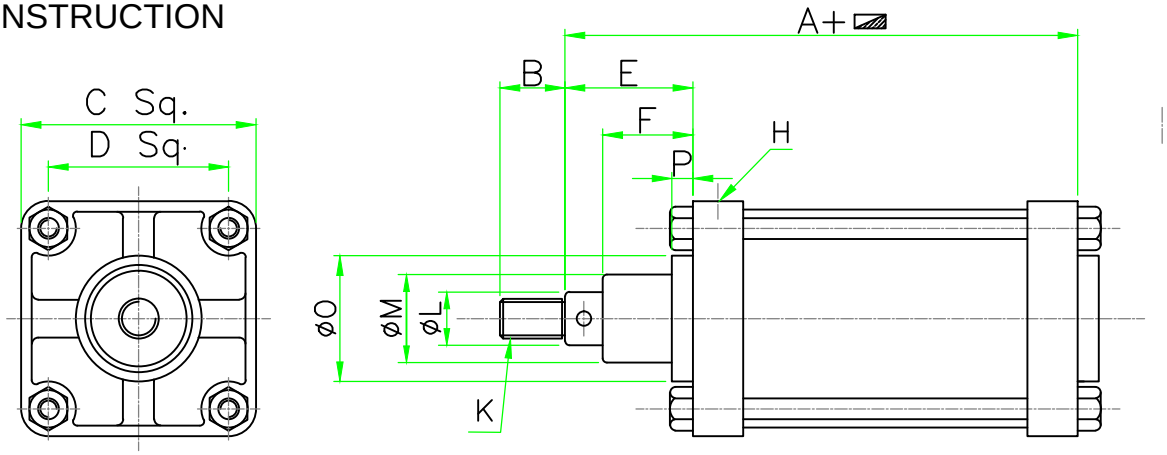
HONEYTECH Controls (I) Pvt. Ltd.

DOUBLE ACTING SMALL BORE CYLINDER TIE ROD CONSTRUCTION



*DIMENSIONAL DETAILS

: STROKE OF THE CYLINDER

BORE SIZE	A mm	B mm	C,Sq. mm	D,Sq. mm	E mm	F mm	H BSP	K–BSF	*K–Metric Alternate	øL	øM	N–BSF	øO	P
38 (1–1/2")	125	21	51	37	48	35	1/4"	1/2"–16	M12x1.5P	16	30	1/4"–26	35	10
51 (2")	125	21	63	45	48	35	1/4"	1/2"–16	M12x1.5P	16	30	5/8"	40	10
57 (2–1/4")	125	21	70	53	48	35	1/4"	1/2"–16	M12x1.5P	16	30	5/16"–26	45	10
63 (2–1/2")	125	21	76	57	48	35	1/4"	1/2"–16	M12x1.5P	16	30	5/16"–26	45	10
63(2–1/2"(1")	151	31	76	57	61	43	1/4"	3/4"–12	M20x1.5P	25	42	5/16"26	50	10
76 (3")	151	31	89	67	61	43	3/8"	3/4"–12	M20x1.5P	25	42	3/8"–20	60	10
102 (4")	151	31	112	86	61	43	3/8"	3/4"–12	M20x1.5P	25	42	3/8"–20	60	10

* We Offer BSF threading on piston rod as a standard but metric threads can be provided with prior information on parchase order.
* Heavy duty cylinders in Ø102 mm (4") with 32mm piston rod are also offered.

PISTON THRUST CHART (Theoretical)

BORE SIZE		AIR PRESSURE (BAR)										FREE AIR CONSUMPTION Litters/25mm stroke
		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
50.8 (2")	PUSH	19.62	39.24	58.86	78.48	98.1	117.72	137.34	156.96	176.58	196.2	0.205
	PULL	17.27	34.54	51.81	69.08	86.35	103.62	120.89	138.16	155.43	172.7	0.310
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 150kg and working pressure available is 7 bar ,above chart will lead you to select $2\frac{1}{4}$"bore Cylinder.