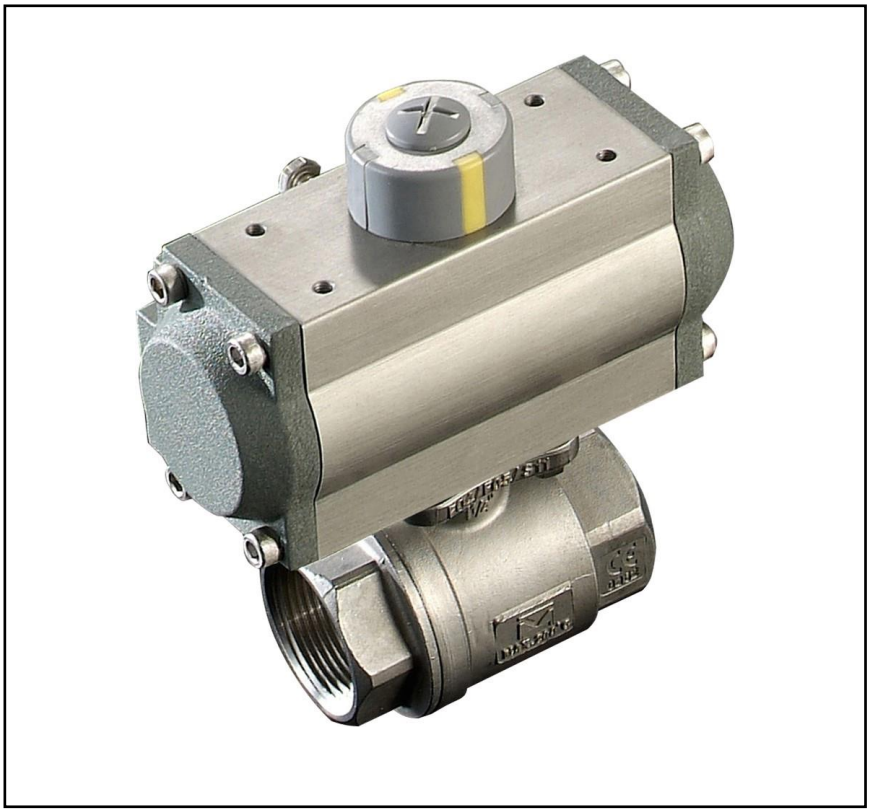
Features

- Full Port, 1/2"with Double Acting pneumatic actuator
- Working Pressure: 1000 WOG(PN63)
- Working Tempertuare: -20℃~200℃
- Investment Casting
- Blow-out proof stem
- Live-loading design
- Anti-static device
- Locking device
- ISO 5211 Direct mounting pad Thread Type: BSP

RS PRO 316 2 pieces Ball Valve, 1/2" with Double Acting pneumatic actuator 5.5 Bar

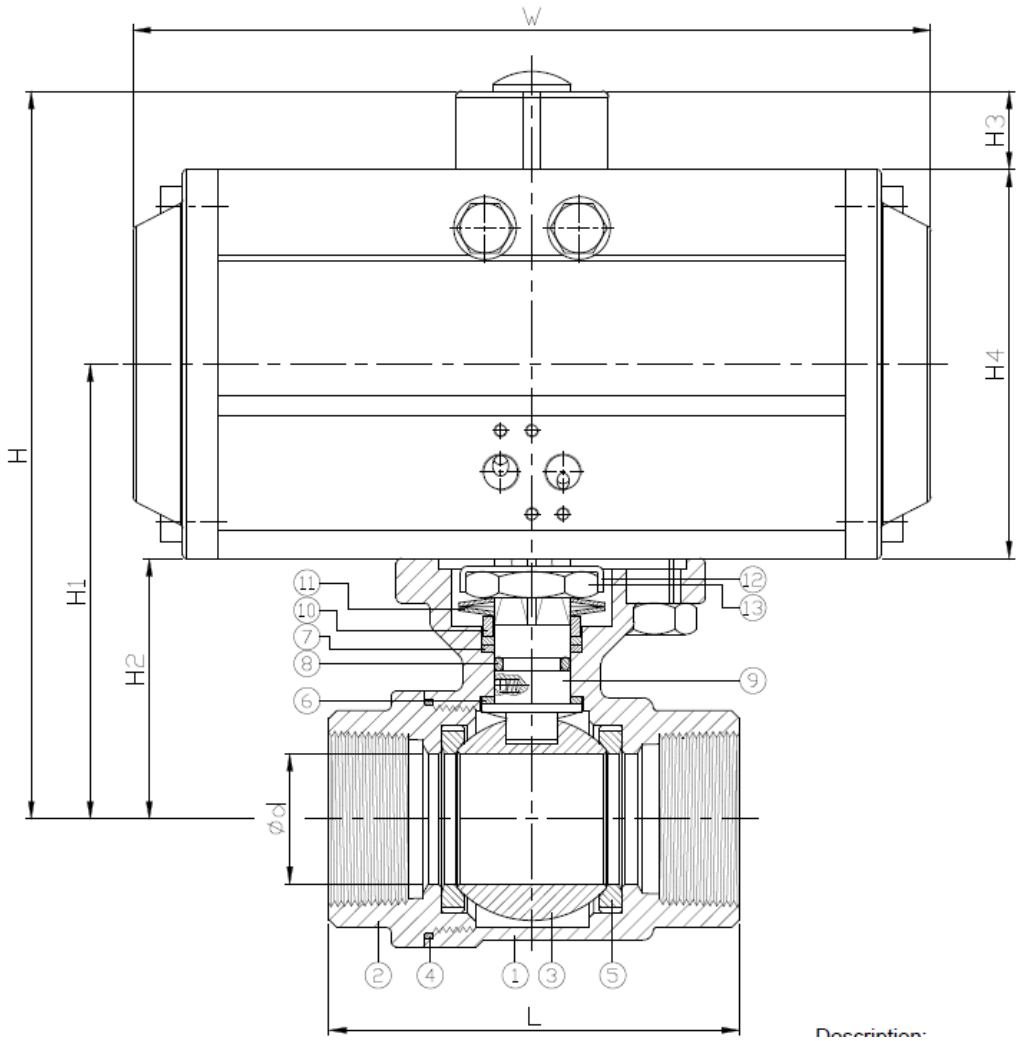
RS Stock No.: 0834642



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Similar Products

RS Stock No.	MPN	Actuators Model	DN (mm)	NPS	L (mm)	H		W (mm)
						H	H1	
	834640	834640	DN8	1/4"	58	62	8	113.5
	834641	834641	DN10	3/8"	58	62	8	113.5
	834642	834642	DN15	1/2"	58	62	8	113.5
	834643	834643	DN20	3/4"	65.6	65	8	113.5
	834644	834644	DN25	1"	78.7	76	11.8	140
	834646	834646	DN32	1 1/4"	90	81.5	11.5	140
	834647	834647	DN40	1 1/2"	105	103	11.3	172
	834648	834648	DN50	2"	124	111.5	10.4	172
	834649	834649	DN80	3"	163.7	150	100.75	325



Description:

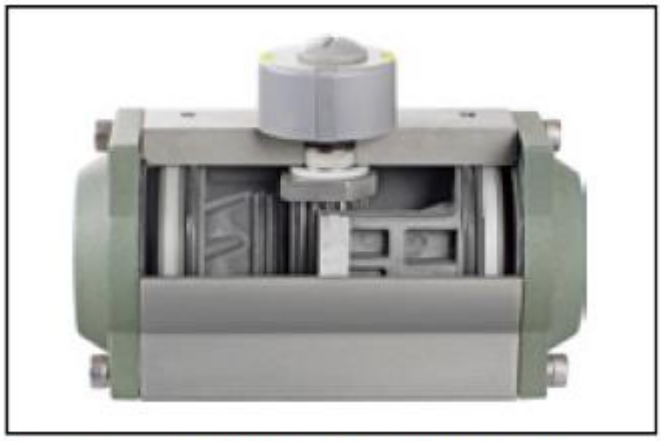
DN	d	L	H	H1	H2	H3	H4	W	ACTUATOR
8	11.6	58	101.4	59.4	36.4	19	46	114	HTD-032
10	12.7	58	101.4	59.4	36.4	19	46	114	HTD-032
15	15	58	101.4	59.4	36.4	19	46	114	HTD-032
20	20	65.6	133.2	76.2	39.2	20	74	158	HTD-052
25	25	78.7	142.7	85.7	48.7	20	74	158	HTD-052
32	32	90	148.2	91.2	54.2	20	74	158	HTD-052
40	38	105	173.7	109.7	65.7	20	88	190	HTD-063
50	50	124	183.5	119.5	75.5	20	88	190	HTD-063
65	63	146.2	220.5	146	91.5	20	109	213	HTD-083
80	76	163.7	229.8	155.3	100.75	20	109	213	HTD-083

unit:mm

NPS	d	L	H	H1	H2	H3	H4	W	ACTUATOR
1/4"	0.46	2.28	3.99	2.34	1.43	0.75	1.81	4.49	HTD-032
3/8"	0.5	2.28	3.99	2.34	1.43	0.75	1.81	4.49	HTD-032
1/2"	0.59	2.28	3.99	2.34	1.43	0.75	1.81	4.49	HTD-032
3/4"	0.79	2.58	5.24	3	1.54	0.79	2.91	6.22	HTD-052
1"	0.98	3.1	5.62	3.37	1.92	0.79	2.91	6.22	HTD-052
1-1/4"	1.26	3.54	5.83	3.59	2.13	0.79	2.91	6.22	HTD-052
1-1/2"	1.5	4.13	6.84	4.32	2.59	0.79	3.46	7.48	HTD-063
2"	1.97	4.88	7.22	4.7	2.97	0.79	3.46	7.48	HTD-063
2-1/2"	2.48	5.76	8.68	5.75	3.6	0.79	4.29	8.39	HTD-083
3"	2.99	6.44	9.05	6.11	3.97	0.79	4.29	8.39	HTD-083

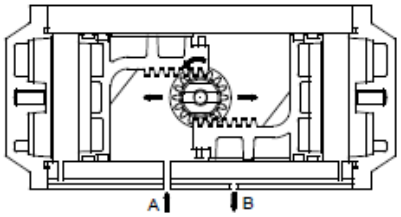
unit:in

ITEM	PARTS	MATERIAL	
1	BODY	ASTM A351-CF8M	ASTM A216-WCB
2	CAP	1.4408	1.0619
3	BALL	ASTM A351-CF8M	
4	SEAL	PTFE	
5	SEAT	PTFE / RTFE / TFM 1600	
6	THRUST WASHER	PTFE	
7	PACKING		
8	O-RING	VITON	
9	STEM	ASTM A276-316	
10	GLAND RING	AISI 304	
11	BELLEVILLE WASHER	AISI 301	
12	LOCK WASHER	AISI 304	
13	STEM NUT		



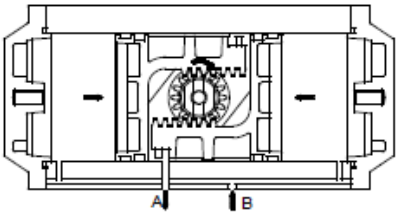
The operating principle of double acting actuator

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

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