

Features

- Full Port, 3" with Single Acting pneumatic actuator
- Working Pressure: 1000 WOG(PN63)
- Working Tempertuare: - 20°C~200°C
- 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, 3" with Single Acting pneumatic actuator 5.5 Bar

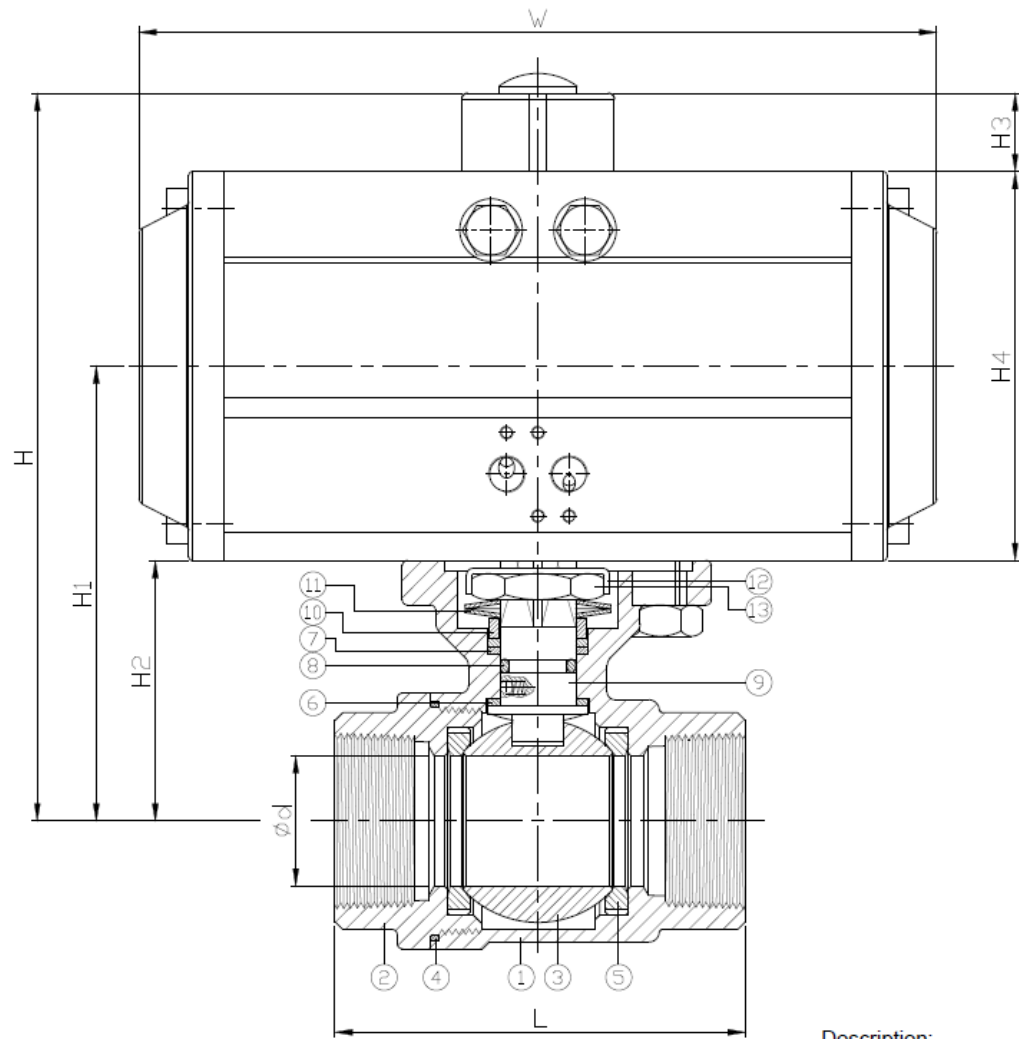
RS Stock No.: 0834659



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	
	834650	834650	DN8	1/4"	58	62	8	113.5
	834652	834652	DN10	3/8"	58	62	8	113.5
	834653	834653	DN15	1/2"	58	62	8	113.5
	834655	834655	DN25	1"	78.7	76	11.8	140
	834658	834658	DN50	2"	124	111.5	10.4	172
	834659	834659	DN80	3"	163.7	150	100.75	325



Description:

DN	d	L	H	H1	H2	H3	H4	W	ACTUATOR
8	11.6	58	130.4	73.4	36.4	20	74	158	HTS-052-10
10	12.7	58	130.4	73.4	36.4	20	74	158	HTS-052-10
15	15	58	130.4	73.4	36.4	20	74	158	HTS-052-10
20	20	65.6	147.2	83.2	39.2	20	88	190	HTS-063-10
25	25	78.7	168.7	98.7	48.7	20	100	190	HTS-075-10
32	32	90	174.2	104.2	54.2	20	100	206	HTS-075-10
40	38	105	194.7	120.2	65.7	20	109	213	HTS-083-10
50	50	124	215.5	135.5	75.5	20	120	259	HTS-092-10
65	63	146.2	244.5	158	91.5	20	133	284	HTS-105-10
80	76	163.7	275.8	178.3	100.75	20	155	340	HTS-125-10

unit mm

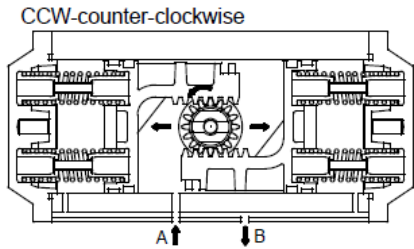
NPS	d	L	H	H1	H2	H3	H4	W	ACTUATOR
1/4"	0.46	2.28	5.13	2.89	1.43	0.79	2.91	6.22	HTS-052-10
3/8"	0.5	2.28	5.13	2.89	1.43	0.79	2.91	6.22	HTS-052-10
1/2"	0.59	2.28	5.13	2.89	1.43	0.79	2.91	6.22	HTS-052-10
3/4"	0.79	2.58	5.8	3.28	1.54	0.79	3.46	7.48	HTS-063-10
1"	0.98	3.1	6.64	3.89	1.92	0.79	3.94	7.48	HTS-075-10
1-1/4"	1.26	3.54	6.86	4.1	2.13	0.79	3.94	8.11	HTS-075-10
1-1/2"	1.5	4.13	7.67	4.73	2.59	0.79	4.29	8.39	HTS-083-10
2"	1.97	4.88	8.48	5.33	2.97	0.79	4.72	10.2	HTS-092-10
2-1/2"	2.48	5.76	9.63	6.22	3.6	0.79	5.24	11.18	HTS-105-10
3"	2.99	6.44	10.86	7.02	3.97	0.79	6.1	13.39	HTS-125-10

unit in

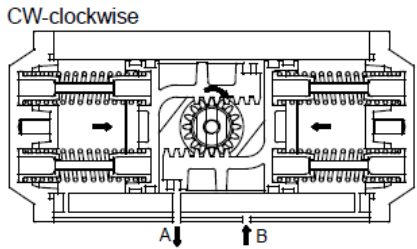
ITEM	PARTS	MATERIAL	
1	BODY	ASTM A351-CF8M	ASTM A216-WCB
2	CAP	1.4408	1.0619
3	BALL	ASTM A351-CF8M	
4	SEAL	PTFE	
5	SEAT	PTFE / RTFE / TFM 1600	
6	THRUST WASHER	PTFE	
7	PACKING		
8	O-RING	VITON	
9	STEM	ASTM A276-316	
10	GLAND RING	AISI 304	
11	BELLEVILLE WASHER	AISI 301	
12	LOCK WASHER	AISI 304	
13	STEM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



The operating principle of single acting spring return actuator



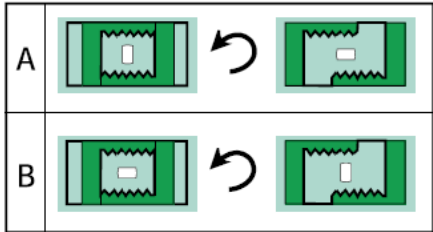
Air to port A forces the pistons outwards, causing the springs to compress. The pinion turns counter-clockwise while air is being exhausted through port B.



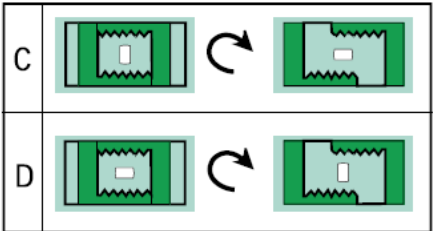
Loss of air pressure through port A allows the stored energy in the springs to force the pistons inwards. The pinion turns clockwise while air is being exhausted through port A.

Mounting Variations

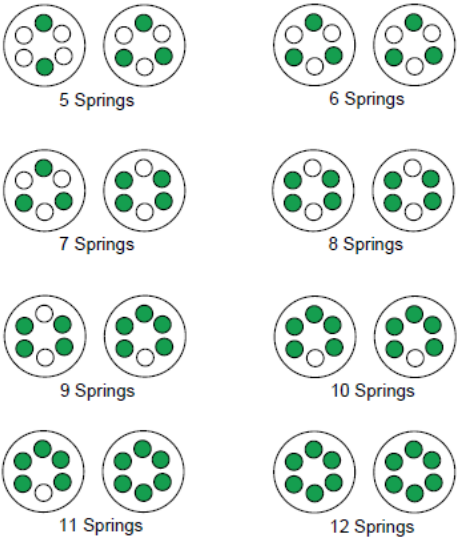
CCW-counter-clockwise



CW-clockwise



Spring Arrangement



Unit: in.lbs

Unit: in.lbs	Spring Set	Spring Torque		Air Supply Pressure													
				40 Psi		50 Psi		60 Psi		70 Psi		80 Psi		90 Psi		100 Psi	
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
HTS-052	5	34	54	61	40	84	61	108	83								
	6	40	65	54	30	78	51	101	73								
	7	46	75	49	21	72	42	95	64								
	8	53	86			65	33	89	55	112	77	136	98				
	9	60	97					82	45	106	67	129	88				
	10	66	108					76	35	99	58	123	79	146	101	169	122
	11	73	119							93	48	116	70	139	91	163	113
	12	80	129							86	39	109	61	133	82	156	104
HTS-063	5	55	97	114	69	157	106	200	143								
	6	67	116	101	53	144	90	187	127								
	7	78	136	88	38	131	75	175	112								
	8	89	155			120	59	163	95	206	132	250	169				
	9	100	174			107	43	150	80	194	117	238	154				
	10	110	194					140	64	183	101	226	138	270	175	313	212
	11	122	213							170	85	213	122	257	159	300	196
	12	133	233							158	69	201	106	245	143	288	180
HTS-075	5	100	155	177	119	246	183	315	248								
	6	119	186	157	91	226	156	295	220								
	7	140	217	136	63	205	128	275	192								
	8	160	248			184	99	254	164	324	229	394	294				
	9	179	279			165	72	234	136	304	201	374	266				
	10	199	310					214	108	284	173	353	238	422	302	492	367
	11	219	341							263	146	333	210	402	274	472	339
	12	239	372							244	118	313	182	382	246	452	311
HTS-083	5	122	188	224	157	310	238	397	319								
	6	146	225	201	123	287	204	374	286								
	7	171	264	177	89	263	170	349	251								
	8	195	301			239	136	325	218	411	300	497	381				
	9	219	339			215	102	301	184	387	265	474	347				
	10	244	376					277	150	363	232	450	313	536	395	621	476
	11	268	414							340	198	426	280	512	362	598	442
	12	293	452							316	164	402	245	488	326	574	408
HTS-092	5	194	289	336	241	469	374	601	506								
	6	233	347	297	183	430	316	562	448								
	7	272	405	259	125	391	258	524	390								
	8	311	463			352	200	485	333	617	465	750	598				
	9	349	521			313	143	446	275	579	407	711	540				
	10	388	578					407	217	540	349	672	482	805	615	937	747
	11	427	636							501	292	633	424	766	557	899	689
	12	466	694							462	234	595	366	727	499	860	631
HTS-105	5	264	432	502	327	703	509	905	690								
	6	318	519	446	252	647	434	849	615								
	7	370	604	391	178	592	359	794	541								
	8	423	691			547	293	736	463	925	634	1115	805				
	9	476	775			491	220	680	390	869	561	1059	732				
	10	529	864					625	314	814	484	1008	659	1204	835	1399	1011
	11	581	951							758	408	953	584	1148	759	1342	936
	12	635	1036							702	333	897	509	1092	685	1288	862
HTS-125	5	463	738	861	575	1203	889	1544	1202								
	6	555	886	760	440	1102	753	1443	1066								
	7	647	1033	660	307	1002	619	1343	931								
	8	740	1181			900	483	1242	796	1583	1109	1925	1422				
	9	832	1329			799	347	1141	660	1482	973	1824	1286				
	10	925	1477					1040	525	1381	838	1723	1151	2064	1464	2458	1825
	11	1017	1624							1281	703	1623	1016	1964	1329	2358	1642
	12	1110	1771							1180	568	1521	881	1863	1194	2204	1507