JUHANG.CN

STAINLESS STEEL
PNEUMATIC ACTUATOR

Taizhou Juhang Automation Equipment Technology Co., Ltd

JHA SERIES STAINLESS STEEL PNEUMATIC ACTUATORS

JHA new type of rack & pinion stainless steel pneumatic actuator integrates the latest technology at home and abroad by Taizhou Juhang Company.Through the innovative optimization design of CAD three-dimensional model, it has beautiful and compact appearance and modern shape. It also uses practical new materials and new technology to make the quality and performance of products more reliable; multi-specification selection is more economical; To meet present and future needs, the whole range products fully conforms to the latest international standards and technical specifications.

1.Rack& pinion double piston symmetrical structure design, fast and smooth movement, high accuracy, high output power, by simply changing the piston assembly position can be obtained in the opposite direction of rotation.

2. Silica Sol precision casting stainless steel cylinder block is treated by shot peening and pickling (Teflon coating under special circumstances) on the inner hole and outer surface processed by machining center. The friction coefficient is low and the service life is longer.

3. Integral design,all double-acting and single-acting actuator models have the same cylinder block and end cap. It is very convenient to change the mode of action by installing or removing springs.

4.The combined safety spring group can be installed conveniently and safely, or the number of springs can be increased or decreased, whether in the assembly process or in the use site.

5.Two separate adjusting screw on the outer side can adjust the valve switch position more accurately and conveniently to the actuator installed on the valve. If the whole trip is needed, a longer adjusting screw is arranged at the two end caps.

6.Multifunctional position indicator, field visual indication, in line with VDI/VDE3845, NAMUR indicator slot, can install and output all accessories, such as limit switch box,electrical positioner, position sensor.

7.The air source interface meets the NAMUR standard, and NUMAR standard solenoid valves can be installed directly.

8.Composite material on the back of rack, piston guide ring and bearing on output shaft can reduce metal friction, increase lubrication and make it low friction and long life.

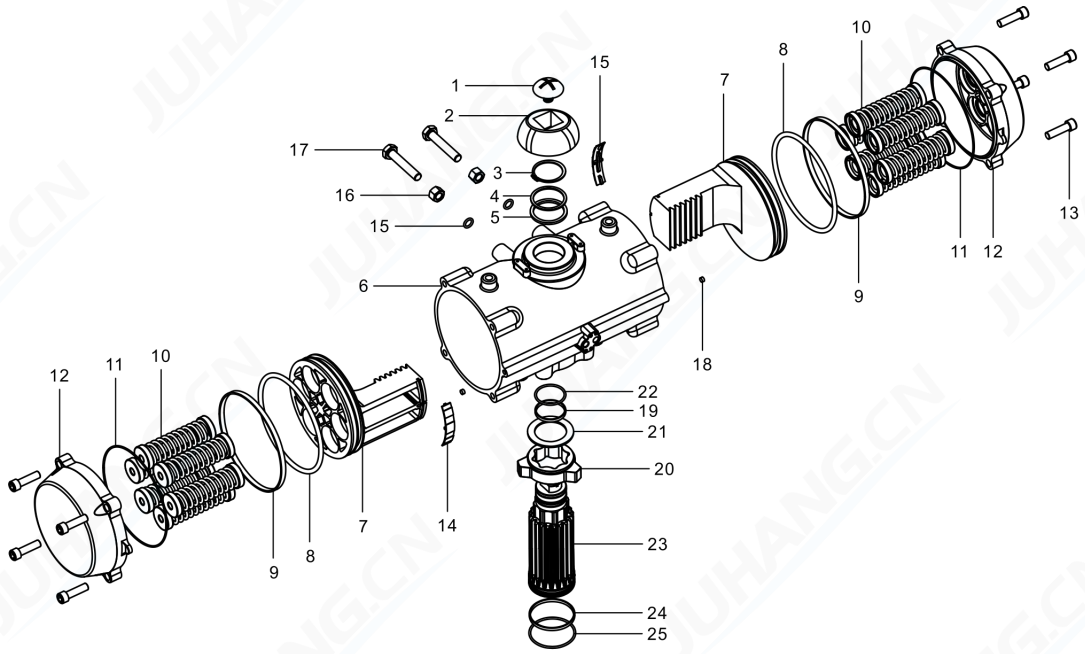
9.All fasteners are stainless steel, long-term corrosion resistance.

10.The connection conforms to the new international standard ISO5211 and DIN3337 to make the product universal.

Ordering Code

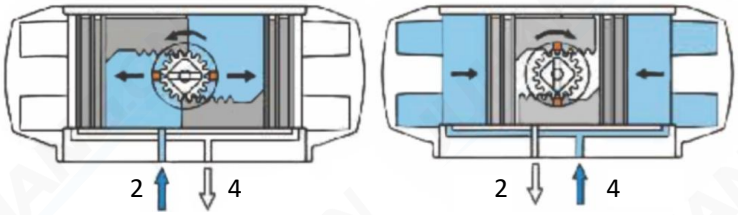
JHA 0015 SR K10 S SS

- **Main Material** — SS=Stainless steel type（304 /316）
- **Operating Temperature** — S= Standard operating temperature -20℃ to 80℃; H= High operating temperature -20℃ to 150℃; L= Low operating temperature -40℃ to 80℃
- **Spring Quantity** — Spring quantity at both ends:2-12pcs (only for the SR models)
- **Mode of Action** — DA=Double-action positive rotation; SR=Single-action positive rotation
- **Cylinder Model** — Model No：0015-8000
- **Series Name** — JHA：Rack and pinion pneumatic actuator

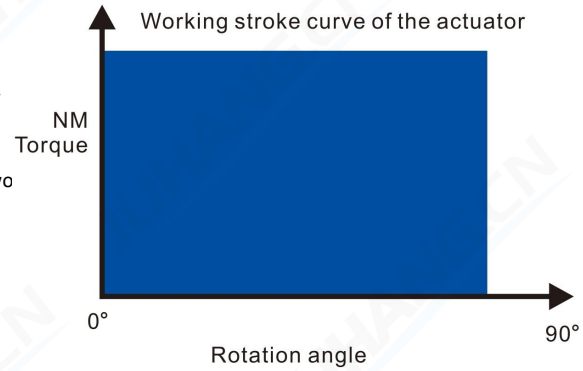


NO.	Description	Material
01	Indicator Screw	Plastic
02	Indicator	Plastic
03	Circlip	Stainless Steel
04	Washer	Stainless Steel
05	Outside Washer	Engineering Plastic
06	Housing	Stainless Steel
07	Piston	Stainless Steel
08	O-ring (Piston)	Viton/NBR
09	Bearing(Piston)	Engineering Plastic
10	Spring	Spring Steel
11	O-ring (End-Cap)	Viton/NBR
12	End-Cap	Stainless Steel
13	Screw (End-Cap)	Stainless Steel
14	Piston Guide	Nylon
15	O-ring (Adjust screw)	NBR
16	Adjustment nuts	Stainless Steel
17	Adjust screw	Stainless Steel
18	Plug	NBR
19	Inside Washer	Engineering Plastic
20	Cam	Stainless Steel
21	Bearing (Top)	Engineering Plastic
22	O-ring (Top)	Viton/NBR
23	Pinion	Stainless Steel
24	Bearing (Bottom)	Engineering Plastic
25	O-ring (Bottom)	Viton/NBR

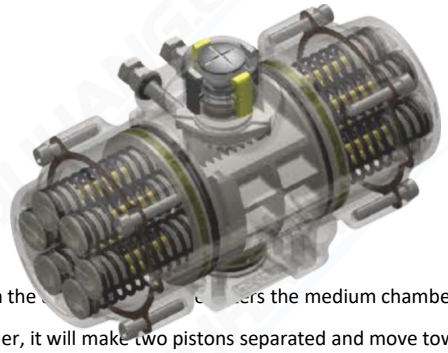
Double Action (DA)

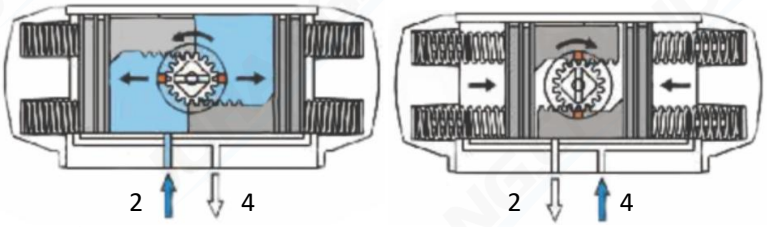


When the air supply pressure enters the medium chamber between two pistons of the cylinder from the gas port (2), it will make two pistons
separated and moving toward both ends of the cylinder respectively; the air in the air chamber at both ends will be discharged from the gas port(4),and two piston racks will drive the out-put shaft (gear)to rotate
counterclockwise. On the contrary, when the air supply pressure enters the air chamber at both ends from the gas port (4), it will make two pistons move toward middle of the cylinder; the air in the medium chamber will be discharged from the gas port (2); and two piston racks will drive the output shaft (gear) to rotate clockwise.

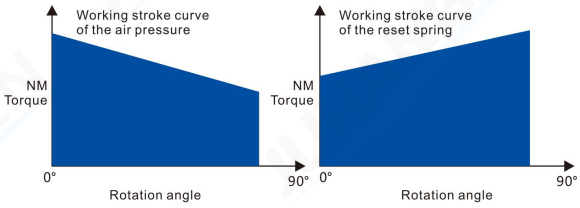


Single Action (SR)





When the [illegible]rs the medium chamber between two pistons of the cylinder, it will make two pistons separated and move toward both ends of the cylinder and compress springs at both ends; the air in the air chamber at both ends will be discharged from the gas port (4); two piston racks will drive the output shaft (gear) to rotate counter-clockwise.When the air supply pressure is commutated by the solenoid valve, two pistons of the cylinder will move towards the middle part, under the pressure of springs, and the air in the medium chamber will be dis-charged from the air port (2); two piston racks will drive the output shaft (gear) to rotate clockwise (if the piston is fixed in opposite direction, the output shaft will rotate in the opposite direction when the spring is reset, and it will become single-action reverse-rotation FO model).



Model selection for Double Action Actuators

When selecting a model, a safety factor should be considered which is generally 30% to 50%.

Example:
Valve torque =100N.m
Safe torque=100×(1+30%)=130N·m
Air source pressure =5bar
Check the table, under the pressure of 5bar air source, the minimum specification of the double-acting actuator is JHA0160DASSoutput torque 162.9N.m

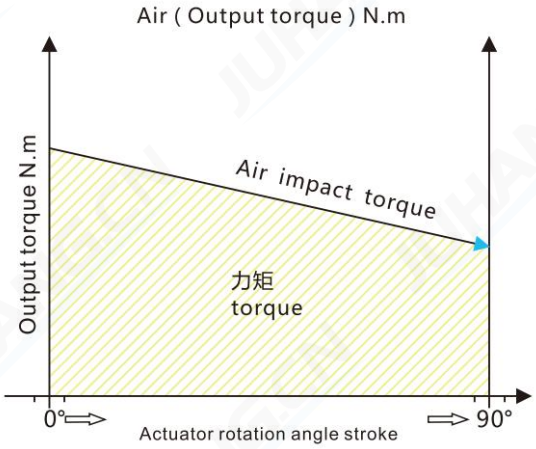
Output Torque(N.m) of Double Action Actuators

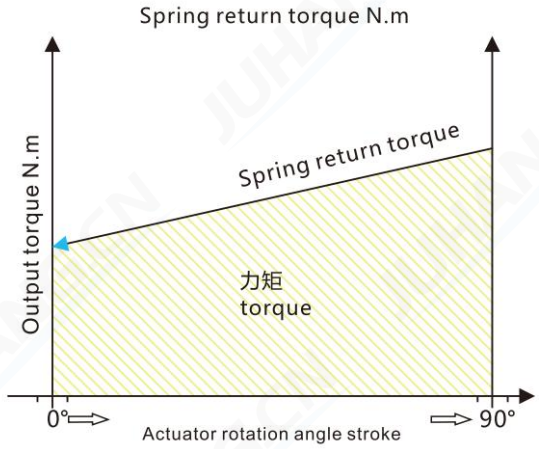
Model	Air Pressure (bar)					
	3	4	5	6	7	8
JHA0015DASS	9.1	12.1	15.1	18.1	21.1	24.1
JHA0020DASS	12.0	16.0	20.0	24.0	28.0	32.0
JHA0035DASS	21.7	28.9	36.1	43.3	50.6	57.8
JHA0050DASS	30.0	40.0	50.0	60.0	70.0	80.0
JHA0075DASS	46.8	62.4	78.0	93.6	109.2	124.8
JHA0110DASS	67.6	90.1	112.6	135.2	157.7	180.2
JHA0160DASS	97.7	130.3	162.9	195.5	228.0	260.6
JHA0255DASS	150.5	200.6	250.8	300.9	351.1	401.3
JHA0435DASS	260.7	347.6	433.8	521.4	608.3	695.2
JHA0665DASS	397.2	529.6	662.0	794.4	926.8	1059.2
JHA1000DASS	640.2	853.6	1067.0	1280.4	1493.8	1707.2
JHA1200DASS	798.0	1064.0	1330.0	1596.0	1862.0	2128.0
JHA1800DASS	1154.4	1539.2	1924.0	2308.8	2693.6	3078.4
JHA2700DASS	1754.4	2339.2	2924.0	3508.8	4093.6	4678.4
JHA3800DASS	2291.4	3055.2	3819.0	4582.8	5346.6	6110.4
JHA8000DASS	4872.0	6496.0	8120.0	9744.0	11368.0	12992.0

Model selection for Single Action Actuators

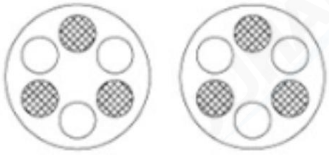
When selecting a model, a safety factor should be considered which is generally 30% to 50%.

Example:
Valve torque =100N.m
Safe torque=100×(1+30%)=130 N·m
Air source pressure =4bar
Check the table with JHA0435SRK8SSoutput torque:Air stroke output torque 0°=209N·m ,Air stroke output torque 90°=141N·m .Spring stroke output torque 0°=138N·m ,Spring stroke output torque 90°=206N·m.
Note: In the case of a spring return model even though port 2 is the only port that needs to be pressurized in order to operate the actuator,air still must be allowed to enter and exit through port 4 unobstructed for proper operation.





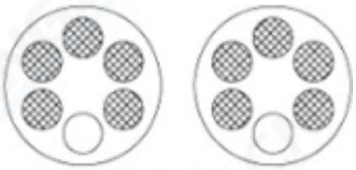
Spring Mounting Form for Single Action Actuators



6 Springs

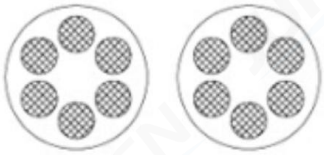
8 Springs

9Springs



10 Springs

11 Springs



12Springs

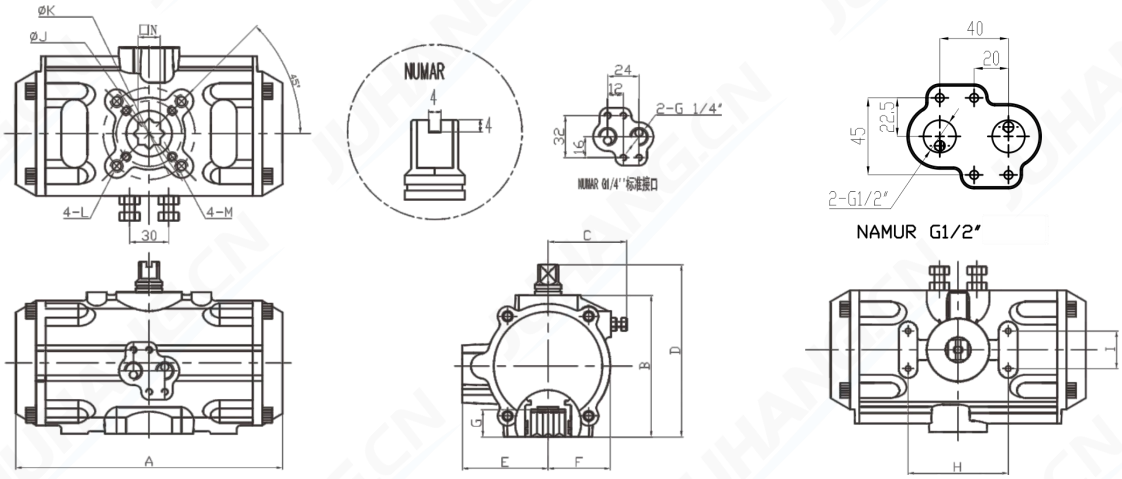
Model	Spring Qty	Spring Output N.m		Air Pressure bar											
				3		4		5		6		7		8	
				Output Torque N.m											
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
JHA0015SRSS	2	4.6	7.4	4.2	1.3	7.2	4.3	10.2	7.3						
	3	5.8	9.2			6	2.4	9	5.4	12	8.4	15.0	11.4	18.1	14.5
	4	7.0	11.1					7.8	3.5	10.8	6.5	13.8	9.5	16.9	12.6
JHA0020SRSS	5	4.0	6.2	8.1	5.8	12.1	9.8	16.1	13.8	20.1	17.8	24.1	21.8	28.1	25.8
	6	4.7	7.4	7.3	4.6	11.3	8.6	15.3	12.6	19.3	16.6	23.3	20.6	27.3	24.6
	7	5.5	8.7	6.5	3.3	10.5	7.3	14.5	11.3	18.5	15.3	22.5	19.3	26.5	23.3
	8	6.3	9.9			9.7	6.1	13.7	10.1	17.7	14.1	21.7	18.1	25.7	22.1
	9	7.1	11.2			8.9	4.8	12.9	8.8	16.9	12.8	20.9	16.8	24.9	20.8
	10	7.9	12.4			8.1	3.6	12.1	7.6	16.1	11.6	20.1	15.6	24.1	19.6
	11	8.7	13.6					11.3	6.4	15.3	10.4	19.3	14.4	23.3	18.4
	12	9.5	14.9					10.5	5.1	14.5	9.1	18.5	13.1	22.5	17.1
JHA0035SRSS	5	6.8	10.4	14.9	11.3	22.1	18.5	29.3	25.7	36.6	33.0	43.8	40.2	51.0	47.4
	6	8.2	12.5	13.5	9.2	20.7	16.4	27.9	23.6	35.2	30.9	42.4	38.1	49.6	45.3
	7	9.6	14.6	12.1	7.1	19.3	14.3	26.5	21.5	33.8	28.8	41.0	36.0	48.2	43.2
	8	10.9	16.7			18.0	12.2	25.2	19.4	32.5	26.7	39.7	33.9	46.9	41.1
	9	12.3	18.9			16.6	10.0	23.8	17.2	31.1	24.5	38.3	31.7	45.5	38.9
	10	13.7	20.9			15.2	8.0	22.4	15.2	29.7	22.5	36.9	29.7	44.1	36.9
	11	15.0	22.9					21.1	13.2	28.4	20.5	35.6	27.7	42.8	34.9
	12	16.4	25.0					19.7	11.1	27.0	18.4	34.2	25.6	41.4	32.8
JHA0050SRSS	5	10.0	15.0	20.0	15.0	30.0	25.0	40.0	35.0	50.0	45.0	60.0	55.0	70.0	65.0
	6	12.0	18.0	18.0	12.0	28.0	22.0	38.0	32.0	48.0	42.0	58.0	52.0	68.0	62.0
	7	14.0	21.0	16.0	9.0	26.0	19.0	36.0	29.0	46.0	39.0	56.0	49.0	66.0	59.0
	8	16.0	24.0			24.0	16.0	34.0	26.0	44.0	36.0	54.0	46.0	64.0	56.0
	9	18.0	27.0			22.0	13.0	32.0	23.0	42.0	33.0	52.0	43.0	62.0	53.0
	10	20.0	30.0			20.0	10.0	30.0	20.0	40.0	30.0	50.0	40.0	60.0	50.0
	11	22.0	33.0					28.0	17.0	38.0	27.0	48.0	37.0	58.0	47.0
	12	24.0	36.0					26.0	14.0	36.0	24.0	46.0	34.0	56.0	44.0
JHA0075SRSS	5	15.5	23.0	30.5	23.0	46.5	39.0	62.5	55.0	77.5	70.0	92.5	85.0	109.3	101.8
	6	18.6	27.6	27.4	18.4	43.4	34.4	59.4	50.4	74.4	65.4	89.4	80.4	106.2	97.2
	7	21.7	32.2	24.3	13.8	40.3	29.8	56.3	45.8	71.3	60.8	86.3	75.8	103.1	92.6
	8	24.8	36.8			37.2	25.2	53.2	41.2	68.2	56.2	83.2	71.2	100.0	88.0
	9	27.9	41.4			34.1	20.6	50.1	36.6	65.1	51.6	80.1	66.6	96.9	83.4
	10	31.0	46.0			31.0	16.0	47.0	32.0	62.0	47.0	77.0	62.0	93.8	78.8
	11	34.1	50.6					43.9	27.4	58.9	42.4	73.9	57.4	90.7	74.2
	12	37.2	55.2					40.8	22.8	55.8	37.8	70.8	52.8	87.6	69.6

Model	Spring Qty	Spring Output N.m		Air Pressure bar											
				3		4		5		6		7		8	
				Output Torque N.m											
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
JHA0110SRSS	5	23.0	33.0	44.6	34.7	67.1	57.2	89.6	79.7	112.2	102.3	134.7	124.8	157.0	147.1
	6	27.6	39.5	40.0	28.1	62.5	50.6	85.0	73.0	107.6	95.7	130.1	118.2	152.4	140.5
	7	32.2	46.1	35.4	21.5	57.9	44.0	80.4	66.5	103.0	89.1	125.5	111.6	147.8	133.9
	8	36.8	52.7			53.3	37.4	75.8	59.9	98.4	82.5	120.9	105.0	143.2	127.3
	9	41.4	59.3			48.7	30.8	71.2	53.3	93.8	75.9	116.3	98.4	138.6	120.7
	10	46.0	65.9			44.1	24.2	66.6	46.7	89.2	69.3	111.7	91.8	134.0	114.1
	11	50.6	72.5					62.0	40.1	84.6	62.7	107.1	85.2	129.4	107.5
	12	55.2	79.1					57.4	33.5	80.0	56.1	102.5	78.6	124.8	100.9
JHA0160SRSS	5	31.8	49.3	66.0	48.4	98.6	81.0	131.2	113.6	163.8	146.2	196.3	178.7	228.3	210.7
	6	38.1	59.2	59.6	38.5	92.2	71.1	124.8	103.7	157.4	136.3	189.9	168.8	221.9	200.8
	7	44.5	69.0	53.3	28.7	85.9	61.3	118.5	93.9	151.1	126.5	183.6	159.0	215.6	191.0
	8	50.8	78.9			79.5	51.4	112.1	84.0	144.7	116.6	177.2	149.1	209.2	181.1
	9	57.2	88.7			73.2	41.6	105.8	74.2	138.4	106.8	170.9	139.3	202.9	171.3
	10	63.5	98.6			66.8	31.7	99.4	64.3	132.0	96.9	164.5	129.4	196.5	161.4
	11	69.9	108.5					93.1	54.4	125.7	87.0	158.2	119.5	190.2	151.5
	12	76.2	118.3					86.7	44.6	119.3	77.2	151.8	109.7	183.8	141.7
JHA0255SRSS	5	50.0	78.0	100.0	72.0	150.0	122.0	200.8	172.8	251.0	223.0	301.0	273.0	351.0	323.0
	6	60.0	93.6	90.0	56.4	140.0	106.4	190.8	157.2	241.0	207.4	291.0	257.4	341.0	307.4
	7	70.0	109.2	80.0	40.8	130.0	90.8	180.8	141.6	231.0	191.8	281.0	241.8	331.0	291.8
	8	80.0	124.8			120.0	75.2	170.8	126.0	221.0	176.2	271.0	226.2	321.0	276.2
	9	90.0	140.4			110.0	59.6	160.8	110.4	211.0	160.6	261.0	210.6	311.0	260.6
	10	100.0	156.0			100.0	44.0	150.8	94.8	201.0	145.0	251.0	195.0	301.0	245.0
	11	110.0	171.6					140.8	79.2	191.0	129.4	241.0	179.4	291.0	229.4
	12	120.0	187.2					130.8	63.6	181.0	113.8	231.0	163.8	281.0	213.8
JHA0435SRSS	5	86.0	129.0	174.0	131.0	261.0	218.0	348.0	305.0	435.0	392.0	522.0	479.0	609.0	566.0
	6	103.0	155.0	157.0	105.0	244.0	192.0	331.0	279.0	418.0	366.0	505.0	453.0	592.0	540.0
	7	120.0	181.0	140.0	79.0	227.0	166.0	314.0	253.0	401.0	340.0	488.0	427.0	575.0	514.0
	8	138.0	206.0			209.0	141.0	296.0	228.0	383.0	315.0	470.0	402.0	557.0	489.0
	9	155.0	232.0			192.0	115.0	279.0	202.0	366.0	289.0	453.0	376.0	540.0	463.0
	10	172.0	258.0			175.0	89.0	262.0	176.0	349.0	263.0	436.0	350.0	523.0	437.0
	11	189.0	284.0					245.0	150.0	332.0	237.0	419.0	324.0	506.0	411.0
	12	206.0	310.0					228.0	124.0	315.0	211.0	402.0	298.0	489.0	385.0

Model	Spring Qty	Spring Output N.m		Air Pressure bar											
				3		4		5		6		7		8	
				Output Torque N.m											
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
JHA0665SRSS	5	140.0	193.0	258.0	205.0	390.0	337.0	523.0	470.0	655.0	602.0	787.0	734.0	920.0	867.0
	6	167.0	231.0	230.0	166.0	362.0	298.0	495.0	431.0	627.0	563.0	759.0	695.0	892.0	828.0
	7	195.0	270.0	202.0	128.0	334.0	260.0	467.0	393.0	599.0	525.0	731.0	657.0	864.0	790.0
	8	223.0	308.0			306.0	221.0	439.0	354.0	571.0	486.0	703.0	618.0	836.0	751.0
	9	251.0	347.0			278.0	183.0	411.0	316.0	543.0	448.0	675.0	580.0	808.0	713.0
	10	279.0	385.0			250.0	144.0	383.0	277.0	515.0	409.0	647.0	541.0	780.0	674.0
	11	307.0	424.0					355.0	239.0	487.0	371.0	619.0	503.0	752.0	636.0
	12	335.0	462.0					327.0	200.0	459.0	332.0	591.0	464.0	724.0	597.0
JHA1000SRSS	5	190.0	320.0	451.0	320.0	664.0	533.0	878.0	747.0	1091	960.0	1304	1173	1518	1387
	6	227.0	384.0	413.0	256.0	626.0	469.0	840.0	683.0	1053	896.0	1266	1109	1480	1323
	7	265.0	448.0	375.0	192.0	588.0	405.0	802.0	619.0	1015	832.0	1228	1045	1442	1259
	8	303.0	512.0			550.0	341.0	764.0	555.0	977.0	768.0	1190	981.0	1404	1195
	9	341.0	576.0			512.0	277.0	726.0	491.0	939.0	704.0	1152	917.0	1366	1131
	10	379.0	640.0			474.0	213.0	688.0	427.0	901.0	640.0	1114	853.0	1328	1067
	11	417.0	704.0					650.0	363.0	863.0	576.0	1076	789.0	1290	1003
	12	455.0	768.0					612.0	299.0	825.0	512.0	1038	725.0	1252	939.0
JHA1200SRSS	5	261.0	400.0	538.0	398.0	804.0	664.0	1070	930.0	1336	1196	1602	1462	1868	1728
	6	313.0	480.0	485.0	318.0	751.0	584.0	1017	850.0	1283	1116	1549	1382	1815	1648
	7	365.0	560.0	433.0	238.0	699.0	504.0	965.0	770.0	1231	1036	1497	1302	1763	1568
	8	417.0	640.0			647.0	424.0	913.0	690.0	1179	956.0	1445	1222	1711	1488
	9	469.0	720.0			595.0	344.0	861.0	610.0	1127	876.0	1393	1142	1659	1408
	10	521.0	800.0			543.0	264.0	809.0	530.0	1075	796.0	1341	1062	1607	1328
	11	573.0	880.0					757.0	450.0	1023	716.0	1289	982.0	1555	1248
	12	625.0	960.0					705.0	370.0	971.0	636.0	1237	902.0	1503	1168
JHA1800SRSS	5	389.0	585.0	766.0	570.0	1150	954.0	1535	1339	1920	1724	2305	2109	2689	2493
	6	467.0	702.0	688.0	453.0	1072	837.0	1457	1222	1842	1607	2227	1992	2611	2376
	7	545.0	819.0	610.0	336.0	994.0	720.0	1379	1105	1764	1490	2149	1875	2533	2259
	8	622.0	936.0			917.0	603.0	1302	988.0	1687	1373	2072	1758	2456	2142
	9	700.0	1053			839.0	486.0	1224	871.0	1609	1256	1994	1641	2378	2025
	10	778.0	1170			761.0	369.0	1146	754.0	1531	1139	1916	1524	2300	1908
	11	856.0	1287					1068	637.0	1453	1022	1838	1407	2222	1791
	12	934.0	1404					990	520	1375	905	1760	1290	2144	1674

Model	Spring Qty	Spring Output N.m		Air Pressure bar											
				3		4		5		6		7		8	
				Output Torque N.m											
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
JHA2700SRSS	5	505.0	910.0	1250	845.0	1835	1430	2419	2014	3005	2600	3590	3185	4175	3770
	6	606.0	1092	1149	663.0	1734	1248	2318	1832	2904	2418	3489	3003	4074	3588
	7	707.0	1274	1048	481.0	1633	1066	2217	1650	2803	2236	3388	2821	3973	3406
	8	808.0	1456			1532	884.0	2116	1468	2702	2054	3287	2639	3872	3224
	9	909.0	1638			1431	702.0	2015	1286	2601	1872	3186	2457	3771	3042
	10	1010	1820			1330	520.0	1914	1104	2500	1690	3085	2275	3670	2860
	11	1111	2002					1813	922.0	2399	1508	2984	2093	3569	2678
	12	1212	2184					1712	740.0	2298	1326	2883	1911	3468	2496
JHA3800SRSS	5	725.0	1145	1566	1146	2330	1910	3094	2674	3857	3437	4621	4201	5385	4965
	6	870.0	1374	1421	917.0	2185	1681	2949	2445	3712	3208	4476	3972	5240	4736
	7	1015	1603	1276	688.0	2040	1452	2804	2216	3567	2979	4331	3743	5095	4507
	8	1160	1832			1895	1223	2659	1987	3422	2750	4186	3514	4950	4278
	9	1305	2061			1750	994.0	2514	1758	3277	2521	4041	3285	4805	4049
	10	1450	2290			1605	765.0	2369	1529	3132	2292	3896	3056	4660	3820
	11	1595	2519					2224	1300	2987	2063	3751	2827	4515	3591
	12	1740	2748					2079	1071	2842	1834	3606	2598	4370	3362
JHA8000SRSS	7	1836	2880	3035	1991	4659	3615	6283	5239	7907	6863	9531	8487	11155	10111
	8	2099	3292	2772	1580	4396	3204	6020	4828	7644	6452	9268	8076	10892	9700
	9	2361	3703	2510	1168	4134	2792	5758	4416	7382	6040	9006	7664	10630	9288
	10	2624	4115			3872	2381	5496	4005	7120	5629	8744	7253	10368	8877
	11	2886	4526			3609	1969	5233	3593	6857	5127	8481	6841	10105	8465
	12	3148	4938			3347	1558	4971	3182	6595	4806	8219	6430	9843	8054
	13	3411	5349			3084	1146	4708	2770	6332	4394	7956	618	9580	7642
	14	3673	5761					4446	2359	6070	3983	7694	5607	9318	7231
	15	3936	6175					4184	1947	5808	3571	7432	5195	9056	6819
	16	4198	6584					3921	1536	5545	3160	7169	4784	8793	6408

Dimension (mm):



MODEL	A	B	C	D	E	F	G	H	I	N	J	K	L	M	Air Connection
JHA0015	133	64	42	84	44	26	13	80	30	□ 11	Φ50	Φ36	M6*10	M5*7.5	G1/4"
JHA0020	146	72	30	92	47	32	14	80	30	□ 11	Φ50	Φ36	M6*10	M5*7.5	G1/4"
JHA0035	173	88	36	108	54	38	18	83	30	□ 14	Φ70	Φ50	M8*13	M6*10	G1/4"
JHA0050	184	100	61	120	62	44	20	80	30	□ 14	Φ70	Φ50	M8*13	M6*10	G1/4"
JHA0075	204	108	48	125	65.5	48	21	80	30	□ 17	Φ70	Φ50	M8*13	M6*10	G1/4"
JHA0110	262	118	64	138	73	53	22	80	30	□ 17	Φ70	Φ50	M8*13	M6*10	G1/4"
JHA0160	270	133	50	153	77	60	26	80	30	□ 22	Φ102	Φ70	M10*16	M8*13	G1/4"
JHA0255	302	155	58	175	87	69.5	27.5	80	30	□ 22	Φ102	Φ70	M10*16	M8*13	G1/4"
JHA0435	394	172	69	192	95.5	77	32	80	30	□ 27	Φ125	Φ102	M12*20	M10*16	G1/4"
JHA0665	456	195	75	218	106	87	34	80	30	□ 27	Φ125	Φ102	M12*20	M10*16	G1/4"
JHA1000	528	130	119	260	131	104	40	130	30	□ 36	Φ140	/	M16*24	/	G1/4"
JHA1200	568	257	90	287	133	113	40	130	30	□ 36	Φ140	/	M16*24	/	G1/4"
JHA1800	608	292	163	322	160	133	49	130	30	□ 46	Φ165	/	M20*20	/	G1/4"
JHA2700	714	331	164	361	180	144	49	130	30	□ 46	Φ165	/	M20*25	/	G1/2"
JHA3800	783	354	176	384	194	161	56	130	30	□ 46	Φ165	/	M20*20	/	G1/2"
JHA8000	940	464	237	491	246	246	61	130	30	□ 55	Φ254	Φ165	M20*25	M16X25	G1/2"

Weight (KG):

Model	SR	DA	Model	SR	DA	Model	SR	DA
JHA0015	2.1	1.8	JHA0160	11.2	10.0	JHA1800	110.0	86.0
JHA0020	2.6	2.5	JHA0255	14.0	12.1	JHA2700	185.0	145.0
JHA0035	4.0	3.6	JHA0435	18.7	15.5	JHA3800	220.0	198.0
JHA0050	5.3	6.5	JHA0665	31.7	27.0	JHA8000	380.0	351.0
JHA0075	6.8	6.5	JHA1000	54.5	50			
JHA0110	9.8	9.2	JHA1200	80.0	71.5			

Operating Conditions

1.Operating media: Dry or lubricated air, the non-corrosive gases or oil.

2.Air supply pressure: Double acting: 2~8bar; Spring return: 2~8bar;

3.Operating temperature:

Standard:-20℃~+80℃

Low temperature:-40℃~+80℃

High temperature:-20℃~+150℃

4. Travel adjustment: Have adjustment range of ±5° for the rotation at 90°

5. Lubrication: Under normal operating condition, need not accrete lubricant

6. Application: Either indoor or outdoor

7.Highest pressure: The maximum input pressure is 10 Bar

Remark:

Make sure that the torque necessary to operate the valve is compatible with the actuator torque (it depends on both actuator type and air supply). Please note that the requested torque depends not only on the valve, but on the working conditions and the safety margins of the plant in question, too.

Air Consumption Calculation

Model	Air Volume		Spring Return		Double Action	
	Volume Opening (L)	Volume Closing (L)	Open Time (S)	Close Time (S)	Open Time (S)	Close Time (S)
JHA0015	0.08	0.11	0.4	0.2	＜1.0	＜1.0
JHA0020	0.12	0.16	0.5	0.3	＜1.0	＜1.0
JHA0035	0.21	0.23	0.5	0.3	＜1.0	＜1.0
JHA0050	0.30	0.34	0.5	0.3	＜1.0	＜1.0
JHA0075	0.43	0.47	0.8	0.5	＜1.0	＜1.0
JHA0110	0.64	0.73	2.0	1.0	＜1.0	＜1.0
JHA0160	0.95	0.88	2.0	1.0	＜1.0	＜1.0
JHA0255	1.60	1.40	3.0	1.5	＜1.0	＜1.0
JHA0435	2.50	2.30	3.9	1.8	＜1.0	＜1.0
JHA0665	3.80	3.40	4.0	2.0	＜1.0	＜1.0
JHA1000	6.10	5.60	5.0	2.5	＜1.5	＜1.5
JHA1200	7.80	7.80	5.5	3.0	＜1.5	＜1.5
JHA1800	11.30	9.5	9.0	4.0	＜2.0	＜2.0
JHA2700	17.50	14.8	10.0	5.0	＜3.0	＜3.0
JHA3800	23.80	29.7	13.0	6.0	＜5.0	＜5.0
JHA8000	52.60	56.00	18.0	9.0	＜6.0	＜6.0

Air Consumption rest with Air Pressure、Switching Path、Air volume and action cycle times,computed as follows:

L/Min=Air volume x [(Air supply (Kpa)+101.3)/101.3] x Acting cycle times/min

Taizhou Juhang Automation Equipment Technology Co., Ltd

Puqing industrial areas,Damaiyu avenue,Yuhuan city,
Taizhou,Zhejiang province,China.
Tel:+86-576-87206157 Fax:+86-576-87208537
E-mail:juhang@juhangkj.com.cn Website:www.tzjhkj.com
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