



Hydraulic cylinders series CE • light duty - standard square heads

double acting - nominal pressure 100 bar - design 10



NOTE: the loose attachments A, N, Z are supplied including the parts in pos. 2 of section 10

3 INSTALLATION DIMENSIONS [mm] - see sections 6, 7 and 8

Ø PISTON	25	32	40	50	63
Ø ROD	12	14	18	22	28
AA	40	47	59	74	91
AO	11,5	11,5	13,5	15	17,5
вв	16	24	35	46	46
BG min	7	8	10	18	18
СВ	12	16	20	30	30
CD	10	12	14	20	20
CF	24	32	40	60	60
D	21	21	25	29	29
DD	M5x0,8	M6x1	M8x1	M12x1,25	M12x1,25
E	40	45	63	75	90
EE	1/4″	1/4″	3/8″	1/2″	1/2″
FB	6,5	6,5	11	14,5	14,5
L	13	19	19	32	32
LH	30	35	40	50	60
м	1000	1200	1500	1800	2300
MR max	12	17	17	29	29
МТ	4	7	18	70	70
N	45	55	62	72	85
R	27	33	41	52	65
RO	46	56,7	/	1	1
RT	M5x0,8	M6x1	M8x1	M12x1,75	M12x1,75
s	13,5	15	/	1	1
S1	10	10	15	16	16
S2	13	16	18	1	1
SB	7	7	9	11	13
SO	60	76	/	1	1
ST	6	6	8	8	10
TG	28,3	33,2	41,7	52,3	64,3
то	51	58	87	105	117
тѕ	25	35	40	45	50
UO	64	70	109	128	142
XS	6	12	6	0	2
Y	50	60	62	67	71

PJ	53	56	73	74	80	
SS	124	133	168	184	196	
хс	127 147		172 191		200	
ZB max	129 144		170 178		192	
ZJ	114 128		153	159	168	

SPACERS: strokes longer than 1000 mm require the insertion of fitting spacers to increase the rod and the piston guide, against overload and early wear.

The table below shows the recommended dimensions according to the stroke: for strokes longer than the ones shown in the table consult our technical office.

Spacers are normally omitted for strokes shorter than 1000 mm and for cylinders working in traction mode.

strokes [mm]	1001 ÷ 1500	1501 ÷ 2000	2001 ÷ 2500	2501 ÷ 3000
spacer code	2	4	6	8
lenght [mm]	50	100	150	200

Notes:

- **EE:** oil ports and drain are threaded according to BSP standard with counterbore dimensions **D** according to DIN 3852-2 (wide serie).
- M: for strokes longer than M, as indicated in the table at the side, one or more intermediate tie-rod supports are mounted on the housing, with dimensions ExE.
- MT: tightening tie-rod values [in Nm] for dry thread.

N.B.: for strokes, consider the following tolerances:

• 0÷1,2 mm for strokes up to 1000 mm;

• 0÷2,5 mm for longer strokes.

The values given here besides are always to						
be added to the stroke and eventual spacers						
to obtain the real installation dimensions (see						
drawing sec. 6).						
EXAMPLE: Cylinder CE-50/22*1250-N728						
total external overall dimensions:						
A + ZB + stroke + spacers						
= 22 + 178 + 1250 + 50 = 1500 mm						

4 DISTANCES RELATIVE TO ROD ENDS [mm] - see fig. section 5

				-	
Ø ROD	12	14	18	22	28
A	14	16	18	22	28
A1	/	/	1	24	30
B f9	24	26	30	34	42
B1 f9	23	28	1	/	1
B2 -0,05	25,37	26	28,55	38,07	38,07
сн	10	12	15	19	22
кк	M10x1,25	M12x1,25	M14x1,5	M16x1,5	M20x1,5
КК1	/	/	1	M18x1,5	M22x1,5
VD max	3	3	3	3	3
VD1	/	/	1	9	12
WF	12,5	19	1	/	1
WF1	16	24	19	9	16
WH	19	26	24	25	32
WH1	13	18	16	25	32

5 ROD END - for dimensions see tab. 4



6 CE BASIC CONFIGURATION - dimensions in table 3.



7 ATTACHMENTS - dimensions see tab. 3



8 ATTACHMENTS AVAILABLE AS LOOSE ELEMENTS - for ordering code see section 2



BASIC MASSES for single rod in X, Z configuration			ADDED MASSES according to attachment and options							
Ø Piston [mm]	Ø Rod [mm]	for 100 mm stroke	each 100 mm more	attachment A	attachment C	attachment E	attachment N	attachment Y	cushioning on one side	25 mm spacer
25	12	1,65	0,52	0,18	0,2	0,20	0,20	0,01	0,03	0,20
32	14	2,23	0,73	0,30	0,32	0,30	0,30	0,02	0,04	0,31
40	18	4,90	0,97	1	1,00	0,60	1,03	0,06	0,07	0,39
50	22	6,40	1,18	1	1,0	0,80	1,39	0,16	0,13	0,56
63	28	8,70	1,62	/	2,0	1,20	1,99	0,16	0,25	0,82

10 TYPE SECTION CE WITH FRONT AND REAR CUSHIONING





Note: usually including the low-friction seals pos. 17