

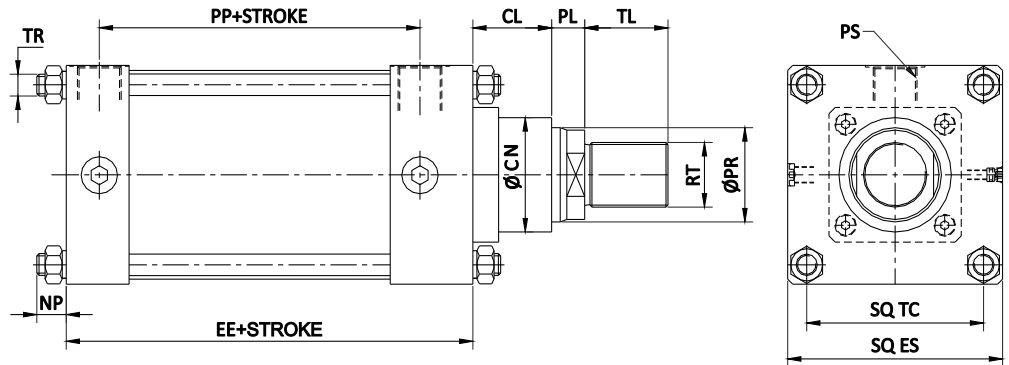


Pneumatic Cylinders - LA Series

- Rated Pressure 10 kg/cm²
- Cylinder bore diameters up to 450mm
- Temperature range:- -20°C to 80°C. (optional seals for temp. up to 180°C)
- Wear and Corrosion resistant, hard-chrome plated piston rods for long seal life



BASIC CYLINDER



FOR BORE Ø75 & ABOVE
SEPARATE CARTRIDGES ARE
PROVIDED AS SHOWN IN
DOTTED LINE

SPECIFICATION OF MATERIALS

END COVERS : Aluminium/Steel

CYLINDER : Aluminium/Steel
BARREL

PISTON : Aluminium/Steel

PISTON BEARING : Teflon / Teflon composite for maximum rigidity and minimum friction

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

PISTON ROD BEARING : PB / Teflon composite for maximum rigidity and minimum friction

SEALING SYSTEM : Wear compensating precisely manufactured NBR/Polyurethane seals. Special sealing systems also available

MOUNTINGS : Accurately machined steel suitable for heavy duty application

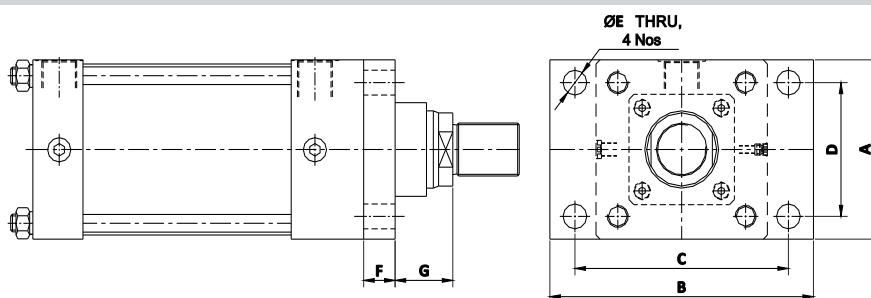
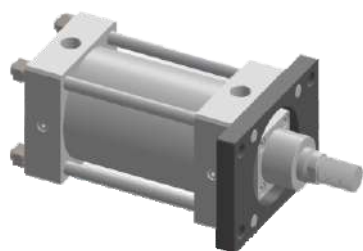
TIE RODS : Cold drawn steel

BORE DIA	PR DIA	ES (Sq)	RT	PS (BSP)	TR	CN	EE	CL	PL	TL	NP	PP	TC
25	12	38	M8x1.25	1/8"	M6x1	25	70	18	10	15	7	54	27.5
32	16	50	M12x1.25	1/8"	M6x1	27	79	20	12	20	8	60	33
38	16	50	M12x1.25	1/4"	M6x1	27	91	27	12	20	8	67	37
50	19	64	M12x1.25	1/4"	M8x1.25	32	96	29	12	20	10	74	48
63	25	75	M20x1.5	3/8"	M10x1.5	40	108	33	15	30	12.5	82	58
75	25	90	M20x1.5	3/8"	M10x1.5	40	122	38	15	30	12.5	94	70
100	32	114	M24x1.5	3/8"	M12x1.75	48	130	44	18	35	15	102	90
125	38	140	M30x2	1/2"	M14x1.5	60	148	64	20	40	17	115	109
150	38	168	M30x2	1/2"	M16x2	60	151	64	20	40	19	118	131
200	45	220	M36x2	3/4"	M20x2.5	75	187	64	22	45	22	145	172
250	57	270	M42x2	1"	M24x2	100	210	76	25	50	26	160	210
300	57	320	M42x2	1"	M24x2	100	220	76	25	50	26	170	245

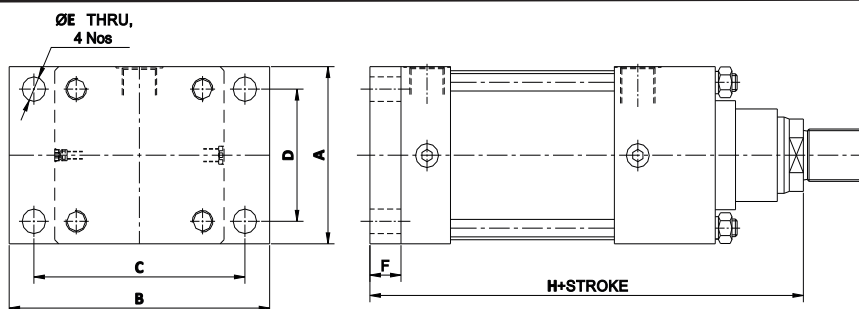
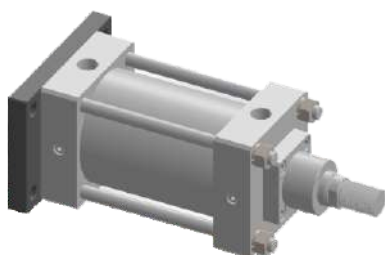
Standard Mountings LA Series



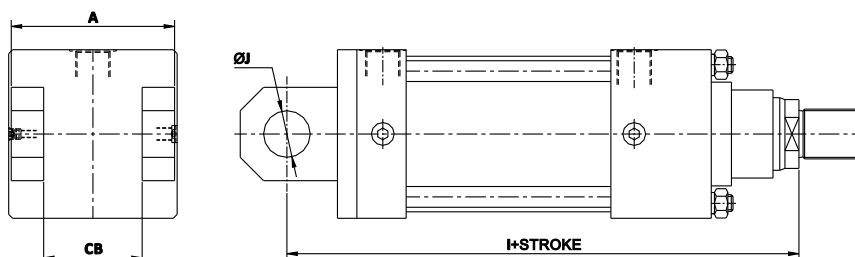
Front Flange (FF)



Rear Flange (RF)



Rear Clevis (RC)



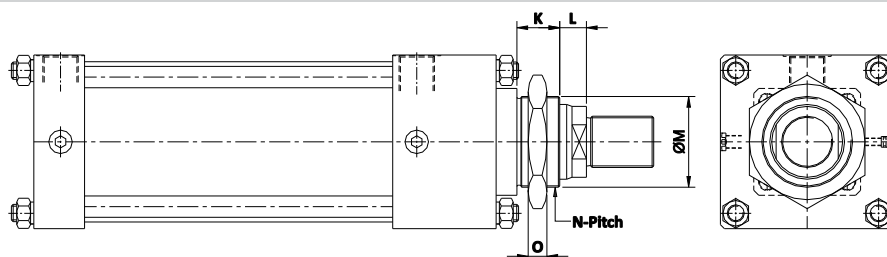
DIMENSIONAL DETAILS

BORE	25	32	38	50	63	75	100	125	150	200	250	300
A	38	50	50	64	75	90	112	140	165	220	270	320
B	60	84	84	105	113	133	178	203	242	315	397	448
C	50	68	68	86	94	111	146	172	205	268	340	384
D	24	34	34	48	56	67	86	108	128	168	210	246
E	6.5	8.5	8.5	8.5	10.5	10.5	13	14.5	16.7	20	26.5	26.5
F	6	8	8	10	12	15	16	20	22	26	30	35
G	22	24	31	31	36	38	46	64	62	60	71	66
H	104	119	138	147	168	190	208	252	257	299	341	356
I	113	129	156	166	186	210	250	302	311	359	-	-
J	10	12	12	16	16	19	19	25	32	38	-	-
CB	18	30	30	32	44	50	74	88	118	160	200	220

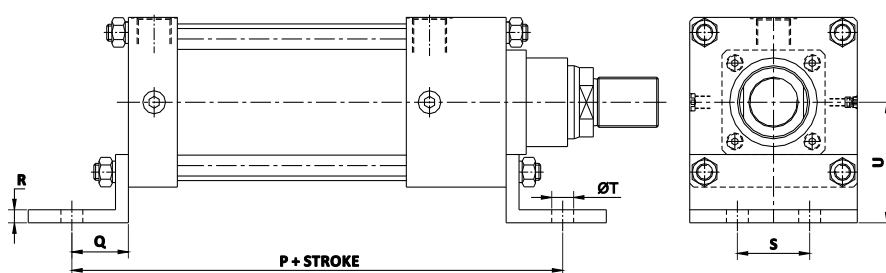
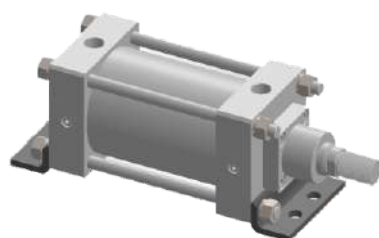
Standard Mountings LA Series



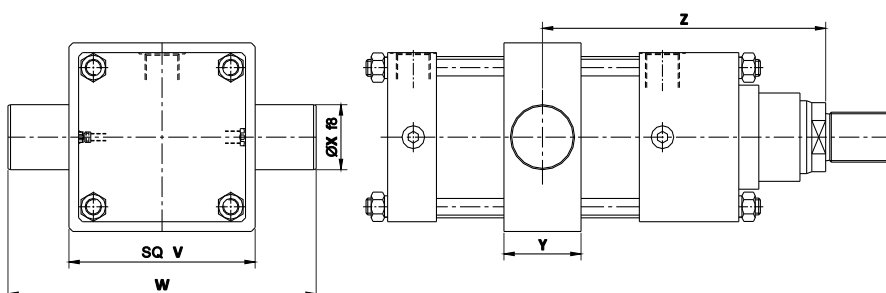
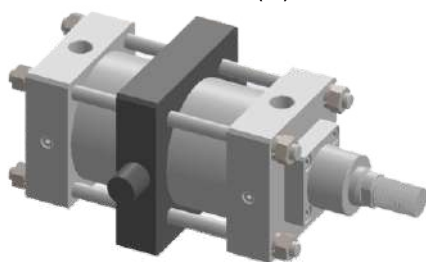
Nose mounting (NM)



Foot Mounting (FM)



Intermediate Trunnion (IT)



BORE	25	32	38	50	63	75	100	125	150	200	250	300
K	18	20	20	20	23	25	31	-	-	-	-	-
L	10	12	12	12	15	15	18	-	-	-	-	-
M	25	27	27	32	40	40	48	-	-	-	-	-
N	1.5	1.5	1.5	1.5	2	2	2	-	-	-	-	-
O	8	8	8	10	10	12	12	-	-	-	-	-
P	106	117	133	134	152	166	186	204	223	277	320	330
Q	18	19	21	19	22	22	28	28	36	45	55	55
R	3.2	3.2	3.2	3.2	5	5	6.3	6.3	6.3	9.5	9.5	9.5
S	18	30	30	-	-	30	50	60	70	82	115	140
T	8.5	8.5	10.5	12	12.5	11	13	16.7	16.7	20	26	26
U	28	30.5	34.5	40	47.5	54	70	79.5	95.5	126	154	178
V	40	50	63	75	90	110	132	160	200	250	320	350
W	60	74	94	107	130	150	180	210	264	314	400	450
X	10	12	16	16	20	20	25	25	32	32	40	50
Y	16	20	24	24	28	28	35	35	42	42	54	65
Z	To be specified by Customer											

Technical Data & Ordering Details for LA Series



TECHNICAL DETAILS									
Bore Dia (mm)	Rod Dia (mm)	Piston Area (cm ²)		Action Force at Pressure in kgf					
				5 kg/cm ² (70 PSI)		7 kg/cm ² (100 PSI)		10 kg/cm ² (150 PSI)	
		+	-	+	-	+	-	+	-
25	12	5	4	25	19	34	26	49	38
32	16	8	6	40	30	56	42	80	60
38	16	11	9	57	47	79	65	113	93
50	19	20	17	98	84	137	118	196	168
63	25	31	26	156	131	218	184	312	263
75	25	44	39	221	196	309	275	442	393
100	32	79	70	393	352	550	493	785	705
125	38	123	111	613	557	859	779	1227	1113
150	38	177	165	883	826	1236	1157	1766	1653
200	45	314	298	1570	1491	2198	2087	3140	2981
250	57	491	465	2453	2326	3434	3256	4906	4651
300	57	707	681	3533	3405	4946	4767	7065	6810

Model Code Indication

L A - 1 0 0 / 5 0 0 - F F - 3 2 - C B - (X) - * * *

Series	Bore sizes	Stroke	Mountings	Piston Rod sizes	Cushioning	Accessories & Special features	Sealing System Code
LA Rated Hydraulic Pressure of 10kg/cm ²	Ø25 - 450mm (12 Std. sizes)	To be specified in mm	FF - Front Flange RF - Rear Flange RC - Rear Clevis FM - Foot Mtd. IT - Intermediate Trunnion NM - Nose Mtd.	Ø12 - 170mm (7 Std. sizes)	CB - Cushioned at both ends CR - Cushioned at Rear end CF - Cushioned at Front end NC - Non Cushioned	PRE - Rod Eye PRF - Rod Fork SR - Spring Return DE - Double Ended DU - Duplex etc....	PS QN

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