

气动针阀

活塞型气开（常闭）

Piston Style Air to Open (Normally Closed)

特征

- ◎ 气压驱动开启弹簧复位
- ◎ 金属-金属的密封实现了理想的关断
- ◎ 易于更换阀杆
- ◎ 阀杆位置指示
- ◎ 执行器高循环寿命
- ◎ 阳极氧化铝合金主体执行器，提供良好的耐腐蚀性和耐磨性
- ◎ 执行器在6.9bar(100psig)驱动压力下通过了10万次循环寿命测试，无泄漏且无磨损迹象

Features

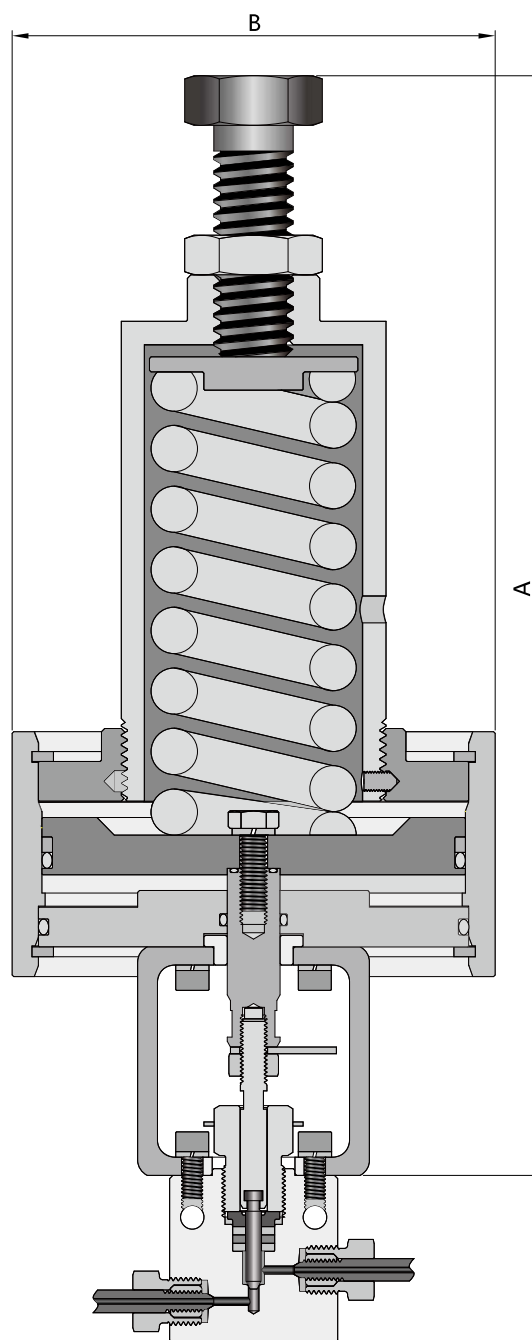
- ◎ Air-to-open with spring return
- ◎ Positive shut-off with metal-to-metal seating
- ◎ Easy stem replacement
- ◎ Standard stem position indicator
- ◎ High actuator cycle life
- ◎ Anodized aluminum actuator to provide good corrosion and wear resistance
- ◎ Tested to 100,000 cycles at 100 psig (6.9 bar) with no leakage, no signs of wear or fatigue

参数/Technical Data

执行器最大工作压力 /Maximum working pressure for air operator		6.9 bar (100 psig)
执行器工作温度范围/Air operator temperature range		-23°C~93°C (-10°F~200°F)
执行器材料 /Air operator material	缸体/Cylinder、活塞/ piston、端盖/cover plates、阀盖/spring housing	阳极氧化铝/Anodized Aluminum
	支撑架/Yoke	不锈钢/Stainless Steel
	O形圈/O-ring	丁腈橡胶/NBR
驱动气压进口 /Air inlet connection		1/8" 或 3/8" NPT 内螺纹

尺寸

基本订购号 Basic Ordering Number	进气接口 Air Inlet Connection	活塞面积 sq.in. (sq. cm)	A in. (mm)	B in. (mm)
10NSS-MF9-X-C	1/8" NPT	51.20 (330.3)	16.24 (412.5)	6.54 (166.0)
10NSS-MF12-X-C		92.58 (597.3)	20.72 (526.3)	8.58 (218.0)
10NSS-MF16-X-C	3/8" NPT	112.55 (726.1)	24.12 (612.7)	9.57 (243.0)
10NSS-FNS12-X-C	1/8" NPT	92.58 (597.3)	20.72 (526.3)	8.58 (218.0)
10NSS-FRT12-X-C		92.58 (597.3)	20.72 (526.3)	8.58 (218.0)
10NSS-FNS16-X-C	3/8" NPT	112.55 (726.1)	24.12 (612.7)	9.57 (243.0)
10NSS-FRT16-X-C		112.55 (726.1)	24.12 (612.7)	9.57 (243.0)
15NSS-DFF2-X-C	1/8" NPT	7.79 (50.3)	8.56 (217.3)	3.62 (92.0)
15NSS-DFF4-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-DFF6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-DFF8-X-C		51.20 (330.3)	16.24 (412.5)	6.54 (166.0)
15NSS-FNS2-X-C		7.79 (50.3)	8.56 (217.3)	3.62 (92.0)
15NSS-FRT2-X-C		7.79 (50.3)	8.56 (217.3)	3.62 (92.0)
15NSS-FNS4-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-FRT4-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-FNS6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-FRT6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
15NSS-FNS8-X-C		51.20 (330.3)	16.24 (412.5)	6.54 (166.0)
15NSS-FRT8-X-C		51.20 (330.3)	16.24 (412.5)	6.54 (166.0)
20NSS-MF4-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
20NSS-MF6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
20NSS-MF9-X-C		51.20 (330.3)	16.24 (412.5)	6.54 (166.0)
20NSS-MF12-X-C		92.58 (597.3)	20.72 (526.3)	8.58 (218.0)
20NSS-MF16-X-C	3/8" NPT	112.55 (726.1)	24.12 (612.7)	9.57 (243.0)
30NSS-HF4-X-C	1/8" NPT	19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
30NSS-HF6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
30NSS-HF9-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
60NSS-HF4-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
60NSS-HF6-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)
60NSS-HF9-X-C		19.95 (128.7)	13.08 (332.3)	5.75 (146.0)



注：1.尺寸A是阀杆在关闭位置的尺寸。

2.所有尺寸仅供参考，可能会有变化。如需其他相关尺寸，请联系XIPUTEC集团或其授权代理商。

Notes: 1.A is the dimension of stem in closed position.

2.All dimensions are for reference only and are subject to change. For dimensions not shown above, please contact XIPUTEC Group or our authorized distributors.

气动执行器技术数据

10N系列: 690bar (10,000psig) 10N Series: 10,000 psig (690 bar)

基本订购号 Basic Ordering Number		系统压力 KSI (Mpa)				流量系数 Flow Coefficient (Cv)
		1-4 (6.9-27.6)	6 (41.4)	8 (55.2)	10 (69.0)	
10NSS-MF9-X-C	气源压力/Air Pressure psig (bar)	40 (2.8)	50 (3.5)	60 (4.1)	65 (4.5)	1.75
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.17 (4.2)	0.25 (6.3)	0.33 (8.4)	0.41 (10.5)	
	阀杆行程/Stem Travel in. (mm)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	
10NSS-MF12-X-C	气源压力/Air Pressure psig (bar)	45 (3.1)	50 (3.5)	60 (4.1)	70 (4.8)	2.80
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.23 (5.8)	0.34 (8.7)	0.46 (11.6)	0.57 (14.5)	
	阀杆行程/Stem Travel in. (mm)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	
10NSS-MF16-X-C	气源压力/Air Pressure psig (bar)	50 (3.5)	60 (4.1)	70 (4.8)	80 (5.5)	5.20
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.29 (7.4)	0.44 (11.1)	0.58 (14.8)	0.73 (18.5)	
	阀杆行程/Stem Travel in. (mm)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	
10NSS-FNS12-X-C 10NSS-FRT12-X-C	气源压力/Air Pressure psig (bar)	40 (2.8)	45 (3.1)	50 (3.5)	60 (4.1)	2.09
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.17 (4.4)	0.26 (6.5)	0.34 (8.7)	0.43 (10.9)	
	阀杆行程/Stem Travel in. (mm)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	
10NSS-FNS16-X-C 10NSS-FRT16-X-C	气源压力/Air Pressure psig (bar)	45 (3.1)	50 (3.5)	60 (4.1)	65 (4.5)	4.40
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.20 (5.1)	0.30 (7.7)	0.41 (10.3)	0.51 (12.9)	
	阀杆行程/Stem Travel in. (mm)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	

注: 1.-X代表阀门的流通模式。

2.所列阀门Cv值适合于两通直通型阀门。对于两通角型阀门的Cv值将在此基础上增大50%。

3.所有尺寸仅供参考, 可能有所变动。

Notes: 1.-X: Designator of valve flow patterns.

2.Cv values shown are for 2-way straight valve pattern. For 2-way angle pattern, increase Cv value by 50% (based on water).

3.All dimensions are for reference only and are subject to change.

15N系列: 1034bar (15, 000psig)

15N Series: 15,000 psig (1034bar)

基本订购号 Basic Ordering Number		系统压力 KSI (Mpa)						流量系数 (Cv)
		1-6 (6.9-41.4)	8 (55.2)	10 (69.0)	12 (82.7)	14 (96.5)	15 (103.4)	
15NSS-DFF2-X-C	气源压力/Air Pressure psig (bar)	60 (4.1)	65 (4.5)	75 (5.2)	80 (5.5)	90 (6.2)	95 (6.6)	0.10
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.10 (2.5)	0.13 (3.3)	0.16 (4.1)	0.19 (4.9)	0.22 (5.7)	0.24 (6.1)	
	阀杆行程/Stem Travel in. (mm)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	
15NSS-DFF4-X-C 15NSS-DFF6-X-C	气源压力/Air Pressure psig (bar)	50 (3.5)	55 (3.8)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	0.54 (15NSS-DFF4-X-C) 0.95 (15NSS-DFF6-X-C)
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.11 (2.9)	0.15 (3.8)	0.19 (4.8)	0.23 (5.8)	0.26 (6.7)	0.28 (7.2)	
	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	
15NSS-DFF8-X-C	气源压力/Air Pressure psig (bar)	50 (3.5)	60 (4.1)	70 (4.8)	75 (5.2)	85 (5.9)	90 (6.2)	1.90
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.27 (6.8)	0.36 (9.1)	0.45 (11.4)	0.54 (13.6)	0.63 (15.9)	0.67 (17.0)	
	阀杆行程/Stem Travel in. (mm)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	
15NSS-FNS2-X-C 15NSS-FRT2-X-C	气源压力/Air Pressure psig (bar)	60 (4.1)	65 (4.5)	75 (5.2)	80 (5.5)	90 (6.2)	95 (6.6)	0.07
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.10 (2.5)	0.13 (3.3)	0.16 (4.1)	0.19 (4.9)	0.22 (5.7)	0.24 (6.1)	
	阀杆行程/Stem Travel in. (mm)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	0.14 (3.5)	
15NSS-FNS4-X-C 15NSS-FRT4-X-C	气源压力/Air Pressure psig (bar)	50 (3.5)	55 (3.8)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	0.47
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.11 (2.9)	0.15 (3.8)	0.19 (4.8)	0.23 (5.8)	0.26 (6.7)	0.28 (7.2)	
	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	
15NSS-FNS6-X-C 15NSS-FRT6-X-C	气源压力/Air Pressure psig (bar)	50 (3.5)	55 (3.8)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	0.59
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.11 (2.9)	0.15 (3.8)	0.19 (4.8)	0.23 (5.8)	0.26 (6.7)	0.28 (7.2)	
	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	
15NSS-FNS8-X-C 15NSS-FRT8-X-C	气源压力/Air Pressure psig (bar)	45 (3.1)	50 (3.5)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	1.04
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.20 (5.0)	0.26 (6.6)	0.33 (8.3)	0.39 (9.9)	0.46 (11.6)	0.49 (12.4)	
	阀杆行程/Stem Travel in. (mm)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	

注: 1.-X代表阀门的流通模式。

2.所列阀门Cv值适合于两通直通型阀门。对于两通角型阀门的Cv值将在此基础上增大50%。

3.所有尺寸仅供参考, 可能有所变动。

Notes: 1.-X: Designator of valve flow patterns.

2.Cv values shown are for 2-way straight valve pattern. For 2-way angle pattern, increase Cv value by 50% (based on water).

3.All dimensions are for reference only and are subject to change.

20N系列: 1379bar (20,000psig)
20N Series: 20,000 psig (1379bar)

基本订购号 Basic Ordering Number		系统压力 KSI (Mpa)									流量系数 (Cv)
		1-4 (6.9-27.6)	6 (41.4)	8 (55.2)	10 (69.0)	12 (82.7)	14 (96.5)	16 (110.3)	18 (124.1)	20 (137.9)	
20NSS-MF4-X-C 20NSS-MF6-X-C	气源压力/Air Pressure psig (bar)	40 (2.8)	50 (3.5)	55 (3.8)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	80 (5.5)	90 (6.2)	0.29 (20NSS-MF4-X-C) 0.62 (20NSS-MF6-X-C)
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.07 (1.9)	0.11 (2.9)	0.15 (3.8)	0.19 (4.8)	0.23 (5.8)	0.26 (6.7)	0.30 (7.7)	0.34 (8.6)	0.38 (9.6)	
	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	
20NSS-MF9-X-C	气源压力/Air Pressure psig (bar)	40 (2.8)	45 (3.1)	50 (3.5)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	80 (5.5)	90 (6.2)	1.30
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.13 (3.3)	0.20 (5.0)	0.26 (6.6)	0.33 (8.3)	0.39 (9.9)	0.46 (11.6)	0.52 (13.2)	0.59 (14.9)	0.65 (16.5)	
	阀杆行程/Stem Travel in. (mm)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	0.26 (6.5)	
20NSS-MF12-X-C	气源压力/Air Pressure psig (bar)	40 (2.8)	45 (3.1)	50 (3.5)	60 (4.1)	65 (4.5)	70 (4.8)	75 (5.2)	85 (5.9)	90 (6.2)	2.41
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.17 (4.4)	0.26 (6.5)	0.34 (8.7)	0.43 (10.9)	0.52 (13.1)	0.60 (15.3)	0.69 (17.4)	0.77 (19.6)	0.86 (21.8)	
	阀杆行程/Stem Travel in. (mm)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	0.36 (9.2)	
20NSS-MF16-X-C	气源压力/Air Pressure psig (bar)	45 (3.1)	50 (3.5)	60 (4.1)	65 (4.5)	70 (4.8)	80 (5.5)	85 (5.9)	95 (6.6)	100 (6.9)	4.40
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.20 (5.1)	0.30 (7.7)	0.41 (10.3)	0.51 (12.9)	0.61 (15.4)	0.71 (18.0)	0.81 (20.6)	0.91 (23.1)	1.01 (25.7)	
	阀杆行程/Stem Travel in. (mm)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	0.41 (10.3)	

30N系列: 2068bar (30,000psig)
30N Series: 30,000 psig (2068bar)

基本订购号 Basic Ordering Number		系统压力 KSI (Mpa)											流量系数 (Cv)
		1-10 (6.9-69.0)	12 (82.7)	14 (96.5)	16 (110.3)	18 (124.1)	20 (137.9)	22 (151.7)	24 (165.5)	26 (179.3)	28 (193.1)	30 (206.8)	
30NSS-HF4-X-C 30NSS-HF6-X-C 30NSS-HF9-X-C	气源压力/Air Pressure psig (bar)	55 (3.8)	60 (4.1)	65 (4.5)	65 (4.5)	70 (4.8)	75 (5.2)	80 (5.5)	85 (5.9)	90 (6.2)	95 (6.6)	100 (6.9)	0.12 (30NSS-HF4-X-C) 0.22 (30NSS-HF6-X-C) 0.31 (30NSS-HF9-X-C)
	弹簧预压缩/Spring Pre-Compression in. (mm)	0.14 (3.8)	0.18 (4.6)	0.21 (5.4)	0.24 (6.1)	0.27 (6.9)	0.30 (7.7)	0.33 (8.4)	0.36 (9.2)	0.39 (10)	0.42 (10.7)	0.45 (11.5)	
	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	

注: 1.-X代表阀门的流通模式。

2.所列阀门Cv值适合两通直通型阀门。对于两通角型阀门的Cv值将在此基础上增大50%。

3.所有尺寸仅供参考, 可能有所变动。

Notes: 1.-X: Designator of valve flow patterns.

2.Cv values shown are for 2-way straight valve pattern. For 2-way angle pattern, increase Cv value by 50% (based on water).

3.All dimensions are for reference only and are subject to change.

60N系列: 4137bar (60,000psig)

60N Series: 60,000 psig (4137bar)

基本订购号 Basic Ordering Number		系统压力 KSI (Mpa)										流量系数 (Cv)
		1-15 (6.9-103.4)	20 (137.9)	25 (172.4)	30 (206.8)	35 (241.3)	40 (275.8)	45 (310.3)	50 (344.7)	55 (379.2)	60 (413.7)	
60NSS-HF4-X-C	气源压力/Air Pressure psig (bar)	55 (3.8)	65 (4.5)	65 (4.5)	75 (5.2)	75 (5.2)	85 (5.9)	95 (6.6)	95 (6.6)	95 (6.6)	95 (6.6)	0.08 (60NSS-HF4-X-C)
60NSS-HF6-X-C	弹簧预压缩/Spring Pre-Compression in. (mm)	0.12 (3.2)	0.19 (4.8)	0.19 (4.8)	0.25 (6.4)	0.25 (6.4)	0.31 (7.9)	0.38 (9.7)	0.38 (9.7)	0.44 (11.2)	0.50 (12.7)	0.09 (60NSS-HF6-X-C)
60NSS-HF9-X-C	阀杆行程/Stem Travel in. (mm)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.19 (4.9)	0.13 (3.2)	0.14 (60NSS-HF9-X-C)