

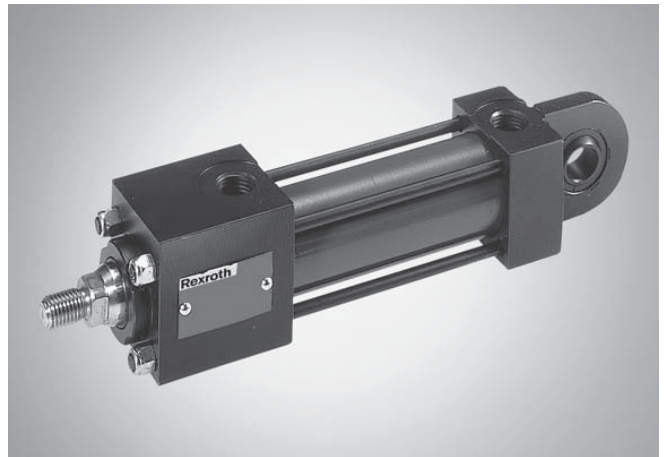
RE 17 039/03.03

Hydraulic cylinder Types CDT3...F / CGT3...F

Series 1X

Nominal pressure:
160 bar (16 MPa)

00001473



Type CDT3ME5/...F1X/...

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Features

- ISO 6020/2, DIN 24 554 and NF/ISO 6020/2
- 13 mounting styles
- Piston Ø: 25 to 200 mm
- Piston rod Ø: 12 to 140 mm
- Stroke length up to 2700 mm



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Ordering details

*Further details
in clear text
Interventionen

Option 2

W = Without option

Option 1

W = Without option

B = ⁵⁾ Drain connection

A = ⁴⁾ Test point,
both sides

Seal version

See page 3

M = Standard seal system

T = Reduced friction

V = High temperature with reduced
friction

End position cushioning

See page 33

U = Without

D = Both sides, self-adjusting

S = Head end, self-adjusting

K = Base end, self-adjusting

L = ³⁾ Both sides, self-adjusting „Low energy“

E = ⁵⁾ Both sided, adjustable

Piston rod end

H = Thread (DIN / ISO) for self-aligning clevis CGKA

D = Thread (ISO) for self-aligning clevis CGKA

E = Internal thread

F = With mounted self-aligning clevis CGKA (DIN / ISO)

K = With mounted self-aligning clevis CGKA (ISO)

T = Mit Zapfen

Piston rod version

H = Surface hardened and hard chromium plated

Pipe connection / location at base

See page 27

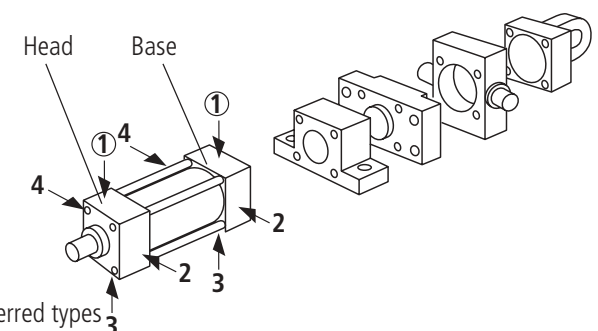
1 =

2 =

3 =

4 =

View onto the piston rod



Double acting cylinder = CD

Double rod cylinder¹⁾ = CG

Series: = T3

Mounting styles DIN / ISO

Rectangular flange at head = ME5

Rectangular flange at base = ME6

Self-aligning rear clevis mounting = MP5

Foot mounting = MS2

Trunnions at the centre ²⁾ = MT4

Mounting styles ISO

Fork at base = MP1

Plain rear clevis mounting = MP3

Trunnions at head = MT1

Trunnions at base = MT2

Lengthend tie rods, both ends = MX1

Lengthend tie rods, at base = MX2

Lengthend tie rods, at head = MX3

Threaded holes on head = MX5

Pistons Ø (AL) 25 to 200 mm

Piston rods Ø (MM) 12 to 140 mm

Stroke length in mm

Design principle

Head and base connected by tie rods
with guide bush = F

Series = 1X

10 to 19 unchanged installation and connection dimensions

Pipe connections / versions

Pipe threads (ISO 8138) = B

Metric ISO threads (DIN / ISO 6149-1) = R

Enlarged pipe threads (ISO 8138) = S

Pipe connections / location at head

See page 27 = 1

= 2

= 3

= 4

View onto the piston rod

Remarks:

¹⁾ = ME5; MT1; MT4; MS2; MX1; MX3; MX5, not standardised

²⁾ = XV in mm to be stated in clear text

³⁾ = Piston Ø 25 to 125 mm

⁴⁾ = Piston Ø 40 to 200 mm

⁵⁾ = For DIN mounting styles and pipe connections „B“

When selecting a cylinder take the limitations stated on the associated pages within this catalogue into account!

Ordering examples:

CDT3/MP5/50/36/300F1X/B11HDDMWW

CGT3/ME5/80/56/400F1X/B11HDDMWW

Cylinder weights in kg

CDT3

AL	MM	MX1 ME5 MS2	ME6 MP3 MP1	MP5	MT4	MX2 MX3 MX5	MT1 MT2	Hub 100 mm
25	12	1.1	1.1	1.0	1.3	1,0	1,1	0,4
	18	1.2	1.2	1.1	1.4	1.1	1.2	0.6
32	14	1.5	1.6	1.4	1.8	1.4	1.5	0.5
	22	1.6	1.7	1.5	1.9	1.5	1.6	0.6
40	18	3.4	3.4	3.2	4.1	3.1	3.2	0.8
	28	3.5	3.5	3.3	4.2	3.2	3.3	1.1
50	22	5.3	5.3	4.9	6.6	4.8	4.9	1.1
	36	5.5	5.5	5.1	6.8	5.0	5.1	1.6
63	28	7.7	7.7	7.3	9.2	7.0	7.3	1.4
	45	8.2	8.0	7.6	9.5	7.3	7.6	2.2
80	36	14	14	14	18	12	15	2.2
	56	15	15	15	19	14	15	3.3
100	45	20	20	20	24	19	22	3.3
	70	21	21	21	25	19	23	5.1
125	56	38	39	38	46	35	43	6.3
	90	39	40	39	48	37	44	9.3
160	70	62	67	63	78	59	64	8.7
	110	64	69	65	80	61	67	13.2
200	90	112	120	115	147	107	114	13.4
	140	115	123	117	149	109	117	20.5

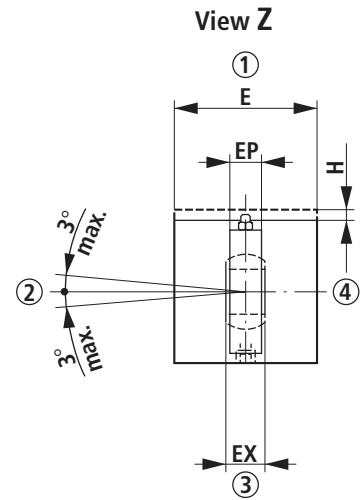
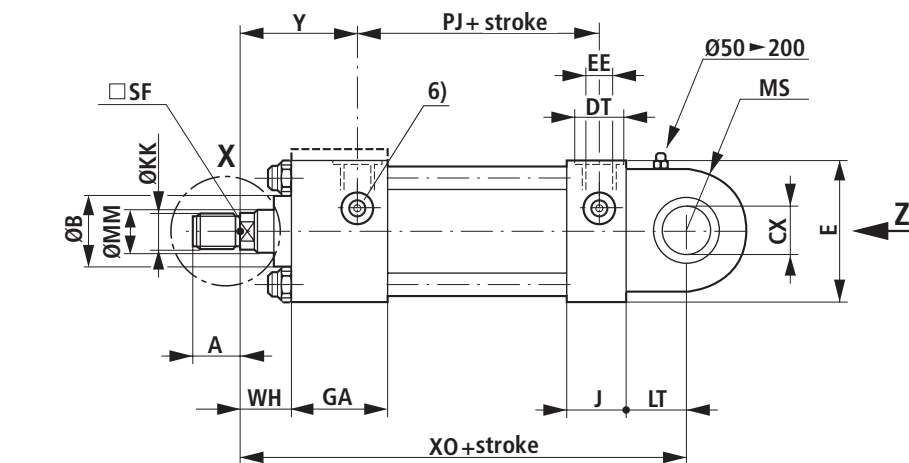
For self-aligning clevis, clevis/bracket and trunnion bracket see page 20

CGT3

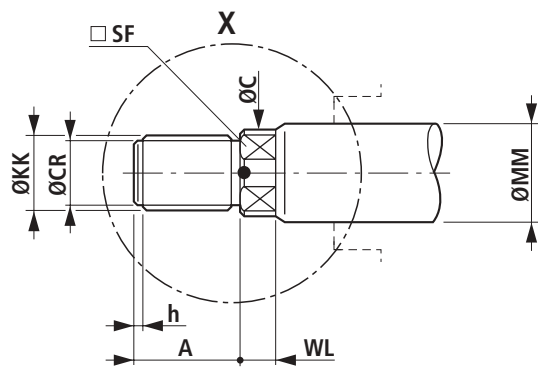
AL	MM	MX1 ME5 MS2	ME6 MP3 MP1	MP5	MT4	MX2 MX3 MX5	MT1 MT2	Hub 100 mm
25	12	1,2	1,2	1,1	1,4	1,1	1,2	0,5
	18	1.4	1.4	1.3	1.6	1.3	1.4	0.8
32	14	1.6	1.7	1.5	1.9	1.5	1.6	0.6
	22	1.9	2.0	1.8	2.2	1.8	1.9	0.9
40	18	3.6	3.6	3.4	4.3	3.3	3.4	1.0
	28	4.0	4.0	3.8	4.7	3.7	3.8	1.6
50	22	5.7	5.7	5.3	7.0	5.2	5.3	1.4
	36	6.4	6.4	6.0	7.7	5.9	6.0	2.4
63	28	8.3	8.3	7.9	9.8	7.6	7.9	1.9
	45	9.7	9.5	9.1	11	8.8	9.1	3.4
80	36	15	15	15	19	13	15	3.0
	56	17	17	17	21	16	17	5.2
100	45	22	22	21	26	20	24	4.5
	70	25	25	24	29	23	27	8.1
125	56	41	42	41	49	39	46	8.2
	90	46	47	46	55	44	51	14
160	70	68	73	69	83	65	69	12
	110	75	80	76	91	72	79	21
200	90	124	132	126	158	118	126	18
	140	137	144	139	171	131	138	33

Mounting styles MP5

MP5



1...4 = Connection port locations



Dimensions MP5 (mm)

AL	MM	DIN / ISO							ISO							B f9
		KK ¹⁾	A ¹⁾ max	C	SF	WL	h	CR	KK ²⁾	A ²⁾ max	C	SF	WL	h	CR	
25	12	M10x1.25	14	11	10	5	1	7.5	—	—						24
	18	M10x1.25	14	15	13	5	1	8	M14x1.5	18	15	13	5	2	11	30
32	14	M12x1.25	16	13	11	5	2.5	9.5	—	—						26
	22	M12x1.25	16	19	17	5	3	10	M16x1.5	22	19	17	5	3	13	34
40	18	M14x1.5	18	15	13	5	2	11	—	—						30
	28	M14x1.5	18	25	22	7	2	11	M20x1.5	28	25	22	7	3	17	42
50	22	M16x1.5	22	19	17	5	3	13	—	—						34
	36	M16x1.5	22	33	30	8	3	13	M27x2	36	33	30	8	3	23.5	50
63	28	M20x1.5	28	25	22	7	3	17	—	—						42
	45	M20x1.5	28	42	36	10	3	17	M33x2	45	42	36	10	4	29.5	60
80	36	M27x2	36	33	30	8	3	23.5	—	—						50
	56	M27x2	36	53	46	10	3	24	M42x2	56	53	46	10	5	38.5	72
100	45	M33x2	45	42	36	10	4	29.5	—	—						60
	70	M33x2	45	67	60	15	4	30	M48x2	63	67	60	15	3	44.5	88
125	56	M42x2	56	53	46	10	5	38.5	—	—						72
	90	M42x2	56	86	75	15	5	39	M64x3	85	86	75	15	4.5	59	108
160	70	M48x2	63	67	60	15	3	44.5	—	—						88
	110	M48x2	63	106	92	18	3	45	M80x3	95	106	92	18	4.5	75	133
200	90	M64x3	85	86	75	15	4,5	59	—	—						108
	140	M64x3	85	136	125	18	5	59	M100x3	112	136	125	18	4.5	95	163

AL	GA	E	EE	DT	EE	DT	J	H	PJ ± 1.25	WH ± 2	Y ± 2
25	46.5	40 ±1.5	G1/4	25	M14x1.5	21	22.5	5	53	15	50
32	46.5	45 ±1.5	G1/4	25	M14x1.5	21	23.5	5	56	25	60
40	52	63 ±1.5	G3/8	28	M18x1.5	26	33	—	73	25	62
50	57.8	75 ±1.5	G1/2	34	M22x1.5	29	33.8	—	74	25	67
63	55.8	90 ±1.5	G1/2	34	M22x1.5	29	33.8	—	80	32	71
80	65	115 ±1.5	G3/4	42	M27x2	34	39	—	93	31	77
100	67	130 ±2	G3/4	42	M27x2	34	40	—	101	35	82
125	73.5	165 ±2	G1	47	M33x2	43	51.5	—	117	35	86
160	80.5	205 ±2	G1	47	M33x2	43	55.5	—	130	32	86
200	101	245 ±2	G1 1/4	58	M42x2	52	76	—	165	32	98

AL	CX	EP h15	EX	LT min	XO ± 1.25	MS max
25	12 -0.008	8	10 -0.12	16	130	20
32	16 -0.008	11	14 -0.12	20	148	22,5
40	20 -0.012	13	16 -0.12	25	178	29
50	25 -0.012	17	20 -0.12	31	190	33
63	30 -0.012	19	22 -0.12	38	206	40
80	40 -0.012	23	28 -0.12	48	238	50
100	50 -0.012	30	35 -0.12	58	261	62
125	60 -0.015	38	44 -0.15	72	304	80
160	80 -0.015	47	55 -0.15	92	337	100
200	100 -0.020	57	70 -0.20	116	415	120

Notes

- 1) Thread for piston rod ends „F“ and „H“
- 2) Thread for piston rod ends „D“ and „K“
- 3) For piston rod ends „E“ and „T“, see page 39
- 5) Dim. „H“ is always at the connection port location
- 6) For connection port locations and bleeding see page 27
- 7) For tightening torques, see page 42
- 10) Grease nipple M6 DIN 71 412 from piston Ø 40 mm