

Manöverdon

Pneumatic Actuator - Double Acting

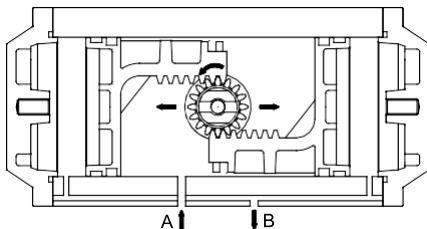


The operating principle of double acting actuator

Sizing example of HAITIMA double acting actuator:

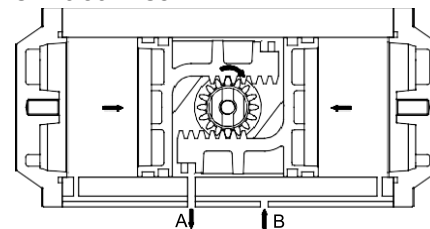
Valve torque 100Nm plus 30% safety factor= 130N.m. Minimum operating pressure 6bar. By reading down the 6bar column the figure below 130N.m is 189.4N.m, The model number shown in the left hand column is therefore HTD-105.

CCW-counter-clockwise



Air to port A forces the pistons outwards, causing the piston to turn counter-clockwise while air is being exhausted from port B.

CW-clockwise



Air to port B forces the pistons inwards, causing the piston to turn clockwise while air is being exhausted from port A.

Torque Table of Double Acting Actuator Unit: in.lbs

Model	Air Supply Pressure						
	40 Psi	50 Psi	60 Psi	70 Psi	80 Psi	90 Psi	100 Psi
HTD-032	33	43	54	63	72	80	86
HTD-052	94	118	142	165	189	212	236
HTD-063	168	210	252	294	336	378	420
HTD-075	274	342	409	477	545	613	681
HTD-083	344	430	516	602	688	775	860
HTD-092	527	660	792	923	1054	1186	1318
HTD-105	770	967	1163	1350	1541	1733	1926
HTD-125	1323	1654	1985	2316	2647	2977	3308
HTD-140	1992	2489	2987	3485	3983	4481	4979
HTD-160	3067	3834	4601	5368	6135	6902	7669
HTD-190	4944	6180	7415	8651	9887	11123	12360
HTD-210	6794	8492	10191	11889	13587	15286	16984
HTD-240	10649	13311	15973	18636	21298	23961	26623
HTD-270	14975	18719	22463	26207	29950	33694	37438
HTD-300	18377	22975	27574	32168	36762	41357	45951
HTD-350	27517	34397	41280	48163	55041	61920	68803
HTD-400	39209	49015	58822	68624	78426	88229	98031

Unit: N.m

Model	Air Supply Pressure					
	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar	8 Bar
HTD-032	4.1	5.9	7.4	8.8	9.8	11.3
HTD-052	11.6	15.5	19.3	23.2	27.1	31
HTD-063	20.6	27.5	34.4	41.3	48.2	55
HTD-075	33.7	44.7	55.9	67	78.2	89.3
HTD-083	42.3	56.4	70.5	84.6	98.7	112.9
HTD-092	64.8	86.5	108	129.6	151.2	172.8
HTD-105	94.7	127.2	157.8	189.4	220.9	252.5
HTD-125	162.7	216.9	271.1	325.3	379.5	433.8
HTD-140	244.8	326.4	408	489.6	571.2	652.8
HTD-160	377	502.7	628.4	754.1	879.7	1005.4
HTD-190	607.7	810.2	1012.8	1215.3	1417.9	1620.4
HTD-210	835.1	1113.4	1391.8	1670.1	1948.4	2226.9
HTD-240	1309	1745.2	2181.6	2617.9	3054.2	3490.5
HTD-270	1840.7	2454.2	3067.8	3681.3	4294.9	4908.5
HTD-300	2258.8	3012.7	3765.6	4518.6	5271.5	6024.5
HTD-350	3382.1	4510.1	5638.1	6765.2	7893.2	9020.2
HTD-400	4819.4	6426.8	8033.2	9639.7	11246.2	12852.6

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