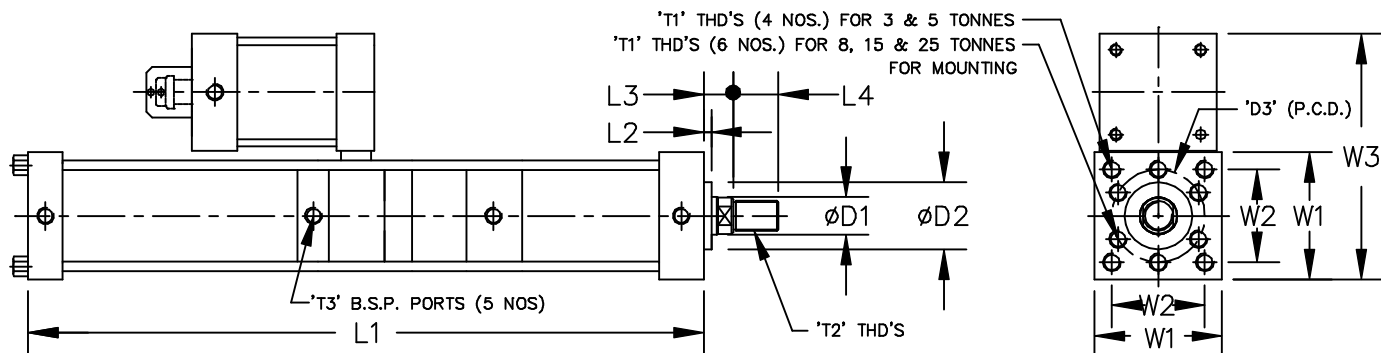


GRAVITY SERIES 'CH' PRESS CYLINDER DIMENSIONS



Model No.	TON	Total Stroke	Power Stroke	L1	L2	L3	L4	D1	D2	D3	W1	W2	W3	T1	T2	T3	Q(NL) Free Air Consumed/Cycle
CH-03-050-06	03	050	06	475	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	7.2
CH-03-075-06	03	075	06	525	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	8.0
CH-03-100-06	03	100	06	575	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	8.9
CH-03-150-06	03	150	06	675	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	10.8
CH-03-075-12	03	075	12	629	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	11.8
CH-03-100-12	03	100	12	679	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	12.7
CH-03-150-12	03	150	12	779	5	19	30	25	45	-	85	62	163	M12 X 1.75	M20 X 1.5	G1/4	14.6
CH-05-050-06	05	050	06	538	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	12.5
CH-05-075-06	05	075	06	588	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	14.2
CH-05-100-06	05	100	06	638	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	15.6
CH-05-150-06	05	150	06	738	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	18.6
CH-05-075-12	05	075	12	710	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	21.4
CH-05-100-12	05	100	12	760	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	22.8
CH-05-150-12	05	150	12	860	5	22	35	32	55	-	108	78	203	M16 X 2	M24 X 2	G1/4	25.8
CH-08-050-06	08	050	06	580	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	19.6
CH-08-075-06	08	075	06	630	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	22.0
CH-08-100-06	08	100	06	680	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	24.0
CH-08-150-06	08	150	06	780	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	28.6
CH-08-075-12	08	075	12	750	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	33.2
CH-08-100-12	08	100	12	800	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	35.2
CH-08-150-12	08	150	12	900	5	24	35	50	75	105	130	-	259	M16 X 2	M36 X 2	G1/2	39.7
CH-15-050-06	15	050	06	631	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	34.4
CH-15-075-06	15	075	06	681	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	38.6
CH-15-100-06	15	100	06	731	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	41.7
CH-15-150-06	15	150	06	831	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	49.0
CH-15-075-12	15	075	12	819	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	58.6
CH-15-100-12	15	100	12	869	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	61.7
CH-15-150-12	15	150	12	969	5	25	35	56	90	125	182	-	322	M20 X 2.5	M40 X 2	G1/2	69.0
CH-25-050-06	25	050	06	698	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	61.6
CH-25-075-06	25	075	06	748	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	68.5
CH-25-100-06	25	100	06	798	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	74.1
CH-25-150-06	25	150	06	898	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	86.0
CH-25-075-12	25	075	12	898	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	104.1
CH-25-100-12	25	100	12	948	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	109.8
CH-25-150-12	25	150	12	1048	5	26	40	63	90	150	205	-	383	M24 X 3	M48 X 3	G1/2	121.7

TO CALCULATE COMPRESSOR POWER CAPACITY

1 H.P. = 120 LITRES OF FREE AIR (NL) PER MINUTE AT 5 BAR

N = NUMBER OF CYCLES PER MINUTE

Q = FREE AIR CONSUMED PER CYCLE (FROM CHART) IN NORMAL LITRES (NL)

$$\text{POWER REQUIRED} = \frac{Q \times N}{120} \text{ (H.P.) OR } \frac{Q \times N}{120} \times 0.746 \text{ (KW)}$$

Output Forces (Kgf.) at Inlet Air Pressure of 5 Bars					
Tonnage	3T	5T	8T	15T	25T
Approach	155	251	392	613	1005
Power	2710	5089	7757	14070	25132
Return	131	211	294	490	849