AMISCO



S8 - S9

8 mm - 9 mm
Operator assembly
for Solenoid System

S8 - S9 Operator assembly for Solenoid Systems

S8 (Ø=8mm) and S9 (Ø=9mm) solenoid operators can be used with the related version of 22mm (EVI 7) or 30mm (EVI 30) coils.

EVI 7



EVI 30



OPERATOR ASSEMBLY

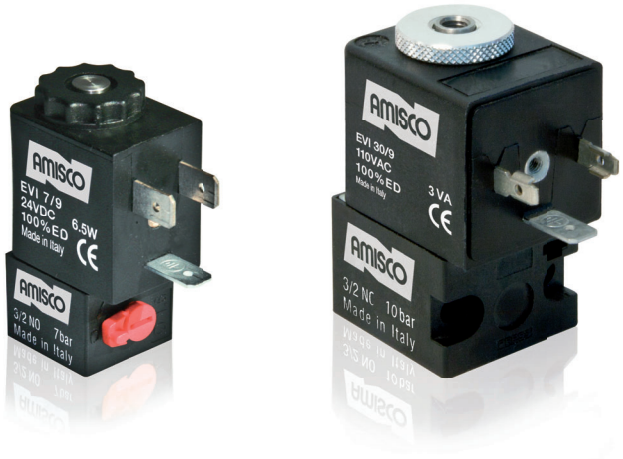
Plunger and core are made by a magnetic stainless steel, specially designed for solenoid application.
The guide tube is made by brass (stainless steel is possible upon special agreement)
The plunger is normally equipped with NBR seals. Other sealing materials like FKM and HNBR are available upon demand.
The solenoid operators is designed for more than 50 million cycles.

COMPLETE SOLENOID OPERATOR

The coil is fixed by a knurled nut on the solenoid operators, for ease of changing the coil without interrupting the pneumatic circuit.
Both S8 and S9 operators can be fixed to the valve body either by a M12x0.5 thread (thread version), or by a mounting plate with screws (flange version). Amisco does not supply the plate.
The suggested valve body interface dimensions are shown in the following pages.
Any change to the prescribed dimensions can affect the performances of the solenoid.

COMPLETE PILOT VALVE

S9 operator is available also assembld as complete 22mm or 30mm pilot valve.
Refer to 22mm & 30mm Pneumatic Pilot Valve System catalogue for information.



The specificatioans and drawings contained herein are believed to be correct and are given in good faith, however no liability is accepted therefore.
Manufacturer reserves the right to modify said specifications and drawings without notice for technical or commercial reasons.

OPERATORS CODING SPECIFICATIONS

PART NUMBER: X X Y 5 5 5 5 X T 4 Z S C

DIAMETER
08 = Ø 8mm
09 = Ø 9mm

TYPE
L = Flange (only 09)
F = Thread

DRAWING NUMBER
See following pages for reference

CURRENT
D = DC armature
A = AC armature

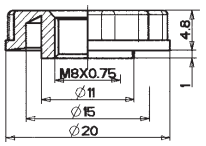
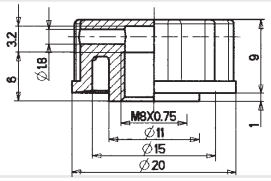
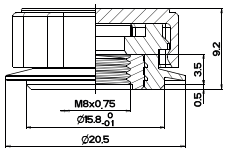
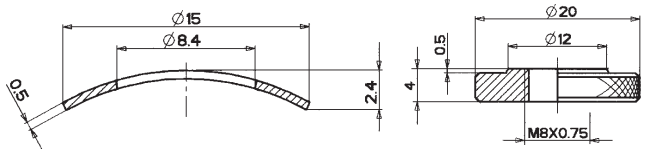
FUNCTION
2 = 2/2 way (only 09)
3 = 3/2 way

FUNCTION
C = NC
O = NO

SEALS
N = NBR (standard temperature)
V = FKM (high temperature)
H = HNBR (low temperature)

FASTENING SYSTEM
N = without fastening system.
Fastening nuts to be ordered separately as below.

FASTENING NUTS (Note: tightening torque min-max 0,4 ÷ 0,6 Nm)

Plastic knurled nut	P/N 540238	
Plastic knurled nut for protected exhaust	P/N 540270	
Plastic knurled nut for sealed version (for details please contact Amisco)	P/N 572356	
Aluminium knurled nut Weavy washer Ø 8 DIN 137 type A	P/N 540201 P/N 535019	

Standard working conditions for the solenoid system with standard NBR and FKM seals

Voltage tolerance:	± 10%
Temperature range:	–20°C ÷ 50°C
ED	100%

Standard AC coil voltages:	24 - 110 - 115 - 220 - 230
Standard DC coil voltages:	12 - 24

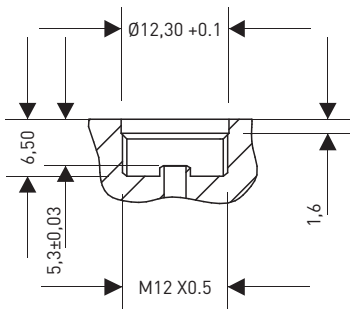
For different orifices and working pressure please contact Amisco.

S8 operators - Thread version only

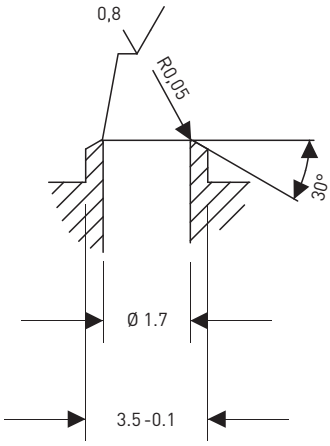
S8 Operator has Ø = 8mm, and can be used together with Amisco coils EVI 7/8 and EVI 30/8.
It is available with threaded tube. On the right side it is reported the drawing of the suggested valve seat design.



THREAD 3/2



ORIFICE 3/2



S8 Solenoid System

Coil	Part Number		DC Coils	AC Coils	
Coil EVI 7/8	0708..	Rated power	DC [W]	AC 50 Hz [VA]	AC 60 Hz [VA]
			5,5	6,5	5,5
Coil EVI 30/8	3008..	Rated power	DC [W]	AC 50 Hz [VA]	AC 60 Hz [VA]
			4	4	3,5

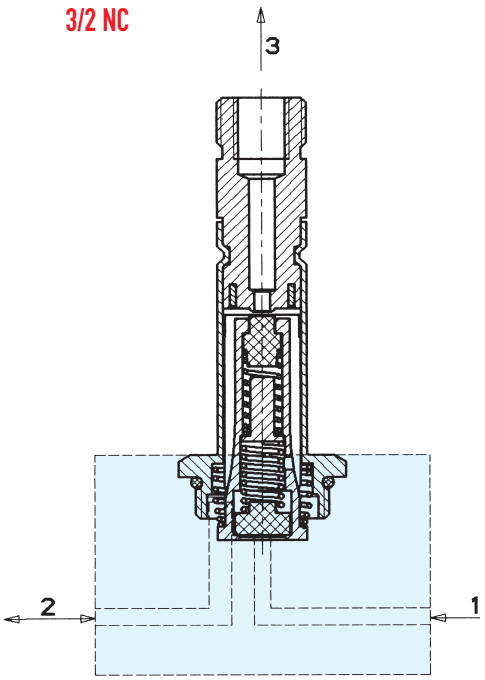
Operator	Part Number		DC Operator	AC Operator
3/2 NC	08F..	Inlet orifice Ø mm	Up to 1,3	Up to 1,3
		Exhaust orifice mm	1,4	1,4
		Working pressure bar	0-10	0-10
3/2 NO	08F..	Inlet orifice Ø mm	1,4	1,4
		Working pressure bar	0-10	0-10

Note:

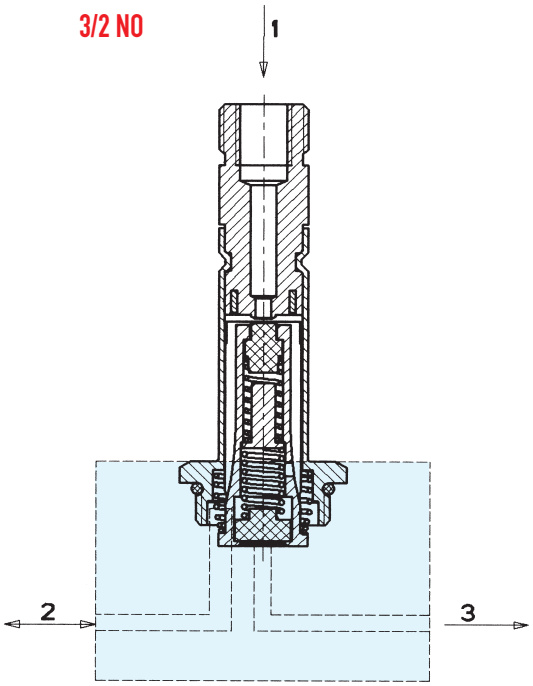
- The rated coil power levels are the minimum required to match the armature working conditions
- Temperature and performances have been tested with Amisco coils and operators
- Temperature and pressure have great influence on coil and operator performances
- For EVI 7/8 and EVI 30/8 coils data, please refer to the related catalogues

STANDARD APPLICATIONS

3/2 NC

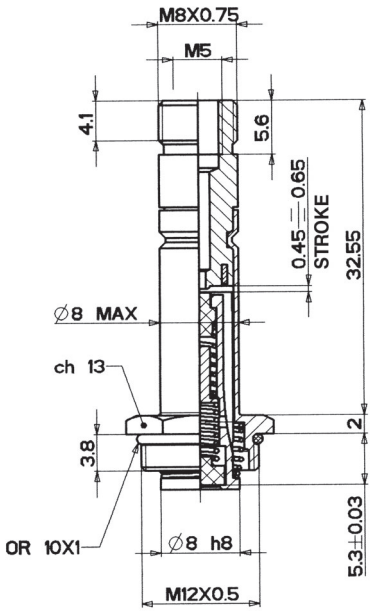


3/2 NO



MAIN DIMENSION

3/2 OPERATOR



Operator Coding Specification

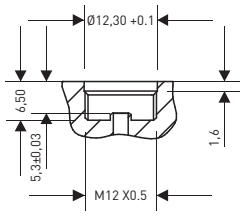
Type	Function	Inlet Orifice Ø	Seals	Operator P/N
Thread	3/2 NC	1,1 mm	NBR	08F02711A3CNN
			FKM	08F02715A3CVN
	3/2 NO	1,4 mm	NBR	08F07292A3ONN
			FKM	08F07293A3OVN

S9 Operators - Thread and Flange versions

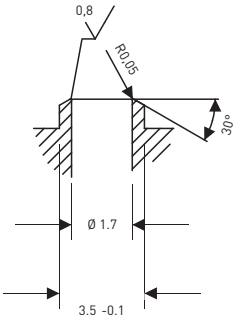
S9 Operator has Ø = 9mm, and can be used together with Amisco coils EVI 7/9 and EVI 30/9.
It is available with threaded and flanged tube.
On the right side of each version it's reported the suggested valve seat design.
Amisco can supply 30mm and 22mm pilot valves with these operators.



THREAD 3/2

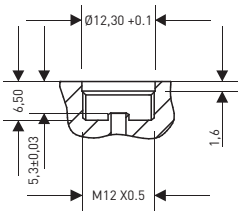


ORIFICE 3/2

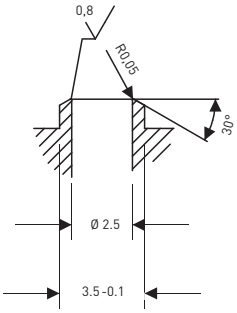




THREAD 2/2

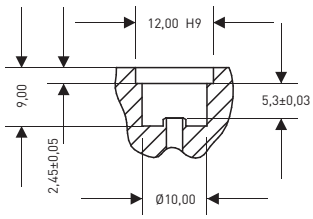


ORIFICE 2/2



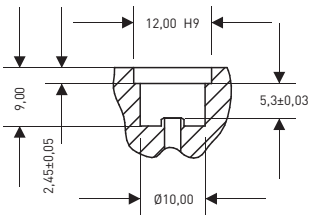


FLANGE 3/2





FLANGE 2/2



S9 Solenoid System

Coil	Part Number		DC Coils			AC Coils			
Coil EVI 7/9	0709..	Rated power	DC [W]			AC 50 Hz [VA]		AC 60 Hz [VA]	
			3	4,2	6,5	5	8,5	4,2	7
Coil EVI 30/9	3009..	Rated power	DC [W]			AC 50 Hz [VA]		AC 60 Hz [VA]	
			2		4,5	3	5	2,5	4,2

Operator	Part Number		DC Operator			AC Operator			
3/2 NC Flange 3/2 NC Thread	09L.. 09F..	Inlet orifice Ø mm	1,2	1,4	1,5	1,2	1,5	1,2	1,5
		Exhaust orifice mm	1,45	1,45	1,45	1,45	1,45	1,45	1,45
		Working pressure bar	0-10	0-10	0-10	0-10	0-10	0-10	0-10
2/2 NC Flange 2/2 NC Thread	09L.. 09F..	Inlet orifice Ø mm	1,2	1,4	1,5	1,2	1,5	1,2	1,5
		Working pressure bar	0-10	0-10	0-10	0-10	0-10	0-10	0-10
3/2 NO Flange 3/2 NO Thread	09L.. 09F..	Inlet orifice Ø mm	1,45	1,45	1,45	1,45	1,45	1,45	1,45
		Working pressure bar	0-7	0-7	0-10	0-7	0-10	0-7	0-10
3/2 NO Thread (bottom inlet)	09F..	Inlet orifice Ø mm	1,2			1,2		1,2	
		Working pressure bar	0-10			0-10		0-10	

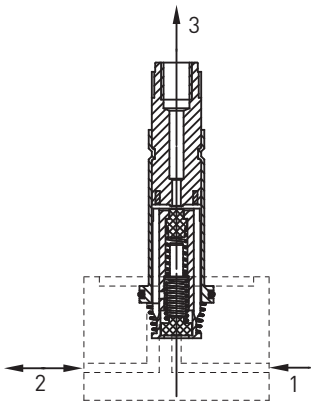
Note:

- The rated coil power levels are the minimum required to match the operator working conditions
- Temperature and performances have been tested with Amisco coils and armatures
- Temperature and pressure have great influence on coil and operator performances
- For EVI 7/9 and EVI 30/9 coils data, please refer to the related catalogues

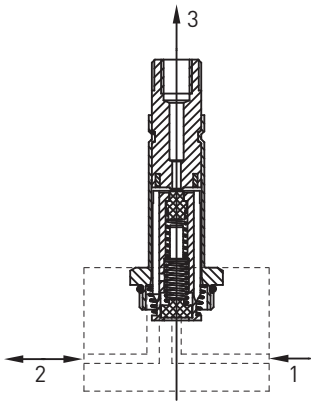
STANDARD APPLICATIONS

3/2 NC

FLANGE VERSION

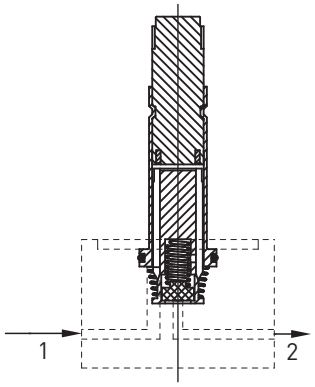


THREAD VERSION

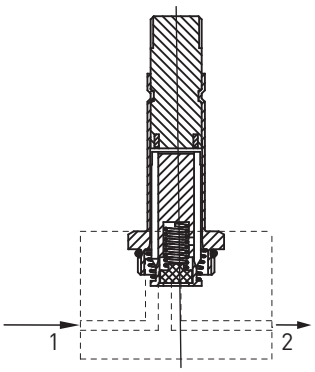


2/2 NC

FLANGE VERSION

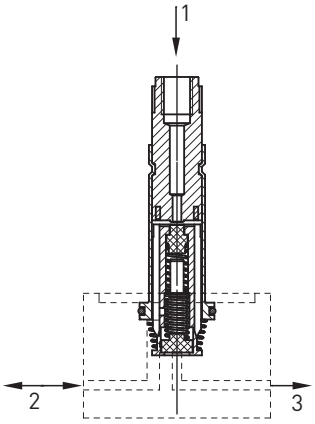


THREAD VERSION

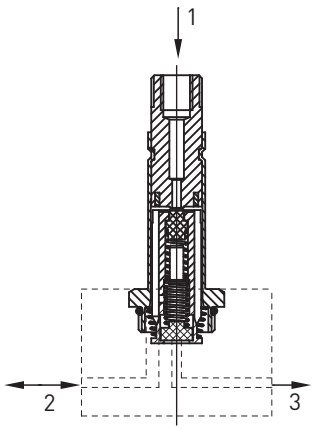


3/2 NO (Top inlet)

FLANGE VERSION



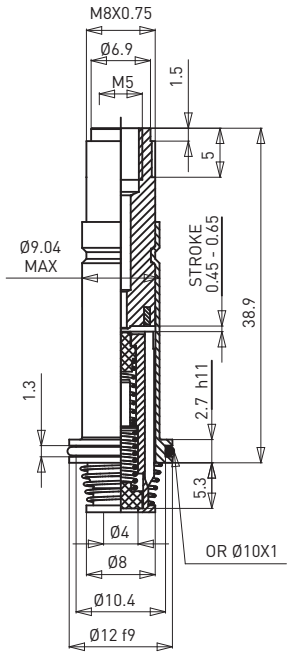
THREAD VERSION



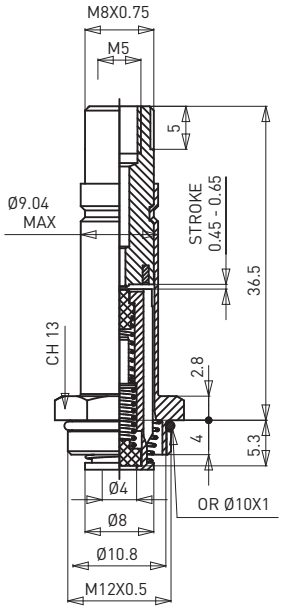
MAIN DIMENSION

3/2 NC & 3/2 NO (Top Inlet) OPERATOR

FLANGE VERSION

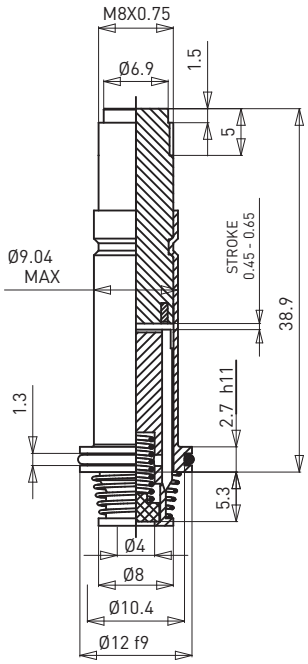


THREAD VERSION

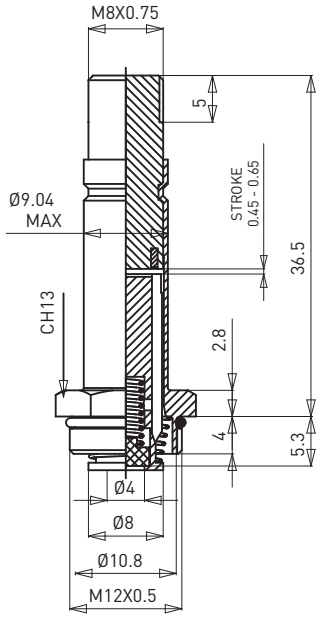


2/2 NC OPERATOR

FLANGE VERSION



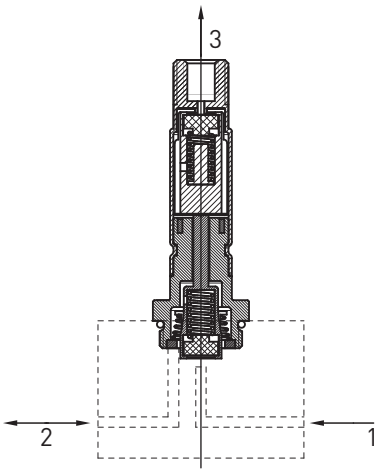
THREAD VERSION



SPECIAL APPLICATIONS

3/2 NO (Bottom inlet) OPERATOR

Only for D.C. version

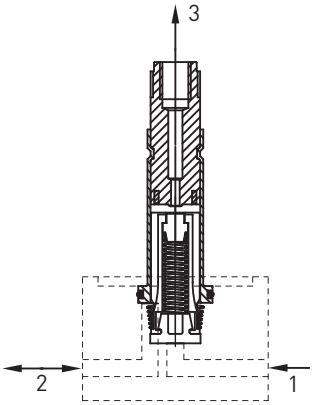


S9 Large Orifice Solenoid Operator

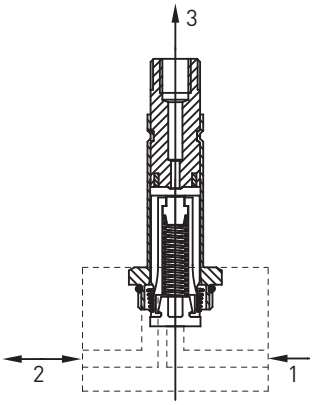
Special S9 operator with bigger orifice is available for applications with high flow rate (inlet orifice max Ø=6mm).
Valve seat has to be designed specifically. Ask to Amisco for more information.

3/2 NC LARGE ORIFICE OPERATOR

FLANGE VERSION

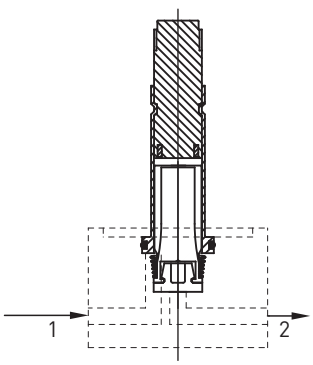


THREAD VERSION

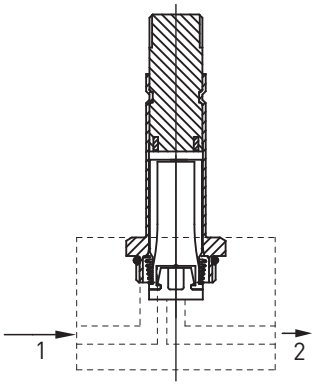


2/2 NC LARGE ORIFICE OPERATOR

FLANGE VERSION



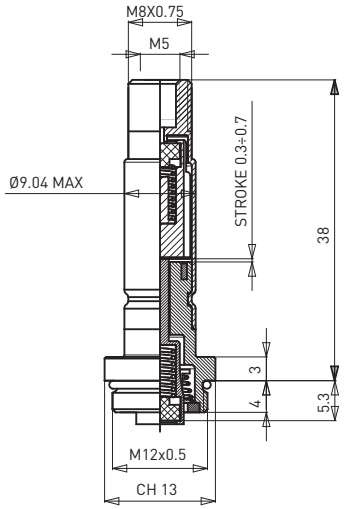
THREAD VERSION



MAIN DIMENSION

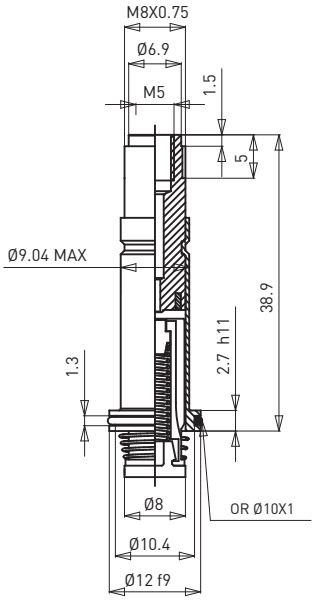
3/2 NO (Bottom inlet) OPERATOR

Only for D.C. version

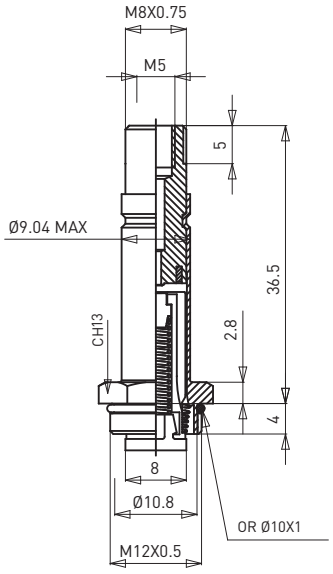


3/2 NC LARGE ORIFICE OPERATOR

FLANGE VERSION

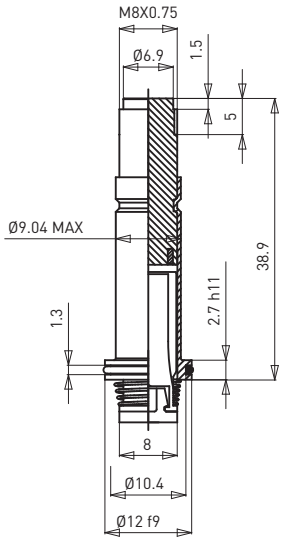


THREAD VERSION

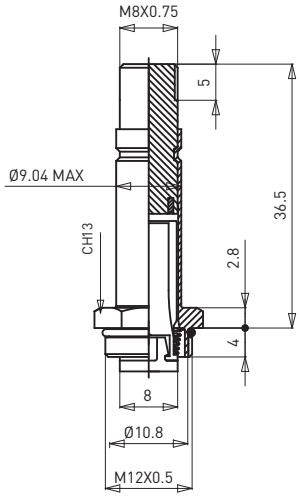


2/2 NC LARGE ORIFICE OPERATOR

FLANGE VERSION



THREAD VERSION



OPERATOR CODING SPECIFICATIONS

Type	Function	Inlet Orifice Ø	Seals	Operator P/N
Flange	3/2 NC	1,2 mm	NBR	09L02401A3CNN
			FKM	09L02401A3CVN
		1,4 mm	NBR	09L07170A3CNN
			FKM	09L07171A3CVN
		1,5 mm	NBR	09L02402A3CNN
			FKM	09L02402A3CVN
	2/2 NC	1,2 mm	NBR	09L02600A2CNN
			FKM	09L02600A2CVN
		1,4 mm	NBR	09L02600A2CNN
			FKM	09L02600A2CVN
		1,5 mm	NBR	09L02600A2CNN
			FKM	09L02600A2CVN
	3/2 NO (Top Inlet)	1,45 mm	NBR	09L02403A3ONN
			FKM	09L02403A3OVN
Thread	3/2 NC	1,2 mm	NBR	09F07350A3CNN
			FKM	09F07350A3CVN
		1,4 mm	NBR	09F07210A3CNN
			FKM	09F07212A3CVN
		1,5 mm	NBR	09F07360A3CNN
			FKM	09F07360A3CVN
	2/2 NC	1,2 mm	NBR	09F07370A2CNN
			FKM	09F07370A2CVN
		1,4 mm	NBR	09F07370A2CNN
			FKM	09F07370A2CVN
		1,5 mm	NBR	09F07370A2CNN
			FKM	09F07370A2CVN
	3/2 NO (Top Inlet)	1,45 mm	NBR	09F07401A3ONN
			FKM	09F07403A3OVN
	3/2 NO (Bottom Inlet)	1,2 mm	NBR	09F11100A3ONN
			FKM	09F11101A3OVN



KIT FOR SEALED VERSION

We sell, separately from the coil, a kit to complete the sealing of the 22mm coil, to be equipped on our 22mm pilot valve.
The kit is composed by two O-Rings, a special nut designed for this application, and the assembly instruction.
Complete valve using coil with terminal has been tested positively for IP65.
Complete valve using coil with flying leads has been tested positively for IP67.



www.amisco.it

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