	25	20	20	17.5
40	25	—	—	CGKD 25	R900323332	R901085733	32	29	31	65	32	25	25	22
50	28	—	—	CGKD 32	R900322049	R900322036	50	37	38	80	40	32	32	28
50	32	—	—											
63	36	—	—	CGKD 40	R900322029	R900851873	80	46	47	97	50	40	40	34
63	40	—	—											
80	45	—	—											
80	50	—	—	CGKD 50	R900322719	R900322033	125	57	58	120	63	50	50	42
100	63	—	—	CGKD 63	R900322028	R900322032	200	64	70	140	72.5	63	63	53.5
125	70	—	—											
125	80	—	—	CGKD 80	R900322700	R900322031	320	86	91	180	92	80	80	68
160	100	160	110	CGKD 100	R900322030	R900322034	500	96	110	210	114	100	100	85.5
		200												
200	125	200	125	CGKD 125	R900322026	R900322673	800	113	135	260	160	125	125	105

Dimensions: swivel head CGKD (clampable) for series CDL2 and CDT3; CGT3; CST3
(dimensions in mm)

Series CDL2		Type	KK 6H	LF min.	Clamping screw ISO 4762-10.9	M_A ³⁾ Nm	m ⁵⁾ kg	C_0 ⁶⁾ kN	F_{adm} ⁷⁾ kN
ØAL	ØMM								
40	22	CGKD 20	M16 x 1.5	20.5	M8 x 20	25	0.35	48	17.7
40	25	CGKD 25	M20 x 1.5	25.5	M8 x 20	30	0.65	78	28.8
50	28								
50	32	CGKD 32	M27 x 2	30	M10 x 25	59	1.15	114	42.1
63	36								
63	40	CGKD 40	M33 x 2	39	M10 x 30	59	2.1	204	75.3
80	45								
80	50	CGKD 50	M42 x 2	47	M12 x 35	100	4	310	114.4
100	56								
100	63	CGKD 63	M48 x 2	58	M16 x 40	250	7.2	430	158.7
125	70								
125	80	CGKD 80	M64 x 3	74	M20 x 50	490	15	695	265.5
160	100	CGKD 100	M80 x 3	94	M24 x 60	840	25.5	1060	391.1
200	125	CGKD 125	M100 x 3	116	M24 x 70	840	52.5	1430	527.7

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Bolt Ø m6 required

³⁾ M_A = Tightening torque in Nm

⁴⁾ Form A flat type grease nipple according to DIN 3404

⁵⁾ m = Weight of swivel head in kg

⁶⁾ C_0 = Static load rating of the swivel head in kN

⁷⁾ F_{adm} = Maximum admissible load of the swivel head in kN with oscillatory or alternating loads.

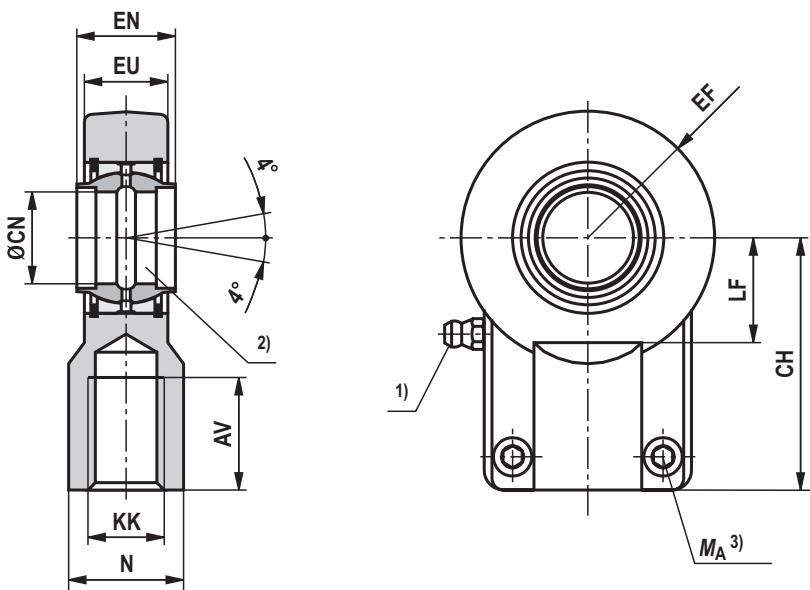


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.

Dimensions: swivel head CGKD (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

ISO 8132



Series				Type	Material no.		Nominal force kN	AV min.	N max.	CH js13	EF max.	ØCN H7 2)	EN h12	EU max.
CDH2, CGH2, CSH2	CDM1, CGM1, CSM1				Maintenance required 1)	Flat type grease nipple 4)								
ØAL	ØMM	ØAL	ØMM											
—	—	25	14 / 18	CGKD 12 5)	R900540998	—	8	17	19	38	16.5	12	12	11
—	—	25	18	CGKD 16	R900308559	—	12.5	19	22	44	20.5	16	16	14
		32	18 / 22											
—	—	32	22	CGKD 20	R900308576	—	20	23	28	52	25	20	20	17.5
		40	22 / 28											
40	25 / 28	40	28	CGKD 25	R900323332	R901085733	32	29	31	65	32	25	25	22
		50	28 / 36											
50	32 / 36	50	36	CGKD 32	R900322049	R900322036	50	37	38	80	40	32	32	28
		63	36 / 45											
63	40 / 45	63	45	CGKD 40	R900322029	R900851873	80	46	47	97	50	40	40	34
		80	45 / 56											
80	50 / 56	80	56	CGKD 50	R900322719	R900322033	125	57	58	120	63	50	50	42
		100	56 / 70											
100	63 / 70	100	70	CGKD 63	R900322028	R900322032	200	64	70	140	72.5	63	63	53.5
		125	70 / 90											
125	80 / 90	125	90	CGKD 80	R900322700	R900322031	320	86	91	180	92	80	80	68
		160	90 / 110											
140	90 / 100	—	—	CGKD 90 6)	R900325702	R900306574	400	91	100	195	101	90	90	72
160	100 / 110	160	110	CGKD 100	R900322030	R900322034	500	96	110	210	114	100	100	85.5
		200	110 / 140											
180	110 / 125	—	—	CGKD 110 6)	R900308153	R900324828	635	106	125	235	129	110	110	88
200	125 / 140	200	140	CGKD 125	R900322026	R900322673	800	113	135	260	160	125	125	105
220	140 / 160	—	—	CGKD 160	R900300718	R900541728	1,520	126	165	310	200	160	160	133
250	160 / 180	—	—											
280	180 / 200	—	—	CGKD 200	R900324814	R900300058	2,000	161	215	390	250	200	200	165
320	200 / 220	—	—											

Dimensions: swivel head CGKD (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1 (dimensions in mm)

Series				Type	KK 6H	LF min.	Clamping screw ISO 4762-10.9	$M_A^{3)}$ Nm	$m^{7)}$ kg	$C_0^{8)}$ kN	$F_{adm}^{9)}$ kN
CDH2, CGH2, CSH2		CDM1, CGM1, CSM1									
ØAL	ØMM	ØAL	ØMM								
—	—	25	14 / 18	CGKD 12 ⁵⁾	M12 x 1.25	13	M5 x 16	6	0.1	24.5	9.0
—	—	25	18	CGKD 16	M14 x 1.5	16.5	M6x14	10	0.2	36.5	13.5
		32	18 / 22								
—	—	32	22	CGKD 20	M16 x 1.5	20.5	M8 x 20	25	0.35	48	17.7
		40	22 / 28								
40	25 / 28	40	28	CGKD 25	M20 x 1.5	25.5	M8 x 20	30	0.65	78	28.8
		50	28 / 36								
50	32 / 36	50	36	CGKD 32	M27 x 2	30	M10 x 25	59	1.15	114	42.1
		63	36 / 45								
63	40 / 45	63	45	CGKD 40	M33 x 2	39	M10 x 30	59	2.1	204	75.3
		80	45 / 56								
80	50 / 56	80	56	CGKD 50	M42 x 2	47	M12 x 35	100	4	310	114.4
		100	56 / 70								
100	63 / 70	100	70	CGKD 63	M48 x 2	58	M16 x 40	250	7.2	430	158.7
		125	70 / 90								
125	80 / 90	125	90	CGKD 80	M64 x 3	74	M20 x 50	490	15	695	265.5
		160	90 / 110								
140	90 / 100	—	—	CGKD 90 ⁶⁾	M72 x 3	85	M20 x 60	490	19	750	276.8
160	100 / 110	160	110	CGKD 100	M80 x 3	94	M24 x 60	840	25.5	1060	391.1
		200	110 / 140								
180	110 / 125	—	—	CGKD 110 ⁶⁾	M90 x 3	105	M24 x 60	840	36.5	1200	442.8
200	125 / 140	200	140	CGKD 125	M100 x 3	116	M24 x 70	840	52.5	1430	527.7
220	140 / 160	—	—	CGKD 160	M125 x 4	145	M24 x 80	840	82.5	2200	811.8
250	160 / 180	—	—								
280	180 / 200	—	—	CGKD 200	M160 x 4	190	M30 x 100	1700	168	3650	1346.9
320	200 / 220	—	—								

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Bolt Ø m6 required

³⁾ M_A = Tightening torque

⁴⁾ Form A flat type grease nipple according to DIN 3404

⁵⁾ Bearing cannot be re-lubricated

⁶⁾ Not contained in the standard

⁷⁾ m = Weight of swivel head in kg

⁸⁾ C_0 = Static load rating of the swivel head

⁹⁾ F_{adm} = Maximum admissible load of the swivel head with oscillatory or alternating loads



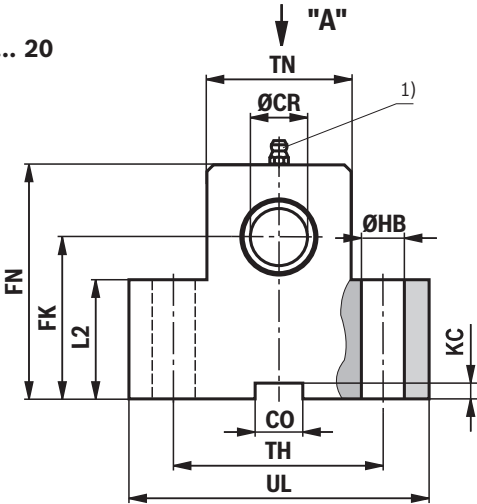
Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.

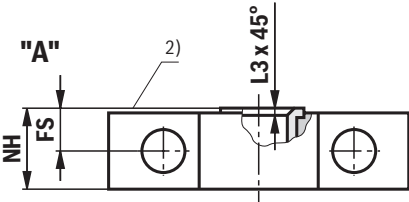
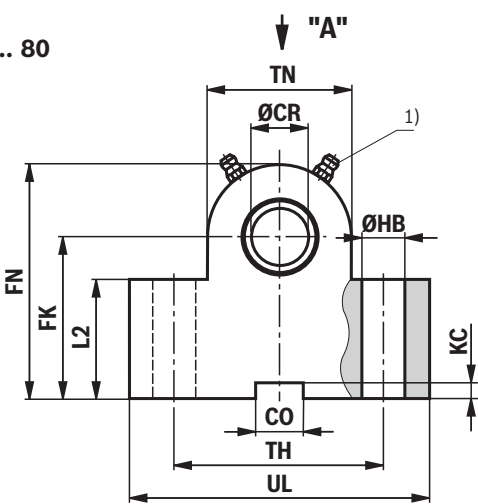
Dimensions: trunnion mounting bearing block CLTB for series CDL2
(dimensions in mm)

ISO 8132

CLTB 12 ... 20



CLTB 25 ... 80



Series CDL2		Type ³⁾	Material no. Maintenance required ¹⁾	Nominal force kN ⁴⁾	ØCR H7	CO N9	FK JS12	FN max.	FS js13	ØHB H13
ØAL	ØMM									
25	14	CLTB 12	R900772607	8	12	10	34	50	8	9
32	18	CLTB 16	R900772608	12.5	16	16	40	60	10	11
40	22	CLTB 20	R900772609	20	20	16	45	70	10	11
40	25	CLTB 25	R900772610	32	25	25	55	80	12	13.5
50	28									
50	32	CLTB 32	R900772611	50	32	25	65	100	15	17.5
63	36									
63	40	CLTB 40	R900772612	80	40	36	76	120	16	22
80	45									
80	50	CLTB 50	R900772613	125	50	36	95	140	20	26
100	56									
100	63	CLTB 63	R900772614	200	63	50	112	180	25	33
125	70									
125	80	CLTB 80	R900772615	320	80	50	140	220	31	39

Dimensions: trunnion mounting bearing block CLTB for series CDL2 (dimensions in mm)

Series CDL2		Type ⁵⁾	KC +0.3	TN	L2	L3	NH max.	TH js13	UL max.	m ⁶⁾ kg
ØAL	ØMM									
25	14	CLTB 12	3.3	24	25	1	17	40	63	0.4
32	18	CLTB 16	4.3	31	30	1	21	50	80	0.85
40	22	CLTB 20	4.3	41	38	1.5	21	60	90	1.2
40	25	CLTB 25	5.4	56	45	1.5	26	80	110	2.1
50	28									
50	32	CLTB 32	5.4	70	52	2	33	110	150	4.55
63	36									
63	40	CLTB 40	8.4	88	60	2.5	41	125	170	7.3
80	45									
80	50	CLTB 50	8.4	105	75	2.5	51	160	210	14.5
100	56									
100	63	CLTB 63	11.4	130	85	3	61	200	265	23.1
125	70									
125	80	CLTB 80	11.4	170	112	3.5	81	250	325	52.3

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Trunnion mounting contact surface (inside)

³⁾ Bearing blocks are always supplied in pairs

⁴⁾ Nominal force applies to applications in pairs

⁵⁾ Bearing blocks are always supplied in pairs

⁶⁾ **m** = Weight of trunnion mounting bearing block in kg
(specified per pair)



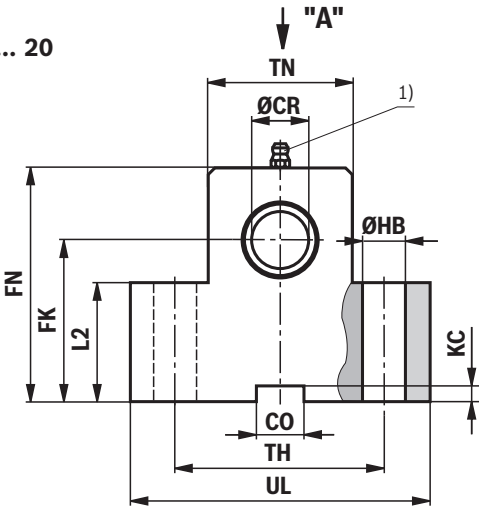
Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The trunnion mounting bearing blocks are suitable for attachment with MT4 type of mounting.

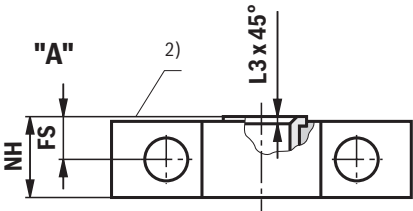
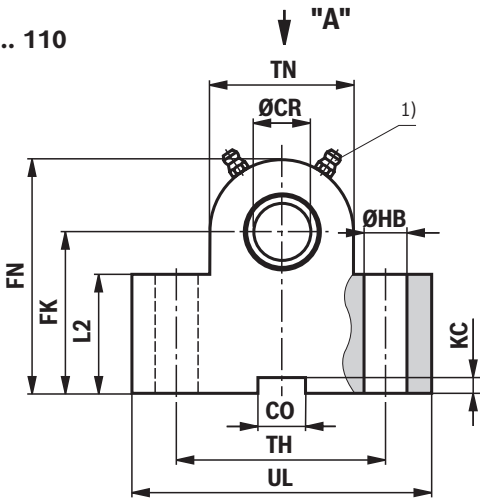
Dimensions: trunnion mounting bearing block CLTB for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

ISO 8132

CLTB 12 ... 20



CLTB 25 ... 110



Series		Type ³⁾	Material no. Maintenance required ¹⁾	Nominal force kN ⁴⁾	ØCR H7	CO N9	FK JS12	FN max.	FS js13	ØHB H13	KC +0.3
CDH2, CGH2, CSH2 ØAL	CDM1, CGM1, CSM1 ØAL										
–	25	CLTB 12	R900772607	8	12	10	34	50	8	9	3.3
–	32	CLTB 16	R900772608	12.5	16	16	40	60	10	11	4.3
–	40	CLTB 20	R900772609	20	20	16	45	70	10	11	4.3
40	50	CLTB 25	R900772610	32	25	25	55	80	12	13.5	5.4
50	63	CLTB 32	R900772611	50	32	25	65	100	15	17.5	5.4
63	80	CLTB 40	R900772612	80	40	36	76	120	16	22	8.4
80	100	CLTB 50	R900772613	125	50	36	95	140	20	26	8.4
100	125	CLTB 63	R900772614	200	63	50	112	180	25	33	11.4
125	160	CLTB 80	R900772615	320	80	50	140	220	31	39	11.4
140	–	CLTB 90	R901364220 ⁶⁾	385	90	63	160	250	40	45	12.4
160	200	CLTB 100	R901205929 ⁶⁾	500	100	63	180	280	45	52	12.4
180	–	CLTB 110	R901364223 ⁶⁾	630	110	80	200	310	50	52	15.4
200	–	CLTB 125	R901363022 ⁶⁾	785	125	80	220	345	56	45	15.4

Dimensions: trunnion mounting bearing block CLTB for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

Series		Type ³⁾	TN max.	L2	L3	NH max.	TH js13	UL max.	m ⁵⁾ kg
CDH2, CGH2, CSH2 ØAL	CDM1, CGM1, CSM1 ØAL								
—	25	CLTB 12	24	25	1	17	40	63	0.4
—	32	CLTB 16	31	30	1	21	50	80	0.85
—	40	CLTB 20	41	38	1.5	21	60	90	1.2
40	50	CLTB 25	56	45	1.5	26	80	110	2.1
50	63	CLTB 32	70	52	2	33	110	150	4.55
63	80	CLTB 40	88	60	2.5	41	125	170	7.3
80	100	CLTB 50	105	75	2.5	51	160	210	14.5
100	125	CLTB 63	130	85	3	61	200	265	23.1
125	160	CLTB 80	170	112	3.5	81	250	325	52.3
140	—	CLTB 90	190	130	4	91	265	345	⁶⁾
160	200	CLTB 100	215	145	4.5	102	295	385	⁶⁾
180	—	CLTB 110	240	160	5	112	320	410	⁶⁾
200	—	CLTB 125	⁶⁾	⁶⁾	⁶⁾	132	385	570	⁶⁾

ØAL = Piston Ø

- 1) Grease nipple, cone head form A according to DIN 71412
- 2) Trunnion mounting contact surface (inside)
- 3) Bearing blocks are always supplied in pairs
- 4) Nominal force applies to applications in pairs
- 5) **m** = Weight of trunnion mounting bearing block in kg (specified per pair)
- 6) On request

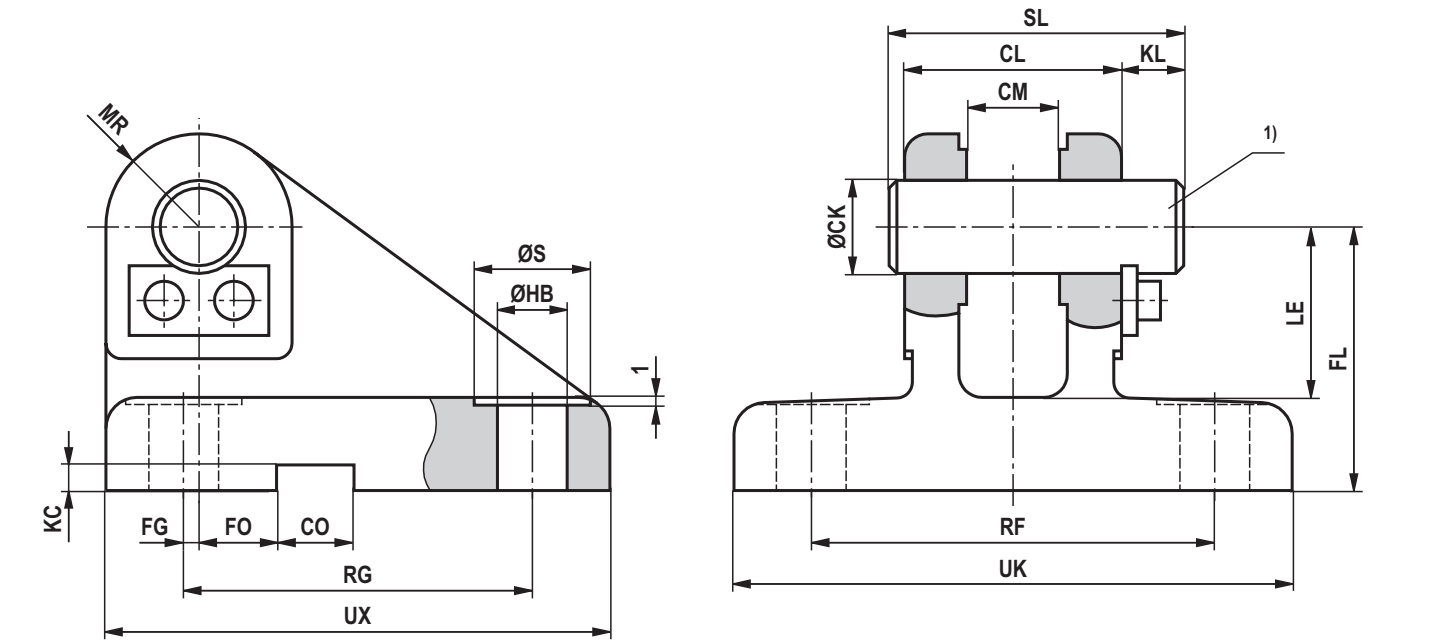


Note!

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The trunnion mounting bearing blocks are suitable for attachment with "MT4" type of mounting.

Dimensions: clevis bracket CLCA (clampable) for series CDL2 and CDT3; CGT3; CST3 (dimensions in mm)

ISO 8132



Series CDL2		Series CDT3, CGT3, CST3		Type	Material no.	Nominal force kN	ØCK H9 1)	CL h16	CM A13	CO N9	FG JS14	FL js13	FO JS14	ØHB H13
ØAL	ØMM	ØAL	ØMM											
25	14	—	—	CLCA 10 2)	R901204724 3)	5	10	24	10	8	2	32	10	6.6
32	18	—	—	CLCA 12 2)	R900542861	8	12	28	12	10	2	34	10	9
40	22	—	—	CLCA 20	R900542863	20	20	45	20	16	7.5	45	10	11
40	25	—	—	CLCA 25	R900542864	32	25	56	25	25	10	55	10	13.5
50	28	—	—											
50	32	—	—	CLCA 32	R900542865	50	32	70	32	25	14.5	65	6	17.5
63	36	—	—											
63	40	—	—	CLCA 40	R900542866	80	40	90	40	36	17.5	76	6	22
80	45	—	—											
80	50	—	—	CLCA 50	R900542867	125	50	110	50	36	25	95	0	26
100	56	—	—											
100	63	—	—	CLCA 63	R900542868	200	63	140	63	50	33	112	0	33
125	70	—	—											
125	80	—	—	CLCA 80	R900542869	320	80	170	80	50	45	140	0	39
160	100	160	110	CLCA 100	R901261098 3)	500	100	210	100	63	52.5	180	0	52
		200												
200	125	200	140	CLCA 125	R901373011 3)	800	125	270	125	80	75	230	0	52

Dimensions: clevis bracket CLCA (clampable) for series CDL2 and CDT3; CGT3; CST3
(dimensions in mm)

Series CDL2		Series CDT3, CGT3, CST3		Type	KC +0.3	KL	LE min.	MR max.	RF js13	RG js13	ØS	SL	UK max.	UX max.	m ⁴⁾ kg
ØAL	ØMM	ØAL	ØMM												
25	14	—	—	CLCA 10 ²⁾	3.3	8	22	10	39	44	11	34	56	60	0.33
32	18	—	—	CLCA 12 ²⁾	3.3	8	22	12	52	45	15	38	72	65	0.45
40	22	—	—	CLCA 20	4.3	10	30	20	75	70	18	58	100	95	1.5
40	25	—	—	CLCA 25	5.4	10	37	25	90	85	20	69	120	115	3
50	28	—	—												
50	32	—	—	CLCA 32	5.4	13	43	32	110	110	26	87	145	145	4.5
63	36	—	—												
63	40	—	—	CLCA 40	8.4	16	52	40	140	125	33	110	185	170	8.5
80	45	—	—												
80	50	—	—	CLCA 50	8.4	19	65	50	165	150	40	133	215	200	13.5
100	56	—	—												
100	63	—	—	CLCA 63	11.4	20	75	63	210	170	48	164	270	230	23.4
125	70	—	—												
125	80	—	—	CLCA 80	11.4	26	95	80	250	210	57	202	320	280	38.5
160	100	160	110	CLCA 100	12.4	30	120	100	315	250	76	246	405	345	99.2
		200													
200	125	200	140	CLCA 125	15.4	32	170	125	365	350	76	310	455	450	174.1

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Bolt Ø m6 required

(bolt and bolt lock are included in the scope of delivery and not mounted on delivery)

²⁾ 2 washers for mounting required

► For CLCA 10: washer DIN 988 10x16x0.5

Material no. R900061310

► For CLCA 12: washer DIN 988 12x18x1

Material no. R900006948

³⁾ On request

⁴⁾ **m** = Weight of clevis bracket in kg

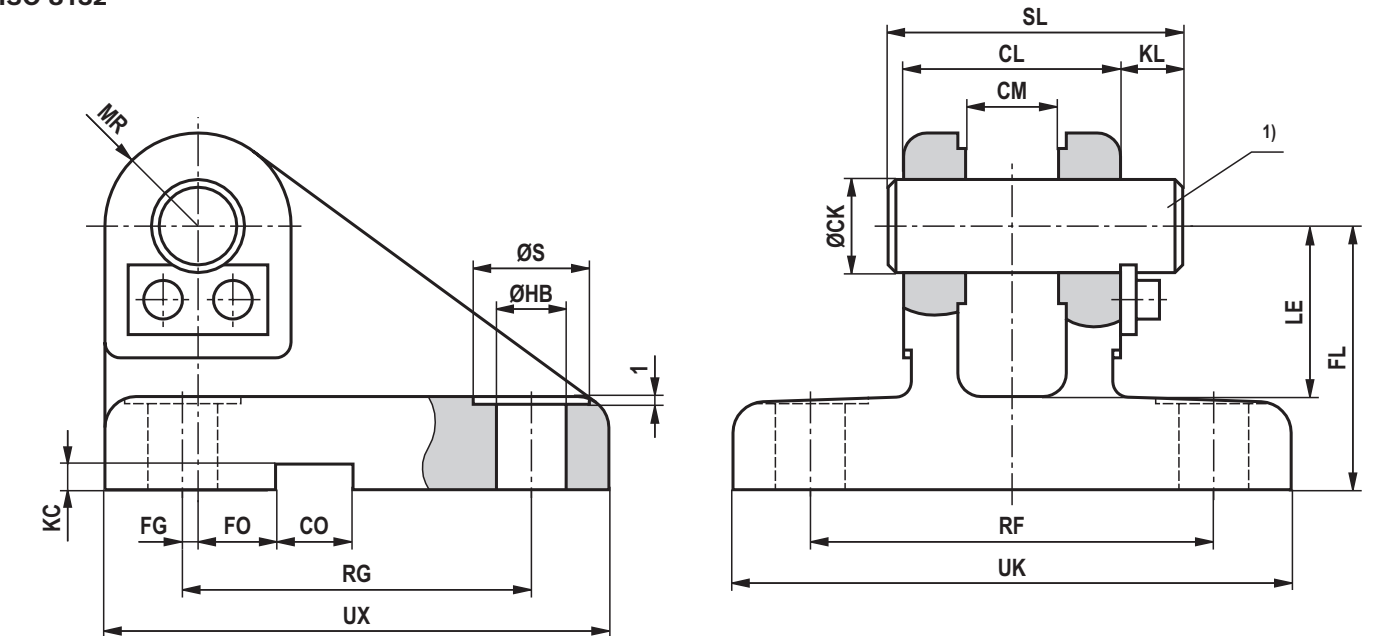


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The clevis brackets are suitable for attachment with "MP5" type of mounting and on the swivel head.

Dimensions: clevis bracket CLCA (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

ISO 8132



Series				Type	Material no.	Nominal force kN	ØCK H9 1)	CL h16	CM A13	CO N9	FG JS14	FL js13	FO JS14
CDH2, CGH2, CSH2 ØAL	CDH2, CGH2, CSH2 ØMM	CDM1, CGM1, CSM1 ØAL	CDM1, CGM1, CSM1 ØMM										
—	—	25	14 / 18	CLCA 12	R900542861	8	12	28	12	10	2	34	10
—	—	25	18	CLCA 16	R900542862	12.5	16	36	16	16	3.5	40	10
		32	18 / 22										
—	—	32	22	CLCA 20	R900542863	20	20	45	20	16	7.5	45	10
		40	22 / 28										
40	25 / 28	40	28	CLCA 25	R900542864	32	25	56	25	25	10	55	10
		50	28 / 36										
50	32 / 36	50	36	CLCA 32	R900542865	50	32	70	32	25	14.5	65	6
		63	36 / 45										
63	40 / 45	63	45	CLCA 40	R900542866	80	40	90	40	36	17.5	76	6
		80	45 / 56										
80	50 / 56	80	56	CLCA 50	R900542867	125	50	110	50	36	25	95	0
		100	56 / 70										
100	63 / 70	100	70	CLCA 63	R900542868	200	63	140	63	50	33	112	0
		125	70 / 90										
125	80 / 90	125	90	CLCA 80	R900542869	320	80	170	80	50	45	140	0
		160	90 / 110										
140	90 / 100	—	—	CLCA 90	R901373007 3)	400	90	190	90	63	47.5	160	0
160	100 / 110	160	110	CLCA 100	R901261098 3)	500	100	210	100	63	52.5	180	0
		200	110 / 140										
180	110 / 125	—	—	CLCA 110	R901373008 3)	635	110	240	110	80	62.5	200	0
200	125 / 140	200	140	CLCA 125	R901373011 3)	800	125	270	125	80	75	230	0

Dimensions: clevis bracket CLCA (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

Series				Type	ØHB H13	KC +0.3	KL	LE min.	MR max.	RF js13	RG js13	ØS	SL	UK max.	UX max.	m ²⁾ kg
CDH2, CGH2, CSH2 ØAL	ØMM	CDM1, CGM1, CSM1 ØAL	ØMM													
–	–	25	14 / 18	CLCA 12	9	3.3	8	22	12	52	45	15	38	72	65	0.45
–	–	25	18	CLCA 16	11	4.3	8	27	16	65	55	18	46	90	80	1
		32	18 / 22													
–	–	32	22	CLCA 20	11	4.3	10	30	20	75	70	18	58	100	95	1.5
		40	22 / 28													
40	25 / 28	40	28	CLCA 25	13.5	5.4	10	37	25	90	85	20	69	120	115	3
		50	28 / 36													
50	32 / 36	50	36	CLCA 32	17.5	5.4	13	43	32	110	110	26	87	145	145	5
		63	36 / 45													
63	40 / 45	63	45	CLCA 40	22	8.4	16	52	40	140	125	33	110	185	170	9.6
		80	45 / 56													
80	50 / 56	80	56	CLCA 50	26	8.4	19	65	50	165	150	40	133	215	200	15.5
		100	56 / 70													
100	63 / 70	100	70	CLCA 63	33	11.4	20	75	63	210	170	48	164	270	230	27.5
		125	70 / 90													
125	80 / 90	125	90	CLCA 80	39	11.4	26	95	80	250	210	57	202	320	280	47
		160	90 / 110													
140	90 / 100	–	–	CLCA 90	45	12.4	28	108	90	280	235	66	224	360	320	³⁾
160	100 / 110	160	110	CLCA 100	52	12.4	30	120	100	315	250	76	246	405	345	³⁾
		200	110 / 140													
180	110 / 125	–	–	CLCA 110	52	15.4	31	138	110	335	305	76	277	425	400	³⁾
200	125 / 140	200	140	CLCA 125	52	15.4	32	170	125	365	350	76	310	455	450	³⁾

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Bolt Ø m6 required
(bolt and bolt lock are included in the scope of delivery and are not mounted upon delivery)

²⁾ **m** = Weight of clevis bracket in kg

³⁾ On request

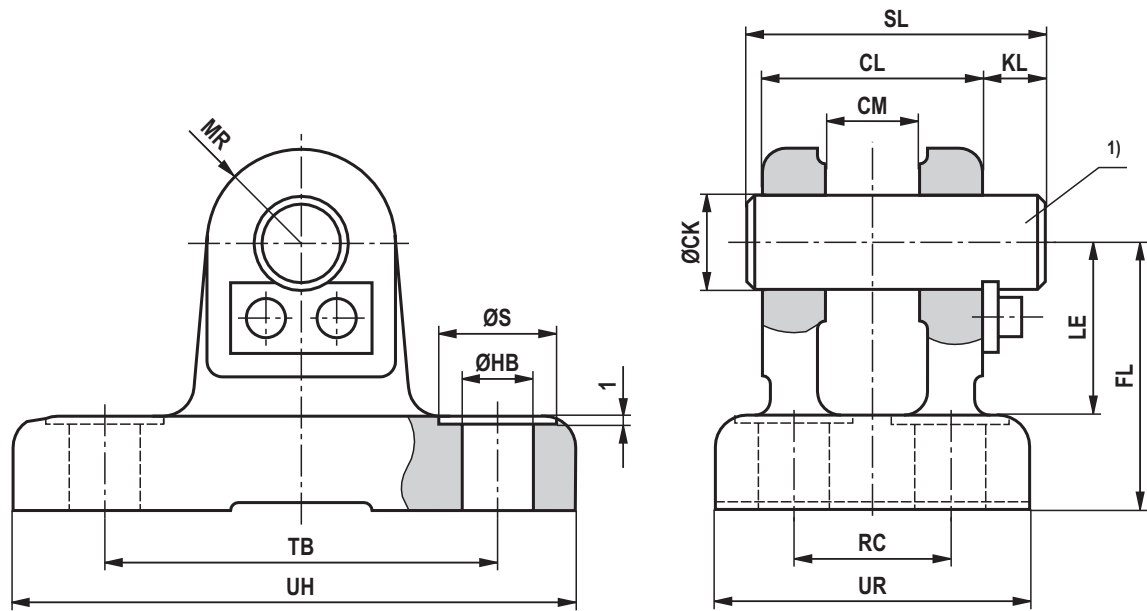


Note!

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: clevis bracket CLCD (clampable) for series CDL2 and CDT3; CGT3; CST3 (dimensions in mm)

ISO 8132



Series CDL2		Series CDT3, CGT3, CST3		Type	Material no.	Nominal force kN	ØCK H9 ¹⁾	CL h16	CM A13	FL JS12	ØHB H13	KL	LE min.
ØAL	ØMM	ØAL	ØMM										
25	14	—	—	CLCD 10 ²⁾	³⁾	5	10	24	10	32	6.6	8	22
32	18	—	—	CLCD 12 ²⁾	R900542879	8	12	28	12	34	9	8	22
40	22	—	—	CLCD 20	R900542881	20	20	45	20	45	11	10	30
40	25	—	—	CLCD 25	R900542882	32	25	56	25	55	13.5	10	37
50	28	—	—										
50	32	—	—	CLCD 32	R900542883	50	32	70	32	65	17.5	13	43
63	36	—	—										
63	40	—	—	CLCD 40	R900542884	80	40	90	40	76	22	16	52
80	45	—	—										
80	50	—	—	CLCD 50	R900542885	125	50	110	50	95	26	19	65
100	56	—	—										
100	63	—	—	CLCD 63	R900542886	200	63	140	63	112	33	20	75
125	70	—	—										
125	80	—	—	CLCD 80	R900542887	320	80	170	80	140	39	26	95
160	100	160	110	CLCD 100	³⁾	500	100	210	100	180	45	30	120
		200											
200	125	200	140	CLCD 125	³⁾	800	125	270	125	230	52	32	170

Dimensions: clevis bracket CLCD (clampable) for series CDL2 and CDT3; CGT3; CST3
(dimensions in mm)

Series CDL2		Type	MR max.	RC JS14	ØS	SL	TB JS14	UR max.	UH max.	m ⁴⁾ kg
ØAL	ØMM									
25	14	CLCD 10 ²⁾	10	17	11	34	42	33	60	0.27
32	18	CLCD 12 ²⁾	12	20	15	38	50	40	70	0.35
40	22	CLCD 20	20	32	18	58	75	58	98	0.95
40	25	CLCD 25	25	40	20	69	85	70	113	1.9
50	28									
50	32	CLCD 32	32	50	26	87	110	85	143	3
63	36									
63	40	CLCD 40	40	65	33	110	130	108	170	5.5
80	45									
80	50	CLCD 50	50	80	40	133	170	130	220	10.6
100	56									
100	63	CLCD 63	63	100	48	164	210	160	270	17
125	70									
125	80	CLCD 80	80	125	57	202	250	210	320	32
160	100	CLCD 100	100	160	66	246	315	260	400	74
200	125	CLCD 125	125	200	76	310	385	320	470	129

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Bolt Ø m6 required

(bolt and bolt lock are included in the scope of delivery and not mounted on delivery)

²⁾ 2 washers for mounting required

► For CLCD 10: washer DIN 988 10x16x0.5
Material no. R900061310

► For CLCD 12: washer DIN 988 12x18x1
Material no. R900006948

³⁾ On request

⁴⁾ **m** = Weight of clevis bracket in kg

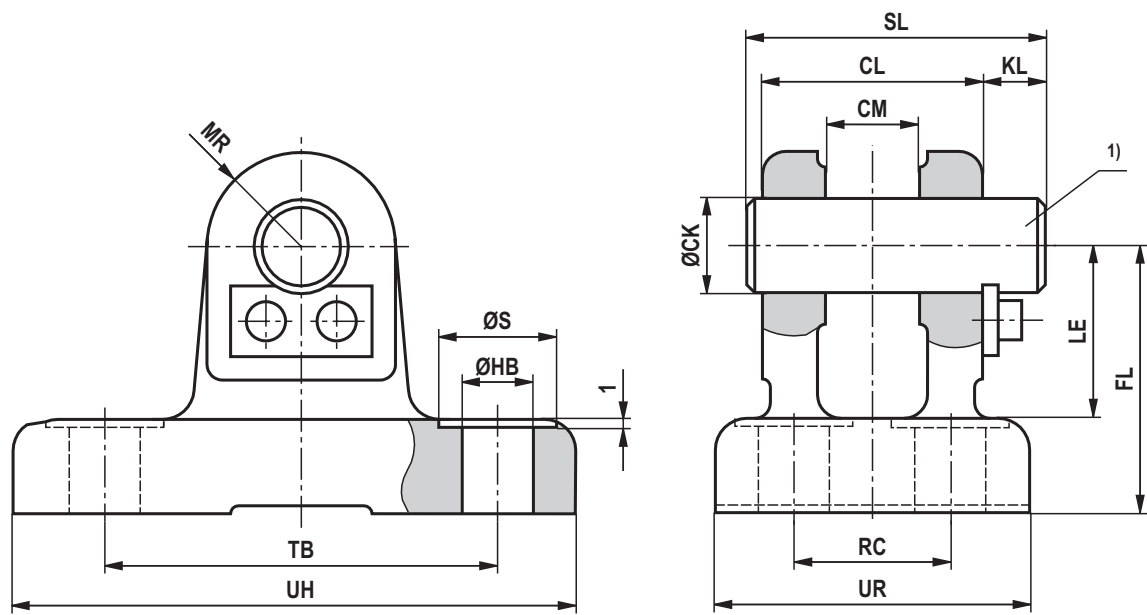


Note:

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked. The clevis brackets are suitable for attachment with "MP5" type of mounting and on the swivel head.

Dimensions: clevis bracket CLCD (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

ISO 8132



Series				Type	Material no.	Nominal force kN	ØCK H9 1)	CL h16	CM A13	FL JS12	ØHB H13	KL
CDH2, CGH2, CSH2 ØAL	ØMM	CDM1, CGM1, CSM1 ØAL	ØMM									
–	–	25	14 / 18	CLCD 12	R900542879	8	12	28	12	34	9	8
–	–	25	18	CLCD 16	R900542880	12.5	16	36	16	40	11	8
		32	18 / 22									
–	–	32	22	CLCD 20	R900542881	20	20	45	20	45	11	10
		40	22 / 28									
40	25 / 28	40	28	CLCD 25	R900542882	32	25	56	25	55	13.5	10
		50	28 / 36									
50	32 / 36	50	36	CLCD 32	R900542883	50	32	70	32	65	17.5	13
		63	36 / 45									
63	40 / 45	63	45	CLCD 40	R900542884	80	40	90	40	76	22	16
		80	45 / 56									
80	50 / 56	80	56	CLCD 50	R900542885	125	50	110	50	95	26	19
		100	56 / 70									
100	63 / 70	100	70	CLCD 63	R900542886	200	63	140	63	112	33	20
		125	70 / 90									
125	80 / 90	125	90	CLCD 80	R900542887	320	80	170	80	140	39	26
		160	90 / 110									
140	90 / 100	–	–	CLCD 90	2)	400	90	190	90	160	45	28
160	100 / 110	160	110	CLCD 100	2)	500	100	210	100	180	45	30
		200	110 / 140									
180	110 / 125	–	–	CLCD 110	2)	635	110	240	110	200	52	31
200	125 / 140	200	140	CLCD 125	2)	800	125	270	125	230	52	32

Dimensions: clevis bracket CLCD (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

Series				Type	LE min.	MR max.	RC JS14	ØS	SL	TB JS14	UR max.	UH max.	m ³⁾ kg
CDH2, CGH2, CSH2 ØAL	ØMM	CDM1, CGM1, CSM1 ØAL	ØMM										
–	–	25	14 / 18	CLCD 12	22	12	20	15	38	50	40	70	0.35
–	–	25	18	CLCD 16	27	16	26	18	46	65	50	90	0.7
		32	18 / 22										
–	–	32	22	CLCD 20	30	20	32	18	58	75	58	98	0.95
		40	22 / 28										
40	25 / 28	40	28	CLCD 25	37	25	40	20	69	85	70	113	1.9
		50	28 / 36										
50	32 / 36	50	36	CLCD 32	43	32	50	26	87	110	85	143	3
		63	36 / 45										
63	40 / 45	63	45	CLCD 40	52	40	65	33	110	130	108	170	5.5
		80	45 / 56										
80	50 / 56	80	56	CLCD 50	65	50	80	40	133	170	130	220	10.6
		100	56 / 70										
100	63 / 70	100	70	CLCD 63	75	63	100	48	164	210	160	270	17
		125	70 / 90										
125	80 / 90	125	90	CLCD 80	95	80	125	57	202	250	210	320	32
		160	90 / 110										
140	90 / 100	–	–	CLCD 90	108	90	140	66	224	290	230	370	2)
160	100 / 110	160	110	CLCD 100	120	100	160	66	246	315	260	400	2)
		200	110 / 140										
180	110 / 125	–	–	CLCD 110	138	110	180	76	277	350	290	445	2)
200	125 / 140	200	140	CLCD 125	170	125	200	76	310	385	320	470	2)

ØAL = Piston Ø

ØMM = Piston rod Ø

1) Bolt Ø m6 required
(bolt and bolt lock are included in the scope of delivery and are not mounted upon delivery)

2) On request

3) **m** = Weight of clevis bracket in kg

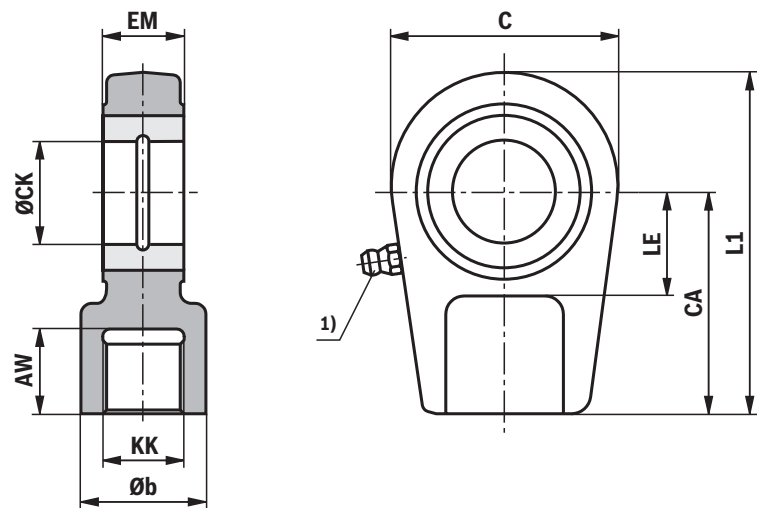


Note!

Geometry and dimensions may differ depending on the manufacturer. In case of combination with other mounting elements, the usability must be checked.

Dimensions: plain clevis CSA for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3
(dimensions in mm)

AL-Ø 40 ... 200 mm



Series		Type	Material no.		AW	Øb	C	CA	ØCK H11	EM -0.4
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL		Maintenance required ¹⁾	Flat type grease nipple ²⁾						
40	—	CSA 16	R900303150	R901034140	17	28	56	50	25	23
50	40	CSA 22	R900303151	R900781659	23	34	64	60	30	28
63	50	CSA 28	R900303152	R901034141	29	44	78	70	35	30
80	63	CSA 35	R900303153	R901034142	36	55	94	85	40	35
100	80	CSA 45	R900303154	R901034147	46	70	116	105	50	40
125	100	CSA 58	R900303155	R900893465	59	87	130	130	60	50
140	125	CSA 65	R900303156	R900897513	66	93	154	150	70	55
160	140	CSA 80	R900303157	R901034151	81	125	176	170	80	60
180	160	CSA100	R900303158	R901034184	101	143	206	210	90	65
200	180	CSA110	R900303159	R901034185	111	153	230	235	100	70
—	200	CSA120	R900303160	R901034187	125	176	265	265	110	80

Dimensions: plain clevis CSA for series CDH1; CGH1/CSH1 and CDH3/CGH3/CSH3
(dimensions in mm)

Series		Type	KK	LE	L1	m ³⁾ kg	C_0 ⁴⁾ kN	F_{adm} ⁵⁾ kN
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL							
40	—	CSA 16	M16 x 1.5	25	80	0.43	72	25.9
50	40	CSA 22	M22 x 1.5	30	94	0.7	106	38.2
63	50	CSA 28	M28 x 1.5	40	112	1.1	153	55.1
80	63	CSA 35	M35 x 1.5	45	135	2.0	250	90.0
100	80	CSA 45	M45 x 1.5	55	168	3.3	365	131.4
125	100	CSA 58	M58 x 1.5	65	200	5.5	400	144.0
140	125	CSA 65	M65 x 1.5	75	232	8.6	540	194.4
160	140	CSA 80	M80 x 2	80	265	12.2	670	241.2
180	160	CSA100	M100 x 2	90	323	21.5	980	352.8
200	180	CSA110	M110 x 2	105	360	27.5	1120	403.2
—	200	CSA120	M120 x 3	115	407.5	40.7	1700	612.0

ØAL = Piston Ø

1) Grease nipple, cone head form A according to DIN 71412

2) Form A flat type grease nipple according to DIN 3404

3) m = Weight of plain clevis in kg

4) C_0 = Static load rating of the plain clevis

5) F_{adm} = Maximum admissible load of the plain clevis with oscillatory or alternating loads



Note:

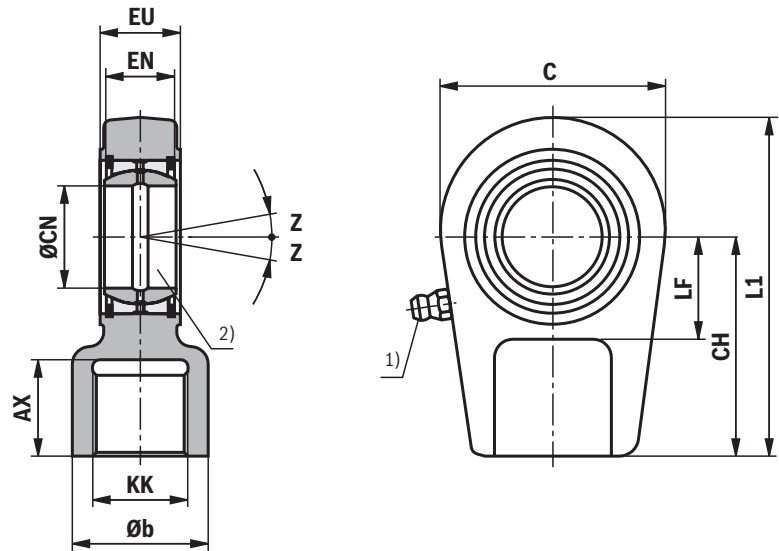
The specified dimensions are maximum values and may differ depending on the manufacturer.

Excluded values: CA, CK, EM, KK.

The plain clevis always has to be screwed against the piston rod shoulder.

Dimensions: swivel head CGA for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3
(dimensions in mm)

AL-Ø 40 ... 280 mm



Series		Type	Material no.			AX min.	Øb max.	C	CH	ØCN ³⁾	EN	EU -0.4
CDH1 CGH1 CSH1 ØAL	CDH3 CGH3 CSH3 ØAL		Maintenance required ¹⁾	Maintenance- free	Flat type grease nipple ²⁾							
40	—	CGA 16	R900303125	R900322702	R900325707	17	26	56	50	25 _{-0.010}	20 _{-0.12}	23
50	40	CGA 22	R900303126	R900321695	R900325708	23	33	64	60	30 _{-0.010}	22 _{-0.12}	28
63	50	CGA 28	R900303127	R900321653	R900324343	29	41	78	70	35 _{-0.012}	25 _{-0.12}	30
80	63	CGA 35	R900303128	R900321694	R900541731	36	50	94	85	40 _{-0.012}	28 _{-0.12}	35
100	80	CGA 45	R900303129	R900321667	R900542335	46	62	116	105	50 _{-0.012}	35 _{-0.12}	40
125	100	CGA 58	R900303130	R900321693	R900324825	59	76	130	130	60 _{-0.015}	44 _{-0.15}	50
140	125	CGA 65	R900303131	R900323345	R900324826	66	87	154	150	70 _{-0.015}	49 _{-0.15}	55
160	140	CGA 80	R900303132	R900321669	R900541732	81	106	176	170	80 _{-0.015}	55 _{-0.15}	60
180	160	CGA100	R900303133	R900323349	R900541730	101	125	206	210	90 _{-0.020}	60 _{-0.20}	65
200	180	CGA110	R900303134	R900868406	R900300715	111	139	230	235	100 _{-0.020}	70 _{-0.20}	70
220	200	CGA120	R900303135	R900321668	R900300716	125	153	265	265	110 _{-0.020}	70 _{-0.20}	80
250	220	CGA120	R900303135	R900321668	R900300716	125	153	265	265	110 _{-0.020}	70 _{-0.20}	80
280	250	CGA130	R900303136	—	R901034191	135	173	340	310	120 _{-0.020}	85 _{-0.20}	90

Dimensions: swivel head CGA for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3
(dimensions in mm)

Series		Type	KK	L1	LF min.	Z	m ⁴⁾ kg	C_0 ⁵⁾ kN	F_{adm} ⁶⁾ kN
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL								
40	—	CGA 16	M16 x 1.5	80	28	7 °	0.43	72	25.9
50	40	CGA 22	M22 x 1.5	94	30	6 °	0.7	106	38.2
63	50	CGA 28	M28 x 1.5	112	38	6 °	1.1	153	55.1
80	63	CGA 35	M35 x 1.5	135	45	7 °	2.0	250	90.0
100	80	CGA 45	M45 x 1.5	168	55	6 °	3.3	365	131.4
125	100	CGA 58	M58 x 1.5	200	65	6 °	5.5	400	144.0
140	125	CGA 65	M65 x 1.5	232	75	6 °	8.6	540	194.4
160	140	CGA 80	M80 x 2	265	80	6 °	12.2	670	241.2
180	160	CGA100	M100 x 2	323	90	5 °	21.5	980	352.8
200	180	CGA110	M110 x 2	360	105	7 °	27.5	1120	403.2
220	200	CGA120	M120 x 3	407.5	115	6 °	40.7	1700	612.0
250	220	CGA120	M120 x 3	407.5	115	6 °	40.7	1700	612.0
280	250	CGA130	M130 x 3	490	140	6 °	76.4	2900	1044.0

ØAL = Piston Ø

- 1) Grease nipple, cone head form A according to DIN 71412;
not applicable to spherical bearing, maintenance-free "A"
- 2) Form A flat type grease nipple according to DIN 3404
- 3) Bolt Ø m6 required;
Bolt Ø j6 required with maintenance-free spherical bearing
- 4) m = Weight of swivel head in kg
- 5) C_0 = Static load rating of the swivel head
- 6) F_{adm} = Maximum admissible load of the swivel head with
oscillatory or alternating loads



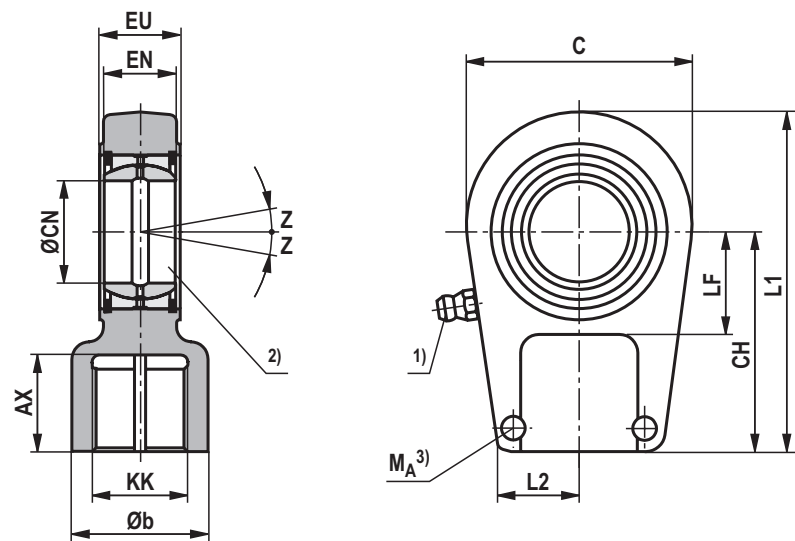
Note:

The specified dimensions are maximum values
and may differ depending on the manufacturer.
Excluded values: CH, CN, EN, EU, KK.

The swivel head must always be screwed against
the piston rod shoulder.

Dimensions: swivel head CGAK (clampable) for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3 (dimensions in mm)

AL-Ø 40 ... 280 mm



Series		Type	Material no.			AX	Øb	C	CH	ØCN ²⁾	EN	EU	KK
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL		Maintenance required ¹⁾	Maintenance- free	Flat type grease nipple ⁴⁾	min.	max.					-0.4	
40	—	CGAK 16	R900303162	R900321784	R900321521	17	26	56	50	25 _{-0.010}	20 _{-0.12}	23	M16 x 1.5
50	40	CGAK 22	R900303163	R900321683	R900321522	23	33	64	60	30 _{-0.010}	22 _{-0.12}	28	M22 x 1.5
63	50	CGAK 28	R900303164	R900300717	R900321523	29	41	78	70	35 _{-0.012}	25 _{-0.12}	30	M28 x 1.5
80	63	CGAK 35	R900303165	R900322738	R900321524	36	50	94	85	40 _{-0.012}	28 _{-0.12}	35	M35 x 1.5
100	80	CGAK 45	R900303166	R900322019	R900321519	46	62	116	105	50 _{-0.012}	35 _{-0.12}	40	M45 x 1.5
125	100	CGAK 58	R900303167	R900322020	R900321520	59	76	130	130	60 _{-0.015}	44 _{-0.15}	50	M58 x 1.5
140	125	CGAK 65	R900303168	R900324812	R900322737	66	87	154	150	70 _{-0.015}	49 _{-0.15}	55	M65 x 1.5
160	140	CGAK 80	R900303169	R900541157	R900322726	81	106	176	170	80 _{-0.015}	55 _{-0.15}	60	M80 x 2
180	160	CGAK100	R900321655	R900323305	R900322727	101	125	206	210	90 _{-0.020}	60 _{-0.20}	65	M100 x 2
200	180	CGAK110	R900321691	R900329997	R900322728	111	139	231	235	100 _{-0.020}	70 _{-0.20}	70	M110 x 2
220	200	CGAK120	R900321621	R900323333	R900327197	125	155	266	265	110 _{-0.020}	70 _{-0.20}	80	M120 x 3
250	220	CGAK120	R900321621	R900323333	R900327197	125	153	265	265	110 _{-0.020}	70 _{-0.20}	80	M120 x 3
280	250	CGAK130	R900322015	R900540850	R900327201	135	173	340	310	120 _{-0.020}	85 _{-0.20}	90	M130 x 3

Dimensions: swivel head CGAK (clampable) for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3
(dimensions in mm)

Series		Type	L1	L2 max.	LF	Z	Clamping screw ISO 4762-10.9	M_A ³⁾ Nm	m ⁵⁾ kg	C_0 ⁶⁾ kN	F_{adm} ⁷⁾ kN
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL										
40	—	CGAK 16	80	24	28	7 °	M8	30	0.43	72	25.9
50	40	CGAK 22	94	26	30	6 °	M8	30	0.7	106	38.2
63	50	CGAK 28	112	34	38	6 °	M10	54	1.1	153	55.1
80	63	CGAK 35	135	39	45	7 °	M10	59	2.0	250	90.0
100	80	CGAK 45	168	46	55	6 °	M12	100	3.3	365	131.4
125	100	CGAK 58	200	61	65	6 °	M16	250	5.5	400	144.0
140	125	CGAK 65	232	66	75	6 °	M16	250	8.6	540	194.4
160	140	CGAK 80	265	81	80	6 °	M20	490	12.2	670	241.2
180	160	CGAK100	323	91	90	5 °	M20	490	21.5	980	352.8
200	180	CGAK110	360	101	105	7 °	M24	840	27.5	1120	403.2
220	200	CGAK120	407.5	111	115	6 °	M24	840	40.7	1700	612.0
250	220	CGAK120	407.5	111	115	6 °	M24	840	40.7	1700	612.0
280	250	CGAK130	490	129	140	6 °	M24	840	76.4	2900	1044.0

ØAL = Piston Ø

- 1) Grease nipple, cone head form A according to DIN 71412;
not applicable to spherical bearing, maintenance-free "A"
- 2) Bolt Ø m6 required;
Bolt Ø j6 required with maintenance-free spherical bearing
- 3) M_A = Tightening torque
- 4) Form A flat type grease nipple according to DIN 3404
- 5) m = Weight of swivel head in kg
- 6) C_0 = Static load rating of the swivel head
- 7) F_{adm} = Maximum admissible load of the swivel head with
oscillatory or alternating loads

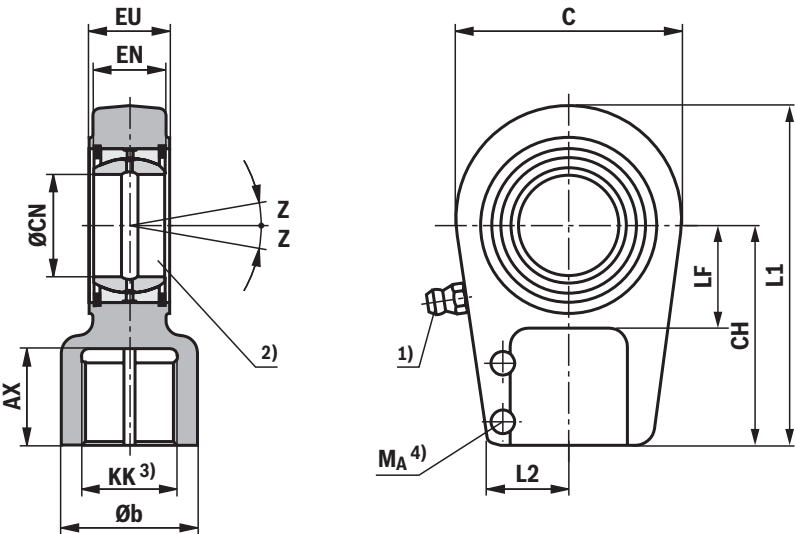


Note:

The specified dimensions are maximum values and may differ depending on the manufacturer. Excluded values: CH, CN, EN, EU, KK.

The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.

Dimensions: swivel head CGAS (clampable) for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3 (dimensions in mm)



Series		Type	Material no.			AX	Øb	C	CH	ØCN ²⁾	EN	EU	KK
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL		Maintenance required ¹⁾	Maintenance- free	Flat type grease nipple ⁵⁾	min.	max.	max.				-0.4	
40	—	CGAS 25	R900303137	R900321681	R900322736	30	28	56	65	25 _{-0.010}	20 _{-0.12}	23	M18 x 2
50	40	CGAS 30	R900303138	R900321696	R900321627	35	34	64	75	30 _{-0.010}	22 _{-0.12}	28	M24 x 2
63	50	CGAS 35	R900303139	R900322716	R900840595	46	46	78	90	35 _{-0.012}	25 _{-0.12}	30	M30 x 2
80	63	CGAS 40	R900303140	R900321665	R900321650	56	57	94	105	40 _{-0.012}	28 _{-0.12}	35	M39 x 3
100	80	CGAS 50	R900303141	R900322017	R900321885	76	70	116	135	50 _{-0.012}	35 _{-0.12}	40	M50 x 3
125	100	CGAS 60	R900303142	R900321685	R900321680	96	87	130	170	60 _{-0.015}	44 _{-0.15}	50	M64 x 3
140	125	CGAS 70	R900303143	R900321690	R900321886	112	111	154	195	70 _{-0.015}	49 _{-0.15}	55	M80 x 3
160	140	CGAS 80	R900303144	R900322022	R900323328	122	129	176	210	80 _{-0.015}	55 _{-0.15}	60	M90 x 3
180	160	CGAS 90	R900303145	R900323344	R900321652	142	153	211	250	90 _{-0.020}	60 _{-0.20}	65	M100 x 3
200	180	CGAS100	R900303146	R900321689	R900322018	152	170	230	275	100 _{-0.020}	70 _{-0.20}	70	M110 x 4
220	200	CGAS110	R900303147	R900323326	R900322013	162	180	264	300	110 _{-0.020}	70 _{-0.20}	80	M120 x 4
250	220	CGAS110	R900303147	R900323326	R900322013	162	180	264	300	110 _{-0.020}	70 _{-0.20}	80	M120 x 4
280	250	CGAS120	R900303148	R900324830	R900315993	192	210	340	360	120 _{-0.020}	85 _{-0.20}	90	M150 x 4
320	280	CGAS140	R900317314	R900540515	R900323327	210	230	380	420	140 _{-0.025}	90 _{-0.25}	110	M160 x 4
—	320	CGAS160	R900303149	R900322725	R901034192	221	260	480	460	160 _{-0.025}	105 _{-0.25}	110	M180 x 4

Dimensions: swivel head CGAS (clampable) for series CDH1; CGH1; CSH1 and CDH3; CGH3; CSH3
(dimensions in mm)

Series		Type	L1 max.	L2 max.	LF min.	Z ³⁾	Clamping screw ISO 4762-10.9	M _A ⁴⁾ Nm	m ⁶⁾ kg	C ₀ ⁷⁾ kN	F _{adm} ⁸⁾ kN
CDH1, CGH1, CSH1 ØAL	CDH3, CGH3, CSH3 ØAL										
40	—	CGAS 25	95	24	25	7-8 °	M8	30	0.65	82	27.1
50	40	CGAS 30	109	28	30	6-7 °	M8	30	1.0	122	40.3
63	50	CGAS 35	132	36	40	6-7 °	M10	59	1.5	177	58.4
80	63	CGAS 40	155	39	44	7 °	M12	100	2.4	287	94.7
100	80	CGAS 50	198	45	55	6-7 °	M12	100	4.8	422	139.3
125	100	CGAS 60	240	59	65	6-7 °	M16	250	8.6	522	172.3
140	125	CGAS 70	279	70	75	6 °	M16	250	12.2	707	233.3
160	140	CGAS 80	305	85	80	6 °	M20	490	18.4	870	287.1
180	160	CGAS 90	366	91	90	5 °	M20	490	31.6	1284	423.7
200	180	CGAS100	400	95	105	7 °	M20	490	34	1460	481.8
220	200	CGAS110	443	106	115	6 °	M24	840	44	2024	667.9
250	220	CGAS110	443	106	115	6 °	M24	840	44	2024	667.9
280	250	CGAS120	540	122	140	6 °	M24	840	75	2970	980.1
320	280	CGAS140	620	129	185	7 °	M30	1700	160	3350	1105.5
—	320	CGAS160	710	146	200	8 °	M30	1700	235	4302	1419.7

ØAL = Piston Ø

- 1) Grease nipple, cone head form A according to DIN 71412;
not applicable to spherical bearing, maintenance-free "A"
- 2) Bolt Ø m6 required;
Bolt Ø j6 required with maintenance-free spherical bearing
- 3) Dimensions may differ depending on the manufacturer
- 4) **M_A** = Tightening torque
- 5) Form A flat type grease nipple according to DIN 3404
- 6) **m** = Weight of swivel head in kg
- 7) **C₀** = Static load rating of the swivel head
- 8) **F_{adm}** = Maximum admissible load of the swivel head with
oscillatory or alternating loads



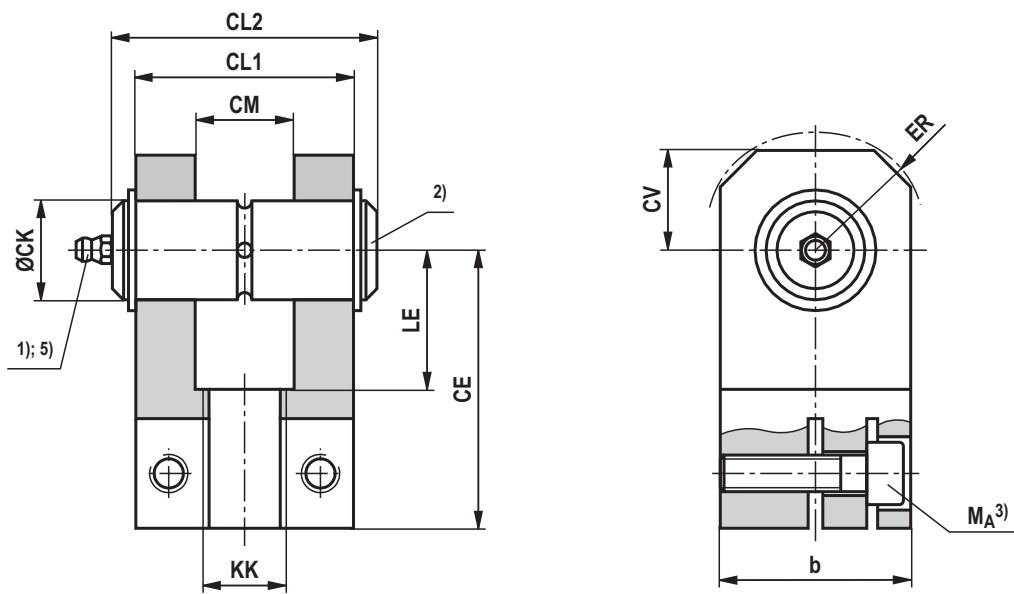
Note:

The specified dimensions are maximum values and may differ depending on the manufacturer. Excluded values: CH, CN, EN, EU, KK.

The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.

Dimensions: fork clevis CCKB (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1
(dimensions in mm)

ISO 8132



Series				Type	Material no. maintenance required ¹⁾	Nominal force kN	b max.	CE js13	ØCK H9 ²⁾	CL1 h16	CL2 max.	CM A13	ER max.
CDH2, CGH2, CSH2 ØAL	CDH2, CGH2, CSH2 ØMM	CDM1, CGM1, CSM1 ØAL	CDM1, CGM1, CSM1 ØMM										
–	–	25	14 / 18	CCKB 12 ⁵⁾	R900542842	8	25	38	12	28	49	12	16
–	–	25	18	CCKB 16	R900542843	12.5	30	44	16	36	57	16	20
		32	18 / 22										
–	–	32	22	CCKB 20	R900542844	20	40	52	20	45	72	20	25
		40	22 / 28										
40	25 / 28	40	28	CCKB 25	R900542845	32	50	65	25	56	84	25	32
		50	28 / 36										
50	32 / 36	50	36	CCKB 32	R900542846	50	65	80	32	70	105	32	40
		63	36 / 45										
63	40 / 45	63	45	CCKB 40	R900542847	80	80	97	40	90	133	40	50
		80	45 / 56										
80	50 / 56	80	56	CCKB 50	R900542848	125	100	120	50	110	165	50	63
		100	56 / 70										
100	63 / 70	100	70	CCKB 63	R900542849	200	140	140	63	140	185	63	71
		125	70 / 90										
125	80 / 90	125	90	CCKB 80	R900542850	320	180	180	80	170	225	80	90
		160	90 / 110										
140	90 / 100	–	–	CCKB 90	⁶⁾	400	200	195	90	190	⁶⁾	90	100
160	100 / 110	160	110	CCKB 100	⁶⁾	500	220	210	100	210	⁶⁾	100	110
		200	110 / 140										

Dimensions: fork clevis CCKB (clampable) for series CDH2; CGH2; CSH2 and CDM1; CGM1; CSM1 (dimensions in mm)

Series				Type	KK	LE min.	CV max.	Clamping screw ISO 4762-10.9	$M_A^{3)}$ Nm	$m^{4)}$ kg
CDH2, CGH2, CSH2 ØAL	ØMM	CDM1, CGM1 / CSM1 ØAL	ØMM							
—	—	25	14 / 18	CCKB 12 ⁵⁾	M12 x 1.25	18	16	M4 x 16	2.9	0.2
—	—	25	18	CCKB 16	M14 x 1.5	22	20	M6 x 20	10	0.35
		32	18 / 22							
—	—	32	22	CCKB 20	M16 x 1.5	27	25	M8 x 30	25	0.7
		40	22 / 28							
40	25 / 28	40	28	CCKB 25	M20 x 1.5	34	32	M10 x 35	49	1.4
		50	28 / 36							
50	32 / 36	50	36	CCKB 32	M27 x 2	41	40	M12 x 40	85	2.8
		63	36 / 45							
63	40 / 45	63	45	CCKB 40	M33 x 2	51	50	M16 x 50	210	5.2
		80	45 / 56							
80	50 / 56	80	56	CCKB 50	M42 x 2	63	63	M20 x 60	425	9.5
		100	56 / 70							
100	63 / 70	100	70	CCKB 63	M48 x 2	75	71	M24 x 80	730	21.5
		125	70 / 90							
125	80 / 90	125	90	CCKB 80	M64 x 3	94	90	M30 x 100	1450	38.2
		160	90 / 110							
140	90 / 100	—	—	CCKB 90	M72 x 3	108	100	M36 x 120	2480	⁶⁾
160	100 / 110	160	110	CCKB 100	M80 x 3	114	110	M36 x 130	2480	⁶⁾
		200	110 / 140							

ØAL = Piston Ø

ØMM = Piston rod Ø

¹⁾ Grease nipple, cone head form A according to DIN 71412

²⁾ Bolt Ø m6 required

(bolt and bolt lock are included in the scope of delivery and not mounted upon delivery)

³⁾ M_A = Tightening torque

⁴⁾ m = Weight of the fork clevis in kg

⁵⁾ Without lubrication bore

⁶⁾ On request



Note:

The specified dimensions are maximum values and may differ depending on the manufacturer. Excluded values: CH, CN, EN, EU, KK.

The swivel head must always be screwed against the piston rod shoulder. Afterwards, the clamping screws must be tightened with the specified tightening torque.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
documentation@boschrexroth.de
www.boschrexroth.de

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without our consent.
The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
documentation@boschrexroth.de
www.boschrexroth.de

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without our consent.
The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.

Notes

Bosch Rexroth AG
Hydraulics
Zum Eisengießer 1
97816 Lohr am Main, Germany
Phone +49 (0) 93 52 / 18-0
documentation@boschrexroth.de
www.boschrexroth.de

© This document, as well as the data, specifications and other information set forth in it, are the exclusive property of Bosch Rexroth AG. It may not be reproduced or given to third parties without our consent.
The data specified above only serve to describe the product. As our products are constantly being further developed, no statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgment and verification. It must be remembered that our products are subject to a natural process of wear and aging.