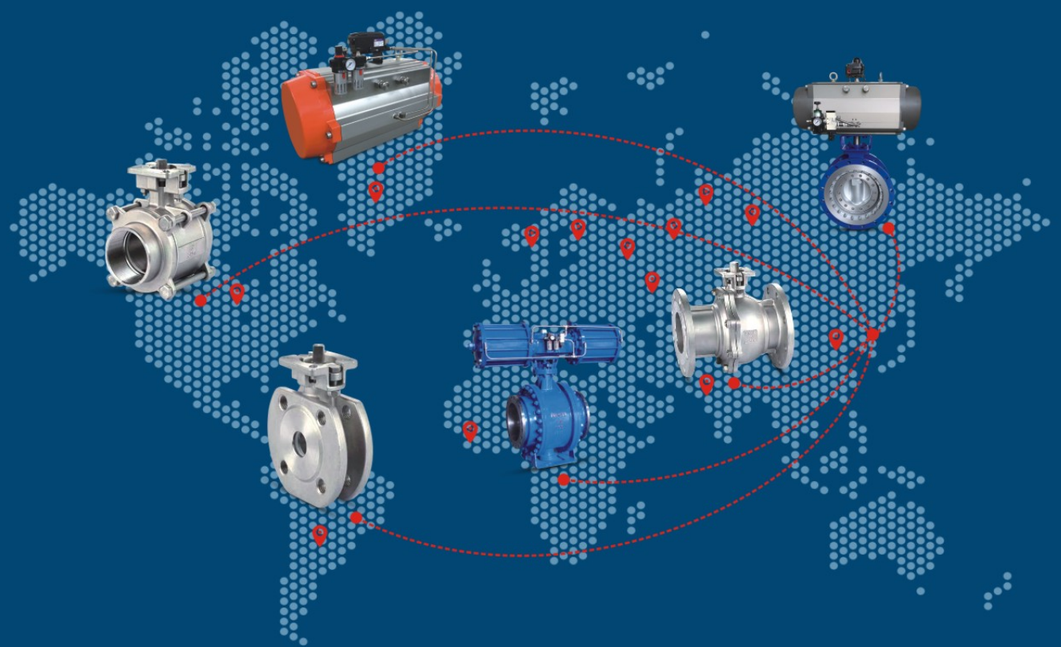


WUXI XINMING AUTO-CONTROL VALVES INDUSTRY CO.,LTD.

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WUXI XINMING

AUTO-CONTROL VALVES INDUSTRY CO.,LTD

无锡鑫明自控阀业有限公司





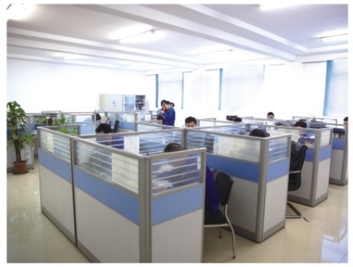
ABOUT XINMING

With excellent production equipment, R&D team and perfect testing equipment, WUXI XINMING AUTO-CONTROL VALVES INDUSTRY CO., LTD mainly manufactures XM series Pneumatic Actuators, various Auto-control Valves and Valve Accessories.

In accordance with Chinese GB, JB, American ANSI, API, the products of our company are constantly strived for excellence. Our products are qualified after testing and inspecting by National Technical Supervisory Authority and achieved ISO9001:2015 successfully. Our products are widely used for the automatic control in the industry of chemical, oil refining, mining, power station, metallurgy, construction, medicine, food, gas, scientific research, and so on.

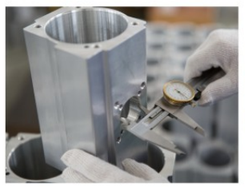
"BETTER QUALITY, ADVANCED TECHNOLOGY, DEEP SINCERITY" is our tenet. We dedicate to perfect management, excellent quality, double efficiency, satisfactory service, and establishing reliable and long-term cooperative relationship with customers. Our all staff sincerely wish to cooperate with your esteemed company and establish a mutual benefit hand in hand.













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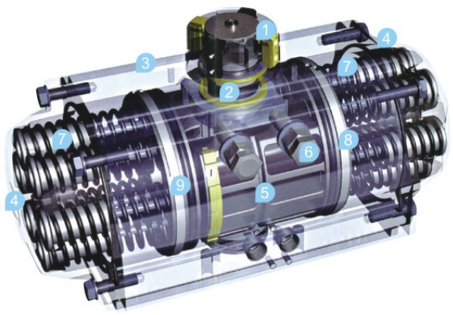


PNEUMATIC ACTUATORS

» DESIGN FEATURES

XM series pneumatic actuators are studied, developed and designed on the basis of comprehensive application of new technologies, new materials, new processes and innovative concepts at home and abroad, having following characteristics:

- Fully in line with international regulations: IS05211, DIN3337 and VDI/VDE-3845, NAMUR standards.
- To extruded high-strength aluminum cylinder, the inner surface is finely ground and hard anodized, with long service life, low friction coefficient and quick action.
- The beautiful compact modern shape and multiple specification make the selection more economical.
- All active surfaces adopt high quality bearings with low friction, long life and no noise.
- Two independent stroke adjustment mechanisms are installed to adjust extra ±5° at full open or full closed position easily
- Actuators with the same external structure are available in double-acting and single-acting (spring-return) versions. Single-acting version have normal-closed and normal-open type
- The NAMUR standard multi-function indicator indicates the position visually, where can install and output all accessories.
- The pre-compression load spring is safe and convenient to install and disassemble.
- The piston and end cap are made of die-cast aluminum alloy with high strength and light weight.
- Change the seal O rings material can apply for high-temperature or low-temperature worksite.
- Solenoid valves can be installed directly without a connecting plate.



» SPARE PARTS INTRODUCTION

1. Indicator: The NAMUR standard indicator is easy to install Limit Switch Box, Electric- pneumatic Valve Positioner and other accessories.
2. Output shaft: nickel-plated alloy steel, high-precision integrated output shaft meets NAMUR, IS05211, DIN3337 standards. Dimension and stainless steel material can be customized according to customer requirements.
3. Cylinder: ASTM6005 extruded aluminum alloy cylinder can be hard oxidized, oxidized, pure polyester powder spray, epoxy powder spray (multiple color optional), PTFE coating to meet different requirements.
4. End cap: Die-cast aluminum alloy, multi-color powder coating on the surface, PTFE coating treatment.
5. Piston: Double-rack piston, oxidized by die-casting aluminum alloy or galvanized by cast steel, whose installation position is symmetrical, movement is fast, service life is long. It can simply change direction by reverse pistons.
6. Stroke adjustment: Two independent stroke adjustment screws allow easy and precise adjustment of extra ±5° at the opening or closing position.
7. High-performance spring: It adopts imported high-quality materials, modular pre-compression assembly with coating, which is easy and safe to disassemble. It has strong corrosion resistance and long service life. It can safely and simply disassemble single-acting actuators and meet different torque output ranges by changing the number of springs.
8. Bearings and guide plates: Low-friction, long-life composite materials are used to avoid direct contact between metal and metal. Maintenance and replacement are simple and convenient.
9. Seal: NBR is used at normal temperature, VITON, silicone, high or low temperature NBR is used at high or low temperature.

» TECHNICAL CHARACTERISTICS

Intergrading with unique style, advanced technology, precise manufacturing, economical practical aspect, saving space, modular design, XM series Pneumatic Actuators can install other accessories directly to increase efficiency and economy.

- General data: The maximum rated air pressure is 8 bar and the minimum air pressure is 2.5 bar.
- Operating temperature: Standard: -20 ° C (-4 ° F) to +80 ° C (+ 176 ° F)
  High temperature: -15℃ (+5℉) to +150℃ (+302℉)
  Low temperature: -40℃ (-40℉) to +80℃ (+176℉)
- Applicable gas source: clean non-corrosive gas that has been dry filtered or lubricated.



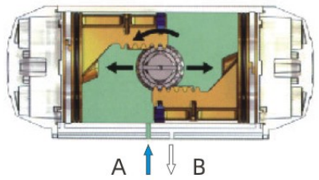
Full Open and Full Close position adjustment.When in closed or open position, the two adjustable bolts can adjust the actuator from extra -5° to +5° accurately at 0° or 90°. Screw the adjustable bolts at clockwise or counterclockwise direction, and lock nut in the right position.

» WORKING PRINCIPLE AND ROTARY DIRECTION

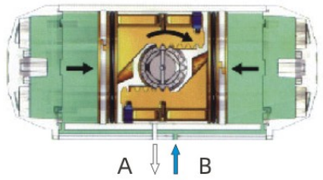
The standard rotary direction is clockwise to close, and counterclockwise to open.

Double acting principle (standard rotation) overlooks:

Air into Port A forces the pistons outwards,causing the pinion to turn counterclockwise while the air is being exhausted from Port B.



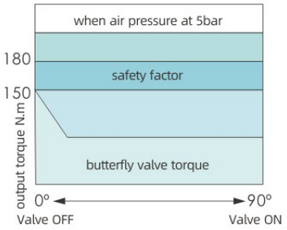
Air into Port B forces the pistons inwards,causing the pinion to turn clockwise while the air is being exhausted from Port A.



Double acting actuator model selection example

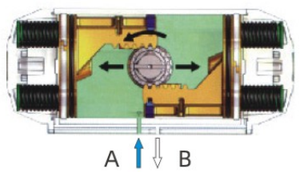
When selecting the actuator, at first confirm the valve torque including safety factor. The factor between valve safety factor and different media, temperature, pressure, friction between valve core and valve seat, as well as many other factors affecting the operating torque.

For example, The torque of the butterfly valve is 120 Nm. The medium is water; at normal temperature, the on-site air pressure is 5 bar. Calculated with a safety factor of 30%, the safety torque is 120x (1+30%) = 156Nm. Check the pressure in the double acting actuator torque table at 5 bar, and find the data equal to or close to 156 Nm along the column, select 162.9Nm, find the model at left, and then select the model XM-DA105 .

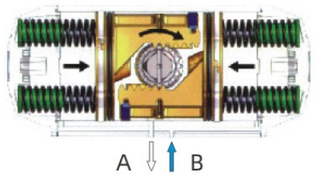


Single-acting operating principle (standard rotation) overlooks:

Air into Port A forces the pistons outwards, causing the springs to compress, the pinion turns counterclockwise while air is being exhausted from Port B.



In the event of loss air pressure or power, the stored energy in the springs forces the pistons inwards, causing the pinion turns clockwise while air is being exhausted from Port A, and air to Port B can accelerate closing the valve.



Single-acting actuator model selection example

At first, consider air pressure torque and spring elongation torque. The torque of the butterfly valve is 200 Nm, and the medium is steam: the temperature is 160 ° C, the on-site air source pressure is 5.5 bar, the safety factor is 30%; the safety torque is 200 x (1 + 30%) = 260 Nm. Check the single-acting actuator torque table: when the air pressure is at 5 bar, find the torque along the column (start and end), and then check the spring torque at the beginning and end at right. The result of the selection is XM-AT160 and the spring QTY is 10, the following values:

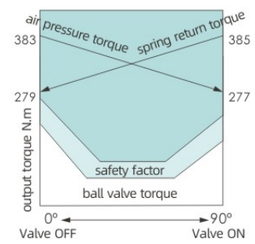
When at 0°, air pressure torque=383N.m,

When at 90°, air pressure torque =277N.m,

When at 0°, spring output torque =279N.m,

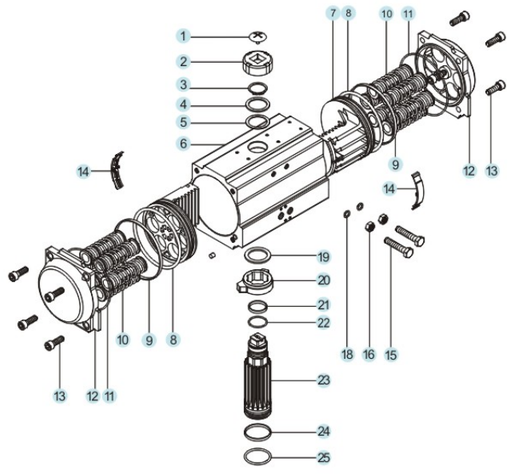
When at 90°, spring output torque =385N.m,

Note: The selected torque should be equal or close to the torque including safety factor.



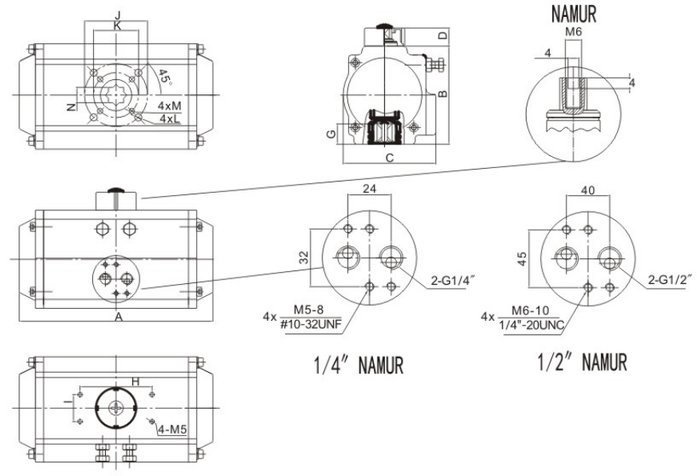
PNEUMATIC ACTUATORS

SPARE PARTS AND MATERIAL



No.	Spare Part	Quantity	Material	Anticorrosive treatment	Optional material
1	Indicator screw	1	Engineering plastic		
2	Indicator	1	Engineering plastic		
3	Circlip	1	Stainless steel		
4	washer	1	Stainless steel		
5	Outer gasket	1	Tetrafluoro		
6	Cylinder body	1	Aluminum alloy	Hard oxidation,etc.	
7	Piston	2	Aluminum alloy	Hard oxidation	stainless steel
8	Piston O ring	2	NBR		VITON/silicone rubber
9	Piston bearing	2	Engineering plastic		
10	Spring assembly	0–12	Spring steel	Dipping paint	
11	End cap O ring	2	NBR		VITON/silicone rubber
12	End cap	2	Aluminum alloy	Powder coating, etc.	
13	End cap bolt	8	Stainless steel		
14	Piston guide	2	Engineering plastic		
15	Adjustable bolt	2	Stainless steel		
16	Adjustable screw nut	2	Stainless steel		
17	Adjustable screw spacer	2	Stainless steel		Optional
18	Adjustable screw O ring	2	NBR		VITON/silicone rubber
19	Inner gasket	1	Engineering plastic		
20	Cam	1	Alloy steel		
21	Upper shaft bearing	1	Engineering plastic		
22	Upper shaft O ring	1	NBR		VITON/silicone rubber
23	Pinion	1	alloy steel	Nickel plating / chrome plating	stainless steel
24	Lower shaft bearing	1	Engineering plastic		
25	Lower shaft O ring	1	NBR		VITON/silicone rubber

DIMENSION DIAGRAM



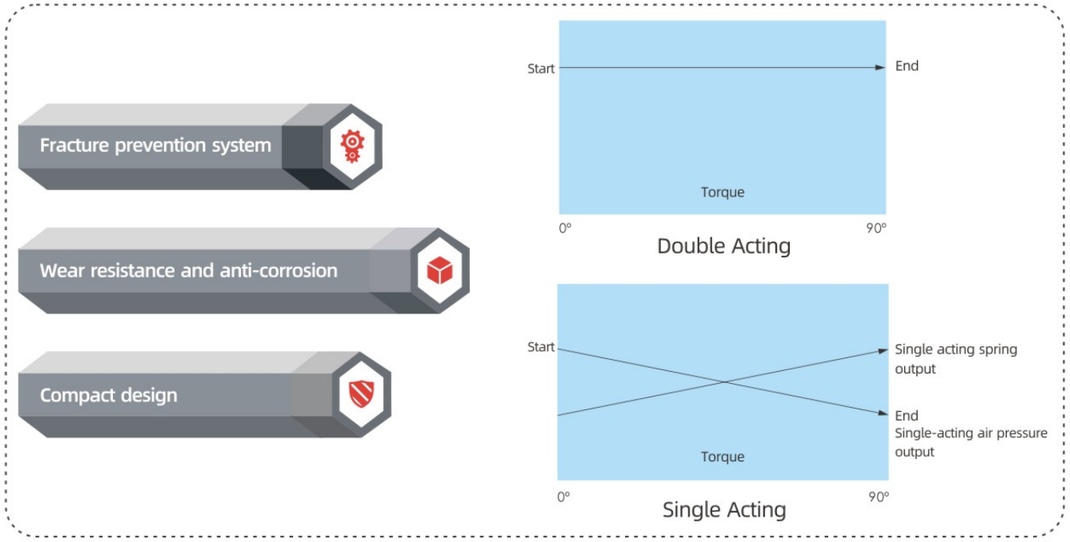
TECHNICAL PARAMETER

Model	A	B	C	D	H×I	G	N	J	K	L	M	Air source interface
XM-32	110	45. 5	49. 5	20	50×25	12	9	Φ36		M5×7. 5		G1/8"
XM-40	122	60	65	20	80×30	14	11	Φ50	Φ36	M6×10	M5×7. 5	NAMUR G1/4"
XM-52	147	72	72	20	80×30	14	11	Φ50	Φ36	M6×10	M5×7. 5	NAMUR G1/4"
XM-63	167	88	83	20	80×30	18	14	Φ70	Φ50	M8×13	M6×10	NAMUR G1/4"
XM-75	184	100	95	20	80×30	20	14	Φ70	Φ50	M8×13	M6×10	NAMUR G1/4"
XM-83	210	109	103	20	80×30	21	17	Φ70	Φ50	M8×13	M6×10	NAMUR G1/4"
XM-92	262	117	109	20	80×30	22	17	Φ70	Φ50	M8×13	M6×10	NAMUR G1/4"
XM-105	268	133	121	20	80×30	26	22	Φ102	Φ70	M10×16	M8×13	NAMUR G1/4"
XM-125	301	155	143	20	80×30	27	22	Φ102	Φ70	M10×16	M8×13	NAMUR G1/4"
XM-140	394	173	152	20	80×30	32	27	Φ125	Φ102	M12×20	M10×16	NAMUR G1/4"
XM-160	458	198	174	20	80×30	34	27	Φ125	Φ102	M12×20	M10×16	NAMUR G1/4"
XM-190	528	232	206	30	130×30	40	36	Φ140		M16×24		NAMUR G1/4"
XM-210	532	257	226	30	130×30	40	36	Φ140		M16×24		NAMUR G1/4"
XM-240	608	291	260	30	130×30	50	46	Φ165		M20×25		NAMUR G1/4"
XM-270	716	330	294	30	130×30	50	46	Φ165		M20×25		NAMUR G1/2"
XM-300	820	354	336	30	130×30	60	46	Φ165		M20×25		NAMUR G1/2"
XM-350	926	408	385	30	130×30	60	46	Φ254	Φ165	8-M16×25	M20×25	NAMUR G1/2"
XM-400	934	464	516	30	130×30	60	55	Φ254	Φ165	8-M16×25	M20×25	NAMUR G1/2"

-The company is working on research and improvement at any time, so the size and design features specified in this catalogue are subject to change without notice.

PNEUMATIC ACTUATORS

XM PNEUMATIC ACTUATOR TORQUE DIAGRAM



XM DOUBLE ACTING ACTUATOR OUTPUT TORQUE

Model	Input air pressure (bar)					
	3	4	5	6	7	8
	Air pressure output torque (N.m)					
XM-DA32	4. 6	6. 1	7. 6	9. 2	10. 7	12. 2
XM-DA40	7. 2	9. 6	12. 0	14. 4	16. 8	19. 2
XM-DA52	12. 0	16. 0	20. 0	24. 0	28. 0	32. 0
XM-DA63	21. 7	28. 9	36. 0	43. 4	50. 6	57. 8
XM-DA75	30. 0	40. 0	50. 0	60. 0	70. 0	80. 0
XM-DA83	46. 8	62. 4	78. 0	93. 6	109. 2	124. 8
XM-DA92	67. 6	90. 1	112. 6	135. 2	157. 7	180. 2
XM-DA105	97. 7	130. 3	162. 9	195. 5	228. 0	260. 6
XM-DA125	150. 5	200. 6	250. 8	301. 0	351. 1	401. 3
XM-DA140	260. 7	347. 6	433. 8	521. 4	608. 3	695. 2
XM-DA160	397. 2	529. 6	662. 0	794. 4	926. 8	1059. 2
XM-DA190	640	853	1067	1280	1493	1707
XM-DA210	798	1064	1330	1596	1862	2128
XM-DA240	1154	1539	1923	2308	2693	3078
XM-DA270	1755	2340	2924	3510	4095	4680
XM-DA300	2291	3055	3819	4582	5346	6110
XM-DA350	3426	4568	5710	6852	7994	9136
XM-DA400	4872	6496	8120	9744	11368	12992

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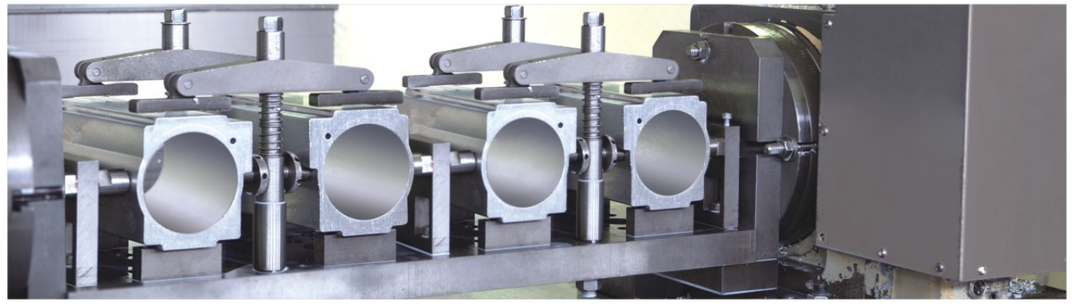
XM SINGLE ACTING ACTUATOR OUTPUT TORQUE

Model	Spring quantity	Spring output torque (N.m)		Input air pressure (bar)									
				3		4		5		6		7	
				Air pressure output torque (N.m)									
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
XM-SR52	5	4. 0	6. 2	8. 1	5. 8	12. 1	9. 8						
	6	4. 7	7. 4	7. 3	4. 6	11. 3	8. 6						
	7	5. 5	8. 7	6. 5	3. 3	10. 5	7. 3	14. 5	11. 3				
	8	6. 3	9. 9			9. 7	6. 1	13. 7	10. 1				
	9	7. 1	11. 2			8. 9	4. 8	12. 9	8. 8	16. 9	12. 8		
	10	7. 9	12. 4			8. 1	3. 6	12. 1	7. 6	16. 1	11. 6	20. 1	15. 6
	11	8. 7	13. 6			7. 3	2. 4	11. 3	6. 4	15. 3	10. 4	19. 3	14. 4
	12	9. 5	14. 9					10. 5	5. 1	14. 5	9. 1	18. 5	13. 1
XM-SR63	5	6. 8	10. 4	14. 9	11. 3	22. 1	18. 5						
	6	8. 2	12. 5	13. 5	9. 2	20. 7	16. 4						
	7	9. 6	14. 6	12. 1	7. 1	19. 3	14. 3	26. 5	21. 5				
	8	10. 9	16. 7			18. 0	12. 2	25. 2	19. 4				
	9	12. 3	18. 9			16. 6	10. 0	23. 8	17. 2	31. 1	24. 5		
	10	13. 7	20. 9			15. 2	8. 0	22. 4	15. 2	29. 7	22. 5	36. 9	29. 7
	11	15. 0	22. 9					21. 1	13. 2	28. 4	20. 5	35. 6	27. 7
	12	16. 4	25. 0					19. 7	11. 1	27. 0	18. 4	34. 2	25. 6
XM-SR75	5	10. 0	15. 0	20. 0	15. 0	30. 0	25. 0						
	6	12. 0	18. 0	18. 0	12. 0	28. 0	22. 0						
	7	14. 0	21. 0	16. 0	9. 0	26. 0	19. 0						
	8	16. 0	24. 0			24. 0	16. 0	34. 0	26. 0				
	9	18. 0	27. 0			22. 0	13. 0	32. 0	23. 0	42. 0	33. 0		
	10	20. 0	30. 0			20. 0	10. 0	30. 0	20. 0	40. 0	30. 0	50. 0	40. 0
	11	22. 0	33. 0			18. 0	7. 0	28. 0	17. 0	38. 0	27. 0	48. 0	37. 0
	12	24. 0	36. 0					26. 0	14. 0	36. 0	24. 0	46. 0	34. 0
XM-SR83	5	15. 5	23. 0	30. 5	23. 0	46. 5	39. 0						
	6	18. 6	27. 6	27. 4	18. 4	43. 4	34. 4						
	7	21. 7	32. 2			40. 3	29. 8	56. 3	45. 8				
	8	24. 8	36. 8			37. 2	25. 2	53. 2	41. 2				
	9	27. 9	41. 4			34. 1	20. 6	50. 1	36. 6	65. 1	51. 6		
	10	31. 0	46. 0			31. 0	16. 0	47. 0	32. 0	62. 0	47. 0	77. 0	62. 0
	11	34. 1	50. 6					43. 9	27. 4	58. 9	42. 4	73. 9	57. 4
	12	37. 2	55. 2					40. 8	22. 8	55. 8	37. 8	70. 8	52. 8
XM-SR92	5	23. 0	33. 0	44. 6	34. 7	67. 1	57. 2						
	6	27. 6	39. 5	40. 0	28. 1	62. 5	50. 6						
	7	32. 2	46. 1			57. 9	44. 0	80. 4	66. 5				
	8	36. 8	52. 7			53. 3	37. 4	75. 8	59. 9				
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	10	46. 0	65. 9			44. 1	24. 2	66. 6	46. 7	89. 2	69. 3	111. 7	91. 8
	11	50. 6	72. 5					62. 0	40. 1	84. 6	62. 7	107. 1	85. 2
	12	55. 2	79. 1					57. 4	33. 5	80. 0	56. 1	102. 5	78. 6
XM-SR105	5	31. 8	49. 3	66. 0	48. 4	98. 6	81. 0						
	6	38. 1	59. 2	59. 6	38. 5	92. 2	71. 1						
	7	44. 5	69. 0			85. 9	61. 3	118. 5	93. 9				
	8	50. 8	78. 9			79. 5	51. 4	112. 1	84. 0				
	9	57. 2	88. 7			73. 2	41. 6	105. 8	74. 2	138. 4	106. 8		
	10	63. 5	98. 6			66. 8	31. 7	99. 4	64. 3	132. 0	96. 9	164. 5	129. 4
	11	69. 9	108. 5					93. 1	54. 4	125. 7	87. 0	158. 2	119. 5
	12	76. 2	118. 3					86. 7	44. 6	119. 3	77. 2	151. 8	109. 7
XM-SR125	5	50	78	100	72	150	122						
	6	60	94	90	56	140	106						
	7	70	109			130	91	181	142				
	8	80	125			120	75	171	126				
	9	90	140			110	60	161	110	211	161		
	10	100	156			100	44	151	95	201	145	251	195
	11	110	172					141	79	191	129	241	179
	12	120	187					131	64	181	114	231	164
XM-SR140	5	86	129	174	131	261	218						
	6	103	155	157	105	244	192						
	7	120	181			227	166	314	253				
	8	138	206			209	141	296	228				
	9	155	232			192	115	279	202	366	289		
	10	172	258			175	89	262	176	349	263	436	350
	11	189	284					245	150	332	237	585	324
	12	206	310					228	124	315	211	402	298

XM SINGLE ACTING ACTUATOR OUTPUT TORQUE

Model	Spring quantity	Spring output torque (N.m)		Input air pressure (bar)									
				3		4		5		6		7	
				Air pressure output torque (N.m)									
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°
XM-SR160	5	140	193	258	205	390	337						
	6	167	231	230	166	362	298						
	7	195	270			334	260	467	393				
	8	223	308			306	221	439	354				
	9	251	347			278	183	411	316	543	448		
	10	279	385			250	144	383	277	515	409	647	541
	11	307	424					355	239	487	371	619	503
	12	335	462					327	200	459	332	591	464
XM-SR190	5	190	320	451	320	664	533						
	6	227	384	413	256	626	469						
	7	265	448			588	405	802	619				
	8	303	512			550	341	764	555				
	9	341	576			512	277	726	491	939	704		
	10	379	640			474	213	688	427	901	640	1114	853
	11	417	704					650	363	863	576	1076	789
	12	455	768					612	299	825	512	1038	725
XM-SR210	5	261	400	538	398	804	664						
	6	313	480	485	318	751	584						
	7	365	560			699	504	965	770				
	8	417	640			647	424	913	690				
	9	469	720			595	344	861	610	1127	876		
	10	521	800			543	264	809	530	1075	796	1341	1062
	11	573	880					757	450	1023	716	1289	982
	12	625	960					705	370	971	636	1237	902
XM-SR240	5	389	583	766	572	1151	957						
	6	467	700	688	455	1073	840						
	7	545	816			995	724	1379	1108				
	8	622	933			918	607	1302	991				
	9	700	1049			840	491	1224	875	1610	1261		
	10	778	1166			762	374	1146	758	1532	1144	1916	1528
	11	856	1283					1068	641	1454	1027	1838	1411
	12	934	1399					990	525	1376	911	1760	1295
XM-SR270	5	505	960	1250	795	1835	1380						
	6	606	1152	1149	603	1734	1188						
	7	707	1344			1633	996	2217	1580				
	8	808	1536			1532	804	2116	1388				
	9	909	1728			1431	612	2015	1196	2601	1782		
	10	1010	1920			1330	420	1914	1004	2500	1590	3085	2175
	11	1111	2112					1813	812	2399	1398	2984	1983
	12	1212	2304					1712	620	2298	1206	2883	1791
XM-SR300	5	725	1145	1522	1102	2271	1851						
	6	870	1374	1377	873	2126	1622						
	7	1015	1603			1981	1393	2730	2142				
	8	1160	1832			1836	1164	2585	1913				
	9	1305	2061			1691	935	2440	1684	3189	2433		
	10	1450	2290			1546	706	2295	1455	3044	2204	3793	2953
	11	1595	2519					2150	1226	2899	1975	3648	2724
	12	1740	2748					2005	997	2754	1746	3503	2495
XM-SR350	5	1173	1703	2003	1474	3145	2616						
	6	1408	2043	1768	1133	2910	2275						
	7	1642	2384			2676	1935	3818	3077				
	8	1877	2724			2441	1594	3583	2736				
	9	2111	3065			2207	1254	3349	2396	4491	3538		
	10	2346	3405			1972	913	3114	2055	4256	3197	5398	4339
	11	2581	3746					2879	1715	4021	2857	5413	3999
	12	2815	4086					2645	1374	3787	2516	4928	3658
XM-SR400	7	1837	2881	2812	1768								
	8	2099	3292	2550	1225								
	9	2362	3704	2259	768	3887	2396						
	10	2624	4115	1967	311	3595	1939	5223	3567				
	11	2886	4527			3303	1482	4931	3110	6559	4738		
	12	3149	4938			3012	1025	4641	2653	6268	4281	7895	5908
	13	3411	5350					4348	2195	5976	3823	7603	5450
	14	3674	5761					4057	1738	5685	3366	7312	4993
	15	3936	6173					3765	1281	5393	2909	7020	4536
	16	4198	6584							5101	2452	6728	4079

ALUMINUM PNEUMATIC ACTUATOR OPEN/CLOSE TIME, GAS CONSUMPTION, WEIGHT TABLE



Model	Single acting K10 open/close time		Double acting open/close time		Gas consumption open/close volume		Actuator weight table	
	Open time (S)	Close time (S)	Open time (S)	Close time (S)	Open volume (L)	Close volume (L)	Double acting (Kg)	Single acting K10 (Kg)
XM-32	/	/	<0.5	<0.5	0.04	0.04	0.5	
XM-40	/	/	<0.5	<0.5	0.09	0.11	0.9	
XM-52	0.5	0.3	<1	<1	0.12	0.16	1.4	1.5
XM-63	0.5	0.3	<1	<1	0.21	0.23	2.1	2.3
XM-75	0.5	0.3	<1	<1	0.3	0.34	2.7	2.9
XM-83	0.8	0.5	<1	<1	0.43	0.47	3.3	3.6
XM-92	1	0.5	<1	<1	0.64	0.73	4.7	5.3
XM-105	2	1	<1	<1	0.95	0.88	6.0	6.8
XM-125	3	1.5	<1	<1	1.6	1.4	9.5	10.6
XM-140	3.9	1.8	<1	<1	2.5	2.3	14.2	16.0
XM-160	4	2	<1.5	<1.5	3.8	3.4	20.7	23.7
XM-190	5	2.5	<1.5	<1.5	6.1	5.6	32.8	37.4
XM-210	5.5	3	<2	<2	7.8	7.8	38.9	46.7
XM-240	9	4	<3	<3	11.3	9.5	56.7	67.9
XM-270	10	5	<5	<5	17.5	14.8	79	96.5
XM-300	13	6	<6	<6	23.8	29.7	114.8	141.3
XM-350	16	8	<8	<8	35.1	46.3	141	191
XM-400	18	9	<9	<9	52.6	56	222	293

Note:

Single Acting type: 0.5Mpa, K10

The open/close time above is for standard model, and customized type can make speed up.

Double Acting type:

It is 0.5MPa, no load, air tube diameter is 6mm, the length from air storage bag to actuator tube is 8m. (The shorter the tube length and bigger tube diameter is, the faster the speed is.)

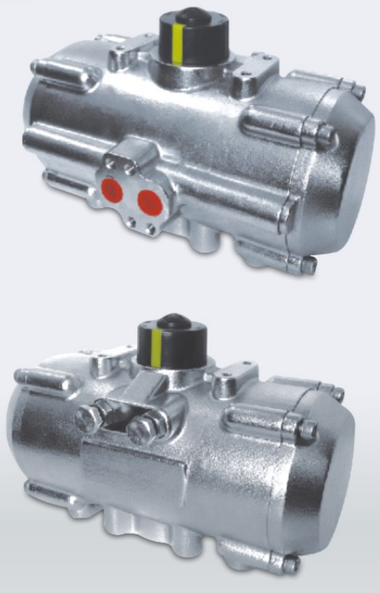
Air consumption:

The air consumption depends on the air supply pressure, on-off stroke, volume and movement times. The calculation is as follows:

L/min = cylinder volume (opening volume + closing volume) x [supply pressure (Kpa) + 101.3]/101.3 x times / minute

STAINLESS STEEL PNEUMATIC ACTUATOR

- Corrosion protection
- Good wear resistance
- Reliable connection
- High strength



INSTALLATION STANDARD



The air supply interface complies with the NAMUR standard and allows easy and convenient installation of solenoid valves.

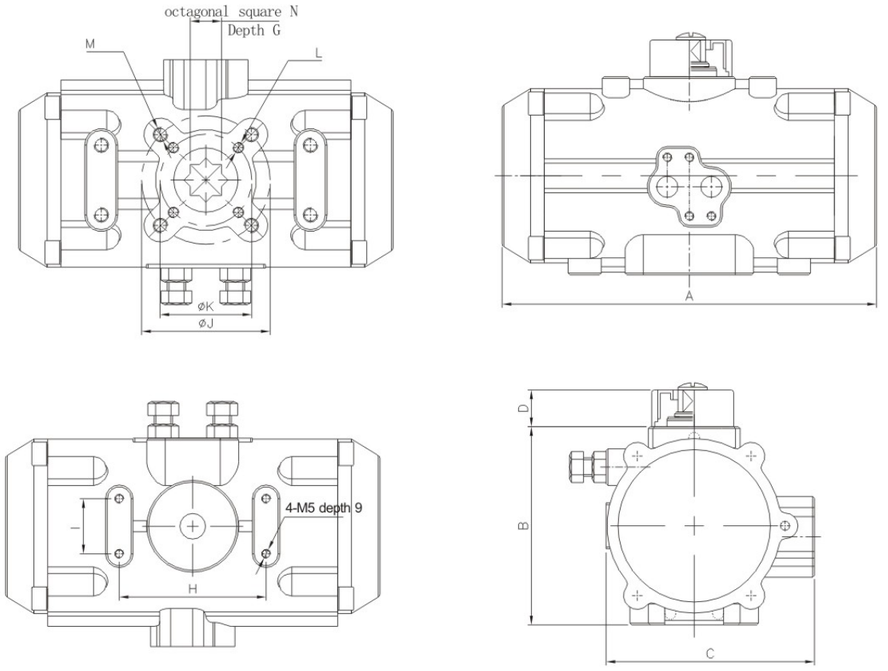


The NAMUR standard slot of the output shaft and the standard mounting hole on the upper part of the actuator allow the limit switch box and positioner to be directly engaged and mounted.



The bottom mounting holes are designed to comply with ISO 1521 and DIN 3337, where can install the clutch (pneumatic handwheel mechanism) or mounting bracket directly.

STAINLESS STEEL PNEUMATIC ACTUATOR DIMENSION DIAGRAM



TECHNICAL PARAMETER

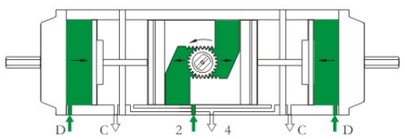
Model	A	B	C	D	H×I	G	N	J	K	L	M	Air source interface
XM-45-SS	138	64	77	20	80×30	14	11	Φ50	Φ36	4-M6×10	4-M5×7.5	G1/4"
XM-52-SS	146	72	79	20	80×30	14	11	Φ50	Φ36	4-M6×10	4-M5×7.5	G1/4"
XM-63-SS	173	88	92	20	80×30	18	14	Φ70	Φ50	4-M8×13	4-M6×10	G1/4"
XM-83-SS	204	109	113.5	20	80×30	21	17	Φ70	Φ50	4-M8×13	4-M6×10	G1/4"
XM-105-SS	270	133	137	20	80×30	26	22	Φ102	Φ70	4-M10×16	4-M8×13	G1/4"
XM-125-SS	302	155	157	20	80×30	27	22	Φ102	Φ70	4-M10×16	4-M8×13	G1/4"
XM-140-SS	394	173	173	20	80×30	32	27	Φ125	Φ102	4-M12×20	4-M10×16	G1/4"
XM-160-SS	456	198	193	20	80×30	34	27	Φ125	Φ102	4-M12×20	4-M10×16	G1/4"
XM-190-SS	568	232	226	30	130×30	40	36	Φ140		4-M16×24		G1/4"
XM-210-SS	568	257	246	30	130×30	40	36	Φ140		4-M16×24		G1/4"
XM-240-SS	608	291	260	30	130×30	50	46	Φ165		4-M20×25		G1/4"
XM-270-SS	716	330	294	30	130×30	50	46	Φ165		4-M20×25		G1/2"
XM-300-SS	820	354	336	30	130×30	60	46	Φ165		4-M20×25		G1/2"
XM-350-SS	926	408	385	30	130×30	60	46	Φ254	Φ165	8-M16×25	4-M20×25	G1/2"
XM-400-SS	934	464	516	30	130×30	60	55	Φ254	Φ165	8-M16×25	4-M20×25	G1/2"

-The company is working on research and improvement at any time, so the size and design features specified in this catalogue are subject to change without notice.

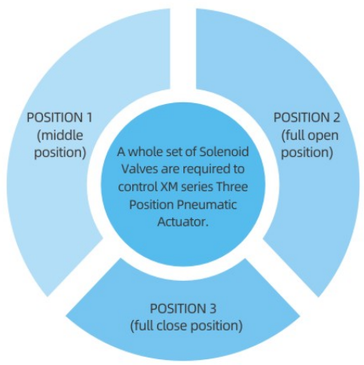
SPECIAL PNEUMATIC ACTUATOR

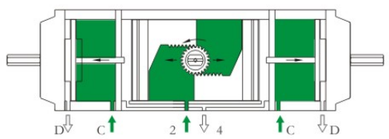
THREE-POSITION PNEUMATIC ACTUATOR

The XM Series three-stage pneumatic actuators are available in a 0° - 45° -90° or 0° -90° -180° mode of operation. The intermediate position is achieved by the mechanical brake produced by the movement of two auxiliary pistons. The intermediate position is adjustable, such as a 90° rotary angle actuator can set intermediate position to be 20°, 30°, 50°, or 75°.

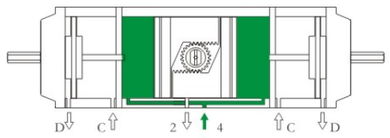


Port 2 and D are filled with air supply at the same time, and air is discharged from port 4 and C.
The air of port D force auxiliary pistons to move to the center. The push rod as a mechanical limit would stop the internal pistons at a certain angle position(set as request). (Standard Assembling Illustration. It can be customized according to actual need.)





Air supply enter into Port 2 and C separately(Port C can be non-ventilated), and air is discharged from Port 4.
Under this condition, air of Port 2 continue to force internal pistons to full open position. (Standard Assembling Illustration. It can be customized according to actual need.)



Air supply enter into Port 4, and air is discharged from Port 2.
(Standard Assembling Illustration. It can be customized according to actual need.)

Angle Limit Adjustment



Full Open and Full Close position adjustment.
When in closed or open position, the two adjustable bolts can adjust the actuator from extra -5° to +5° accurately at 0° or 90°. Screw the adjustable bolts at clockwise or counterclockwise direction, and lock nut in the right position.

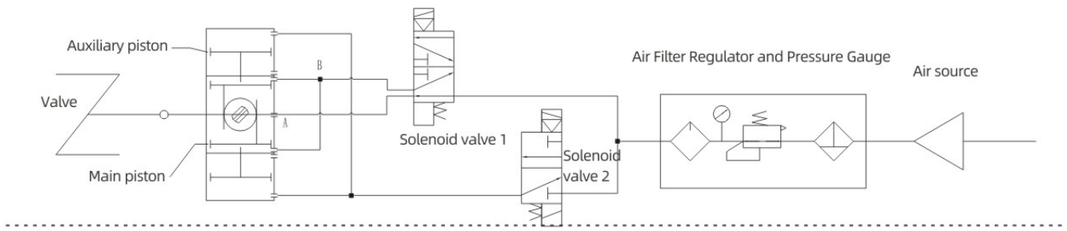
Full Angle Range Adjustment



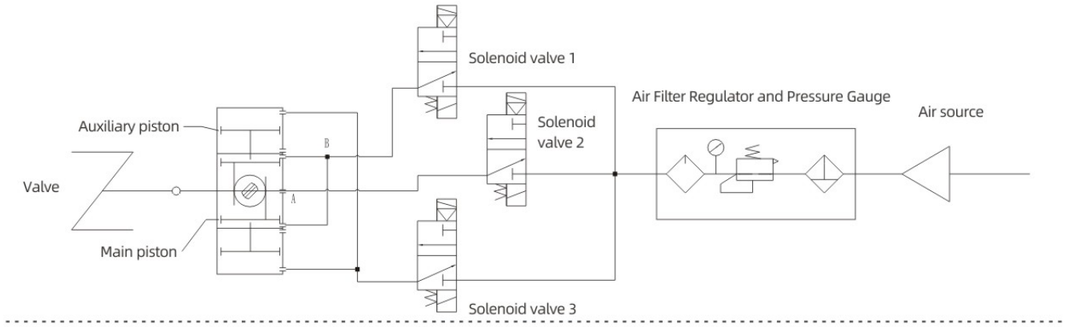
Special XM Pneumatic Actuator are designed for special work condition.
Any angle in 0°- 90°, 0°-120°, or 0°-180° can be set by end caps and special bolts.

WORKING PRINCIPLE

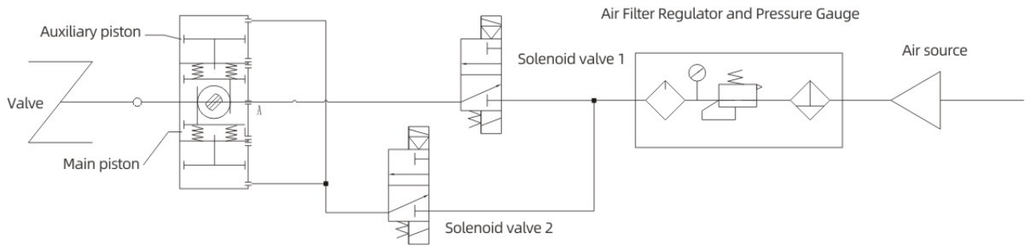
	0°	90°	45°	0°
Solenoid valve 1	OFF	ON	OFF (Delay solenoid valve 2 off)	OFF
Solenoid valve 2	OFF	OFF	ON	OFF



	0°	45°	90°	45°	0°
Solenoid valve 1	OFF	OFF	ON	OFF	OFF
Solenoid valve 2	ON	OFF	OFF	ON	ON
Solenoid valve 3	OFF	ON	ON	ON	OFF

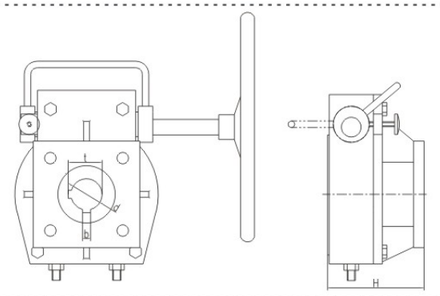


	0°	45°	90°	0°
Solenoid valve 1	OFF	ON	ON	OFF
Solenoid valve 2	OFF	ON first	OFF	OFF



MANUAL OVERRIDE GEARBOX





INPUT AND OUTPUT TORQUE TABLE OF MANUAL OVERRIDE GEARBOX

Model	Twist Ratio	Input Torque (N.m)	Output Torque (N.m)	Weight (Kg)
XMLH-26	26:1	70	300	7. 3
XMLH-38	38:1	60	550	11. 8
XMLH-54	54:1	120	1200	17. 3
XMLH-80	80:1	140	2000	35
XMLH-78	78:1	200	3600	48. 2
XMLH-98	98:1	300	9000	156
XMLH-100	100:1	400	13000	190
XMLH-118	118:1	900	22100	540

MATCHING TABLE BETWEEN PNEUMATIC ACTUATOR AND MANUAL OVERRIDE GEARBOX

Bottom hole flange size of Manual Override Gearbox. Please provide with valve stem dimension if requiring connection shaft.

Actuator Model	Manual Override Gearbox	Shaft bore diameter	key	Upper connection (connecting actuator)		Lower connection (connecting valve)		Total height	Wheel diameter
DA/SR	XMLH	d	b	D3/D4	₵1/₵2	D1/D2	M1/M2	H	₵
DA45/52/63/75 SR45/52/63/75	26:1	₵22	6	₵70	4-₵9	₵70	M8	99	₵200
DA83/92 SR83/92	38:1	₵26	8	₵70	4-₵9	₵70	M8	117	₵200
DA105/125 SR105/125	38:1	₵38	10	₵102	4-₵12	₵102	M10	117	₵200
DA140/160 SR140/160	54:1	₵38	10	₵125	4-₵14	₵125	M12	118	₵300
DA190/DA210	54:1	₵48	14	₵140	4-₵18	₵140	M16	118	₵300
SR190/SR210	80:1	₵48	14	₵140	4-₵18	₵140	M16	148	₵400
DA240/DA270	80:1	₵60	18	₵165	4-₵22	₵165	M20	148	₵400
SR240/SR270 DA300	78:1	₵60	18	₵165	4-₵22	₵165	M20	150	₵600
SR300 DA350	78:1	₵80	22	₵165	4-₵22	₵165	M20	150	₵600
DA350/DA400 SR350	98:1	₵80	22	₵165	4-₵22	₵165	M20	150	₵800
SR400	100:1	₵100	28	₵254	8-₵18	₵254	M16	195	₵800
DA500/SR500	118:1	₵120	32	₵356	8-₵32	₵356	M30	250	₵1000
DA600/SR600	118:1G	₵120	32	₵483	12-₵40	₵483	M36	275	₵1000

SOLENOID VALVE





TECHNICAL PARAMETER

Working medium	Mode of action	operating pressure	Maximum withstand voltage	Operating temperature	Voltage range	Power consumption	Insulation and protection level	Wiring form	Maximum operating frequency	Minimum excitation time
About 40 microns Filtered air	Internal pilot	0.15~ 0.8Mpa	1.2Mpa	-5~50℃	±10%	AC:5.5VA DC:4.8W	Class F: IP65	out-line or Terminal type	Five times per second	0.05s

ORDER CODE

4V — **3** — **10** — **08** — **B** — **AC220V** — **W**

Specification code
4M:5/2(3) way solenoid valve
4V:5/2(3) way solenoid valve
4A:5/2(3) way pneumatic control valve
3M:3/2 way solenoid valve
3V:3/2 way solenoid valve
3A:3/2 pneumatic control valve

Serial code
300 series

Coil and position
10:Single head double position
20:Double head double position
30C:Double head three position closed type
30E:Double head three position exhaust type
30P:Double head three position pressure type

Pipe dia
08:1/4"
10:3/8"

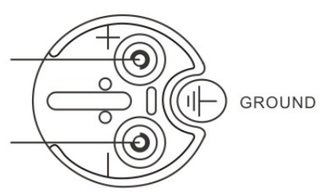
Initial state
NC: Two three usually closed
NO: Two three usually open type

Standard Voltage
DC12V
DC24V
AC24V 50Hz/60Hz
AC110V 50Hz/60Hz
AC220V 50Hz/60Hz
AC380V 50Hz/60Hz

Wiring form
Blank:Standard terminal type
LD: Brown with light terminal
LD1:White with light terminal
W: Lead type

EXPLOSION-PROOF SOLENOID VALVE





Complied with international standard, Explosion-proof Solenoid Valves have four types: NAMUR Plated-connected, pipe-connected, 3/2 and 5/2. With safe and reliable manual device, it is a real multi-function Solenoid Valve, which can control Single Acting and Double Acting Pneumatic Actuators directly. Due to its unique air path structure, all breathing holes of Explosion-proof Solenoid Valve connect with the vent hole. There is no breathing holes on the surface of Solenoid Valve to connect with atmosphere, which can prevent external liquid, dust or impurities from entering to the valve body. It is particularly suitable to be used outdoor or work site with serious dust pollution.

Body material	Surface Treatment	Seal	Media contact material	Body function and CV value	Air source interface	Installation standard	Fastening screw	Protection level	Explosion-proof grade
Cold extruded aluminum alloy	Anodized or Chemical nickel plating	NBR "O" ring	Aluminum, reinforced nylon NBR	5/2及3/2 NC, CV=1.4 (25mm)	G1/4"BSPP or NPT1/4"	24X32NAMUR plate or pipe type interchangeable	Stainless steel	IP66/ NEMA4, 4X	ExdIICT6 DIPA20 TA,T6
Operating temperature	Work pressure	Working medium		Double electronic control	life span	Electromagnetic coil	Working power		
-20℃~80℃	1~8 bar	Filtered (<=40um) dry and Lubricated air or neutral gas		Available	More than 3.5 million times (normal working conditions)	F5	24VDC-3.5W/1.5W(50/60HZ) 110/220VAC-4VA 240VAC-4.5VA		
Coil housing	Cable interface	Insulation class	Dielectric strength	Load cycle	Protection level	Explosion-proof grade	Operating temperature		
Aluminum alloy explosion-proof shell	M20X1.5 1/2" BSPP或NPT	H Class Coil	1000V	100% ED	IP66	ExdIICT6 DIPA20 TA, T6	-20℃~70℃		

LIMIT SWITCH BOX


APL200 Series


APL300 Series


APL400 Series


APL500 Series

FEATURES

- Die-cast aluminum alloy shell, powder coating, beautiful appearance and reliable quality
- Switch position can be clearly identified by the indicator
- Quickly set the cam, mounted via spline shaft and spring, easy to adjust without tools
- Multi-contact terminal block with 8 standard contacts for safe and convenient wiring
- Standard wire interface
- Anti-off bolts, bolts attached to the upper cover will not fall off when disassembling
- Easy installation, stainless steel spindle connection and mounting bracket
  All comply with NAMUR standards

TECHNICAL PARAMETER

	APL200、300、400、500 Series	
Shell	Standard	Option
Temperature	200 Series(IP66) 300 Series(IP66) 400 Series(Ex d II BT6 IP66)	
	500 Series(Ex d IICT6 Gb DIP A21 TA、T6 IP66)	
	- 25℃ ~ +85℃	
Wiring port	2XNPT1/2 (200/300 Series applicable)	PT1/2 (200/300 Series applicable)
	2XNPT3/4 (400/500 Series applicable)	PF1/2 (200/300Type Series applicable)
		M20.PG13.5 (200/300 Series applicable)
		PT3/4 (400/500 Series applicable)
		PF3/4 (400/500 Series applicable)

EXPLOSION-PROOF LIMIT SWITCH BOX

- Die-cast aluminum alloy and stainless steel housing
- Switch position can be clearly identified by the indicator
- Quickly set the cam, install through the spline shaft and magazine, easy to adjust without tools
- Multi-contact terminal block with 8 standard contacts for safe and convenient wiring
- Standard wire interface
- Anti-off bolts, bolts attached to the upper cover will not fall off when disassembling
- Easy installation, stainless steel spindle connection and mounting brackets, all in accordance with NAMUR standards


Aluminum alloy


Stainless steel

Model	ITS300	
	Standard	Option
Shell	IP67 Exd Ⅱ CT6	
Temperature	-25℃ ~ +85℃	
Wiring port	2 x 3/4NPT	PT3/4 PT1/2 M20 PF3/4 NPT1/2 PF1/2
Terminals	8	9~24
	Standards compliant	
Position indication	0-90°	0-180°
	on-yellow; off-red	
Micro switch	Mechanical, inductive, spring proximity	
Potentiometer	1KΩ（0~5KΩ，0~10Ω）	
Current feedback	4~20mA（20~4mA）	
Shell material	Die-cast aluminum alloy	Stainless steel (304 316)

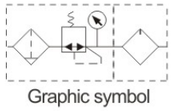
AIR FILTER REGULATOR AND PRESSURE GAUGE

AIR FILTER COMBINATION AC SERIES (TWO PIECES)



A C 20 10 – 01 D

Series	Features	Specification	Characteristic	Interface thread	Water release form
	C (filtering, decompression Oil mist combination / F, R, L)	20 30 40 50	10 (Two pieces)	01(G1/8) 02(G1/4) 03(G3/8) 04(G1/2) 06(G3/4) 10(G1)	Blank: pressure-difference drain D: auto drain


Graphic symbol

Guaranteed pressure resistance	Maximum work pressure	Environment and fluid temperature	*Filtration accuracy	Recommended oil	Container material	Protecting mask	Voltage regulation range	Valve type
1.5Mpa	1.0Mpa	5~60℃	25μm	Turbine No. 1 oil	PC	AC2010 (NO) AC3010~5010 (YES)	AC2010~5010: 0.05~0.85Mpa (0.5~8.5kgf/cm²)	With overflow type

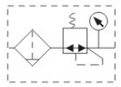
Also available in 5, 50μm

AW SERIES FILTER PRESSURE REDUCING VALVE



A W 2000 – 01 D

Series	Features	Specification	Interface thread	Water release form
	W (filter pressure reducing valve)	2000 3000 4000 5000	01(G1/8) 02(G1/4) 03(G3/8) 04(G1/2) 06(G3/4) 10(G1)	Blank: pressure-difference drain D: auto drain


Graphic symbol

Guaranteed pressure resistance	Maximum work pressure	Environment and fluid temperature	*Filtration accuracy	Container material	Protecting mask	Voltage regulation range	Alve Type
1.5Mpa	1.0Mpa	5~60℃	25μm	PC	AW2000 (NO) AW3000~5000 (YES)	AW2000~5000: 0.05~0.85Mpa (0.5~8.5kgf/cm²)	With overflow type

Also available in 5, 50μm

ELECTRIC-PNEUMATIC VALVE POSITIONER

1000 series Electric-pneumatic Valve Positioner is used with the pneumatic control valve to form a closed loop control loop. The DC current signal given by the control system is converted into a gas signal that drives the regulating valve to control the action of the regulating valve. At the same time, feedback is made according to the opening degree of the regulating valve, so that the valve position can be correctly positioned according to the control signal outputted by the system. The electric positioner can be used for single-acting (spring-return type) and double-acting pneumatic actuators.

Installation of Electric-pneumatic valve positioners: This series is adjustment type and is designed for double-acting or single-acting actuators with input and output 4-20 mA feedback signals. The pneumatic actuator is equipped with an electric-pneumatic valve positioner and bracket, linking the feedback lever through the pinion NAMUR slot, which is fastened by 4 bolts. The air source pipeline can be connected to realize the adjustment control.



1000R 1000L

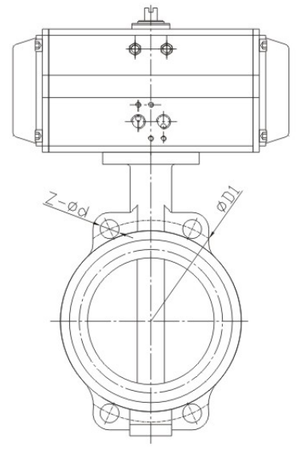
TECHNICAL PARAMETER

Item \ Model	1000L（Linear Type）	1000R（Rotary Type）
	Single acting	Double acting
Input signal, resistance	4~ 20mA.DC	250Ω±15Ω
Gas supply pressure	1.4~ 7kgf/cm² (20~ 100psi)	
Stroke	10~ 105mm	0~90°
Electrical Interface	PT (NPT) 1/2	
Explosion-proof grade	Exd II BT4 / Exd II BT6 / Exia II CT6	
Protection level	IP66	
Ambient temperature	-20℃~ 70℃ Repeatability ±0.5%	
Linear	±1%F.S ±2%F.S ±2%F.S	
Hysteresis	±1%F.S Sensitivity ±0.2%F.S ±0.5%F.S	
Air energy consumption	3LPM (sup=1.4kgf/cm²,20psi)	
Flow	80LPM (sup=1.4kgf/cm²,20psi)	
Material	Cast aluminum	
Weight	2.7KG ~ 2.8KG	

TECHNICAL SELECTION

Model	1000L/R
Types	L:Linear type, R:Rotary type
Form of action	S:Single action, D:Double action
Explosion-proof form	m:explosion-proof Exd II BT4 Exd II BT6, I:Intrinsically safe Exia II CT6, n:Normal
Feedback lever	R1、M6x40L; R2、M8x4OL; R、NAMUR; 1、10~40mm; 2、40 ~ 70mm
Orifice	90、90~180、180
Interface Type	PT、NPT
Option	0、+PTM、+L/S

PNEUMATIC WAFER BUTTERFLY VALVE

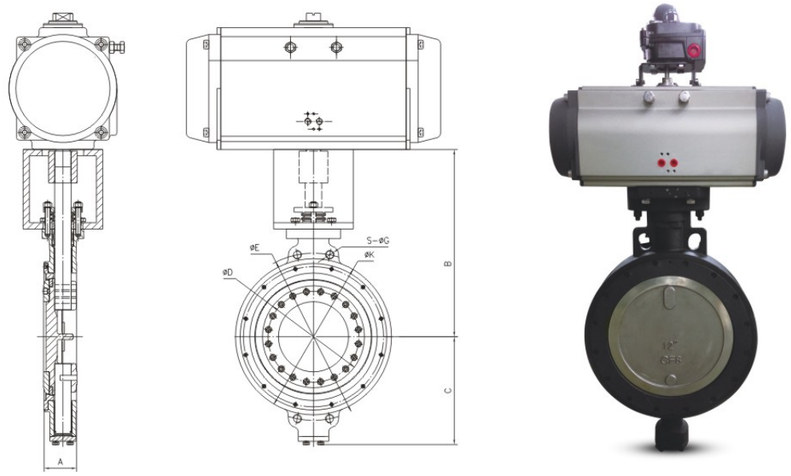




TECHNICAL PARAMETER

Nominal diameter mm	Nominal diameter inch	D	D1	H	H0	L	Z-Φd
50	2″	52. 9	120	80	241	42	4-23
65	2. 5″	65. 5	136. 2	89	264	44. 7	4-26. 5
80	3″	78. 8	160	95	276	45. 2	8-18
100	4″	104	185	114	314	52. 1	4-24. 5
125	5″	123. 3	215	127	340	54. 4	4-23
150	6″	155. 6	238	139	364	55. 8	4-25
200	8″	202. 5	295	175	435	60. 6	4-25/23
250	10″	250. 5	357	203	495	65. 6	4-29
300	12″	301. 6	407	242	579	76. 5	4-29
350	14″	333. 3	467	267	635	76. 5	4-30
400	16″	389. 6	515/525	309	709	86. 5	4-26/30
450	18″	440. 5	565/585	328	750	105. 5	4-26/30
500	20″	491. 6	620/650	361	841	131. 8	4-26/33
600	24″	592. 5	725/770	459	1021	152	20-30/36
700	28″	695	840	520	1144	163	24-30/20-36
800	32″	794. 7	950	591	1263	188	24-33/39
900	36″	864. 7	1050	656	1376	203	24-33
1000	40″	965	1160	721	1521	216	24-36
Valve design and manufacturing	According to GB/T12238 standard						
Valve flange size	According to GB/T9113, GB/T17241.6 standard						
Structural length of the valve	According to GB/T12221 standard						
Valve inspection and experiment	According to GB/T13927 standard						

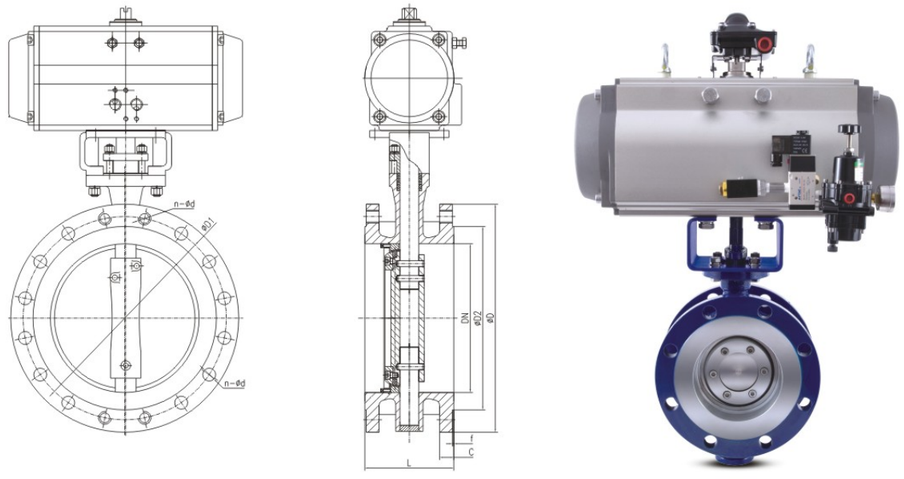
PNEUMATIC HIGH PERFORMANCE BUTTERFLY VALVE



» TECHNICAL PARAMETER

Class	150lb						
Size	A	B	C	ΦD	ΦE	S-ΦG	ΦK
2"	43	147	100	50	121	4-Φ17.5	112
2-1/2"	49	165	113	65	139.5	2-Φ19	122
3"	49	172	121	80	152.5	2-Φ19	132
4"	54	177	131	100	190.5	2-Φ19	155
5"	57	213	170	125	216	2-Φ22	188
6"	57	221	172	150	241.5	2-Φ22	218
8"	64	265	203	200	298.5	2-Φ22	268
10"	71	300	239	250	362	2-Φ25	324
12"	81	325	280	300	432	2-Φ25	375
14"	92	407	316	350	476	2-Φ29	422
16"	102	425	364	400	539.5	2-Φ29	482
18"	114	450	389	450	578	4-1⅛"-8UN*38Depth (double sided)	540
20"	127	481	428	500	635	4-1⅛"-8UN*38Depth (double sided)	592
24"	154	590	503	600	749.5	4-1¼"-8UN*38Depth (double sided)	690
30"	191	683	610	750	914.5	4-1¼"-8UN*38Depth (double sided)	850
36"	241	795	660	900	1086	4-1½"-8UN*57Depth (double sided)	1022
Valve design and manufacturing	According to the API609 standard						
Valve pressure temperature rating	According to ASME B16.34 standard						
Flange connection size	According to the ASME B16.5 standard						
Valve inspection and experiment	According to the API 598 standard						

PNEUMATIC TRIPLE ECCENTRIC BUTTERFLY VALVE

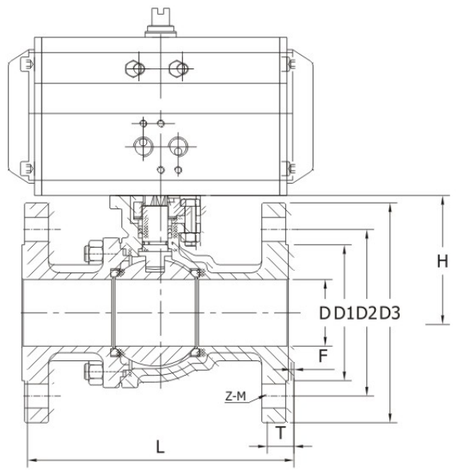


» TECHNICAL PARAMETER

Nominal diameter	PN16						
DN (mm)	L	D	D1	D2	C	H	n-d
80	114	200	160	132	20	310	8-18
100	127	220	180	156	22	325	8-18
125	140	250	210	184	22	360	8-18
150	140	285	240	211	24	395	8-22
200	152	340	295	266	24	480	12-22
250	165	405	355	319	26	550	12-26
300	178	460	410	370	28	610	12-26
350	190	520	470	429	30	710	16-26
400	216	580	525	480	32	755	16-30
450	222	640	585	548	40	835	20-30
500	229	715	650	609	44	900	20-33
600	267	840	770	720	54	1060	20-36
700	292	910	840	794	40	1170	24-36
800	318	1025	950	901	42	1320	24-39
900	330	1125	1050	1001	44	1440	28-39
1000	410	1255	1170	1112	46	1640	28-42
1200	470	1485	1390	1328	52	1850	32-48
1400	530	1685	1590	1530	58	2040	36-48
1600	600	1930	1820	1750	64	2280	40-55
1800	670	2130	2020	1950	68	2495	44-55
2000	760	2345	2230	2150	70	2685	48-60

Executive standard		Scope of application		
Design and manufacturing	JB/T8527、GB/T12224、API609、ASME B16.34 etc. Standard	Nominal diameter	DN50-DN3600 2"-144"	Different valves have different dimension.please call for details
Connection flange	GB/T9113.1~9113.4、ASME B16.5、ASME B16.47 etc. Standard	Nominal pressure	PN2.5-PN260 Class150-Class1500	
Structure length	GB/T12221 API609 ISO5752 etc. Standard	Temperature range	-196°C-600°C	
Inspection and experiment	JB/T9092 GB/T26480 API598 ISO5208 etc. Standard	Connection method	Flange type, butt weld type, wafer type, lug type, etc.	
		Body material	Carbon steel, chrome molybdenum steel, austenitic stainless steel, duplex stainless steel, titanium alloy, Hastelloy, Monel, etc.	

PNEUMATIC FLANGE BALL VALVE





D-2FD GB-PN16/40 (National standard flange)

Main performance specification	
Applicable temperature range	-20~180℃
Design and manufacture	GB/T-12237
Flange size reference	GB/T-9113.1
Flange length	GB/T-12221
Inspection and testing	GB/T-13927
Design highlights	Explosion-proof valve stem, full bore

D-2FD CLASS 150#

Main performance specification	
Applicable temperature range	-20~180℃
Design and manufacture	ANSI B16.34
Flange size reference	ASME B16.5 CLASS150
Flange length	ASME B16.1
Inspection and testing	API-598
Design highlights	Explosion-proof valve stem, full bore

DIMENSION TABLE

GB(National standard flange) DN15-DN50 PN16/40, DN65-DN100 PN16

SIZE		D	L	H	C	D1	D2	D3	T	F	M-N	ISO5211
DN15	1/2"	15	130	48	9	46	65	95	14	2	4-14	F03/F04
DN20	3/4"	20	140	62	9	56	75	105	14	2	4-14	F03/F04
DN25	1"	25	150	64	11	65	85	115	14	2	4-14	F04/F05
DN32	1-1/4"	32	165	71	11	78	100	135	16	2	4-18	F04/F05
DN40	1-1/2"	38	180	76	14	84	110	145	16	2	4-18	F05/F07
DN50	2"	50	200	84.5	14	100	125	160	16	2	4-18	F05/F07
DN65	2-1/2"	64	220	106.8	17	120	145	185	18	2	4-18	F07/F10
DN80	3"	78	250	116.0	17	135	160	195	20	2	8-18	F07/F10
DN100	4"	100	280	154.5	17	156	180	215	20	2	8-18	F07/F10

1/2"~4" Class 150

SIZE		D	L	H	C	D1	D2	D3	T	F	M-N	ISO5211
DN15	1/2"	15	108	48	9	35.0	60.5	89.0	10.5	1.6	4-16	F03/F04
DN20	3/4"	20	117	62	9	43.0	70.0	98.6	10.5	1.6	4-16	F03/F04
DN25	1"	25	127	64	11	51.0	79.2	108.0	10.5	1.6	4-16	F04/F05
DN32	1-1/4"	32	140	71	11	63.5	88.9	117.5	11.2	1.6	4-16	F04/F05
DN40	1-1/2"	38	165	76	14	73.2	98.6	127.0	12.7	1.6	4-16	F05/F07
DN50	2"	50	178	84.5	14	92.0	120.7	152.5	14.3	1.6	4-19	F05/F07
DN65	2-1/2"	64	190	106.8	17	104.7	139.7	177.8	15.9	1.6	4-19	F07/F10
DN80	3"	78	203	116.0	17	127.0	152.4	190.5	17.5	1.6	4-19	F07/F10
DN100	4"	100	229	154.5	17	157.2	190.5	228.6	22.3	1.6	8-19	F07/F10

1/2"~4" Class 300

SIZE		D	L	H	C	D1	D2	D3	T	F	M-N	ISO5211
DN15	½"	15	140	48	9	35.0	66.5	95.0	14.3	1.6	4-16	F03/F04
DN20	3/4"	20	152	62	9	43.0	82.6	117.4	15.9	1.6	4-16	F03/F04
DN25	1"	25	165	64	9	51.0	88.9	124.0	17.5	1.6	4-16	F04/F05
DN32	1-1/4"	32	178	71	9	63.5	98.6	133.4	19.1	1.6	4-16	F04/F05
DN40	1-1/2"	38	190	76	14	73.2	114.3	155.5	20.6	1.6	4-16	F05/F07
DN50	2"	50	216	84.5	14	92.0	127.0	165.1	22.4	1.6	8-19	F05/F07
DN65	2-1/2"	64	241	106.8	17	104.7	149.4	190.5	25.4	1.6	8-19	F07/F10
DN80	3"	78	283	116.0	17	127.0	168.1	209.6	28.6	1.6	8-19	F07/F10
DN100	4"	100	305	154.5	17	157.2	200.2	254.0	31.8	1.6	8-19	F07/F10

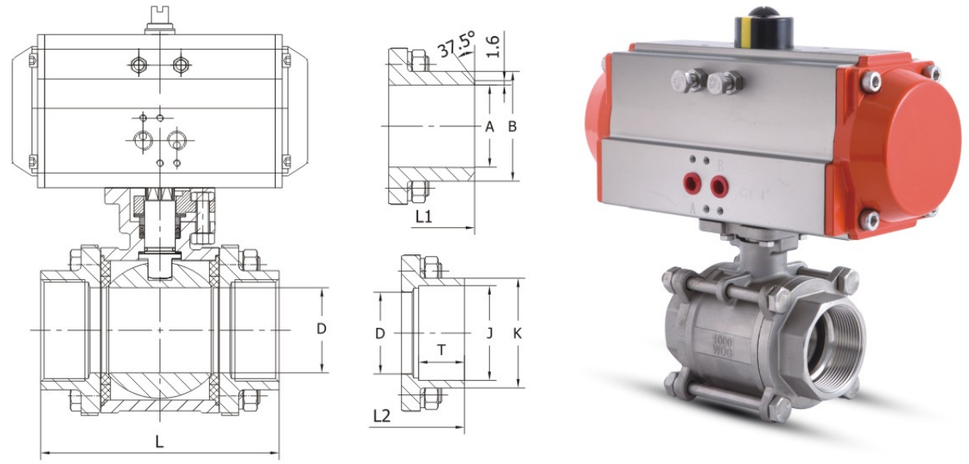
10K 15A-100A

SIZE		D	L	H	C	D1	D2	D3	T	F	M-N	ISO5211
DN15	1/2"	15	108.0	48	9	51	70	95	12	1	4-15	F03/F04
DN20	3/4"	20	117.0	62	9	56	75	100	14	1	4-15	F03/F04
DN25	1"	25	127.0	64	9	67	90	125	14	1	4-19	F04/F05
DN32	1-1/4"	32	140.0	71	9	76	100	135	16	2	4-19	F04/F05
DN40	1-1/2"	38	165.0	76	14	81	105	140	16	2	4-19	F05/F07
DN50	2"	50	178.0	84.5	14	96	120	155	16	2	4-19	F05/F07
DN65	2-1/2"	64	190.0	106.8	17	116	140	175	18	2	4-19	F07/F10
DN80	3"	78	203.0	116.0	17	126	150	185	18	2	8-19	F07/F10
DN100	4"	100	229.0	154.5	17	151	175	210	18	2	8-19	F07/F10

DN15-DN50 PN16/40, DN65-DN100 PN16

SIZE		D	L	H	C	D1	D2	D3	T	F	M-N	ISO5211
DN15	1/2"	15	115	48	9	45	65	95	14	2	4-14	F03/F04
DN20	3/4"	20	120	62	9	58	75	105	16	2	4-14	F03/F04
DN25	1"	25	125	64	9	68	85	115	16	2	4-14	F04/F05
DN32	1-1/4"	32	130	71	9	78	100	140	16	2	4-18	F04/F05
DN40	1-1/2"	38	140	76	14	88	110	150	16	2	4-18	F05/F07
DN50	2"	50	150	84.5	14	102	125	165	16	2	4-18	F05/F07
DN65	2-1/2"	64	170	106.8	17	122	145	185	16	2	4-18	F07/F10
DN80	3"	78	180	116.0	17	138	160	200	18	2	8-18	F07/F10
DN100	4"	100	190	154.5	17	158	180	200	18	2	8-18	F07/F10

PNEUMATIC THREAD BALL VALVE



» PRODUCT FEATURES

Main performance specification	
Applicable temperature range	-20~280℃
Work pressure	PN63/1000WOG
Applicable medium	Water, gas, oil
Design and manufacture	GB/T-12224/ANSI B16.34
Thread standard	BSPT/BSP/NPT/DIN/JIS/RC/G
Inspection and testing	GB/T-13927/API598
Air pressure test	0.8MPA
Design highlights	Explosion-proof valve stem, full bore

» TECHNICAL PARAMETER

SIZE	D	L	L1	L2	A	B	J	K	T	方	ISO5211
1/2"	15	62	75	65	16	22. 5	16	22. 4	10	9	F04/F05
3/4"	20	74	90	76. 5	21	27	21	27. 8	13	9	F04/F05
1"	25	86	100	86	26	34. 5	26. 5	34. 7	13	11	F04/F05
1-1/4"	32	96	110	98	32	43	35	43. 3	13	11	F04/F05
1-1/2"	38	108	125	114	40	49	41	49. 3	13	14	F05/F07
2"	50	120	150	132	51	62	52	61. 4	16	14	F05/F07
2-1/2"	65	160	190	164	65	76. 5	66	75	16	17	F07/F10
3"	78	185	220	182	80	92	80. 5	90	16	17	F07/F10
4"	100	225	270	235	100	115. 5	104. 6	115. 6	19	17	F07/F10

AUTO-CONTROL VALVE PHOTOS


Pneumatic Jacket ball valve


Pneumatic flange butterfly valve


Pneumatic three-way ball valve


Pneumatic plastic ball valve


Pneumatic V-type ball valve


Pneumatic sanitary ball valve


Pneumatic ventilation butterfly valve


Pneumatic extended welding ball valve


Electric lining butterfly valve


Pneumatic vacuum ball valve


Pneumatic plastic butterfly valve


Pneumatic thin ball valve