



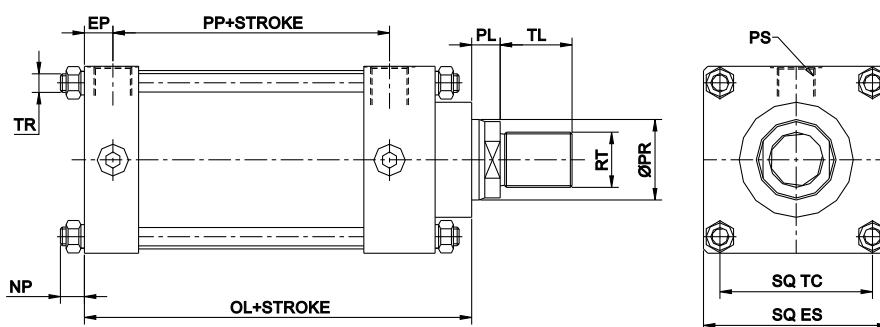
Hydraulic Cylinders - CH16 Series

for Counter Balance Applications

- Rated Pressure 160 kg/cm²
- Peak Pressure 240 kg/cm²
- Speed up to 60m/min
- Temperature range:- -20°C to 90°C (alternatives available).



BASIC CYLINDER



SPECIFICATION OF MATERIALS

END COVERS : Precision machined steel

CYLINDER BARREL : Cold drawn seamless steel, honed and polished internally to a maximum surface roughness of Ra=0.4 microns

PISTON : Steel, single piece, precisely machined for perfect alignment

PISTON BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

: Medium carbon steel, toughened, ground Hard-chrome plated & polished to a maximum roughness of Ra=0.4 microns

PISTON ROD BEARING : Polyester fabric with polyester resin+PTFE for maximum rigidity

SEALING SYSTEM : We use a wide range of international std sealing systems to suit various applications and temperatures

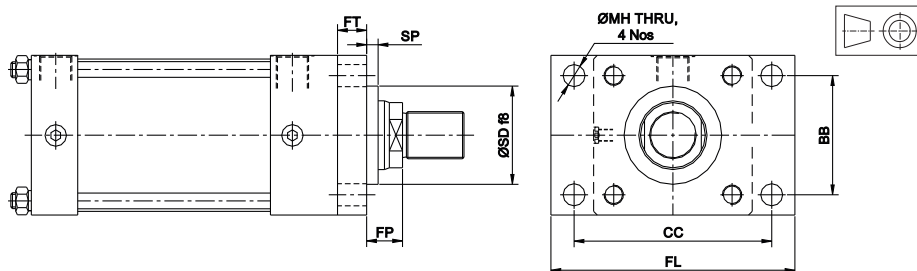
MOUNTINGS : Accurately machined steel suitable for heavy duty application

BORE	PR	ES	RT	PS	OL	PL	TL	PP	TR	NP	EP	TC
DIA	DIA	(Sq)		(BSP)								
32	20	54	M16x1.5	1/2"	155	19	25	87	M8x1.25	12	15	34
40	20	64	M16x1.5	1/2"	181	19	25	99	M10x1.5	12	15	44
50	25	76	M20x1.5	3/4"	191	19	30	103	M12x1.75	15	19	52
63	36	94	M27x2	3/4"	196	21	30	104	M12x1.75	15	19	64
80	45	112	M33x2	3/4"	220	21	45	122	M16 x 2	20	19	82

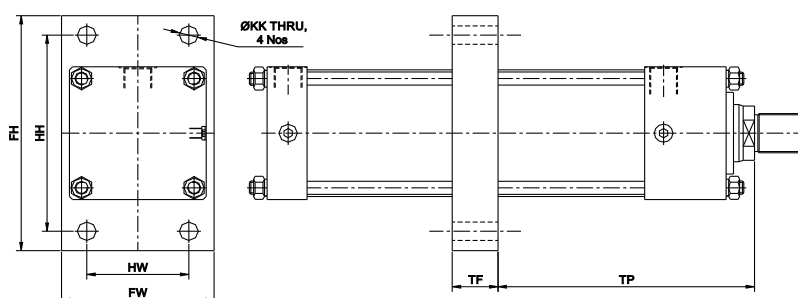
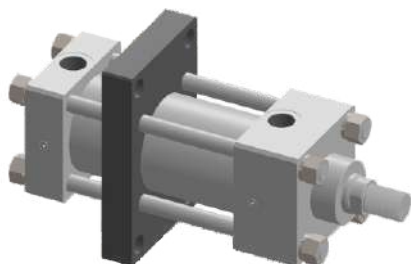
Standard Mountings CH16 Series



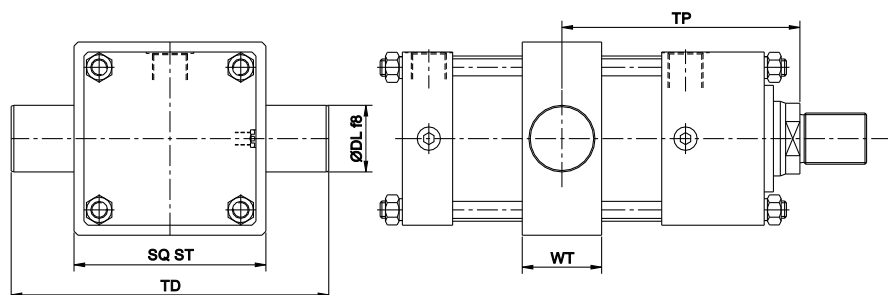
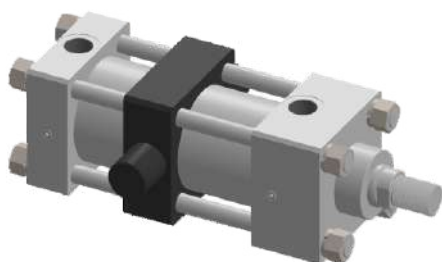
Front Flange (FF)



Intermediate Flange (IF)



Intermediate Trunnion (IT)

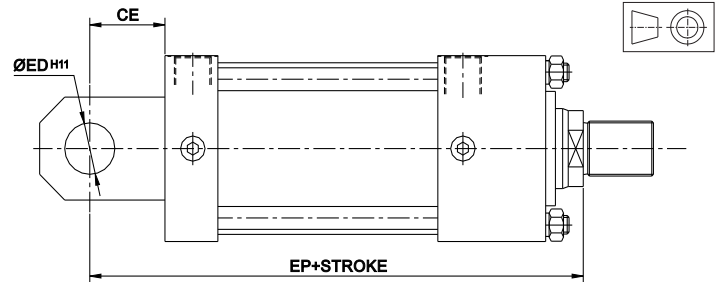
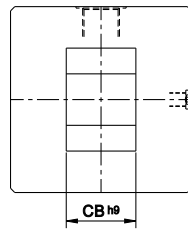


DIMENSIONAL DETAILS					
BORE	32	40	50	63	80
BB	40	42	52	65	83
CC	66	90	105	117	149
FL	85	112	130	142	180
SD	30	40	44	50	60
SP	4	4	4	4	5
MH	9	11	14	14	18
FT	10	10	16	16	20
FP	23	23	23	25	24
TF	15	20	25	25	30
HW	48	52	65	83	97
HH	90	105	117	149	162
FW	65	76	90	112	125
FH	105	130	142	180	194
KK	9	9	11	14	18
WT	32	32	40	40	45
TD	100	116	140	158	186
ST	58	68	76	95	114
DL	22	25	32	32	36
TP	TO BE SPECIFIED BY CUSTOMER				

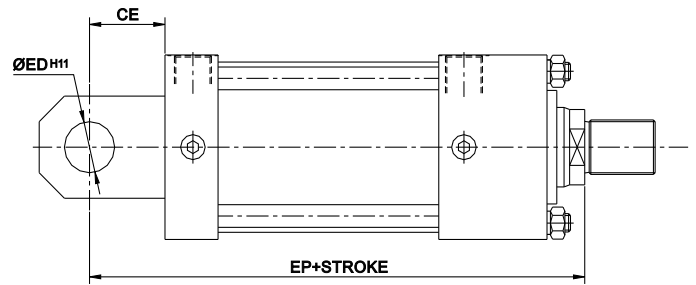
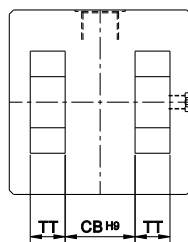
Standard Mountings CH16 Series



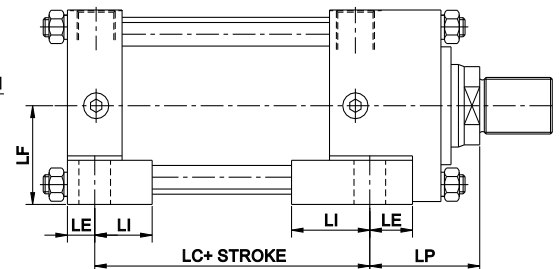
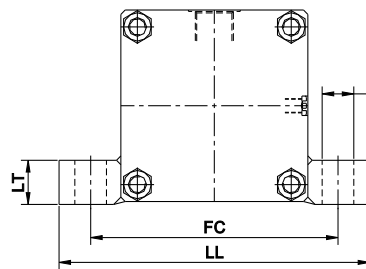
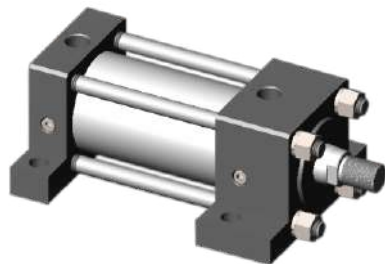
Rear Eye (RE)



Rear Clevis (RC)



Foot Lug (FL)



DIMENSIONAL DETAILS					
BORE	32	40	50	63	80
CB	16	20	30	30	40
TT	12	12	16	16	20
ED	12	14	20	20	28
CE	18	19	32	32	39
EP	182	209	232	239	278
LC	109	130	128	122	142
LL	92	106	127	166	185
FC	75	88	102	130	149
LI	22	24	40	40	45
LE	10	10	15	18	20
LT	12	12	20	25	30
LF	28	33	38	48	57
FH	9	11	14	20	20
LP	45	50	57	67	77

Technical Data & Ordering Details for CH16 Series



TECHNICAL DETAILS

Bore Dia (mm)	Rod Dia (mm)	Piston Area (cm ²)		Action Force at Pressure in kgf				Piston velocity in m/s at flow= 1 ltr/min		Requisite flow in ltr/min for velocity = 0.1 m/s	
		+	-	50 kg/cm ²		75 kg/cm ²		+	-	+	-
32	20	8.0	4.9	401.9	244.9	602.9	367.4	0.0207	0.0340	4.82	2.94
40	20	12.6	9.4	628.0	471.0	942.0	706.5	0.0133	0.0177	7.54	5.65
50	25	19.6	14.7	981.3	735.9	1471.9	1103.9	0.0085	0.0113	11.78	8.83
63	36	31.2	21.0	1557.8	1049.2	2336.7	1573.7	0.0053	0.0079	18.69	12.59
80	45	50.2	34.3	2512.0	1717.2	3768.0	2575.8	0.0033	0.0049	30.14	20.61

Model Code Indication

C H 1 6 - 8 0 / 5 0 0 - F F - 4 5 - N C - (X) - S S 8

Series	Bore sizes	Stroke	Mountings	Piston Rod sizes	Cushioning	Accessories & Special features	Sealing System Code
CH16 Rated Hydraulic Pressure of 160kg/cm ²	Ø32 - 80mm (5 Std. sizes)	To be specified in mm	FF - Front Flange RF - Rear Flange RC - Rear Clevis RE - Rear Eye FL - Foot Lug IT - Intermediate Trunnion	Ø20 - 45mm (4 Std. sizes)	NC - Non Cushioned	PRE - Rod Eye PRF - Rod Fork SA - Single Acting DE - Double Ended	SS8 for 30 m/min, SS85 for 48 m/min, SS71 for 60 m/min

NOTE:- The right of modification for technical improvement is reserved. All dimensions are in mm unless otherwise specified

CUSTOM BUILT CYLINDERS CAN ALSO BE OFFERED ON REQUEST