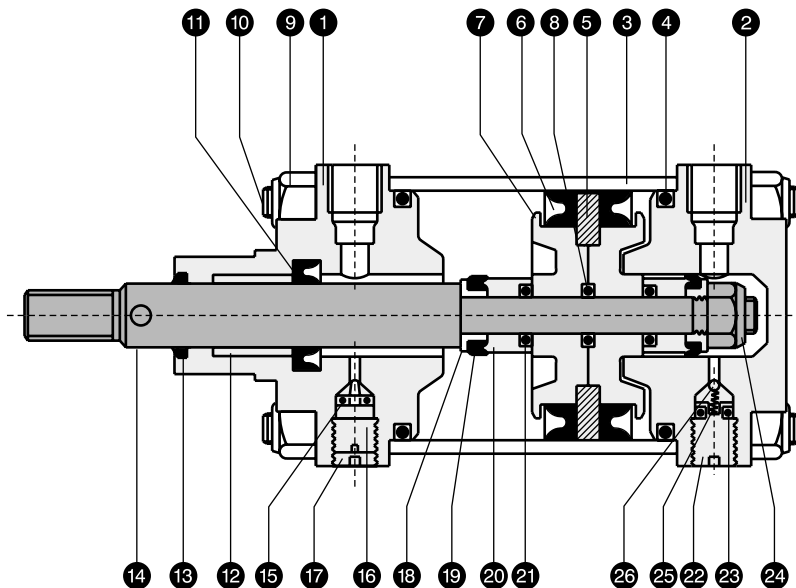


PART LIST

NO.	DESCRIPTION	QTY.
1	Front cover	1
2	Rear cover	1
3	Tube	1
4	'O' ring for cover	2
5	Wear ring	1
6	'U' cup seal for piston	2
7	Piston	2
8	'O' ring for piston	1
9	Tie rod nut	8
10	Tie rod	4
11	'U' cup for piston rod seal	1
12	Bush bearing	1
13	Wiper Seal	1
14	Piston rod	1
15	'O' ring for bleed screw	2
16	Bleed screw	2
17	Lock nut	2
18	Cap	2
19	Cushioning seal	2
20	Sleeve	2
21	'O' ring for sleeve	2
22	Check screw	2
23	'O' ring for check screw	2
24	Piston rod nut	1
25	Spring	2
26	Ball	2

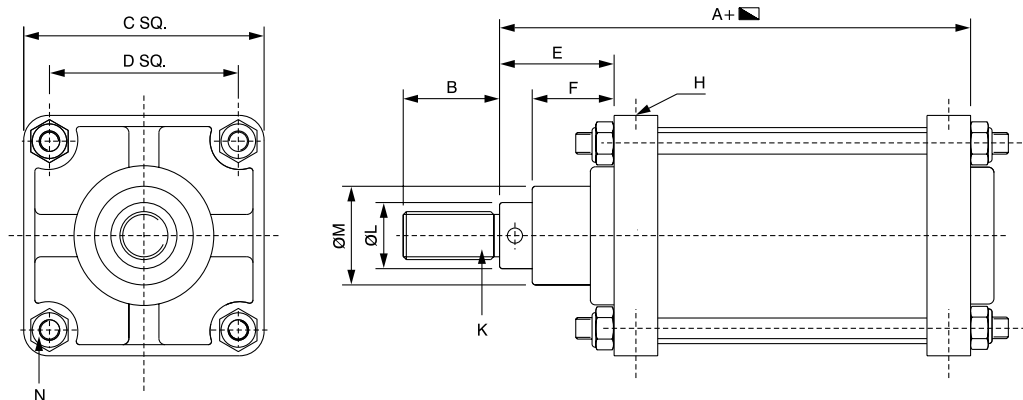
Seal kit consists of items 4, 6, 8, 11, 13, 15, 19, 21 & 23.



SPECIFICATIONS

Medium	Compressed Air, Filtered
Design	Pneumatic piston cylinder with adjustable cushioning at both ends
Max. operating pressure	10 bar
Temperature range	-10° C to 85° C (180° C for viton seals)
Material	a) End Covers : Aluminium with grey powder coating b) Piston Rod : EN8 Hard chrome plated (Stainless steel optional) c) Cylinder barrel : Brass with grey powder coating / Hard anodized aluminium d) Seals : NBR (Viton optional)

BASIC CYLINDER



BORE SIZE	A mm	B mm	C SQ. mm	D SQ. mm	E mm	F mm	H BSP	K BSF	K METRIC ALTERNATE	Ø L mm	Ø M mm	N BSF
38 (1-1/2")	125	21	51	37	48	35	1/4"	1/2" - 16	M 12 X 1.5 P	16	30	1/4" - 26
57 (2-1/4")	125	21	70	53	48	35	1/4"	1/2" - 16	M 12 X 1.5 P	16	30	5/16" - 26
63 (2-1/2")	125	21	76	57	48	35	1/4"	1/2" - 16	M 12 X 1.5 P	16	30	5/16" - 26
76 (3")	152	31	89	67	61	43	3/8"	3/4" - 12	M 20 X 1.5 P	25	42	3/8" - 20
102 (4")	154	31	112	86	61	43	3/8"	3/4" - 12	M 20 X 1.5 P	25	42	3/8" - 20

- Cylinder is offered with BSF threading as standard. For metric threadings on piston rod as per 'ALTERNATE' please specify while ordering.
- Heavy duty cylinders in ø 102mm (4") with 1-3/8" piston rod are also offered.
- Please refer data sheet no. PMC-11 for single acting / double ended cylinder.
PMC-12 for Reed switch cylinder.

PISTON THRUST CHART (Theoretical)

BORE SIZE		AIR PRESSURE (BAR)										FREE AIR CONSUMPTION IN 1/25mm STROKE @ 7 BAR PR.
		1	2	3	4	5	6	7	8	9	10	
		THRUST AVAILABLE (KGF)										
38 (1-1/2")	PUSH	11.4	22.8	34.2	45.6	57	68.4	79.8	91.2	102.6	114	0.22
	PULL	9.4	18.8	28.2	37.6	47	56.4	65.8	75.2	84.6	94	0.184
57 (2-1/4")	PUSH	25.6	51.2	76.8	102.4	128	153.6	179.2	204.8	230.4	256	0.504
	PULL	23.6	47.2	70.8	94.4	118	141.6	165.2	188.8	212.4	236	0.465
63 (2-1/2")	PUSH	31.7	63.4	95.1	126.8	158.5	190.2	221.9	253.6	285.3	317	0.625
	PULL	29.6	59.2	88.8	118.4	148	177.6	207.2	236.0	266.4	296	0.568
76 (3")	PUSH	45.6	91.2	136.8	182.4	228	273.6	319.2	364.8	410.4	456	0.9013
	PULL	40.6	81.2	121.8	162.4	203	243.6	284.2	324.8	365.4	406	0.804
102 (4")	PUSH	81.0	162	243	324	405	486	567	648	729	810	1.60
	PULL	76.1	152.2	228.3	304.4	380.5	456.6	532.7	608.8	684.9	761	1.53

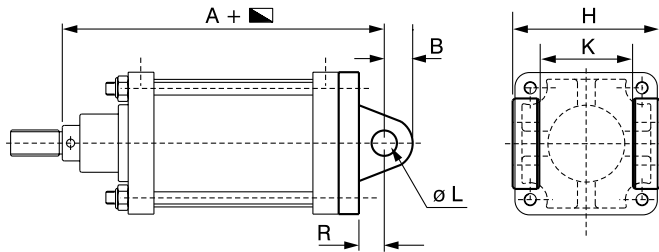
NOTE :

To decide cylinder bore size :

- Establish force required and working pressure available.
- Select working pressure on top of the chart.
- Select force required by reading down from selected working pressure.
- Read out cylinder bore size on left of the chart.

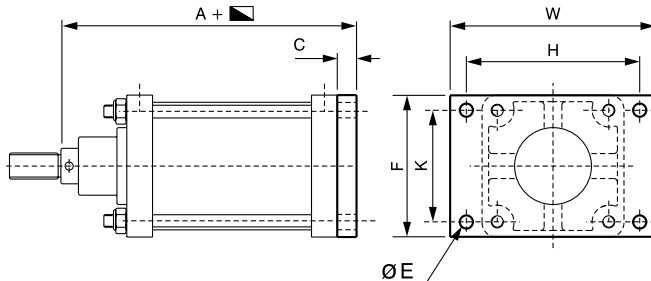
EXAMPLE : If it is established that the force required is 150 Kg. and working pressure available is 7 bar, above chart will lead you to select 2 1/4" bore cylinder.

DOUBLE TRUNNION MOUNTING



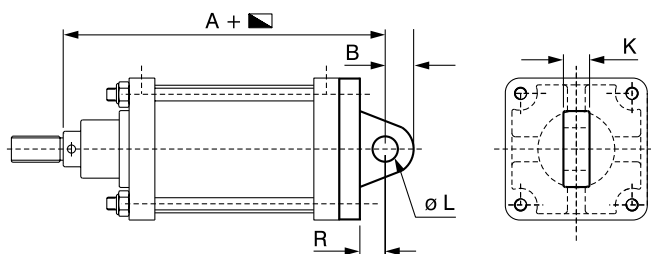
CYLINDER BORE	MTG. PART NO.	A mm	B mm	H mm	K mm	ØL mm	R mm
38 (1-1/2")	0101	150	12.7	54	32	12.7	16
57 (2-1/4")	0201	150	12.7	73	45	12.7	16
63 (2-1/2")	0A01	150	12.7	83	51	12.7	16
76 (3")	0301	186	19	92	57	19	22
102 (4")	0401	188	19	114	76	19	22

REAR PLATE MOUNTING



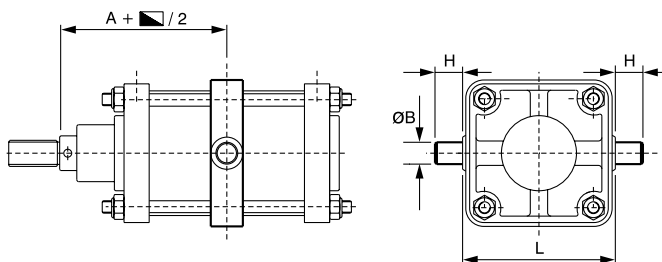
CYLINDER BORE	MTG. PART NO.	A mm	C mm	ØE mm	F mm	H mm	K mm	W mm
38 (1-1/2")	0103	134	10	7	51	67	37	83
57 (2-1/4")	0203	134	10	8	70	89	52	108
63 (2-1/2")	0A03	134	10	8	76	95	57	114
76 (3")	0303	164	13	10	89	111	67	134
102 (4")	0403	166	13	10	111	133	86	153

SINGLE TRUNNION MOUNTING



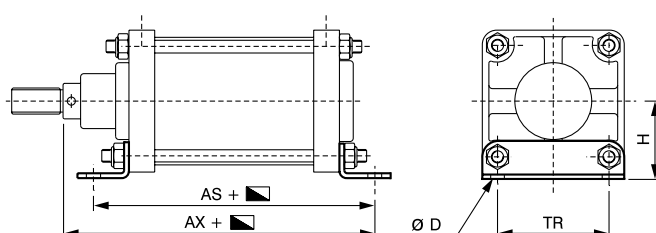
CYLINDER BORE	MTG. PART NO.	A mm	B mm	K mm	L mm	R mm
38 (1-1/2")	0108	158	12.7	19	12.7	16
57 (2-1/4")	0208	156	12.7	19	12.7	16
63 (2-1/2")	0A08	156	12.7	19	12.7	16
76 (3")	0308	196	19	25.4	19.1	22
102 (4")	0408	198	19	31.8	19.1	22

CENTRE TRUNNION MOUNTING



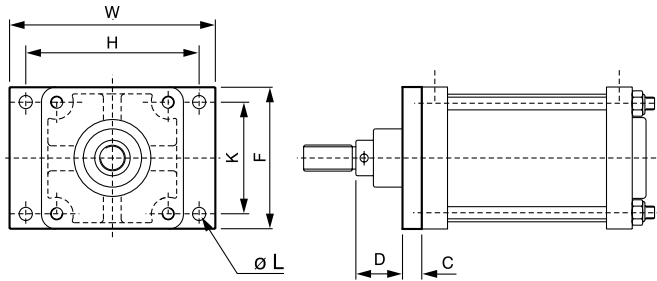
CYLINDER BORE	MTG. PART NO.	A mm	B mm	H mm	L mm
38 (1-1/2")	0105	107	19	25.4	60.4
57 (2-1/4")	0205	107	19	25.4	85.7
63 (2-1/2")	0A05	107	22	29.5	89.4
76 (3")	0305	136	25.4	29.5	103
102 (4")	0405	136	25.4	31.8	149.5

LEG MOUNTING



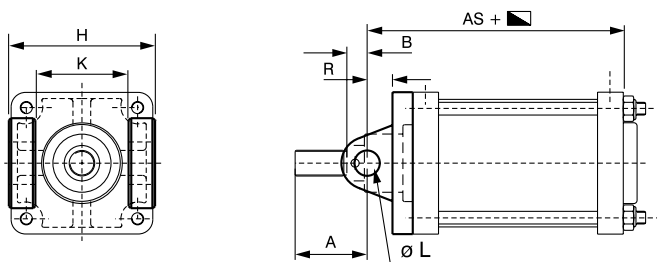
CYLINDER BORE	MTG. PART NO.	ØD mm	H mm	AS mm	AX mm	TR mm
38 (1-1/2")	0107	7	31	121	146	37
57 (2-1/4")	0207	9	40	127	149	52
63 (2-1/2")	0A07	9	42	127	149	57
76 (3")	0307	10	48	145	161	67
102 (4")	0407	10	57	147	181	86

FRONT PLATE MOUNTING



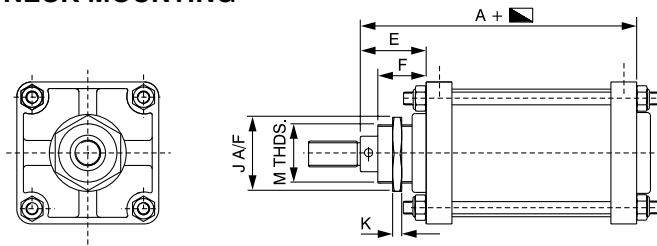
CYLINDER BORE	MTG. PART NO.	C mm	D mm	F mm	H mm	K mm	ØL mm	W mm
38 (1-1/2")	0104	10	39	57	67	37	7	83
57 (2-1/4")	0204	10	39	70	89	52	8	108
63 (2-1/2")	0A04	10	39	76	95	57	8	114
76 (3")	0304	13	49	89	111	67	10	134
102 (4")	0404	13	49	111	133	86	10	153

FRONT TRUNNION MOUNTING



CYLINDER BORE	MTG. PART NO.	A mm	B mm	H mm	K mm	ØL mm	R mm	AS mm
38 (1-1/2")	0102	54	12.7	54	32	12.7	16	102.4
57 (2-1/4")	0202	73	12.7	73	45	12.7	16	102.4
63 (2-1/2")	0A02	83	12.7	82	51	12.7	16	102.4
76 (3")	0302	92	19	92	57	19	22	126
102 (4")	0402	114	19	115	76	19	22	128

NECK MOUNTING



CYLINDER BORE	MTG. PART NO.	A mm	E mm	F mm	J mm	K mm	M BSP
38 (1-1/2")	0106	125	48	25	38	6	7/8"-14
57 (2-1/4")	0206	125	48	25	38	6	7/8"-14
63 (2-1/2")	0A06	125	48	25	38	6	7/8"-14
76 (3")	0306	152	61	32	51	10	1-1/4"
102 (4")	0406	154	61	32	51	10	1-1/4"

ORDERING INFORMATION

CYL. TYPE	BORE SIZE	CUSHIONING / PISTON ROD MTL./SEAL MTL.	MOUNTING & FORK	STROKE IN INCHES
C = Inch Series	1/2" = A1	Cushioned/En8/NBR = 1	MTG. ONLY	2.5" = 025
D = Sp. cyl. in inch series	3/4" = A2	Cushioned/En8/Viton = 2	0 = Basic = A	25" = 250
	1" = A3	Cushioned/S.S/NBR = 3	1 = Rear Trunnion = B	2.78" = 028
	1-1/2" = 01	Cushioned/S.S/Viton = 4	2 = Front Trunnion = C	80" = 800
	2-1/4" = 02	Non cushioned/En8/NBR = 5	3 = Rear Flange = D	
	2-1/2" = 0A	Non cushioned/En8/Viton = 6	4 = Front Flange = E	
	3" = 03	Non cushioned/S.S/NBR = 7	5 = Centre Trunnion = F	
	4" = 04	Non cushioned/S.S/Viton = 8	6 = Neck Mounting = G	
			7 = Leg Mounting = H	
			8 = Single Trunnion = I	

Typical Example : 2-1/2" X 2.73" cushioned cylinder with Rear trunnion mounting having S.S. piston rod and viton seals : C0A41027