

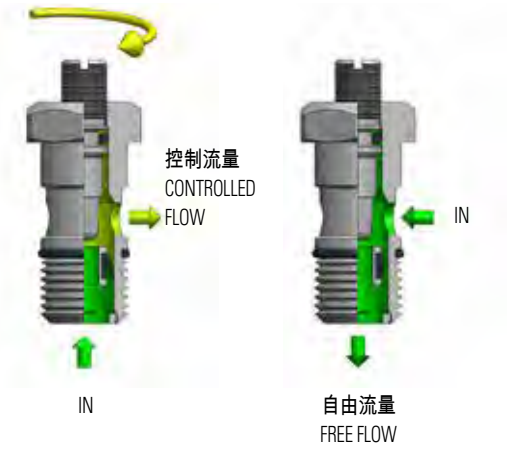
MV LINE

cmatic[®]
P N E U M A T I C F I T T I N G S

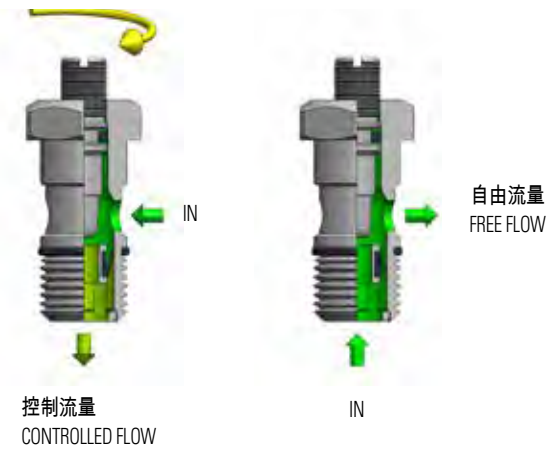
功能接头
Function Fittings



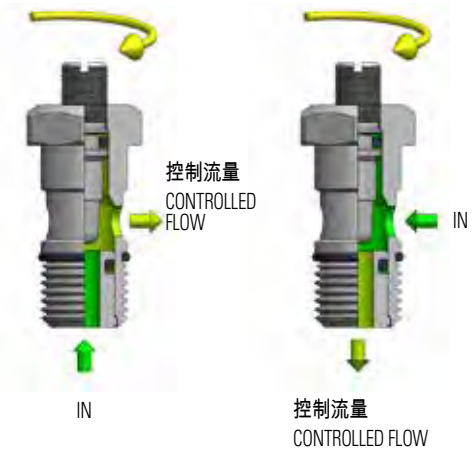
.../C = 排气节流
Meter out flow control



.../N = 进气节流
Meter in flow control



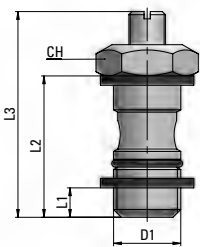
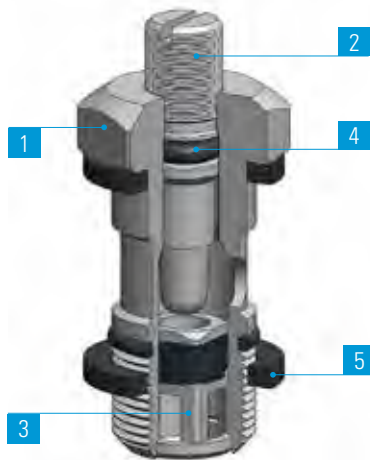
.../B = 双向流量调节
Bidirectional flow control



节流阀用于调节气路中流量，根据应用类型，可以分为双向节流阀和单向节流阀。其中单向节流阀非常适合进行气缸速度的调节。

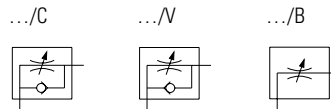
They can adjust the flow in a pneumatic circuit. Depending on the flow control used, the setting can be made both ways (Bidirectional Flow Control), or just one way (Unidirectional Flow Control). The Unidirectional Flow Control is particularly used to adjust the speed of pneumatic cylinders.

1	2	3	4	5
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	垫圈 Gasket
镀镍黄铜 UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	PA6 PA6



类型	D1	L1	L2	L3 最大	CH	g Δ
15 00 M5	M5x0.8	4	16	25	8	5
15 00 18	G1/8	5	24	32	14	17
15 00 14	G1/4	6.5	27.5	40	17	33
15 00 38	G3/8	7	31	50	20	59
15 00 12	G1/2	9	38	61	26	107

可用版本 :



技术规格

建议的连接管路：
取决于与节流阀相连的接头类型。

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
according to the fitting connected to the flow control.

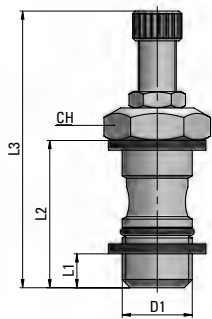
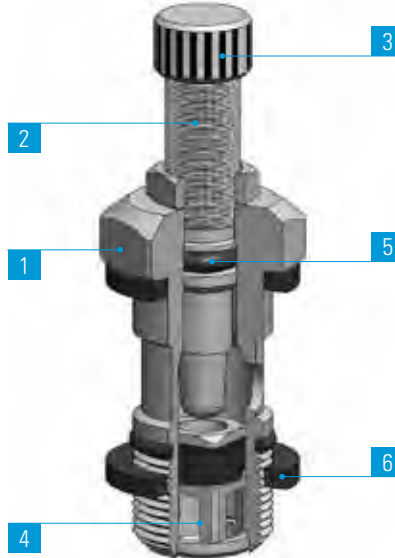
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 16

带调节旋钮节流阀

Flow Control with Handwheel

1	2	3	4	5	6
本体 Body	针阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	垫圈 Gasket
镀镍黄铜 UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	PA6 PA6



类型	D1	L1	L2	L3 最大	CH	g Δ
16 00 M5	M5x0.8	4	16	38.5	8	6
16 00 18	G1/8	5	24	42.5	14	21
16 00 14	G1/4	6.5	27.5	51	17	35
16 00 38	G3/8	7	31	63	20	73
16 00 12	G1/2	9	38	81	26	136

可用版本：

.../C



.../N



.../B



技术规格

建议的连接管路：
取决于与节流阀相连的接头类型。

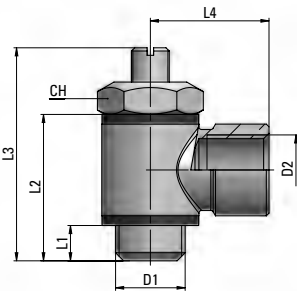
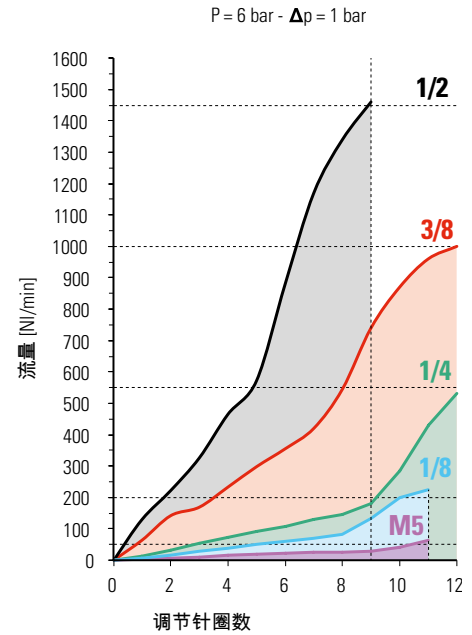
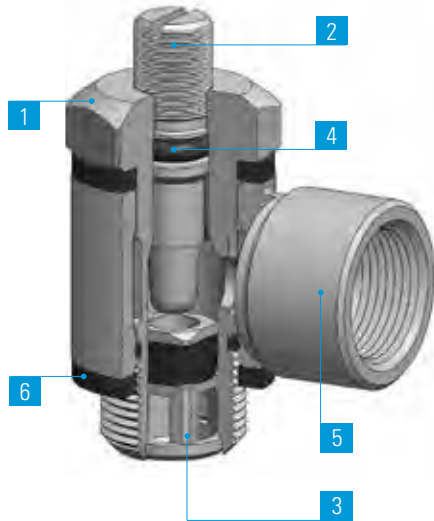
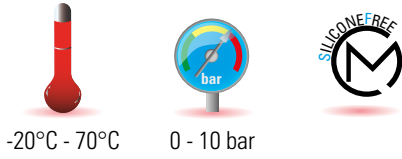
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

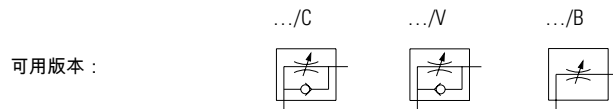
Recommended tubings:
according to the fitting connected to the flow control.

Application field:
pneumatic installations fed with filtered, lubricated air.

1	2	3	4	5	6
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	环 Banjo Ring	垫圈 Gasket
镀镍黄铜 UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	RA系列接头 RA line standard fittings	PA6 PA6



类型	D1	D2	L1	L2	L3 最大	L4	CH	g	Δ
17 00 M5	M5x0.8	M5x0.8	4	16	25	11	8	10	
17 00 18	G1/8	G1/8	5	24	32	16	14	32	
17 00 14	G1/4	G1/4	6.5	27.5	40	22	17	58	
17 00 38	G3/8	G3/8	7	31	50	26	20	98	
17 00 12	G1/2	G1/2	9	38	61	32	26	173	



节流阀安装后，管路不可调向。
The banjo ring no longer swivel after flow control installation.

应用领域：
空气经过过滤和润滑处理的气动系统。

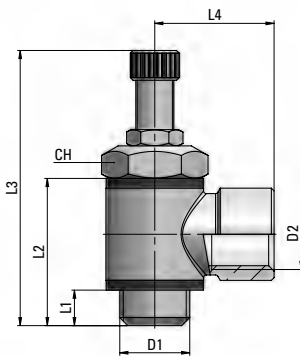
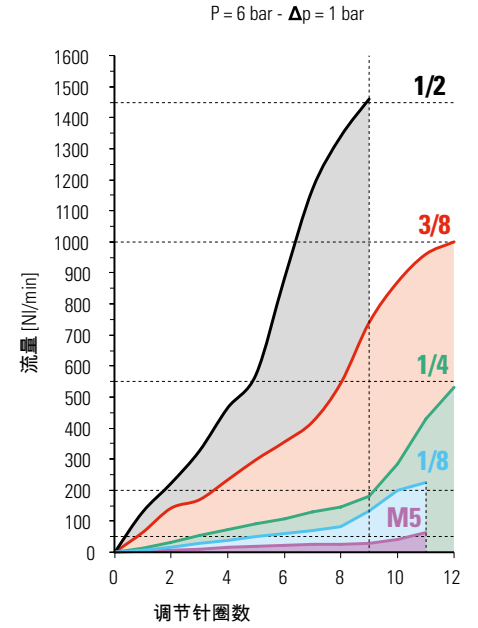
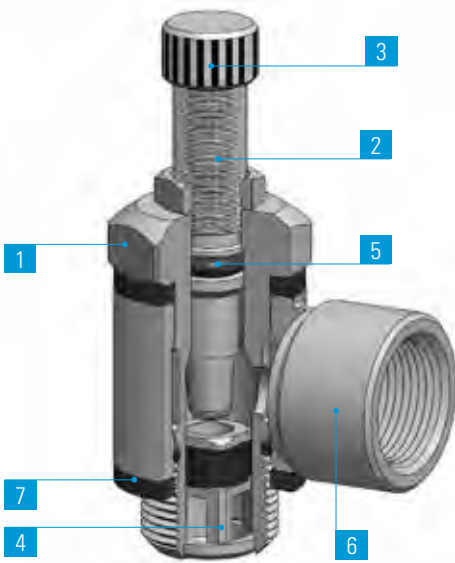
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 40

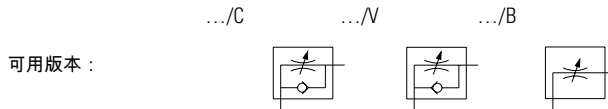
带螺纹接口和调节旋钮的节流阀

Male Flow Control with Handwheel

1	2	3	4	5	6	7
本体 Body	针阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	环 Banjo Ring	垫圈 Gasket
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	RA系列接头 RA line standard fittings	PA6 PA6



类型	D1	D2	L1	L2	L3 最大	L4	CH	g $\Delta\Delta$
40 00 M5	M5x0.8	M5x0.8	4	16	38.5	11	8	12
40 00 18	G1/8	G1/8	5	24	42.5	16	14	37
40 00 14	G1/4	G1/4	6.5	27.5	51	22	17	65
40 00 38	G3/8	G3/8	7	31	63	26	20	112
40 00 12	G1/2	G1/2	9	38	81	32	26	202



节流阀安装后，管路不可调向。
The banjo ring no longer swivel after flow control installation.

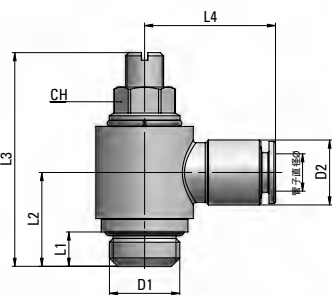
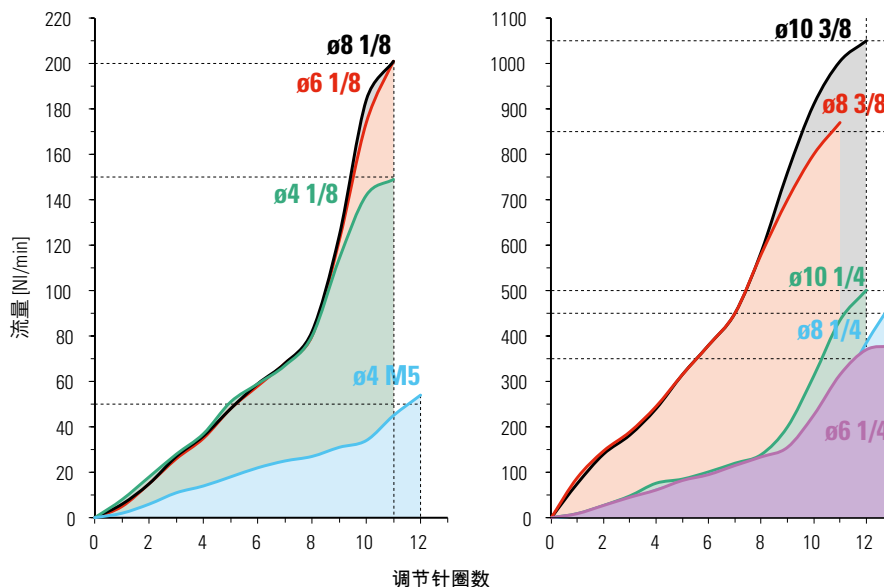
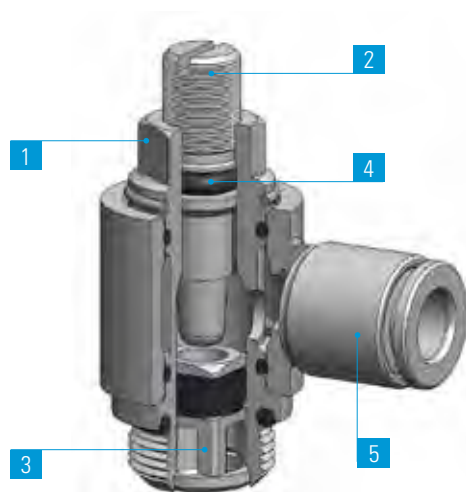
应用领域：
空气经过过滤和润滑处理的气动系统。

Application field:
pneumatic installations fed with filtered, lubricated air.

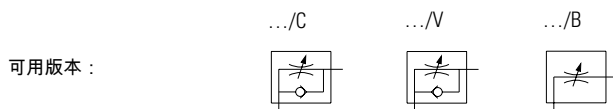
1	2	3	4	5
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	环 Banjo Ring
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	MA系列快插接头 MA line push-in fittings



P = 6 bar - Δp = 1 bar



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g Δ
18 04 M5	4	M5x0.8	9	4	11.5	25.5	18	6	12
18 04 18	4	G1/8	9	5	15.5	32	19.5	9	29
18 06 M5	6	M5x0.8	12	4	11.5	25.5	21.5	6	15.5
18 06 18	6	G1/8	12	5	15.5	32	22	9	27
18 06 14	6	G1/4	12	6.5	17.5	40	23.5	10	49
18 08 18	8	G1/8	14	5	15.5	32	22.5	9	31
18 08 14	8	G1/4	14	6.5	17.5	40	24	10	49
18 08 38	8	G3/8	14	9	22	50	26	14	89
18 10 14	10	G1/4	16	6.5	17.5	40	26.5	10	53
18 10 38	10	G3/8	16	9	22	50	28	14	86



节流阀安装后，管路可调向。
The banjo ring swivels also after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

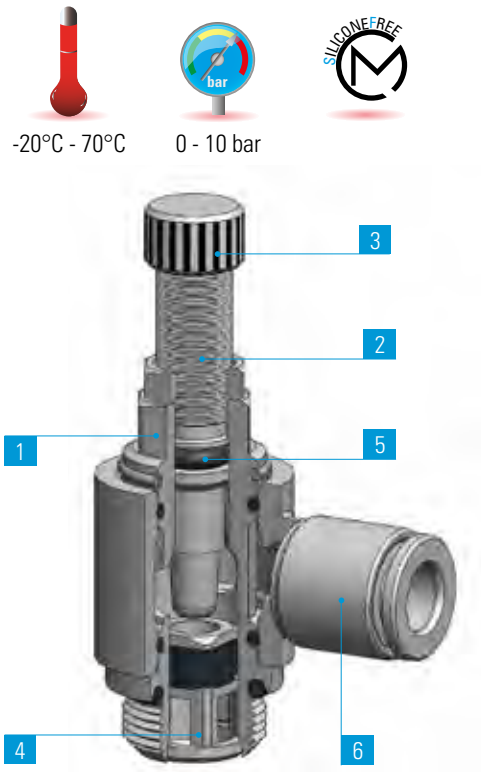
DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

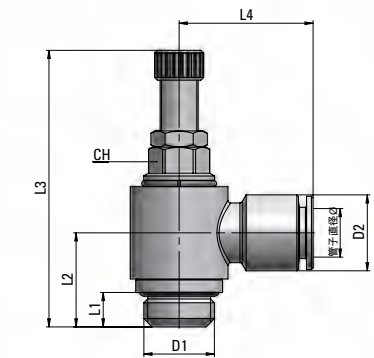
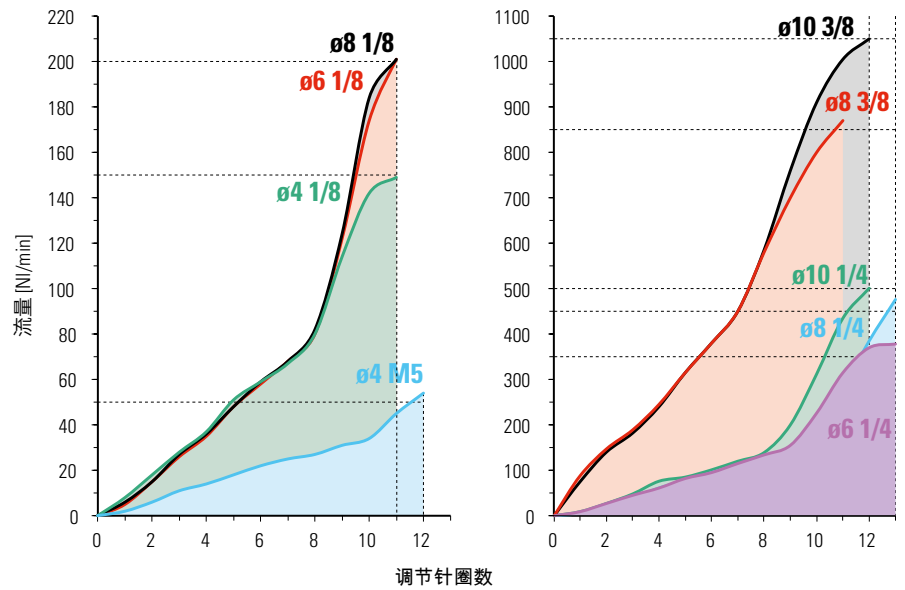
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 41

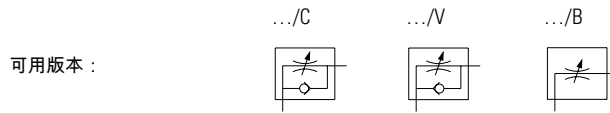
1	2	3	4	5	6
本体 Body	针阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	环 Banjo Ring
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	MA系列快插接头 MA line push-in fittings



P = 6 bar - Δp = 1 bar



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g Δ
41 04 M5	4	M5x0.8	9	4	11.5	39	18	6	13
41 04 18	4	G1/8	9	5	15.5	42	19.5	9	32
41 06 M5	6	M5x0.8	12	4	11.5	39	21.5	6	16.9
41 06 18	6	G1/8	12	5	15.5	42	22	9	34
41 06 14	6	G1/4	12	6.5	17.5	51	23.5	10	54
41 08 18	8	G1/8	14	5	15.5	42	22.5	9	35
41 08 14	8	G1/4	14	6.5	17.5	51	24	10	55
41 08 38	8	G3/8	14	9	22	63	26	14	99
41 10 14	10	G1/4	16	6.5	17.5	51	26.5	10	62
41 10 38	10	G3/8	16	9	22	63	28	14	105



节流阀安装后，管路可调向。
The banjo ring swivels also after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

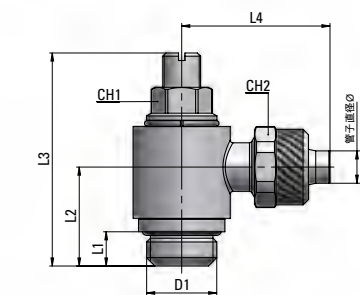
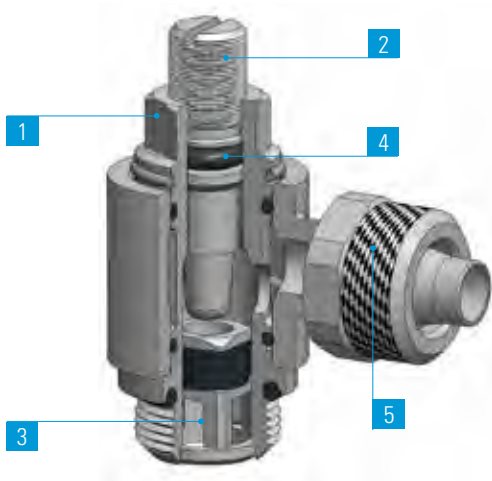
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Application field:
pneumatic installations fed with filtered, lubricated air.

1	2	3	4	5
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	环 Banjo Ring
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	MC系列快速接头 MC line push-on fittings



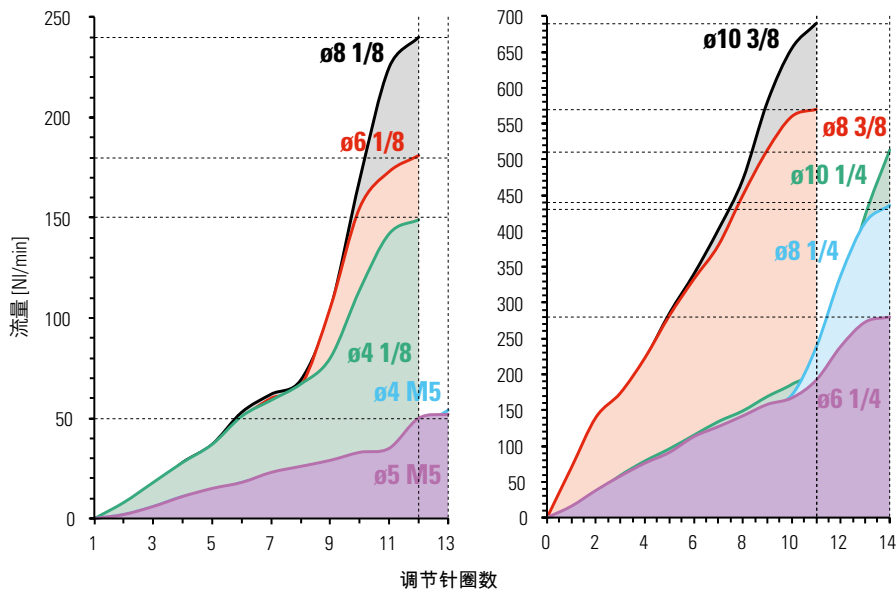
节流阀安装后，管路可调向。
The banjo ring swivels also after flow control installation.

技术规格

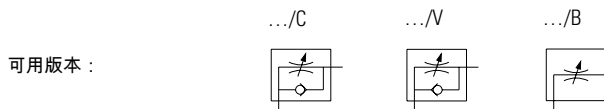
建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

P = 6 bar - Δp = 1 bar



类型	管径 ϕ_e	D1	D2	L1	L2	L3 最大	L4	CH	g
20 04 M5	4-2.5	M5x0.8	4	11.5	25.5	15.5	6	7	11
20 05 M5	5-3	M5x0.8	4	11.5	25.5	19	6	8	11.5
20 05 18	5-3	G1/8	5	15.5	32	25	9	12	33
20 06 M5	6-4	M5x0.8	4	11.5	25.5	19	6	9	12
20 06 18	6-4	G1/8	5	15.5	32	25	9	12	33
20 06 14	6-4	G1/4	6.5	17.5	40	26.5	10	12	52
20 08 18	8-6	G1/8	5	15.5	32	25	9	14	33
20 08 14	8-6	G1/4	6.5	17.5	40	27.5	10	14	54
20 08 38	8-6	G3/8	9	22	50	29.5	14	14	90
20 10 14	10-8	G1/4	6.5	17.5	40	28.5	10	16	56
20 10 38	10-8	G3/8	9	22	50	30.5	14	16	92



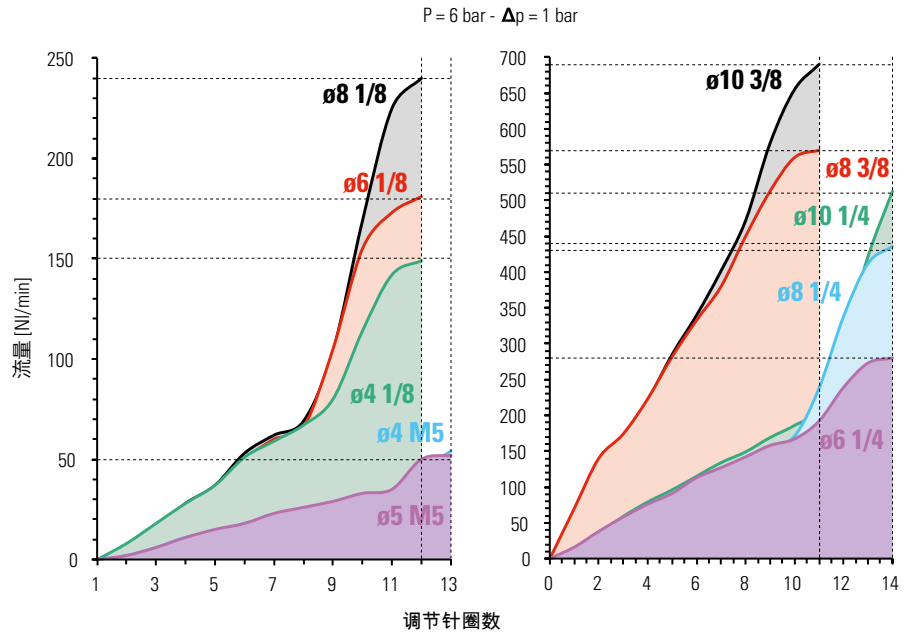
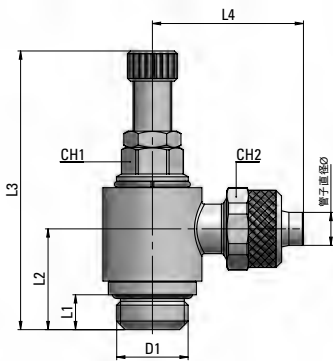
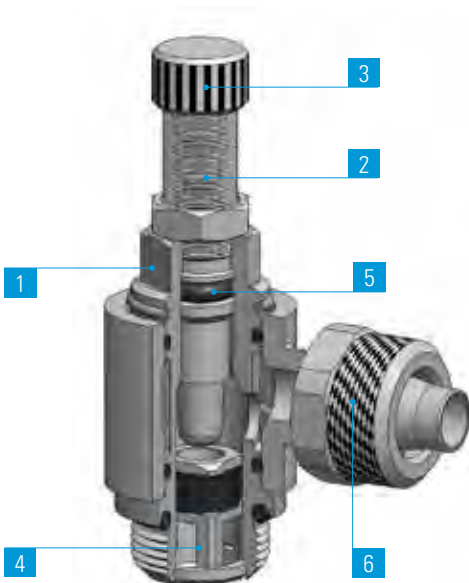
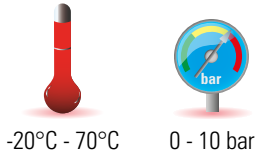
DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

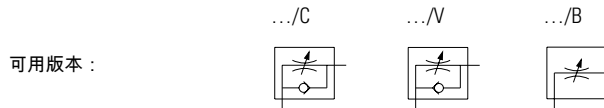
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 42

1	2	3	4	5	6
本体 Body	针阀阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	环 Banjo Ringn
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	MC系列快速接头 MC line push-on fittings



类型	管径 \varnothing_e	D1	L1	L2	L3 最大	L4	CH1	CH2	g Δ
42 04 M5	4-2.5	M5x0.8	4	11.5	39	15.5	6	7	12
42 05 M5	5-3	M5x0.8	4	11.5	39	19	6	8	13
42 05 18	5-3	G1/8	5	15.5	42.5	25	9	12	37
42 06 M5	6-4	M5x0.8	4	11.5	39	19	6	9	14
42 06 18	6-4	G1/8	5	15.5	42.5	25	9	12	37
42 06 14	6-4	G1/4	6.5	17.5	51	26.5	10	12	61
42 08 18	8-6	G1/8	5	15.5	42.5	25	9	14	38
42 08 14	8-6	G1/4	6.5	17.5	51	27.5	10	14	60
42 08 38	8-6	G3/8	9	22	72	29.5	14	14	105
42 10 14	10-8	G1/4	6.5	17.5	51	28.5	10	16	62
42 10 38	10-8	G3/8	9	22	72	30.5	14	16	108



节流阀安装后，管路可调向
The banjo ring swivels also after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

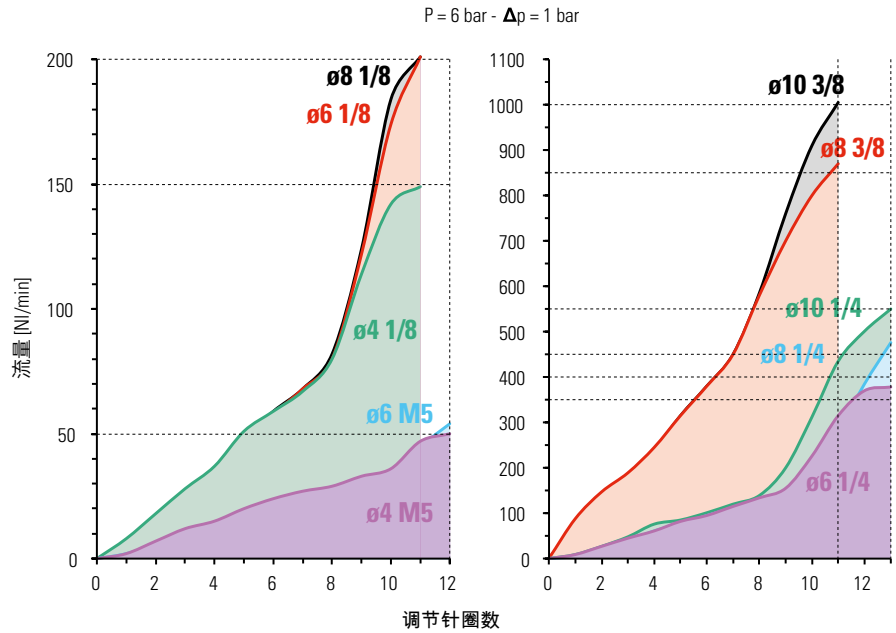
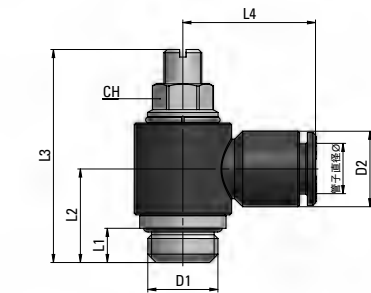
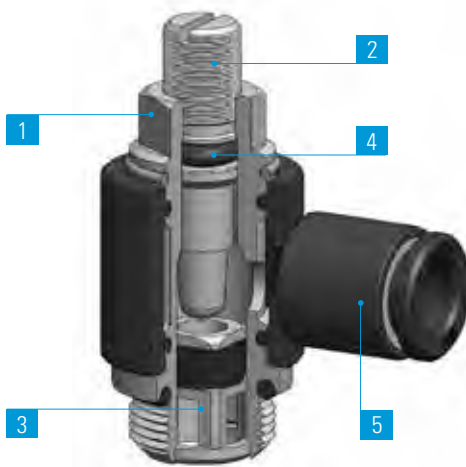
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

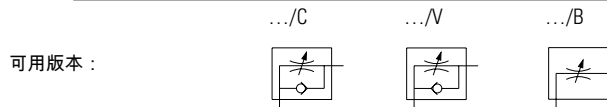
Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Application field:
pneumatic installations fed with filtered, lubricated air.

1	2	3	4	5
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	环 Banjo Ring
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	MB系列快插接头 MB line push-in fittings



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g
38 04 M5	4	M5x0.8	9.7	4	11.5	25.5	17	6	7
38 04 18	4	G1/8	9.7	5	15.5	32	18.5	9	19
38 06 M5	6	M5x0.8	12	4	11.5	25.5	20.5	6	8
38 06 18	6	G1/8	12	5	15.5	32	22	9	16
38 06 14	6	G1/4	12	6.5	17.5	40	23.5	10	32
38 08 18	8	G1/8	14	5	15.5	32	22.5	9	16
38 08 14	8	G1/4	14	6.5	17.5	40	24	10	32
38 08 38	8	G3/8	14	9	22	50	26	14	59
38 10 14	10	G1/4	16	6.5	17.5	40	26.5	10	33
38 10 38	10	G3/8	16	9	22	50	28	14	60



节流阀安装后，管路可调向。
The banjo ring swivels also after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

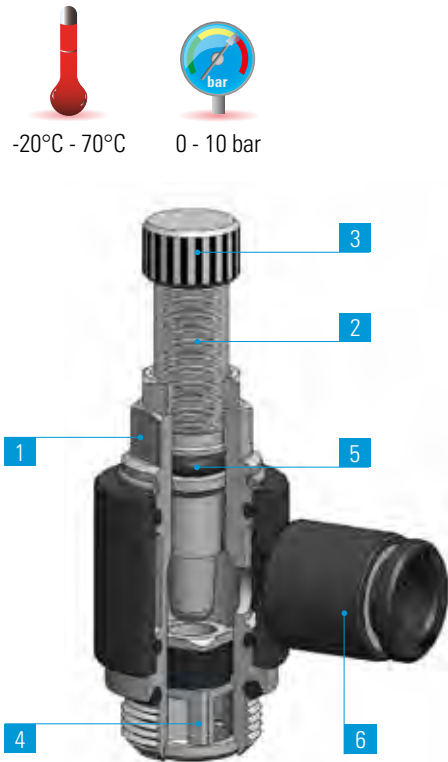
DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Application field:
pneumatic installations fed with filtered, lubricated air.

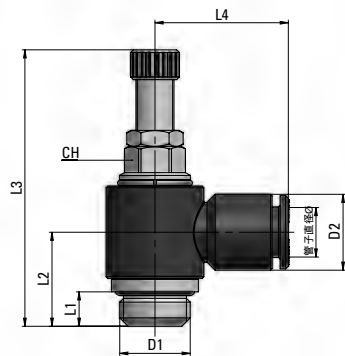
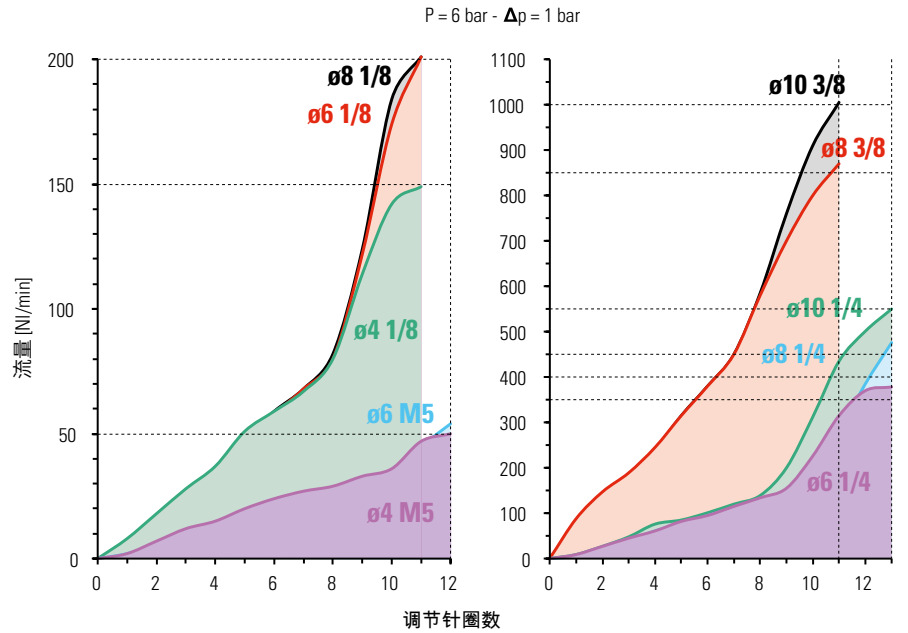
MV 36

1	2	3	4	5	6
本体 Body	针阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	环 Banjo Ring
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	MB系列快插接头 MB line push-in fittings

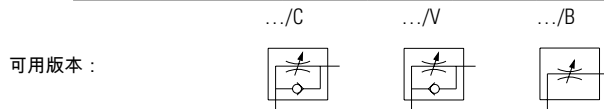


-20°C - 70°C

0 - 10 bar



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g Δ
36 04 M5	4	M5x0.8	9.7	4	11.5	39	17	6	9
36 04 18	4	G1/8	9.7	5	15.5	42	18.5	9	21
36 06 M5	6	M5x0.8	12	4	11.5	39	20.5	6	9.5
36 06 18	6	G1/8	12	5	15.5	42	22	9	22
36 06 14	6	G1/4	12	6.5	17.5	51	23.5	10	38
36 08 18	8	G1/8	14	5	15.5	42	22.5	9	22
36 08 14	8	G1/4	14	6.5	17.5	51	24	10	38
36 08 38	8	G3/8	14	9	22	63	26	14	72
36 10 14	10	G1/4	16	6.5	17.5	51	26	10	39
36 10 38	10	G3/8	16	9	22	63	28	14	74



节流阀安装后，管路可调向。
The banjo ring swivels also after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯 (98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

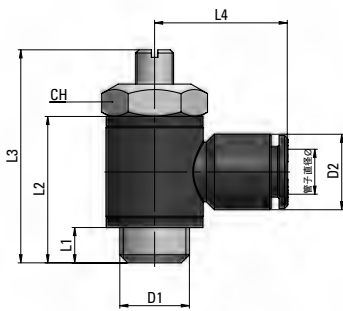
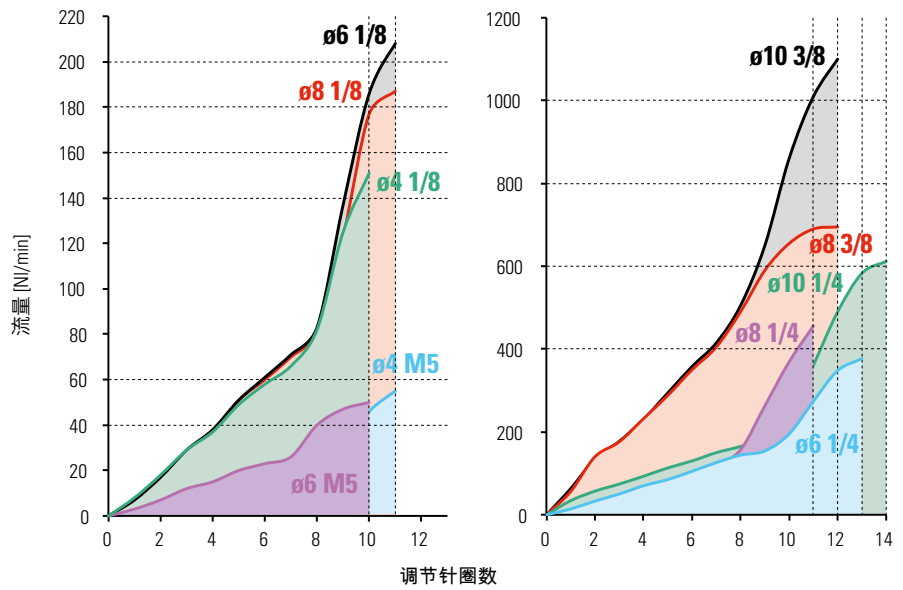
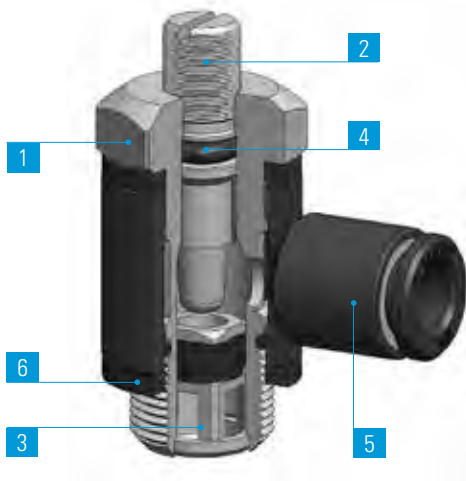
Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Application field:
pneumatic installations fed with filtered, lubricated air.

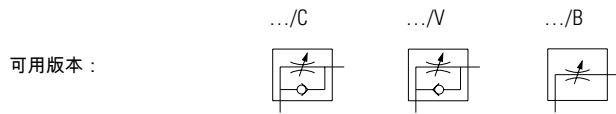
1	2	3	4	5	6
本体 Body	针阀 Needle	套筒 Cartridge	密封圈 Seals	环 Banjo Ring	垫圈 Gasket
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			NBR NBR	MB系列快插接头 MB line push-in fittings	PA6 PA6



P = 6 bar - Δp = 1 bar



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g
39 04 M5	4	M5x0.8	9.7	4	16	25	17	8	7
39 04 18	4	G1/8	9.7	5	24	32	18.5	14	19
39 06 M5	6	M5x0.8	12	4	16	25	20.5	8	8
39 06 18	6	G1/8	12	5	24	32	22	14	22
39 06 14	6	G1/4	12	6.5	27.5	40	23.5	17	38
39 08 18	8	G1/8	14	5	24	32	22.5	14	22
39 08 14	8	G1/4	14	6.5	27.5	40	24	17	38
39 08 38	8	G3/8	14	7	31	50	26	20	67
39 10 14	10	G1/4	16	6.5	27.5	40	26	17	39
39 10 38	10	G3/8	16	7	31	50	28	20	68



节流阀安装后，管路不可调向。
The banjo ring no longer swivel after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

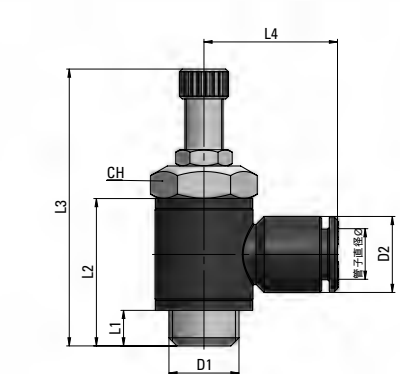
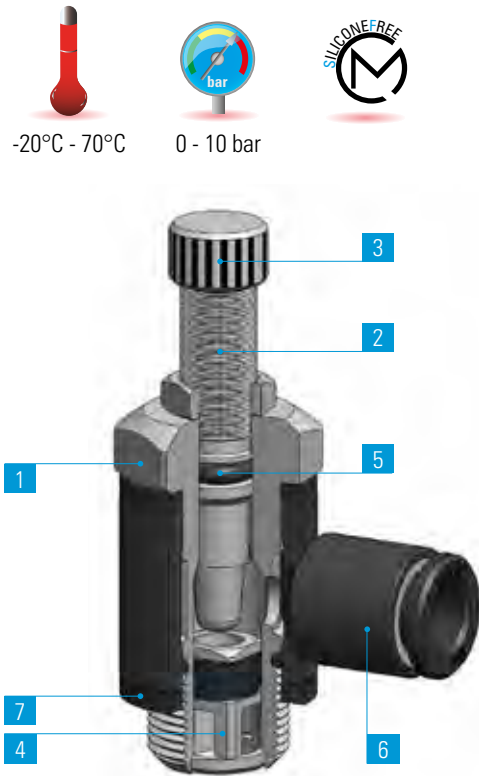
DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

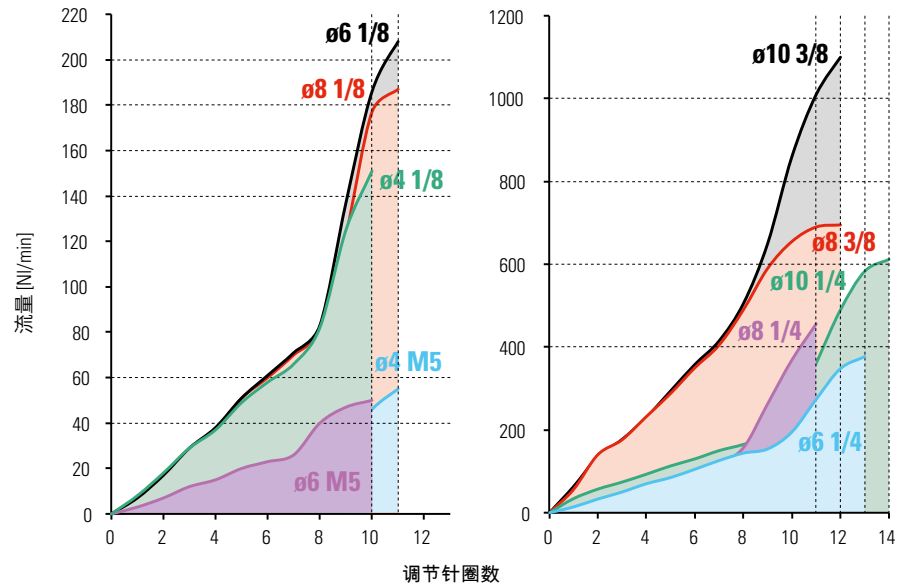
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 37

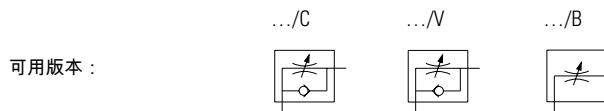
1	2	3	4	5	6	7
本体 Body	针阀 Needle	旋钮 Handwheel	套筒 Cartridge	密封圈 Seals	环 Banjo Ring	垫圈 Gasket
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated				NBR NBR	MB系列快插接头 MB line push-in fittings	PA6 PA6



P = 6 bar - Δp = 1 bar



类型	管径 \varnothing_e	D1	D2	L1	L2	L3 最大	L4	CH	g \triangle
37 04 M5	4	M5x0.8	9.7	4	16	38.5	17	8	8
37 04 18	4	G1/8	9.7	5	24	42.5	18.5	14	25
37 06 M5	6	M5x0.8	12	4	16	38.5	20.5	8	9
37 06 18	6	G1/8	12	5	24	42.5	22	14	25
37 06 14	6	G1/4	12	6.5	27.5	51	23.5	17	44
37 08 18	8	G1/8	14	5	24	42.5	22.5	14	25
37 08 14	8	G1/4	14	6.5	27.5	51	24	17	48
37 08 38	8	G3/8	14	7	31	63	26	20	81
37 10 14	10	G1/4	16	6.5	27.5	51	26	17	46
37 10 38	10	G3/8	16	7	31	63	28	20	82



节流阀安装后，管路不可调向。
The banjo ring no longer swivel after flow control installation.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

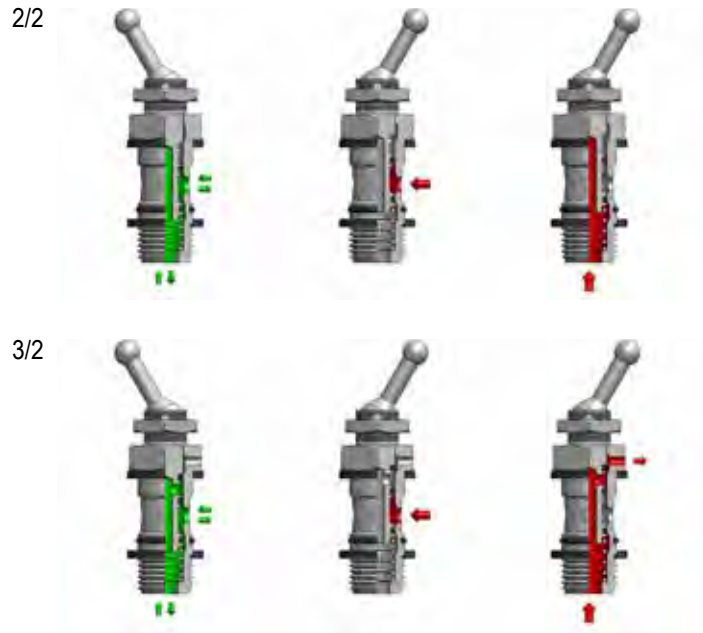
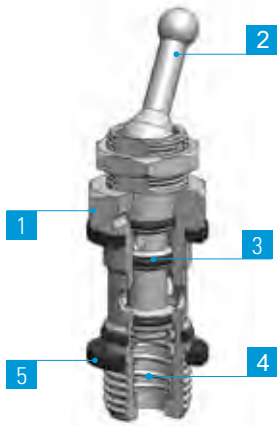
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 46

气动开关

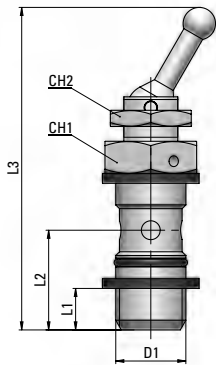
Pneumatic Switch

1	2	3	4	5
本体 Body	手柄 Handle	密封圈 Seals	弹簧 Spring	垫圈 Gasket
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated		NBR NBR	AISI 302不锈钢 Stainless Steel AISI 302	PA6 PA6

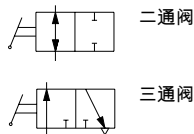


流量 (6 bar - Δp = 1bar)
Flow rate

1/8	235 NL/min
1/4	265 NL/min



类型	D1	L1	L2	L3	CH1	CH2	g
46 00 18	G1/8	6	16	55	14	15	25
46 00 14	G1/4	8	19	60	17	15	41



这些阀能够通过简单操作控制杆的方式截断回路（开/关）；有二通阀和三通阀两种，通过使用三通阀，除了可以断开回路外，还可以进行排气。

The MV 46 is a pneumatic switch. It is available in a 2/2 and 3/2-way version. The goal of the 2/2 way switch is to cut off the flow in the circuit whenever needed by simply operating the lever. The 3/2 way valve cuts off the flow and vents to atmosphere the terminal part of the circuit.

技术规格

建议的连接管路：
取决于与阀相连的接头类型。

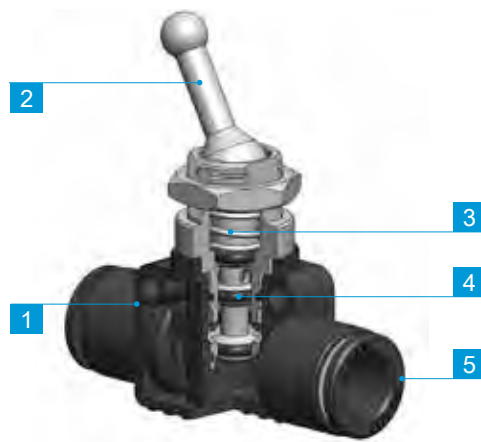
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
according to the fitting connected to the valve.

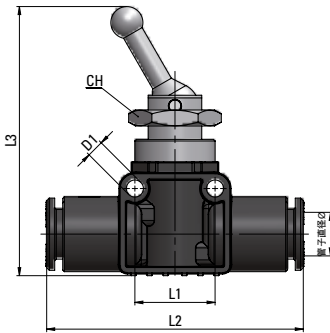
Application field:
pneumatic installations fed with filtered, lubricated air.

1	2	3	4	5
本体 Body	开关 Pneumatic switch	弹簧 Spring	密封圈 Seals	快插接头 Push-in fittings
POM POM	镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	AISI 302不锈钢 Stainless Steel AISI 302	NBR NBR	MB系列快插接头 MB line push-in fittings



流量 (6 bar - Δp = 1bar)
Flow rate

Ø6	185 NL/min
Ø8	190 NL/min



类型	管径Øe	D1	L1	L2	L3	CH	g
48 06 06	6	3.2	16	45	49	15	30
48 08 08	8	3.2	16	46	50	15	31.5



这些阀能够通过简单操作控制杆的方式截断回路（开/关）；有二通阀和三通阀两种，通过使用三通阀，除了可以断开回路外，还可以进行排气。

The MV 48 is a pneumatic switch. It is available in a 2/2 and 3/2-way version. The goal of the 2/2 way switch is to cut off the flow in the circuit whenever needed by simply operating the lever.

The 3/2 way valve cuts off the flow and vents to atmosphere the terminal part of the circuit.

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A).

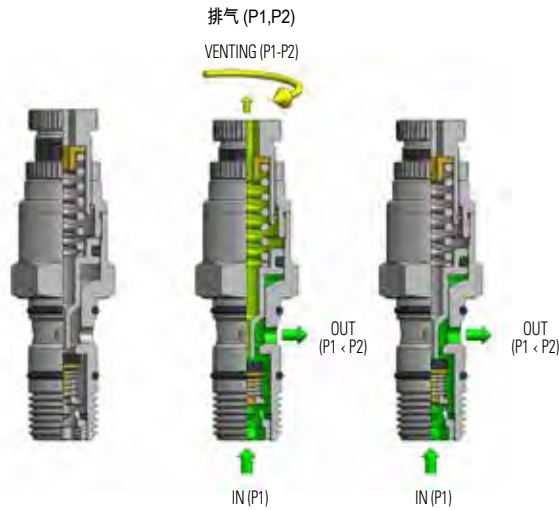
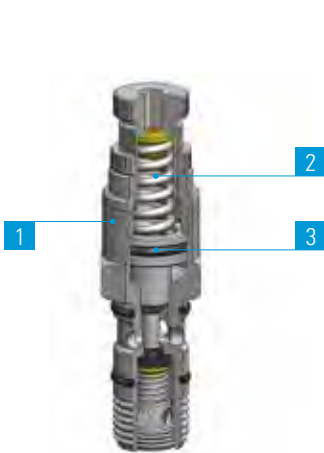
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 47

调压阀

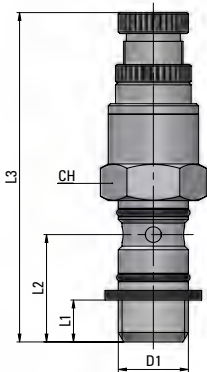
Pressure Control

1	2	3
本体 Body	弹簧 Spring	密封圈 Seals
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	AISI 302不锈钢 Stainless Steel AISI 302	NBR NBR

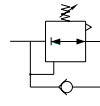


流量
Flow rate (6 bar - Δp = 1bar)

1/8	205 NL/min
1/4	290 NL/min



类型	D1	L1	L2	L3 最大	CH	g Δ
47 00 18	G1/8	6	15.5	56	15	33
47 00 14	G1/4	8	18.5	63	17	55



安装在气动回路中，可调节所连接设备的工作压力，长时间保持调节值恒定。可视作气缸和控制阀之间的节气单元，调整压力使降低到气缸活塞获得合适速度，因此产生节能效果。

When installed in a pneumatic circuit, the pressure control sets the working pressure of all the connected components. The pressure adjustment will be thereby kept steady for a long time. It can also be used as an economizer when connected between the valve and the cylinder to operate. Pressure is being saved and rod speed decreased in the desired direction. A big energy saving is this way obtained.

技术规格

建议的连接管路：
取决于与节流阀相连的接头类型。

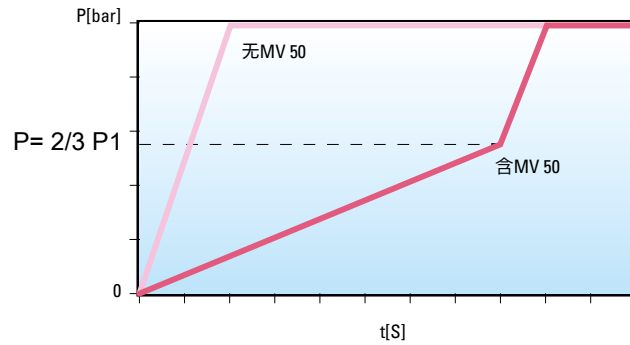
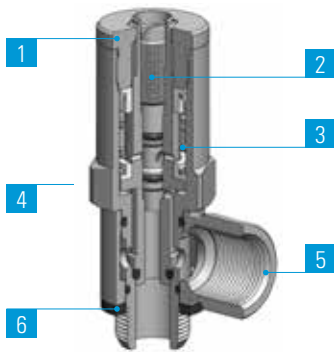
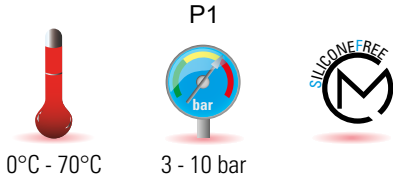
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
according to the fitting connected to the pressure control.

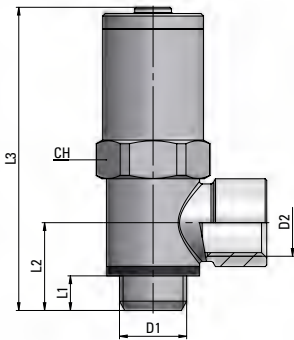
Application field:
pneumatic installations fed with filtered, lubricated air.

1	2	3	4	5	6
本体 Body	针阀 Needle	弹簧 Spring	密封圈 Seals	环 Banjo Ring	垫圈 Gasket
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated		AISI 302不锈钢 Stainless Steel AISI 302	NBR-PU NBR-PU	镀镍黄铜UNI EN 12165 CW617N Brass UNI EN 12165 CW617N Nickel plated	PA6 PA6

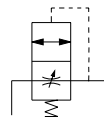


流量
Flow rate (6 bar - Δp = 1bar)

MV50 1/4	1040 NL/min
MV50 3/8	1900 NL/min
MV50 1/2	2570 NL/min



类型	D1	D2	L1	L2	L3	CH	g ΔΔ
50 00 14	G1/4	G1/4	6.5	17	66	20	99
50 00 38	G3/8	G3/8	9	21	71.5	20	128
50 00 12	G1/2	G1/2	10	24.5	74.5	25	185



这种功能接头能够为系统逐渐增压，避免之前已经排放的系统在突然加压之后在线路上产生的所谓“水锤”效应。软启动接头由用户通过特殊调节螺丝以预设方式缓慢打开，逐渐将压力引入回路中，从而使执行机构逐渐到达工作位置，因此避免突然变化。回路压力上升速度取决于调节针阀旋转：顺时针旋转时就可以达到压力平稳上升的效果。

This fitting allows for a progressive pressurization of the installation and prevents the actuators from being hit hard in case of sudden pressure feeding of the previously vented circuit. Depending on the desired spindle setting, the Slow Start Fitting will open gradually, pressure will progressively flow into the circuit and the actuators will go back to their working position without being hit. Pressure feeding speed is indeed determined by the rotation of the spindle. If turned clockwise, a very smooth pressurization will be achieved.

技术规格

建议的连接管路：
取决于与阀相连的接头类型。

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
according to the fitting connected to the valve.

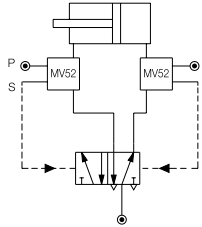
Application field:
pneumatic installations fed with filtered, lubricated air.

MV 52

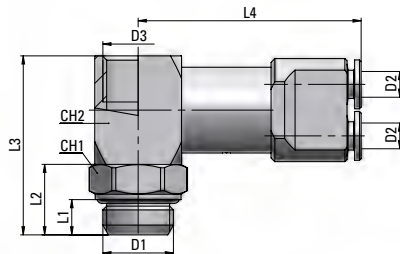
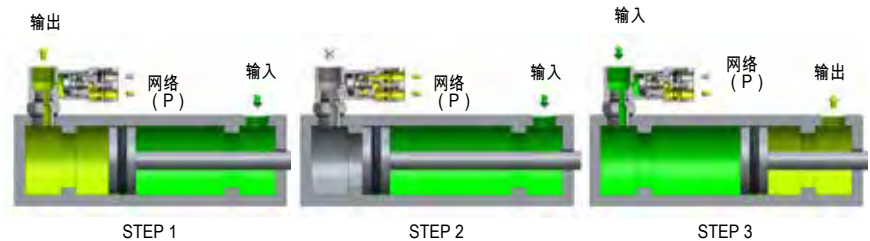
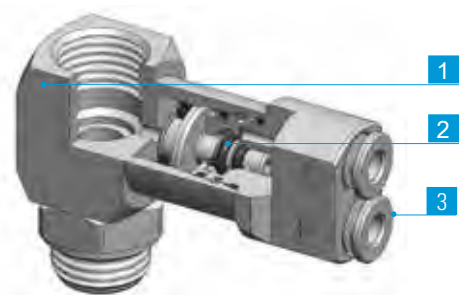
感测接头

Threshold Sensor

1	2	3
本体 Body	密封圈 Seals	快插接头 Push-in fittings
镀镍黄铜 UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	NBR-PU NBR-PU	MA系列快插接头 MA line push-in fittings



3	0.3	
4	0.5	
5	0.65	
6	0.9	往复压强 (bar)
7	1	Switching pressure (bar)
8	1.2	
9	1.4	
10	1.6	



类型	D1	D2	D3	L1	L2	L3	L4	CH1	CH2	g Δ
52 00 18	G1/8	4	G1/8	5	11	29.5	38	13	16	69
52 00 14	G1/4	4	G1/4	6.5	13	33	40	16	16	79
52 00 38	G3/8	4	G3/8	7	13	33	42	20	20	98

该功能接头能够检测到压力下降，并在背压达到一定值时，输出压力信号。直接安装在气缸上使用，类似位移传感器，当活塞运动到行程末端时，压力信号送出直方向控制阀换向，活塞在中间位置时，感测开关不起作用。该接头的主要特点是不用电气信号来触动。

Threshold sensor can detect a pressure drop and signal it with a command signal (s). This component turns out to be especially useful when assembled directly on the cylinder. When the piston completes its stroke (no more counter pressure available in the cylinder), a command signal is given out to a direction valve to have the piston change the stroke. Sole condition required for perfect component performance is that the piston has to complete its stroke. No intermediate positions are allowed. Major advantage of this component is to command the piston stroke changes without electrical connections

技术规格

建议的连接管路：
取决于与阀相连的接头类型。

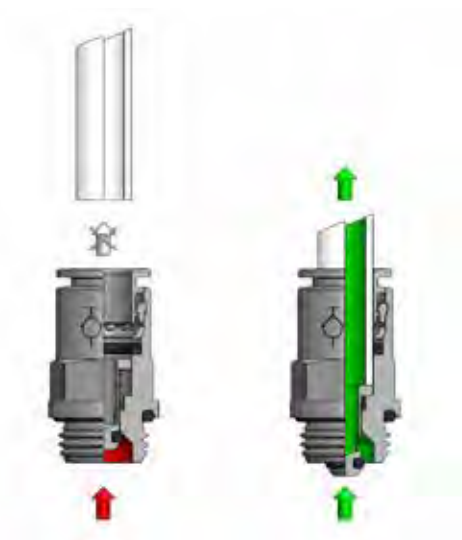
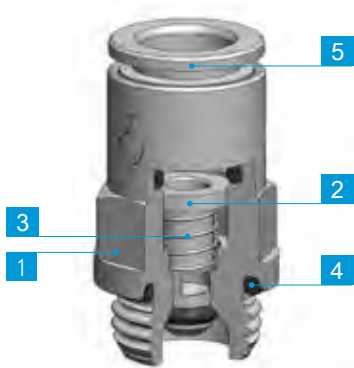
应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
according to the fitting connected to the valve.

Application field:
pneumatic installations fed with filtered, lubricated air.

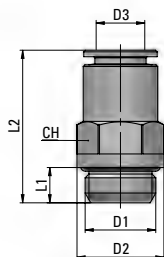
1	2	3	4	5
本体 Body	阀体 Valve	弹簧 Spring	密封圈 Seals	快插接头 Push-in fittings
镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated		AISI 302不锈钢 Stainless Steel AISI 302	NBR NBR	MA系列快插接头 MA line push-in fittings



流量 (6 bar - Δp = 1bar)
Flow rate

1/8	365 NL/min
1/4	380 NL/min

类型	D1	D2	D3	L1	L2	CH	g
55 06 18	G1/8	6	13.5	5	27	12	15
55 06 14	G1/4	6	16	6.5	27	12	18
55 08 18	G1/8	8	13.5	5	27.5	13	18
55 08 14	G1/4	8	16	6.5	27.5	13	21



该接头内置逆止阀，只有当插入气管后，气路导通，任何意外导致的气管脱落，都将使气路关闭。

This fitting is provided with a check valve that opens when inserting the tubing into the fitting. Only then the air flow is allowed. Should the tube accidentally get released, the valve would immediately close again and the air flow would stop.

技术规格



建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)。

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Application field:
pneumatic installations fed with filtered, lubricated air.

	本体 Body	消声器 Muffler	密封圈 Seals		
MV11-FE	镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	AISI 304不锈钢 Stainless Steel AISI 304		0 - 12 bar	-10 - 70 °C
MV11-FEP	PA6	AISI 304不锈钢 Stainless Steel AISI 304		0 - 12 bar	-10 - 70 °C
MV11-PL	POM			0 - 6 bar	-10 - 70 °C
MV11-CO - MV11-CQ MV11-BE - MV11-VE MV11-P	黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N	烧结青铜 Sintered bronze		0 - 12 bar	-10 - 70 °C
MV14	镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	烧结青铜 Sintered bronze	NBR NBR	0 - 10 bar	-10 - 70 °C

6 bar时的噪音水平
Noise level at 6 bar

类型	1/8	1/4	3/8	1/2
MV11 -FE	74 dB	72 dB	88 dB	90 dB
MV11 -FEP	74 dB	72 dB	88 dB	90 dB
MV11 -CO	70 dB	67 dB	77 dB	80 dB
MV11 -CQ	70 dB	67 dB	77 dB	80 dB
MV11 -BE	75 dB	81 dB	82 dB	85 dB
MV11 -P	72 dB	73 dB	84 dB	88 dB
MV11 -PL	87 dB	84 dB	90 dB	90 dB
MV11 -VE	72 dB	73 dB	84 dB	88 dB

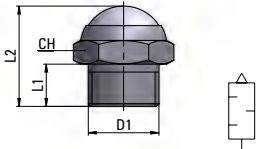
过滤阈值
Filtration threshold

类型	
MV11 -FE	100-200 µm
MV11 -FEP	100-200 µm
MV11 -CO	35 µm
MV11 -CQ	35 µm
MV11 -BE	35 µm
MV11 -P	80 µm
MV11 -PL	-
MV11 -VE	80 µm

MV 11-FE

黄铜-不锈钢消音器

Air Muffler with Stainless Steel Wire

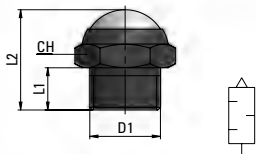


类型	D1	L1	L2	CH	g Δ
11 00 18-FE	G1/8	6	15	13	6
11 00 14-FE	G1/4	7	18	16	10
11 00 38-FE	G3/8	8	20	19	16
11 00 12-FE	G1/2	10	22	24	25

MV 11-FEP

尼龙-不锈钢消音器

Air Muffler with Stainless Steel Wire

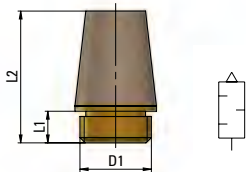


类型	D1	L1	L2	CH	g Δ
11 00 18-FEP	G1/8	6	15	13	1.5
11 00 14-FEP	G1/4	7	18	16	3
11 00 38-FEP	G3/8	8	20	19	4
11 00 12-FEP	G1/2	10	22	24	7

MV 11-CO

烧结青铜消音器

Sintered Bronze Air Muffler

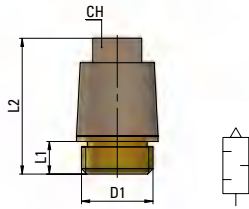


类型	D1	L1	L2	g Δ
11 00 M5-CO	M5x0.8	4.5	13	1.5
11 00 18-CO	G1/8	6	21	8
11 00 14-CO	G1/4	6	25	16
11 00 38-CO	G3/8	8	36	22
11 00 12-CO	G1/2	10	43	49

MV 11-CQ

烧结青铜消音器

Sintered Bronze Air Muffler

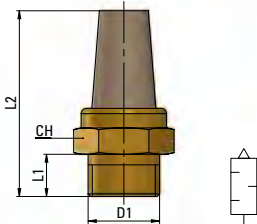


类型	D1	L1	L2	CH	g $\Delta\Delta$
11 00 18-CQ	G1/8	6	21	7	8
11 00 14-CQ	G1/4	6	25	8	14
11 00 38-CQ	G3/8	8	38	10	32
11 00 12-CQ	G1/2	10	43	14	62

MV 11-BE

烧结青铜消音器

Sintered Bronze Air Muffler

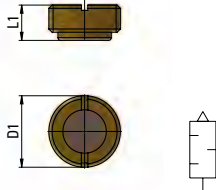


类型	D1	L1	L2	CH	g $\Delta\Delta$
11 00 M5-BE	M5x0.8	4	17	8	2.5
11 00 18-BE	G1/8	6	29	13	9
11 00 14-BE	G1/4	7	32	16	16
11 00 38-BE	G3/8	8	40	19	25
11 00 12-BE	G1/2	9	45	24	47

MV 11-P

消音垫

Flat Muffler

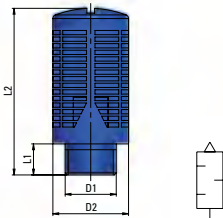


类型	D1	L1	g $\Delta\Delta$
11 00 18-P	G1/8	5	1.5
11 00 14-P	G1/4	6	3.5
11 00 38-P	G3/8	7	6
11 00 12-P	G1/2	8	11

MV 11-PL

塑料球消音器

Plastic Ball Muffler

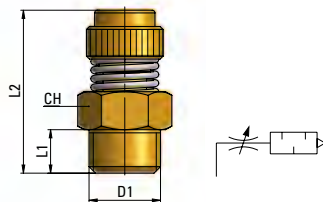


类型	D1	D2	L1	L2	g $\Delta\Delta$
11 00 18-PL	G1/8	15	6	32.5	4.5
11 00 14-PL	G1/4	19.5	8	43	9
11 00 38-PL	G3/8	24.5	11	58	14
11 00 12-PL	G1/2	24.5	11	58	18

MV 11-VE

铜制排气调节消音器

Exhaust Control with Sintered Bronze Air Muffler

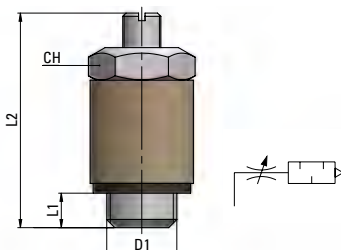


类型	D1	L1	L3 最大	CH	g $\Delta\Delta$
11 00 18-VE	G1/8	6	28	13	16
11 00 14-VE	G1/4	8	32	15	24
11 00 38-VE	G3/8	10	38	22	53
11 00 12-VE	G1/2	11	40	22	59

MV 14

带消音器的排气阀体

Exhausting Control with Muffler



类型	D1	L1	L3 最大	CH	g $\Delta\Delta$
14 00 M5	M5x0.8	4	25	8	6
14 00 18	G1/8	5	32	14	28
14 00 14	G1/4	6.5	40	17	52
14 00 38	G3/8	7	50	20	90

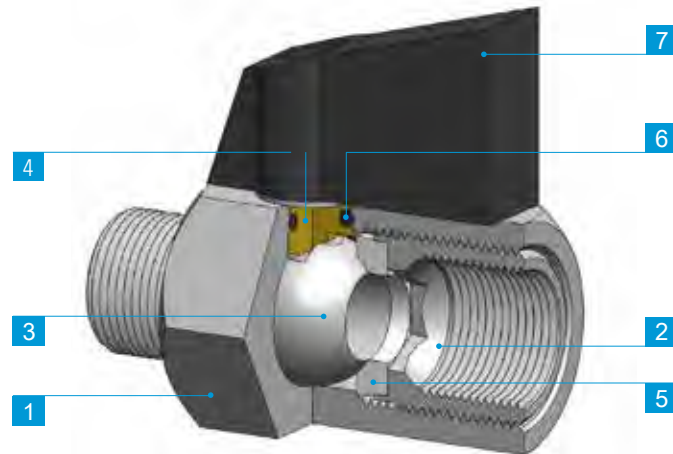
	1	2	3	4	5	6	7
MV24 - MV25	本体 Body	套筒 Cartridge	球芯 Ball	轴 Stem	球座O型环 Ball seat oring	密封圈 Seals	手柄 Handle
	黄铜UNI EN 12165 CW617N镀铬 Brass UNI EN 12165 CW617N Chrome plated	镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			P.T.F.E P.T.F.E	NBR NBR	ABS ABS
MV53 - MV54	本体 Body	球芯 Ball		轴 Stem	球座O型环 Ball seat oring	密封圈 Seals	手柄 Handle
	黄铜UNI EN 12164 CW614N UNI EN 12165 CW617N镀铬 Brass UNI EN 12164 CW614N UNI EN 12165 CW617N Chrome plated	镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated			P.T.F.E P.T.F.E	NBR NBR	PA66 PA66



-20°C - 90°C



0 - 10 bar



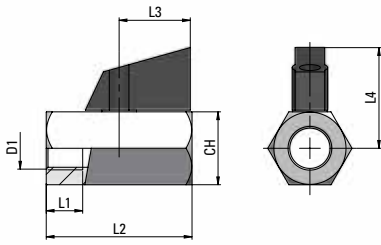
应用领域：
气动、液压和油压系统。

Application fields:
Pneumatic, hydraulic and oleodynamic circuits.

MV 24

内螺纹-内螺纹球阀

Ball Valve, female

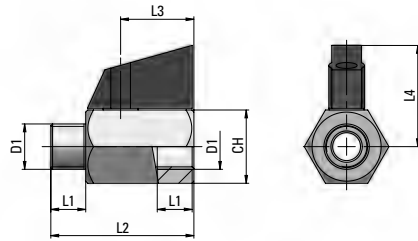


类型	D1	L1	L2	L3	L4	CH	g Δ
24 00 18	G1/8	8	39	20.5	29	20	107
24 00 14	G1/4	10	39	20.5	29	20	97
24 00 38	G3/8	10	42	20.5	29	20	86
24 00 12	G1/2	10.5	47	20.5	31	24	128

MV 25

外螺纹-内螺纹球阀

Ball Valve, male

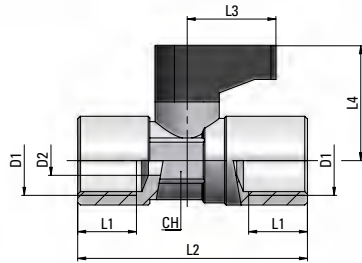


类型	D1	L1	L2	L3	L4	CH	g Δ
25 00 18	G1/8	8	39	20.5	29	20	86
25 00 14	G1/4	10	39	20.5	29	20	82
25 00 38	G3/8	10	42	20.5	29	20	79
25 00 12	G1/2	10.5	47	20.5	31	24	120

MV 53

内螺纹-内螺纹球阀

Ball Valve, female

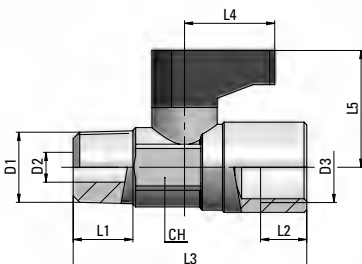


类型	D1	D2	L1	L2	L3	L4	CH	g Δ
53 00 18	G1/8	5.5	8	36.5	19	21.5	14	36.6
53 00 14	G1/4	5.5	11	43	19	21.5	14	49
53 00 38	G3/8	8	10.5	43	24	24	17	56
53 00 12	G1/2	10	12	49	34	27	21	93.2

MV 54

锥形外螺纹-内螺纹球阀

Ball Valve, taper Male-Female



类型	D1	D2	D3	L1	L2	L3	L4	L5	CH	g Δ
54 00 18	R1/8	5.5	G1/8	8	8	35.5	19	21.5	14	34.4
54 00 14	R1/4	5.5	G1/4	11	11	40.5	19	21.5	14	42.7
54 00 38	R3/8	8	G3/8	11.5	10.5	43	24	24	17	53
54 00 12	R1/2	10	G1/2	15	12	50	34	27	21	89.5

MV 51

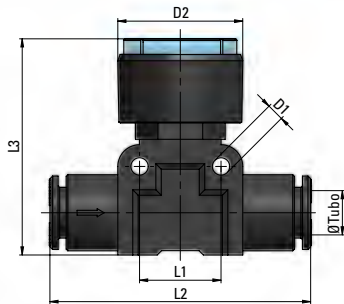
带压力表接头

Pressure Gauge Fitting

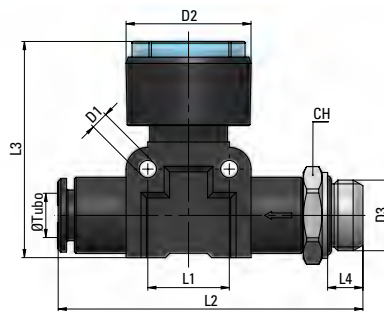
	1	2	3	4
本体 Body		螺纹 Thread	压力计 Gauge	快插接头 Push-in fittings
POM POM		镀镍黄铜UNI EN 12164 CW614N Brass UNI EN 12164 CW614N Nickel plated	ABS ABS	MB系列快插接头 MB line push-in fittings



带快速接头的版本
Push-in version



带快速接头和螺纹的版本
Push-in/threaded version



类型	管径 \varnothing_e	D1	D2	D3	L1	L2	L3	L4	CH	g Δ
51 06 06	6	3.2	23	-	15	45	38	-	-	15
51 06 18	6	3.2	23	G1/8	15	52	38	5	13	21
51 06 14	6	3.2	23	G1/4	15	54	38	6.5	16	23
51 08 08	8	3.2	23	-	15	46	39.5	-	-	16
51 08 18	8	3.2	23	G1/8	15	53	39.5	5	14	23
51 08 14	8	3.2	23	G1/4	15	55	39.5	6.5	16	25

技术规格

建议的连接管路：
PA11、PA12、PA6、PU聚氨酯(98 Shore A)

精度：
4

应用领域：
空气经过过滤和润滑处理的气动系统。

DATA SHEET

Recommended tubings:
PA11, PA12, PA6, Polyurethane PU (98 Shore A)

Accuracy:
4

Application field:
pneumatic installations fed with filtered, lubricated air.