



PNEUMAX



PNEUMAX FLUID CONTROL

CATALOGUE



Pneumax Fluid Control Catalogue

Pneumax offers a wide range of brass and stainless steel valves and solenoid valves, suitable for use with liquid and gaseous fluids.



Pneumax Group

Smart Technologies and Human Competence

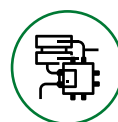
Founded in 1976, **Pneumax S.p.A.** is today one of the leading, international manufacturers of components and systems for automation. It is at the fore front of a group comprised of **26 companies**, with **over 850 employees worldwide**. Ongoing investment in research and development has allowed Pneumax to continually expand its range of standard products and customised solutions, adding to the well-established pneumatic technology, a range of electric drive actuators and fluid control components.

The desire to provide the service and specific application skills has led to the creation of 3 business units, dedicated to **Industrial Automation**, **Process Automation** and **Automotive sector**.

With the assistance of the specific Business unit Development Manager, Pneumax are able to design solutions than can add value to individual customer applications.



**Pneumatic
technology**



**Electric
actuation**



**Fluid
control**

Industrial automation



Process automation



Automotive



Components and systems for fluid control

The Pneumax range of components designed for the control and management of liquid and gaseous fluids have been manufactured using selected materials (valve bodies: brass, stainless steel, seals: FPM, PTFE & EPDM) in order to guarantee maximum reliability in harsh environments.

- ATEX versions available
- Solutions for low temperatures ($> -40\text{ }^{\circ}\text{C}$) or high temperatures ($< +140\text{ }^{\circ}\text{C}$)
- Wide range of components suitable for use with oxygen
-  certified solenoid coils

Pneumatic actuated
angle seat valve

Pad valves

Servo-assisted piston and
diaphragm solenoid valves



Direct acting poppet type
solenoid valves

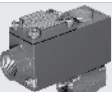
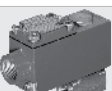
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Pneumax Fluid Control

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Series F300

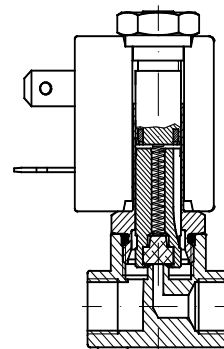
General

F300 series includes a vast range of solenoid valves in brass and stainless steel designed to control air, water, steam and all fluids that are compatible with the materials used for bodies and seals. The solenoid valves are 2 or 3-way, normally closed, normally open, general service, direct acting or servo-assisted, with connections available in NPT & BSP threads from G1/8" up to G3", with a working pressure range from vacuum to 100 bar. Solenoid valves are available with coils that conform to CESI 03 ATEX 344 certification for explosive environments. Our technical office ensures the highest standard of skill and understanding for the widest variety of applications, ensuring that the best possible solutions are found.

Version manufactured

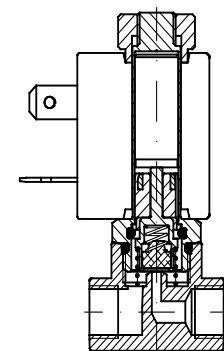
Solenoid valves direct action 2-ways: 2-way solenoid valves have an input connection and an output connection machined in the valve body, the orifice being intercepted by the poppet moved by the core tube.

They can be **normally closed (2/2 N.C.)**, in this case the fluid is intercepted by the poppet at rest, with electricity applied, the input orifice is opened and the media reaches the intended use.



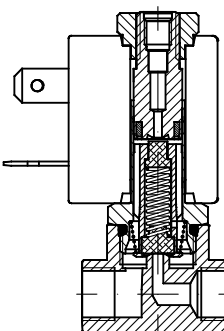
They can be **normally open (2/2 N.O.)**, in this case at rest the orifice remains open without electricity applied, the media reaches the intended use. When electricity is applied the input orifice closes.

Performance in both cases depends solely on the magnetic field produced by the solenoid coil. The solenoid valves can also work at zero pressure.



Solenoid valves direct action 3-way: 3-way solenoid valves have an input and an output connection in the valve body and an exhaust connection fitted in the stem of the core tube. The input and exhaust orifices are intercepted directly by the poppet fitted within the core tube.

They can be **normally closed (3/2 N.C.)** and in this case, at rest, the incoming fluid is intercepted by the poppet and output port in connected to the exhaust port. Applying electrical power, the input orifice is opened and feed is supplied to the output. Exhaust is closed.

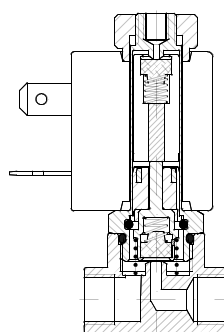


They can be **normally open (3/2 N.O.)** and in this case, at rest, the input orifice is open without electricity applied, the media reaches the intended use. Exhaust is closed.

Applying power, the input orifice closes and the output discharges through the exhaust port.

Performance in both cases depends solely on the magnetic field produced by the solenoid coil.

The solenoid valves can also work at zero pressure.





Servo-assisted solenoid valves

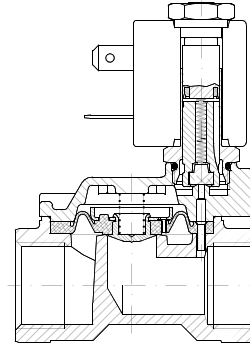
Large-sized passage orifices increase the value of the static pressure which has to be overcome by the magnetic field produced by the coil. These solenoid valves are used to control high-pressure values with large diameter bores. In these models, the fluid helps in the opening or closing of the main poppet.

They can be **normally closed (2/2 N.C.)** and have an input and a utilisation connection machined into the valve body and at rest the fluid is intercepted by the main poppet, which can be either diaphragm or a piston. In this condition, the fluid acts on both faces of the main plunger through a pinhole contributing to closure of the poppet.

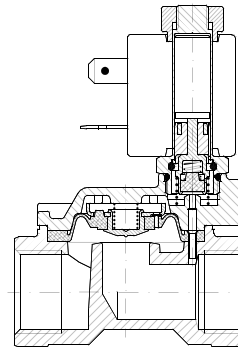
Applying electrical power, the secondary, or pilot, orifice opens leading to the exhaust of the fluid, which acts to close the main poppet.

Greater force is thus applied when opening, the poppet is raised from the orifice and allows the media to flows to the output.

In these versions, performance does not depend solely on the magnetic field produced by the coil; a minimum input pressure is also needed so as to move the diaphragm or the piston overcoming its rigidity and to keep it raised from the main orifice (Δp minimum performance).



They can be **normally open (2/2 N.O.)** and have an input and output connection machined into the valve body, and at rest the core tube communicates with output, a minimum-pressure difference between the feed and the output causes the main poppet to rise, leading to it opening. Applying electrical power, the secondary orifice closes and equilibrium between the pressure on the two faces of the main poppet is reinstated, and so it returns to its closed position on the main orifice. In this version a minimum working pressure is also needed.



Sealing materials

Designation	Trade names	General characteristics	Field of use
FPM (Fluorocarbon)	VITON TECNOFLON FLUOREL	A synthetic hexa-fluoropropylene-based elastomer. Excellent resistance to high temperatures. Excellent resistance to ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, hydrocarbons and many chemical products. Not specific for superheated steam.	For general use up to 140 °C



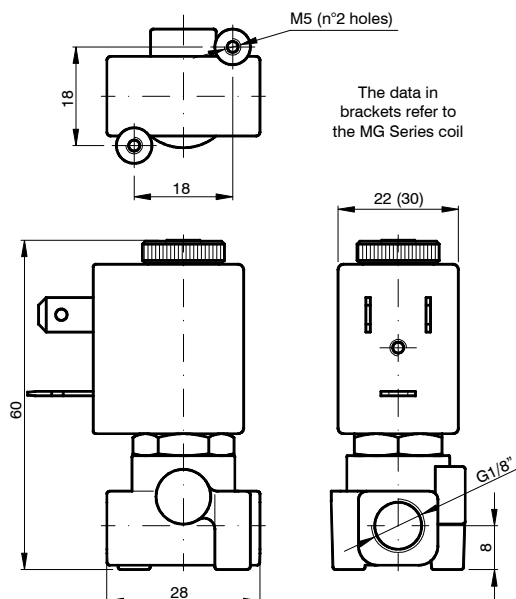
Resistance to fluids

The table below serves to general information relating to the compatibility between FPM (fluorocarbon) and a number of neutral fluids. Where there are corrosive fluids, in order to establish compatibility, it is important to be aware of all the data relating to use: temperature, concentration and composition of the fluid.

Fluid	
Ethyl acetate	Not compatible
Acetylene	Compatible
Vinegar	Not compatible
Acetone	Not compatible
Calcareous water	Compatible
Hot water <75 °C	Compatible
Hot water and steam <140 °C	Not compatible
Water with glycol	Compatible
Deionised water	Compatible
Demineralised water	Compatible
Hydrogen peroxide	Compatible
Soapy water	Compatible
Carbon dioxide (liquid)	Not compatible
Dry carbon dioxide (gas)	Compatible
Argon	Compatible
Nitrogen	Compatible
Petrol/Gasoline	Compatible
Benzol	Not compatible
Butane	Compatible
Chloroform	Not compatible
Ethyl Chloride	Compatible
Methyl chloride	Not compatible
Helium	Compatible
Heptane	Compatible
Hexane	Compatible
Ethane	Compatible
Ethanol	Not compatible
Formaldehyde	Compatible
Freon	Not compatible
Natural gas	Compatible
Diesel oil	Compatible
Glycerine	Compatible
Ethylene glycol	Compatible
Hydrogen	Compatible
Isobutane	Compatible
Isopentane	Compatible
Methane	Compatible
Methanol	Not compatible
Calcium monoxide	Compatible
Neon	Compatible
Nitrobenzene	Not compatible
Mineral oil	Compatible
Oxygen	Compatible
Pentane-n	Compatible
Propanol-n	Compatible
Propane-n	Compatible
Carbon sulphide	Not compatible
Toluene	Compatible
Dry trichloroethylene	Compatible
Xylene	Compatible



F3105 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 1/8"



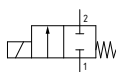
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3105⊕V12⊕	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +140
F3105⊕V15⊕		1,5	0,06		16	16						
F3105⊕V20⊕		2	0,09		12	10						
F3105⊕V25⊕		2,5	0,14		8	5,5						
F3105⊕V31⊕		3,1	0,19		5	2						
F3105⊕V40⊕		4	0,35		4	1,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

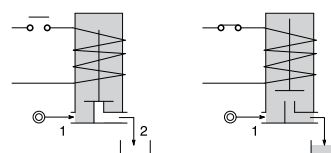
Example: F3105⊕V25⊕ => F3105AV25MI58:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, orifice 2,5 mm, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

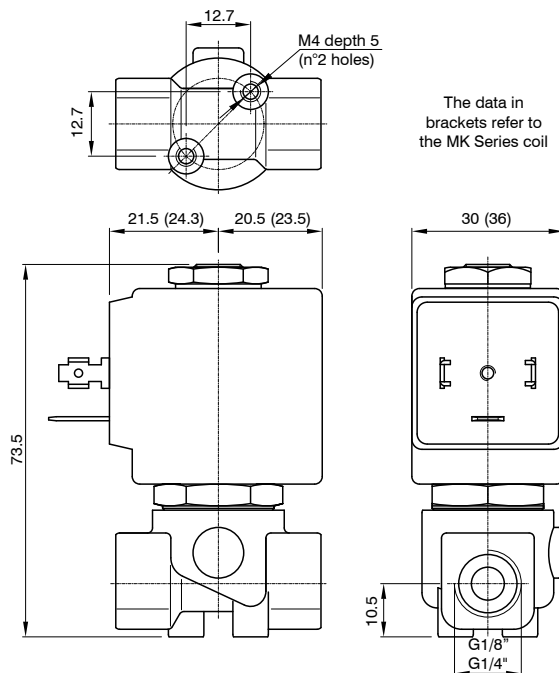
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Manual override - Chemical nickel plating surface treatment - Stainless steel guide tube - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - certified solenoid coils - Versions for use with fluid temperature at -40 °C	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Indifferent
	Weight (g) with solenoid coil MI series	130
	Weight (g) with solenoid coil MG series	180

F3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 1/8" and 1/4"


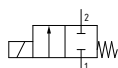
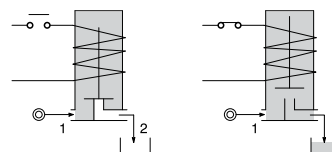
The data in brackets refer to the MK Series coil

CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A	B			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3106⊕V10⊕	1/8"	1/4"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106⊕V12⊕			1,2	0,05		60	60						
F3106⊕V15⊕			1,5	0,07		30	26						
F3106⊕V20⊕			2	0,1		22	20						
F3106⊕V25⊕			2,5	0,15		16	14						
F3106⊕V30⊕			3	0,25		15	10						
F3106⊕V35⊕			3,5	0,32		10	8						
F3106⊕V40⊕			4	0,36		8	5						
F3106⊕V45⊕			4,5	0,41		6,5	3,5						
F3106⊕V52⊕			/	5,2		0,47	4						
F3106⊕V64⊕	/	6,4	0,64	3	1								
F3106⊕V10⊕	1/8"	1/4"	1	0,04	0	100	100	40	30	27	MK	36	
F3106⊕V12⊕			1,2	0,05		100	100						
F3106⊕V15⊕			1,5	0,07		80	80						
F3106⊕V20⊕			2	0,1		50	40						
F3106⊕V25⊕			2,5	0,15		35	33						
F3106⊕V30⊕			3	0,25		25	24						
F3106⊕V35⊕			3,5	0,32		20	19						
F3106⊕V40⊕			4	0,36		16	15						
F3106⊕V45⊕			4,5	0,41		14	13						
F3106⊕V52⊕			/	5,2		0,47	10						
F3106⊕V64⊕	/	6,4	0,64	5	4,5								

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.

Example: F3106CV52⊕ => F3106BV52MG58:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 5,2 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MG58, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- Brass body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

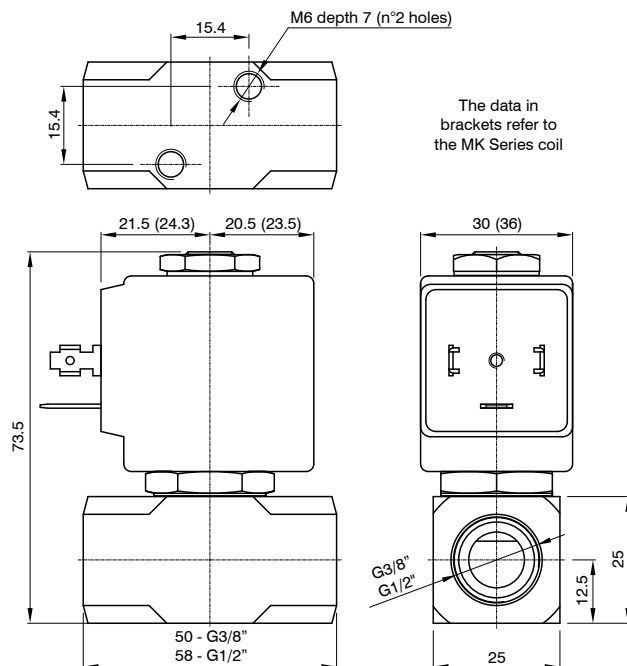
- Manual override
- Chemical nickel plating surface treatment
- Stainless steel seat insert (up to Ø4,5)
- For use with oxygen
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- PTFE - EPDM seals

Technical characteristics

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	300
Weight (g) with solenoid coil MK series	380



F3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 3/8" and 1/2"



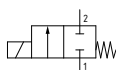
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3106⊕V10⊕	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106⊕V12⊕			1,2	0,05		60	60						
F3106⊕V15⊕			1,5	0,07		30	26						
F3106⊕V20⊕			2	0,1		22	20						
F3106⊕V25⊕			2,5	0,15		16	14						
F3106⊕V30⊕			3	0,25		15	10						
F3106⊕V35⊕			3,5	0,32		10	8						
F3106⊕V40⊕			4	0,36		8	5						
F3106⊕V45⊕			4,5	0,41		6,5	3,5						
F3106⊕V52⊕			5,2	0,47		4	1,8						
F3106⊕V64⊕			6,4	0,64		3	1						
F3106⊕V10⊕	3/8"	1/2"	1	0,04	100	100	40	30	27	MK	36		
F3106⊕V12⊕			1,2	0,05	100	100							
F3106⊕V15⊕			1,5	0,07	80	80							
F3106⊕V20⊕			2	0,1	50	40							
F3106⊕V25⊕			2,5	0,15	35	33							
F3106⊕V30⊕			3	0,25	25	24							
F3106⊕V35⊕			3,5	0,32	20	19							
F3106⊕V40⊕			4	0,36	16	15							
F3106⊕V45⊕			4,5	0,41	14	13							
F3106⊕V52⊕			5,2	0,47	10	9							
F3106⊕V64⊕			6,4	0,64	5	4,5							

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.

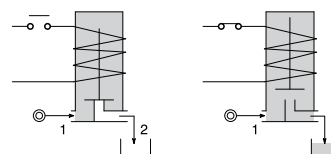
Example: F3106⊕V52⊕ => F3106DV52MK5:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/2", FPM seals, 5,2 mm orifice, solenoid coil 24 VDC (MK5, size 36 for more information, please refer to the section "Solenoid coils - Series F300").

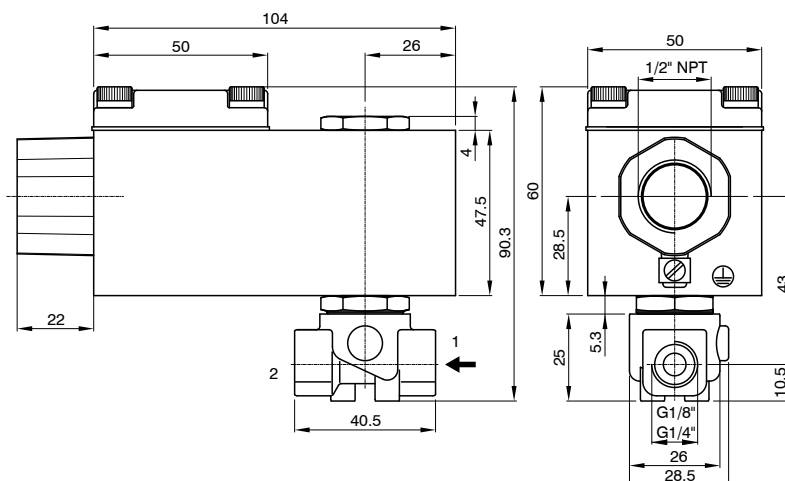
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Chemical nickel plating surface treatment - For use with oxygen - Stainless steel seat insert (up to Ø4,5) - certified solenoid coils - Versions for use with fluid temperature at -40 °C - PTFE - EPDM seals	Maximum admitted pressure (bar)	100
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Indifferent
	Weight (g) with solenoid coil MG series	360
	Weight (g) with solenoid coil MK series	440

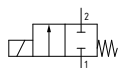
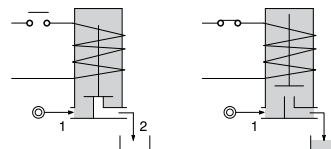
FX3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/8" and 1/4"


CODE “V”= FPM seals	G connection (ISO 228) Θ= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption		Θ= Solenoid coil	Temperature range (°C)
	A	B			Min	Max		AC Holding (VA)	DC (W)		
						AC	DC				
FX3106CV10B	1/8"	1/4"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3106CV12B			1,2	0,05		60	60				
FX3106CV15B			1,5	0,07		30	26				
FX3106CV20B			2	0,1		22	20				
FX3106CV25B			2,5	0,15		16	14				
FX3106CV30B			3	0,25		15	10				
FX3106CV35B			3,5	0,32		10	8				
FX3106CV40B	/		4	0,36		8	5				
FX3106CV45B	/		4,5	0,41		6,5	3,5				
FX3106CV52B	/		5,2	0,47		4	1,8				
FX3106CV64B	/		6,4	0,64		3	1				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

Example: FX3106CV35B => FX3106BV35A60:

2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/4", FPM seals, 3,5 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

Construction characteristics

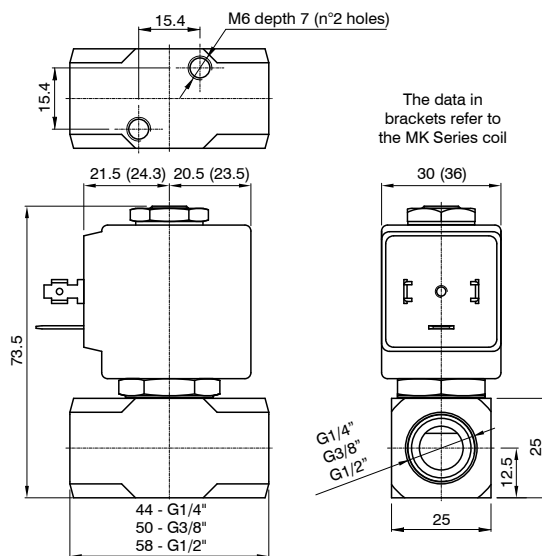
- Brass body
- Red light alloy housing
- 1/2" NPT electrical connection (M20x1,5 on request)
- FPM sealing assemblies

OPTIONS (on request):

- Manual override
- Chemical nickel plating surface treatment
- Stainless steel seat insert (up to Ø4,5)
- Stainless steel solenoid coil housing

Technical characteristics

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	Vertical with solenoid coil upwards
Weight (g)	600

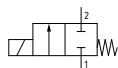
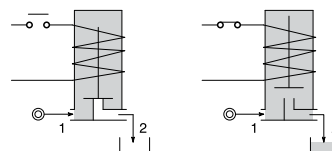
F3110 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
							AC	DC						
F3110CV10B	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3110CV12B				1,2	0,05		60	60						
F3110CV15B				1,5	0,07		30	26						
F3110CV20B				2	0,1		22	20						
F3110CV25B				2,5	0,15		16	14						
F3110CV30B				3	0,25		15	10						
F3110CV35B				3,5	0,32		10	8						
F3110CV40B				4	0,36		8	5						
F3110CV45B				4,5	0,41		6,5	3,5						
F3110CV52B				5,2	0,47		4	1,8						
F3110CV64B				6,4	0,64		3	1						
F3110CV10B	1/4"	3/8"	1/2"	1	0,04		100	100	40	30	27	MK	36	
F3110CV12B				1,2	0,05		100	100						
F3110CV15B				1,5	0,07		80	80						
F3110CV20B				2	0,1		50	40						
F3110CV25B				2,5	0,15		35	33						
F3110CV30B				3	0,25		25	24						
F3110CV35B				3,5	0,32		20	19						
F3110CV40B				4	0,36		16	15						
F3110CV45B				4,5	0,41		14	13						
F3110CV52B				5,2	0,47		10	9						
F3110CV64B				6,4	0,64		5	4,5						

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.

Example: F3110CV25B => F3110BV25MG5:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

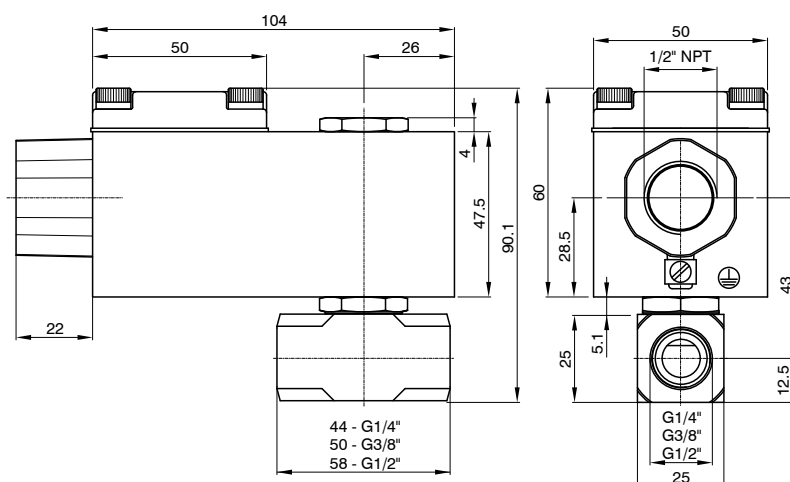
- Silver advance ring
- For use with oxygen
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- PTFE - EPDM seals

Technical characteristics

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	360
Weight (g) with solenoid coil MK series	440



**FX3110 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4" ... 1/2"**



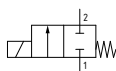
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption		⊕= Solenoid coil	Temperature range (°C)
	B	C	D			Min	Max		AC Holding (VA)	DC (W)		
							AC	DC				
FX3110⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3110⊕V12⊕				1,2	0,05		60	60				
FX3110⊕V15⊕				1,5	0,07		30	26				
FX3110⊕V20⊕				2	0,1		22	20				
FX3110⊕V25⊕				2,5	0,15		16	14				
FX3110⊕V30⊕				3	0,25		15	10				
FX3110⊕V35⊕				3,5	0,32		10	8				
FX3110⊕V40⊕				4	0,36		8	5				
FX3110⊕V45⊕				4,5	0,41		6,5	3,5				
FX3110⊕V52⊕				5,2	0,47		4	1,8				
FX3110⊕V64⊕				6,4	0,64		3,5	1				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

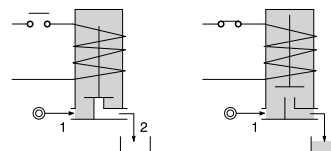
Example: FX3110⊕V52⊕ => FX3110DV52A60:

2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/2", FPM seals, 5,2 mm orifice, solenoid coil 12 VDC (A60).

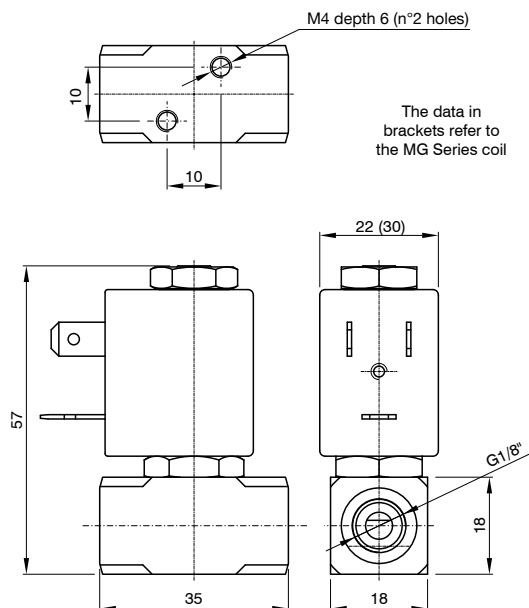
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- AISI 303 stainless steel body	Maximum admitted pressure (bar)	100
- AISI 303 stainless steel guide tube	Maximum fluid viscosity (mm²/s)	25cSt
- AISI 302 stainless steel springs	Ambient temperature (°C)	-40 ... +60
- Red light alloy or stainless steel housing	Mounting position	Vertical with solenoid coil upwards
- 1/2" NPT electrical connection (M20x1,5 on request)	Weight (g)	660
- FPM sealing assemblies		

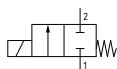
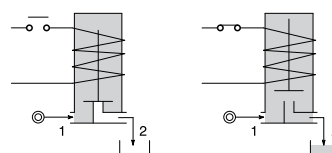
F3111 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8"


CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3111⊕V12⊕	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +140
F3111⊕V15⊕		1,5	0,06		16	16						
F3111⊕V20⊕		2	0,09		12	10						
F3111⊕V25⊕		2,5	0,14		8	5,5						
F3111⊕V31⊕		3,1	0,19		5	2						
F3111⊕V20⊕	1/8"	2	0,09	0	25	15	15	11	5	MG	30	
F3111⊕V25⊕		2,5	0,14		16	8						
F3111⊕V31⊕		3,1	0,19		8	4						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3111⊕V25⊕ => F3111AV25MI58:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2,5 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- Silver advance ring
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

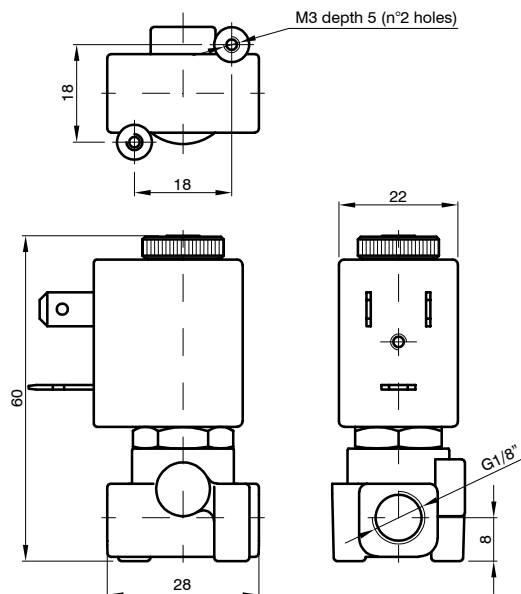
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g) with solenoid coil MI series	150
Weight (g) with solenoid coil MG series	200



F3115 - 2-way solenoid valve brass body, with G connection (ISO 228) bistable impulse drive - 1/8"



The bistable function is achieved by the use of a polarized permanent magnet energizing the coil with a DC current for at least 15ms in the reverse direction of the preceding impulse.

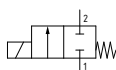


CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption	⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max	DC (W)	Series	Size	
F3115⊕V12⊕	1/8"	1,2	0,04	0	12	2	MI/DC	22	-10 ... +120
F3115⊕V15⊕		1,5	0,06		8	2			
F3115⊕V20⊕					20	5			
F3115⊕V25⊕		2	0,09		3	2			
					12	5			
		1	2						
F3115⊕V31⊕		2,5	0,14		5	5			
					8	6,5			
					2	5			
3,5					6,5				

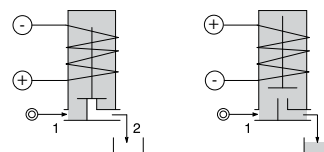
Example: F3115⊕V25⊕ => F3115AV25MI5:

2-way solenoid valve, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MI5, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

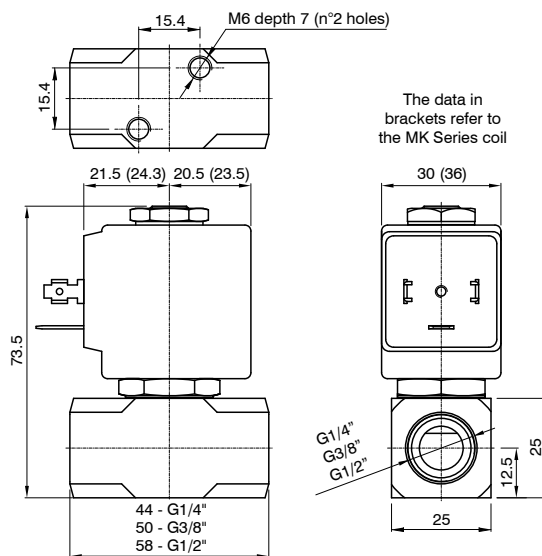
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Chemical nickel plating surface treatment - Stainless steel guide tube - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Indifferent
	Weight (g)	140

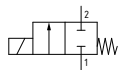
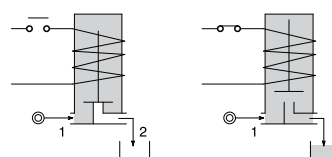
F3170 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
							AC	DC						
F3170⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3170⊕V12⊕				1,2	0,05		60	60						
F3170⊕V15⊕				1,5	0,07		30	26						
F3170⊕V20⊕				2	0,1		22	20						
F3170⊕V25⊕				2,5	0,15		16	14						
F3170⊕V30⊕				3	0,25		15	10						
F3170⊕V35⊕				3,5	0,32		10	8						
F3170⊕V40⊕				4	0,36		8	5						
F3170⊕V45⊕				4,5	0,41		6,5	3,5						
F3170⊕V10⊕	1/4"	3/8"	1/2"	1	0,04		100	100	40	30	27	MK	36	
F3170⊕V12⊕				1,2	0,05		100	100						
F3170⊕V15⊕				1,5	0,07		80	80						
F3170⊕V20⊕				2	0,1		50	40						
F3170⊕V25⊕				2,5	0,15		35	33						
F3170⊕V30⊕				3	0,25		25	24						
F3170⊕V35⊕				3,5	0,32		20	19						
F3170⊕V40⊕				4	0,36		16	15						
F3170⊕V45⊕				4,5	0,41		14	13						

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.

Example: F3170CV25B => F3170BV25MG5:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 316 stainless steel body
- AISI 316 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 316 stainless steel springs
- Silver advance ring
- FPM sealing assemblies

OPTIONS (on request):

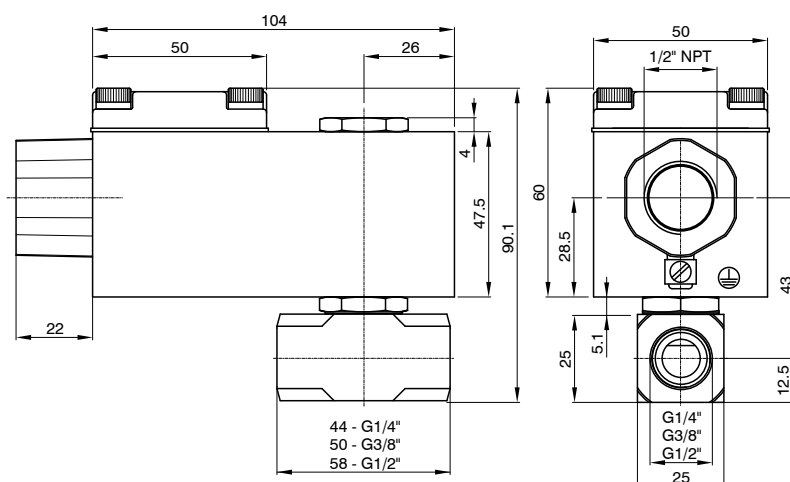
- For use with oxygen
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- PTFE - EPDM seals

Technical characteristics

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	360
Weight (g) with solenoid coil MK series	440



**FX3170 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4" ... 1/2"**



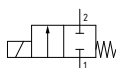
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕ = Solenoid coil	Temperature range (°C)
	B	C	D			Min	Max	AC Holding (VA)	DC (W)		
FX3170⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)
FX3170⊕V12⊕				1,2	0,05		60	60			
FX3170⊕V15⊕				1,5	0,07		30	26			
FX3170⊕V20⊕				2	0,1		22	20			
FX3170⊕V25⊕				2,5	0,15		16	14			
FX3170⊕V30⊕				3	0,25		15	10			
FX3170⊕V35⊕				3,5	0,32		10	8			
FX3170⊕V40⊕				4	0,36		8	5			
FX3170⊕V45⊕				4,5	0,41		6,5	3,5			

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

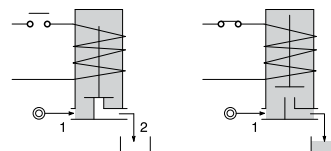
Example: FX3170⊕V45⊕ => FX3170DV45A60:

2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/2", FPM seals, 4,5 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol



Diagram

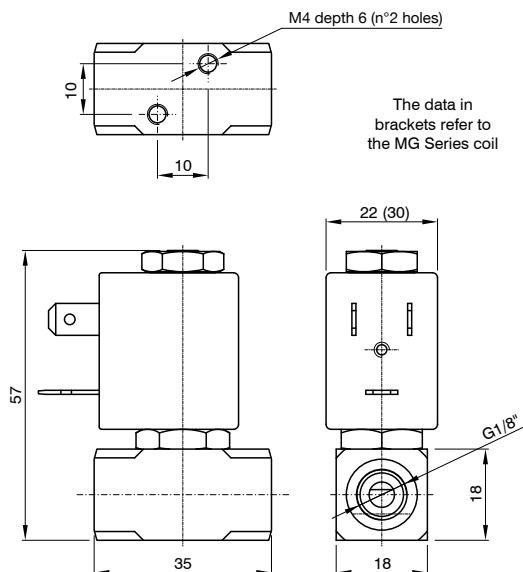


Construction characteristics

- AISI 316 stainless steel body
- AISI 316 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- Silver advance ring
- AISI 316 stainless steel springs
- Red light alloy or stainless steel housing
- 1/2" NPT electrical connection (M20x1,5 on request)
- FPM sealing assemblies

Technical characteristics

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	Vertical with solenoid coil upwards
Weight (g)	660

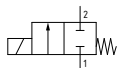
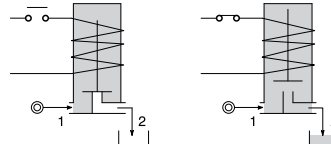
F3171 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8"


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3171⊕V12⊕	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +140
F3171⊕V15⊕		1,5	0,06		16	16						
F3171⊕V20⊕		2	0,09		12	10						
F3171⊕V25⊕		2,5	0,14		8	5,5						
F3171⊕V31⊕		3,1	0,19		5	2						
F3171⊕V20⊕	1/8"	2	0,09	25	15	15	11	5	MG	30		
F3171⊕V25⊕		2,5	0,14	16	8							
F3171⊕V31⊕		3,1	0,19	8	4							

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3171⊕V25⊕ => F3171AV25MI58:

2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2,5 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 316 stainless steel body
- AISI 316 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- Silver advance ring
- AISI 316 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

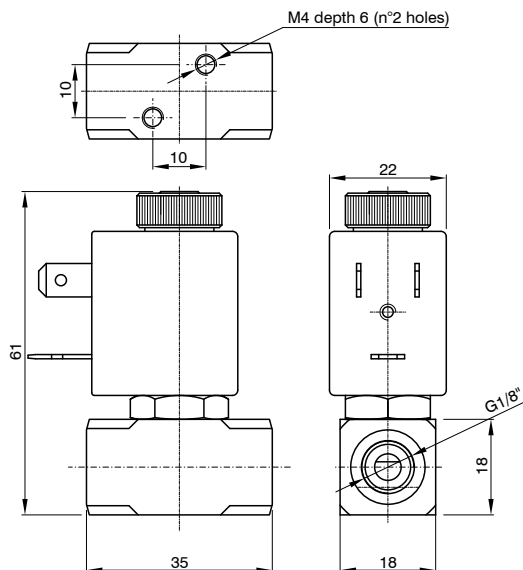
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g) with solenoid coil MI series	150
Weight (g) with solenoid coil MG series	200



F3271 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/8"



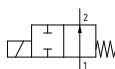
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3271⊕V12⊕	1/8"	1,2	0,04	0	19	19	12	8	6,5	MI	22	-10 ... +140
F3271⊕V15⊕		1,5	0,06		14	14						
F3271⊕V20⊕		2	0,09		8	8						
F3271⊕V25⊕		2,5	0,14		4,5	4,5						
F3271⊕V31⊕		3,1	0,19		2,5	2,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

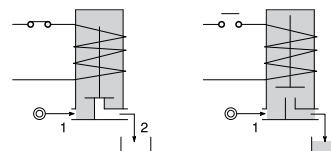
Example: F3271⊕V25⊕ => F3271AV25MI58:

2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2,5 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

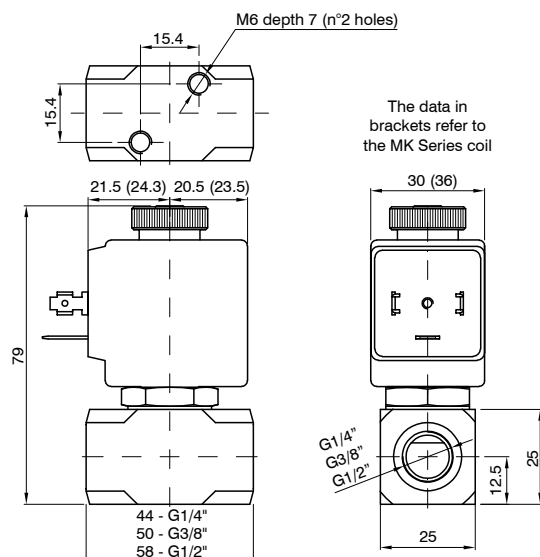
- AISI 316 stainless steel body
- AISI 316 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- Silver advance ring
- AISI 316 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	150

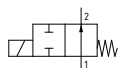
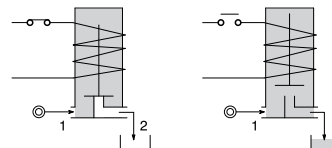
F3210 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"


CODE “V”= FPM seals	G connection (ISO 228) ⊗= Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊗= Solenoid coil		Temperature range (°C)	
	B	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
							AC	DC							
F3210⊗V15⊗	1/4"	3/8"	1/2"	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140	
F3210⊗V20⊗				2	0,1		17								
F3210⊗V25⊗				2,5	0,15		12								
F3210⊗V30⊗				3	0,25		9								
F3210⊗V35⊗				3,5	0,32		7								
F3210⊗V40⊗				4	0,36		5,5								
F3210⊗V45⊗				4,5	0,41		4,5								
F3210⊗V52⊗				5,2	0,47		3								
F3210⊗V15⊗	1/4"	3/8"	1/2"	1,5	0,07		/	18	/	/	10	MG/DC	30		
F3210⊗V20⊗				2	0,1			11							
F3210⊗V25⊗				2,5	0,15			7							
F3210⊗V30⊗				3	0,25			6,5							
F3210⊗V35⊗				3,5	0,32			4							
F3210⊗V40⊗				4	0,36			3,5							
F3210⊗V45⊗				4,5	0,41			3							
F3210⊗V52⊗				5,2	0,47			2,2							
F3210⊗V15⊗	1/4"	3/8"	1/2"	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36		
F3210⊗V20⊗				2	0,1			17							17
F3210⊗V25⊗				2,5	0,15			12							12
F3210⊗V30⊗				3	0,25			9							9
F3210⊗V35⊗				3,5	0,32			7							7
F3210⊗V40⊗				4	0,36			5,5							5,5
F3210⊗V45⊗				4,5	0,41			4,5							4,5
F3210⊗V52⊗				5,2	0,47			3							3
F3210⊗V64⊗				6,4	0,64		3,5	3,5							

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3210☉V25☉ => F3210BV25MG5:

2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

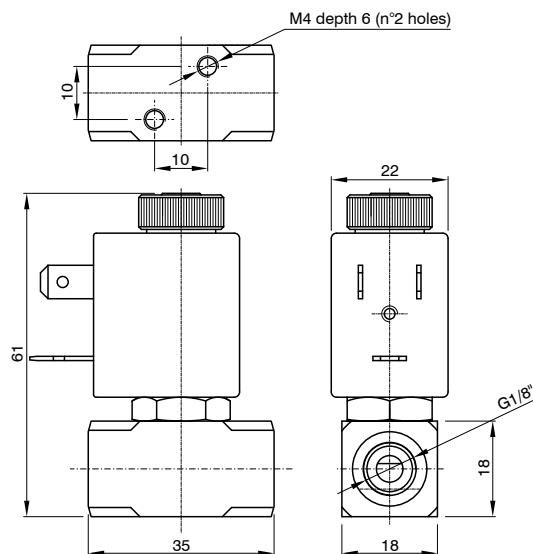
- Silver advance ring
- For use with oxygen
- us certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- Manual override

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	300
Weight (g) with solenoid coil MK series	380



F3211 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/8"



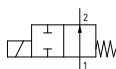
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3211⊕V12⊕	1/8"	1,2	0,04	0	19	19	12	8	6,5	MI	22	-10 ... +140
F3211⊕V15⊕		1,5	0,06		14	14						
F3211⊕V20⊕		2	0,09		8	8						
F3211⊕V25⊕		2,5	0,14		4,5	4,5						
F3211⊕V31⊕		3,1	0,19		2,5	2,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

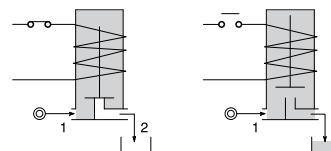
Example: F3211⊕V25⊕ => F3211AV25MI58:

2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2,5 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

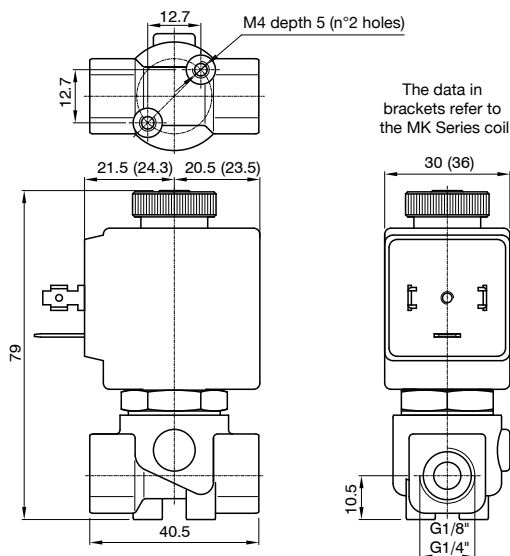
- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- For use with oxygen
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- Manual override

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	150

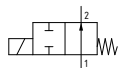
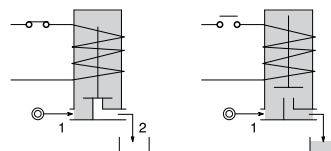
F3206 - 2-way solenoid valve N.O. brass body, with G connection (ISO 228) - 1/8" and 1/4"


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A	B			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3206⊕V15⊕	1/8"	1/4"	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3206⊕V20⊕			2	0,1		17							
F3206⊕V25⊕			2,5	0,15		12							
F3206⊕V30⊕			3	0,25		8							
F3206⊕V35⊕			3,5	0,32		7							
F3206⊕V40⊕			4	0,36		5,5							
F3206⊕V45⊕			4,5	0,41		4,5							
F3206⊕V52⊕			5,2	0,47		3							
F3206⊕V15⊕	1/8"	1/4"	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3206⊕V20⊕			2	0,1			11						
F3206⊕V25⊕			2,5	0,15			7						
F3206⊕V30⊕			3	0,25			6,5						
F3206⊕V35⊕			3,5	0,32			4						
F3206⊕V40⊕			4	0,36			3,5						
F3206⊕V45⊕			4,5	0,41			3						
F3206⊕V52⊕			5,2	0,47			2,2						
F3206⊕V15⊕	1/8"	1/4"	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36	
F3206⊕V20⊕			2	0,1		17	17						
F3206⊕V25⊕			2,5	0,15		12	12						
F3206⊕V30⊕			3	0,25		8	8						
F3206⊕V35⊕			3,5	0,32		7	7						
F3206⊕V40⊕			4	0,36		5,5	5,5						
F3206⊕V45⊕			4,5	0,41		4,5	4,5						
F3206⊕V52⊕			5,2	0,47		3	3						
F3206⊕V64⊕			6,4	0,64		3,5	3,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3206CV25B => F3206BV25MG5:

2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

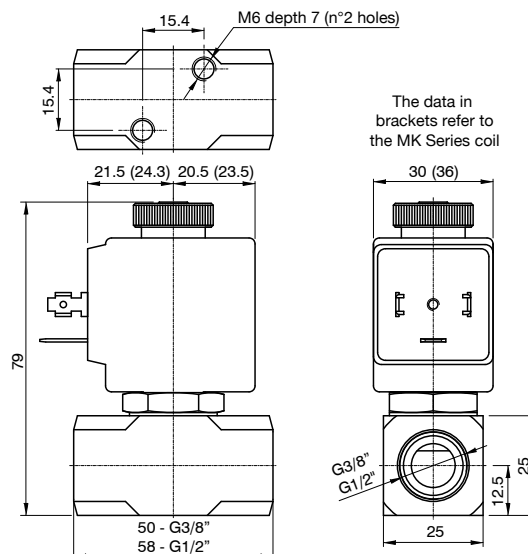
- Brass body
- Brass guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

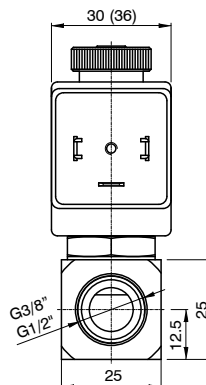
- Stainless steel guide tube
- Chemical nickel plating surface treatment
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- Manual override

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	300
Weight (g) with solenoid coil MK series	380


F3206 - 2-way solenoid valve N.O. brass body, with G connection (ISO 228) - 3/8" and 1/2"


The data in brackets refer to the MK Series coil

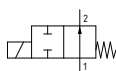
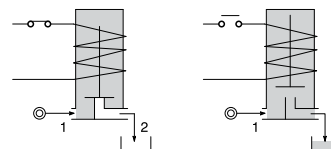


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3206⊕V15⊕	3/8"	1/2"	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3206⊕V20⊕			2	0,1		17							
F3206⊕V25⊕			2,5	0,15		12							
F3206⊕V30⊕			3	0,25		9							
F3206⊕V35⊕			3,5	0,32		7							
F3206⊕V40⊕			4	0,36		5,5							
F3206⊕V45⊕			4,5	0,41		4,5							
F3206⊕V52⊕			5,2	0,47		3							
F3206⊕V15⊕	3/8"	1/2"	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3206⊕V20⊕			2	0,1			11						
F3206⊕V25⊕			2,5	0,15			7						
F3206⊕V30⊕			3	0,25			6,5						
F3206⊕V35⊕			3,5	0,32			4						
F3206⊕V40⊕			4	0,36			3,5						
F3206⊕V45⊕			4,5	0,41			3						
F3206⊕V52⊕			5,2	0,47			2,2						
F3206⊕V15⊕	3/8"	1/2"	1,5	0,07		/	23	40	30	27	MK (AC/DC)	36	
F3206⊕V20⊕			2	0,1			17						
F3206⊕V25⊕			2,5	0,15			12						
F3206⊕V30⊕			3	0,25			9						
F3206⊕V35⊕			3,5	0,32			7						
F3206⊕V40⊕			4	0,36			5,5						
F3206⊕V45⊕			4,5	0,41			4,5						
F3206⊕V52⊕			5,2	0,47			3						
F3206⊕V64⊕			6,4	0,64		3,5	3,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3206⊕V25⊕ => F3206DV25MG5:

2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/2", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

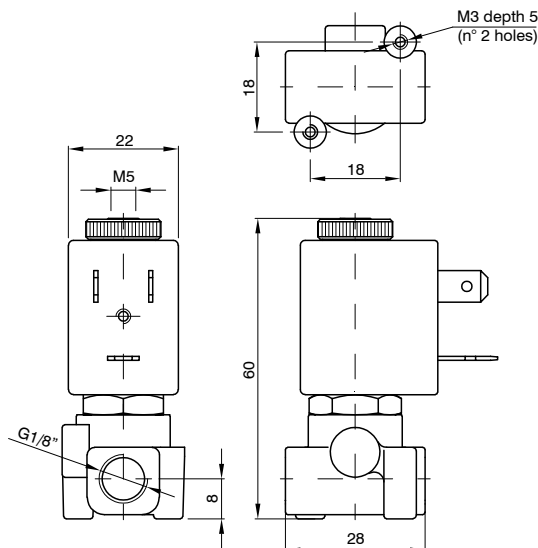
- Brass body
- Brass guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- Stainless steel guide tube
- Chemical nickel plating surface treatment
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- Manual override

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	300
Weight (g) with solenoid coil MK series	380

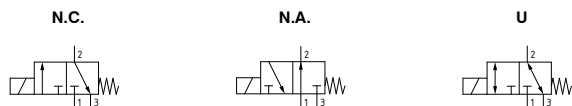
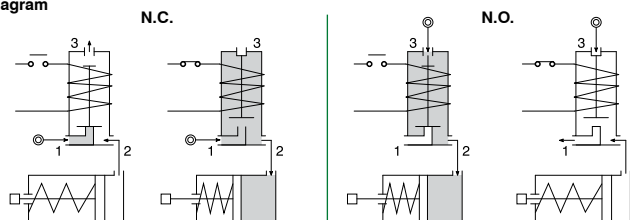
F3305 - 3-way solenoid valve brass body, with G connection (ISO 228) - 1/8"


CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	A	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
						AC	DC							
N.C. - Normally closed														
F3305⊕V12⊕	1/8"	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	-10 ... +140	
F3305⊕V15⊕		1,5	1,5	0,06		10	10							
F3305⊕V20⊕		2	1,7	0,09		6	6							
N.O. - Normally open														
F3305⊕V15S⊕	1/8"	1,5	1,5	0,06	0	10	10	12	8	6,5	MI	22		
F3305⊕V17S⊕		1,7	2	0,07		6	6							
U - Universal														
F3305⊕V15U⊕	1/8"	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22		

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3305CV12B => F3305AV12MI5:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 1,2 mm inlet orifice, solenoid coil 24 VDC (MI5, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- Brass body
- Brass guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

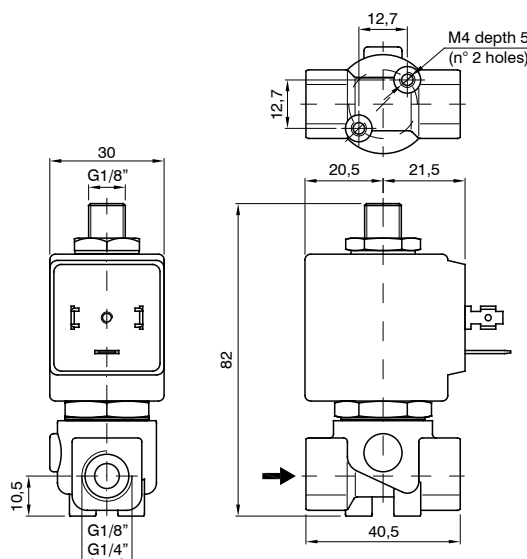
- Stainless steel guide tube
- Chemical nickel plating surface treatment
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- UL certified solenoid coils
- Exhaust port with hositail connection
- Versions for use with fluid temperature at -40 °C
- Manual override

Technical characteristics

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Universal
Weight (g)	110



F3306 - 3-way solenoid valve brass body, with G connection (ISO 228) - 1/8" and 1/4"



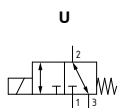
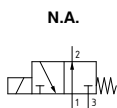
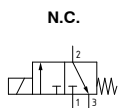
CODE "V"= FPM seals	G connection (ISO 228) ⊙= Connection		Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊗= Solenoid coil		Temperature range (°C)	
	A	B	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
							AC	DC							
N.C. - Normally closed															
F3306⊙V15⊙	1/8"	1/4"	1,5	2,4	0,07	0	20	20	20	15	10	MG	30	-10 ... +140	
F3306⊙V20⊙			2	2,4	0,11		13	13							
F3306⊙V25⊙			2,5	2,4	0,16		10	10							
N.O. - Normally open															
F3306⊙V25S⊙	1/8"	1/4"	2,4	2,5	0,16	0	9	9	20	15	10	MG	30		
F3306⊙V29S⊙			2,9	3	0,20		6,5	6,5							
U - Universal															
F3306⊙V25U⊙	1/8"	1/4"	2,5	2,4	0,16	0	5	4	20	15	10	MG	30		

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

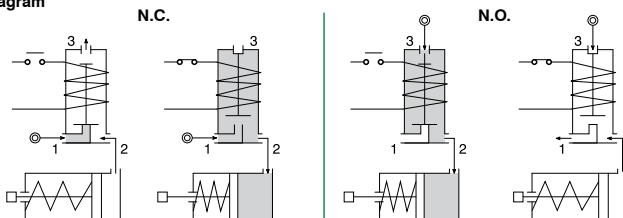
Example: F3306⊙V15⊙ => F3306AV15MG5:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 1,5 mm inlet orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

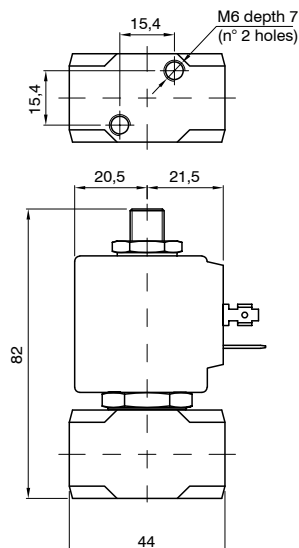
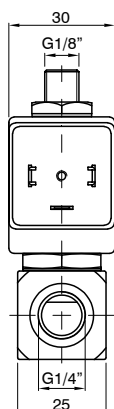
- Brass body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- Manual override
- Chemical nickel plating surface treatment
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	125

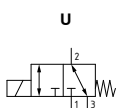
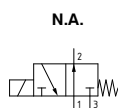
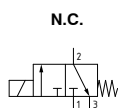
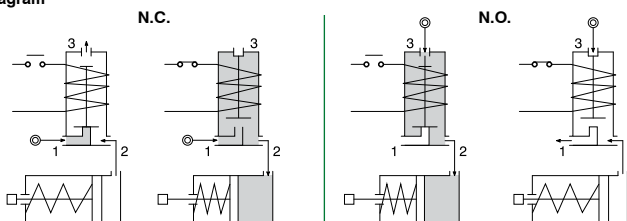
F3310 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/4"


CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	B	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
						AC	DC							
N.C. - Normally closed														
F3310⊕V20⊕	1/4"	2	2,4	0,11	0	13	13	20	15	10	MG	30	-10 ... +140	
F3310⊕V25⊕		2,5	2,4	0,16		10	10							
N.O. - Normally open														
F3310⊕V25S⊕	1/4"	2,4	2,5	0,16	0	9	9	20	15	10	MG	30		
F3310⊕V29S⊕		2,9	3	0,20		6,5	6,5							
U - Universal														
F3310⊕V25U⊕	1/4"	2,5	2,4	0,16	0	5	4	20	15	10	MG	30		

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3310⊕V20⊕ => F3310BV20MG5:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2 mm inlet orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

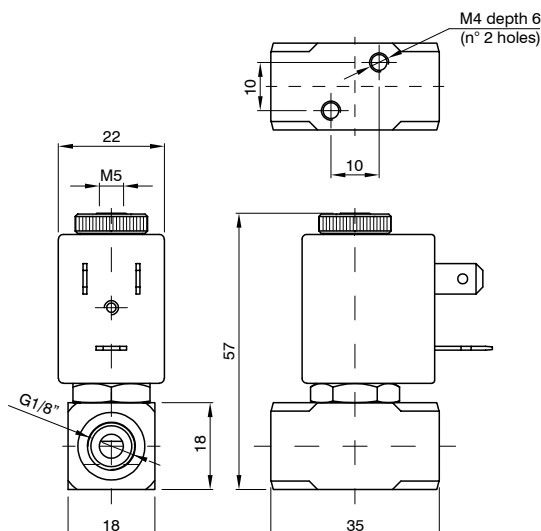
- Silver advance ring
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	360



F3311 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/8"



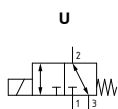
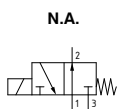
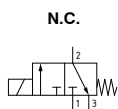
CODE “V”= FPM seals	G connection (ISO 228) ⊙= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊙= Solenoid coil		Temperature range (°C)		
	A	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size			
						AC	DC								
N.C. - Normally closed															
F3311⊙V12⊙	1/8"	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	-10 ... +140		
F3311⊙V15⊙		1,5	1,5	0,06		10	10								
F3311⊙V20⊙		2	1,7	0,09		6	6								
N.O. - Normally open															
F3311⊙V15S⊙	1/8"	1,5	1,5	0,06	0	10	10	12	8	6,5	MI	22		-10 ... +140	
F3311⊙V17S⊙		1,7	2	0,07		6	6								
U - Universal															
F3311⊙V15U⊙	1/8"	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22			-10 ... +140

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

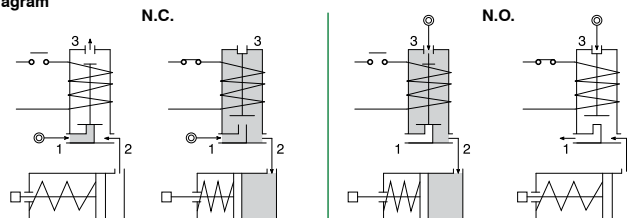
Example: F3311⊙V20⊙ => F3311AV20MI58:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 2 mm inlet orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

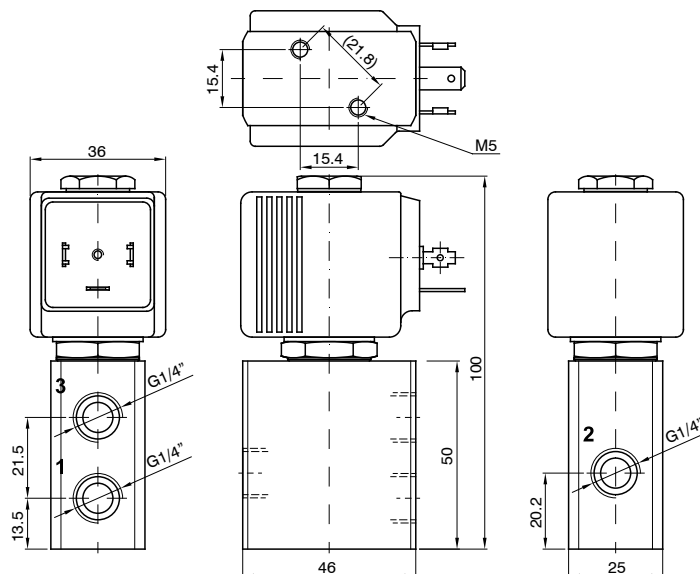
- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- Silver advance ring
- certified solenoid coils
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- Exhaust port with hositail connection
- Versions for use with fluid temperature at -40 °C

Technical characteristics

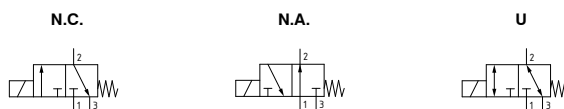
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	150

F332 - 3-way solenoid valve stainless steel or anodised aluminium body, with G connection (ISO 228) - 1/4"


CODE “V” = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	B	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
Anodised aluminium body													
U - Universal													-10 ... +140
F3320⊕V75⊕	1/4"	7,5	7,5	0,64	0	5	5	40	30	27	MK	36	
N.C. - Normally closed													
F3321⊕V75⊕	1/4"	7,5	7,5	0,64	0	9	9	40	30	27	MK	36	
N.O. - Normally open													
F3322⊕V75⊕	1/4"	7,5	7,5	0,64	0	9	9	40	30	27	MK	36	
Stainless steel body													
U - Universal													-10 ... +140
F3323⊕V75⊕	1/4"	7,5	7,5	0,64	0	5	5	40	30	27	MK	36	
N.C. - Normally closed													
F3324⊕V75⊕	1/4"	7,5	7,5	0,64	0	9	9	40	30	27	MK	36	
N.O. - Normally open													
F3325⊕V75⊕	1/4"	7,5	7,5	0,64	0	9	9	40	30	27	MK	36	

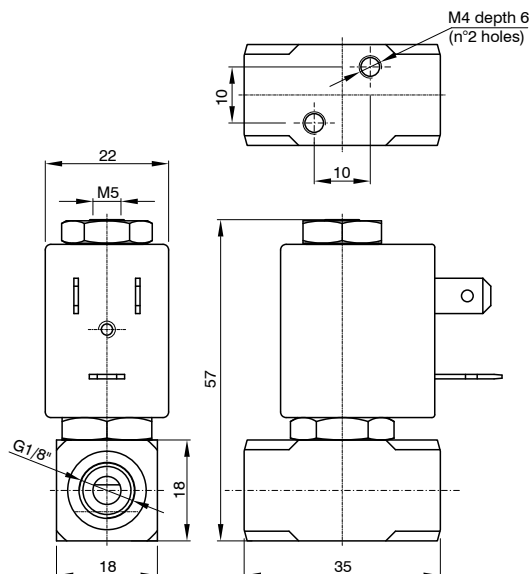
Example: F3321CV75B => F3321BV75MK5:

3-way solenoid valve normally closed, direct acting poppet type aluminium body with G connection (ISO 228) 1/4", FPM seals, 7,5 mm inlet orifice, solenoid coil 24 VDC (MK5, size 36 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol


Construction characteristics	Technical characteristics	
- AISI 303 stainless steel or anodised aluminium body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Indifferent
	Weight (g)	430

F3371 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/8"



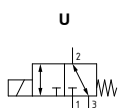
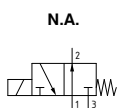
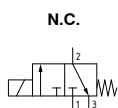
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊖ = Solenoid coil		Temperature range (°C)	
	A	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
						AC	DC							
N.C. - Normally closed														
F3371⊕V12⊖	1/8"	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	-10 ... +140	
F3371⊕V15⊖		1,5	1,5	0,06		10	10							
F3371⊕V20⊖		2	1,5	0,09		6	6							
N.O. - Normally open														
F3371⊕V15S⊖	1/8"	1,5	1,5	0,06	0	10	10	12	8	6,5	MI	22		
U - Universal														
F3371⊕V15U⊖	1/8"	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22		

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

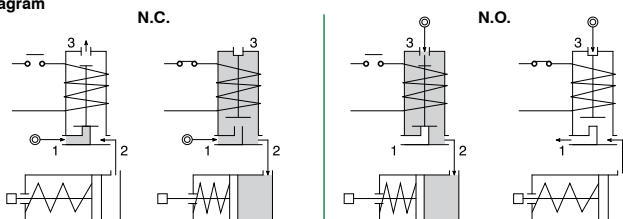
Example: F3371⊕V12⊖ => F3371AV12MI58:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8", FPM seals, 1,2 mm inlet orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

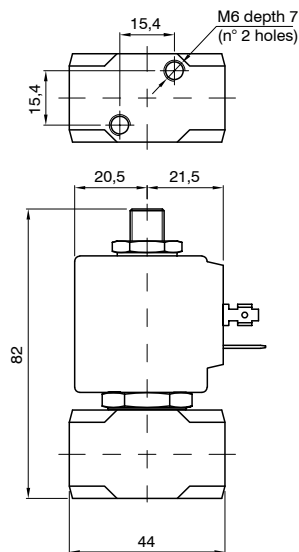
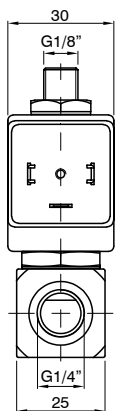
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - Silver advance ring - AISI 316 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - Exhaust port with hose tail connection - certified solenoid coils - Versions for use with fluid temperature at -40 °C	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Indifferent
	Weight (g)	150

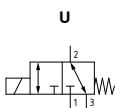
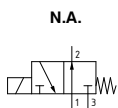
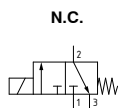
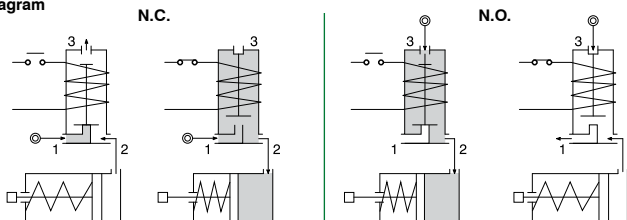
F3370 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/4"


CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	B	From 1 to 2	From 2 to 3		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
N.C. - Normally closed													-10 ... +140
F3370⊕V15⊕	1/4"	1,5	2,4	0,07	0	16	16	20	15	10	MG	30	
F3370⊕V20⊕		2	2,4	0,11		13	13						
F3370⊕V25⊕		2,5	2,4	0,16		10	10						
N.O. - Normally open													
F3370⊕V24S⊕	1/4"	2,4	2,5	0,16	0	9	9	20	15	10	MG	30	
U - Universal													
F3370⊕V25U⊕	1/4"	2,5	2,4	0,16	0	5	4	20	15	10	MG	30	

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3370⊕V15⊕ => F3370BV15MG5:

3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 1,5 mm orifice, from 1 to 2, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- AISI 316 stainless steel body
- AISI 316 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- Silver advance ring
- AISI 316 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

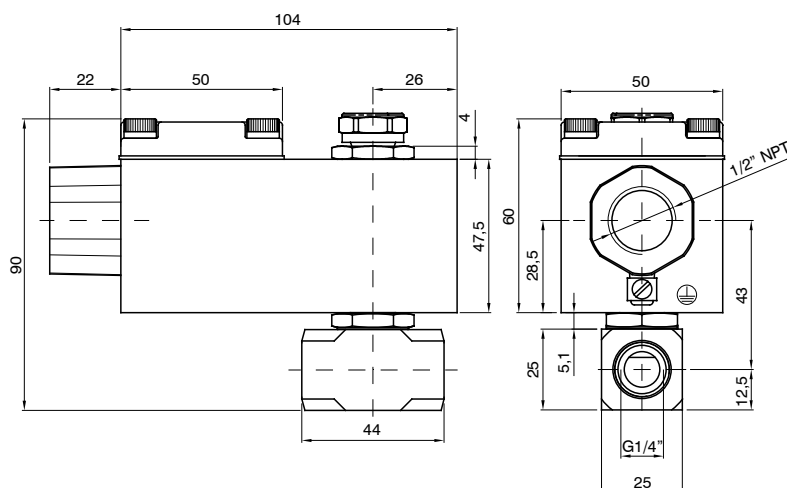
- For use with oxygen
- US certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	360



**FX3370 - 3-way solenoid valve N.C. stainless steel body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4"**



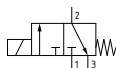
CODE “V”= FPM seals	G connection (ISO 228) ☉= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption		☉= Solenoid coil	Temperature range (°C)
	B	From 1 to 2	From 2 to 3		Min	Max		AC Holding (VA)	DC (W)		
						AC	DC				
FX3370☉V15☉	1/4"	1,5	2,4	0,07	0	16	16	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3370☉V20☉		2	2,4	0,11		13	13				
FX3370☉V25☉		2,5	2,4	0,16		10	10				

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

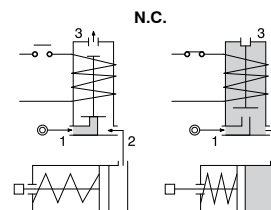
Example: FX3370⊕V15⊕ => FX3370BV15A60:

3-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/4", FPM seals, 1,5 mm orifice, from 1 to 2, solenoid coil 12 VDC (A60).

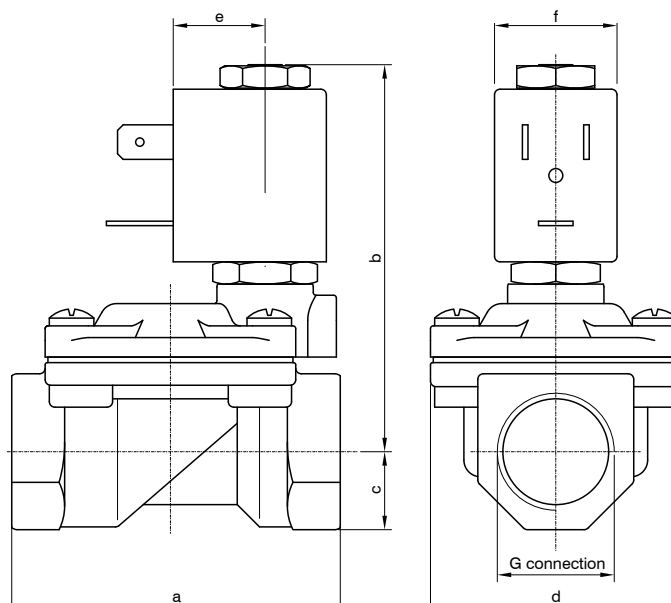
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body	Maximum admitted pressure (bar)	80
- AISI 316 stainless steel guide tube	Maximum fluid viscosity (mm²/s)	25cSt
- AISI 430FR stainless steel mobile and fixed core	Ambient temperature (°C)	-40 ... +60
- AISI 316 stainless steel springs	Mounting position	Vertical with solenoid coil upwards
- Red light alloy housing	Weight (g)	650
- 1/2" NPT electrical connection (M20x1,5 on request)		
- FPM sealing assemblies		

F3107 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1/4" ... 1" 1/4


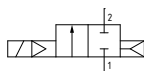
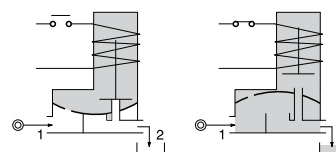
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection						Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	B	C	D	E	F	G			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
										AC	DC						
F3107⊕V10⊕	1/4"	/					10	1,5	0,15	15	15	12	8	6,5	MI	22	-10 ... +140
F3107⊕V10⊕	/	3/8"	/				10	1,7		15	15						
F3107⊕V12⊕	/	3/8"	/				12	2,2		15	15						
F3107⊕V12⊕	/	1/2"		/			12	2,5		15	15						
F3107⊕V18⊕	/		3/4"		/		18	5,5		13	13						
F3107⊕V25⊕	/			1"		/	25	10,2		10	10						
F3107⊕V30⊕	/				1" 1/4		30	15		10	10						

G connection	1/4" Ø10	3/8" Ø10	3/8" Ø12	1/2" Ø12	3/4"	1"	1" 1/4 Ø30
a	49	49	59	59	79	96	119
b	65	65	70	70	76	85	92
c	11	11	14	14	18	20	25
d	32	32	45	45	55	72	85
e	16						
f	22						
Weight (g)	230	240	420	390	650	1050	1700

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3107CV25B => F3107FV25MI58:

2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 1", FPM seals, 25 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- Brass body and cover
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

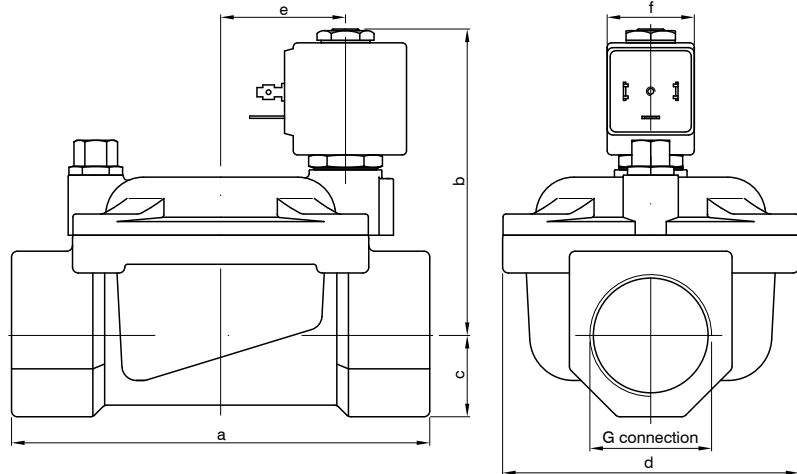
OPTIONS (on request):

- Manual override
- Chemical nickel plating surface treatment
- Version with slowed commutation
- Version for vacuum (air/gas)
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils

Technical characteristics

Maximum admitted pressure (bar)	25
Minimum differential pressure (bar)	0,15
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Preferably with solenoid coil upwards

F3107 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1" 1/4 ... 3"



CODE "V"= FPM seals "B"= NBR seals	G connection (ISO 228) ⊕ = Connection					Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	G	H	I	M	R			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series		Size
									AC	DC						
F3107⊕V37⊕	1" 1/4	/				37	18	0,15	10	10	20	15	10	MG	30	-10 ... +140
F3107⊕V37⊕	/	1" 1/2	/			37	21		10	10						
F3107⊕V50⊕	/	2"	/			50	36		10	10						
F3107⊕B75⊕	/		2" 1/2		/	75	75	0,3	5	5	20	15	10	MG	30	-10 ... +90
F3107⊕B75⊕	/				3"	75	84		5	5						

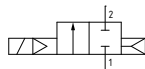
G connection	1" 1/4	1" 1/2	2"	2" 1/2	3"
a	142	142	158	226	226
b	105	105	115	134	134
c	28	28	35	51	51
d	102	102	119	169	169
e	21				
f	30				
Weight (g)	3000	2850	4300	1170	9900

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

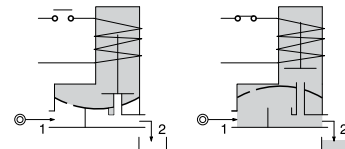
Example: F3107⊕V37⊕ => F3107GV37MG5:

2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 1" 1/4, FPM seals, 37 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

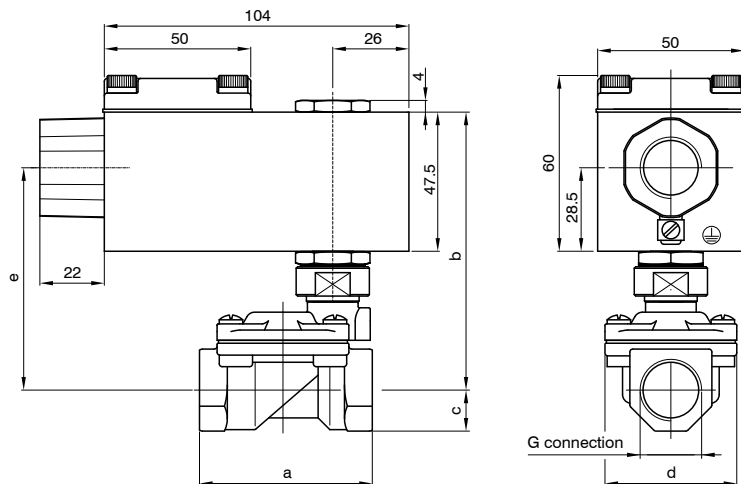
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies (NBR only for "M" and "R" versions) OPTIONS (on request): - Manual override - Chemical nickel plating - Version for vacuum (air/gas) - certified solenoid coils	Maximum admitted pressure (bar)	20
	Minimum differential pressure (bar)	0,15 ... 3
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Preferably with solenoid coil upwards

FX3107 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228)
 with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4" ... 3"


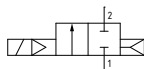
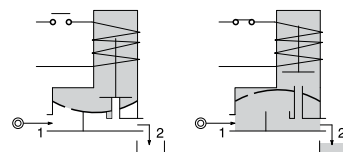
CODE “V”= FPM seals “B”= NBR seals	G connection (ISO 228) ⊕= Connection										Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕= Solenoid coil	Temperature range (°C)			
	B	C	D	E	F	G	H	I	M	R			Min	Max		AC Holding (VA)			DC (W)		
														AC	DC						
FX3107CV10⊕	1/4"	/										10	1,5	0,15	15	15	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80	
FX3107CV10⊕	/	3/8"	/										10		1,7	15					15
FX3107CV12⊕	/	3/8"	/										12		2,2	15					15
FX3107CV12⊕	/	1/2"	/										12		2,5	15					15
FX3107CV18⊕	/	3/4"	/										18		5,5	13					13
FX3107CV25⊕	/	1"	/										25		10,2	10					10
FX3107CV30⊕	/	1" 1/4	/										30		15	10					10
FX3107CV37⊕	/	1" 1/4	/										37		18	10					10
FX3107CV37⊕	/	1" 1/2	/										37		21	10					10
FX3107CV50⊕	/	2"	/										50		36	10					10
FX3107CB75⊕	/	2" 1/2	/										75	75	0,3	5	5				
FX3107CB75⊕	/	3"	/										75	84		5	5				

G connection	1/4" Ø10	3/8" Ø10	3/8" Ø12	1/2" Ø12	3/4"	1"	1" 1/4 Ø30	1" 1/4	1" 1/2	2"	2" 1/2	3"
a	49	49	59	59	79	96	119	142	142	158	226	226
b	90	90	95	95	101	110	118	110	110	119	138	138
c	11	11	14	14	18	20	25	28	28	35	51	51
d	32	32	45	45	54	72	85	102	102	119	169	169
e	71	71	76	76	82	91	99	91	91	100	119	119
Weight (g)	720	720	920	920	1100	1500	2270	3330	3120	4720	10400	10000

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

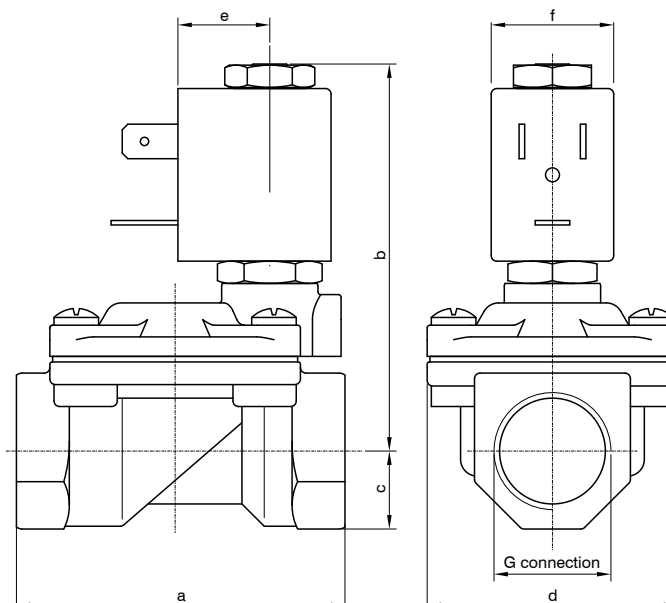
Example: FX3107CV10⊕ => FX3107BV10A60:

2-way solenoid valve normally closed, servo-assisted diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/4", FPM seals, 10 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- Brass body and cover - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies (NBR only for "M" and "R" versions)	Maximum admitted pressure (bar)	25
OPTIONS (on request): - Chemical nickel plating surface treatment - Version with slowed commutation	Minimum differential pressure (bar)	0,15 ... 0,3
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature (°C)	-40 ... +60
	Mounting position	Vertical with solenoid coil upwards

F3177 - 2-way solenoid valve N.C. stainless steel body and cover, with G connection (ISO 228) - 3/8" ... 1"



CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3177⊕V12⊕	3/8"		/		12	2,2	0,15	15	15	12	8	6,5	MI	22	-10 ... +140
F3177⊕V12⊕	/	1/2"	/		12	2,5		15	15						
F3177⊕V18⊕	/		3/4"	/	18	5,5		13	13						
F3177⊕V25⊕	/			1"	25	10,2		10	10						

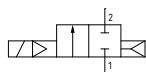
G connection	3/8"	1/2"	3/4"	1"
a	59	59	79	96
b	70	70	76	85
c	11	13	18	20
d	45	45	55	72
e	16			
f	22			
Weight (g)	300	320	550	950

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

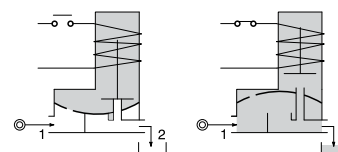
Example: F3177⊕V12⊕ => F3177CV12MI58:

2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 3/8", FPM seals, 12 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

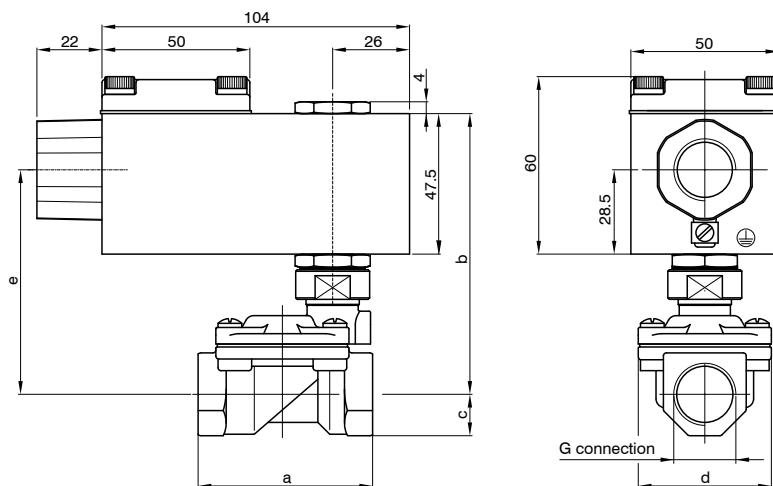
- AISI 316 stainless steel body and cover
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):

- Manual override
- Seals for use with foodstuff fluids
- Version with slowed commutation
- Silver advance ring
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- and IECEx certified solenoid coils

Technical characteristics

Maximum admitted pressure (bar)	25
Minimum differential pressure (bar)	0,15
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Preferably with solenoid coil upwards

FX3177 - 2-way solenoid valve N.C. stainless steel body and cover, with G connection (ISO 228)
 with certified housing: Ex d IIC T6 or T5 or T4 Gb - 3/8" ... 1"


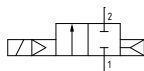
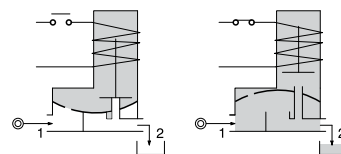
CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)				⊕= Solenoid coil	Temperature range (°C)	
	C	D	E	F			Min	Max		AC Holding (VA)			DC (W)
								AC	DC				
FX3177⊕V121⊕	3/8"	/			12	2,2	0,15	15	15	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3177⊕V121⊕	/	1/2"	/		12	2,5		15	15				
FX3177⊕V181⊕	/	3/4"		/	18	5,5		13	13				
FX3177⊕V251⊕	/			1"	25	10,2		10	10				

G connection	3/8" Ø12	1/2" Ø12	3/4"	1"
a	59	59	79	96
b	95	95	101	110
c	14	14	18	20
d	45	45	54	72
e	76	76	82	91
Weight (g)	1120	1110	1100	1500

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

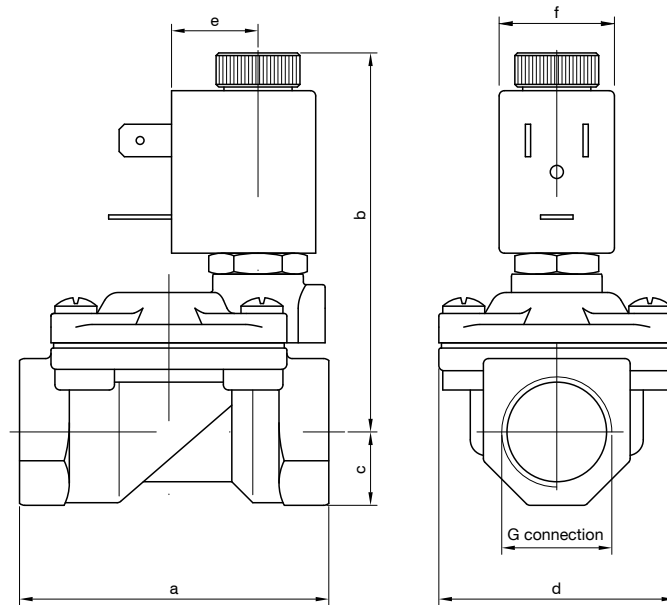
Example: FX3177⊕V12⊕ => FX3177CV12A60:

2-way solenoid valve normally closed, servo-assisted diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 3/8", FPM seals, 12 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body and cover - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies OPTIONS (on request): - Version with slowed commutation	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature (°C)	-40 ... +60
	Mounting position	Vertical with solenoid coil upwards

F3277 - 2-way solenoid valve N.O. stainless steel body and cover, with G connection (ISO 228) - 3/8" ... 1"



CODE "V" = FPM seals	G connection (ISO 228) ⊙ = Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊙ = Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
								AC	DC						
F3277⊙V12⊙	3/8"	/			12	2,2	0,15	15	15	12	8	6,5	MI	22	-10 ... +140
F3277⊙V12⊙	/	1/2"	/		12	2,5		15	15						
F3277⊙V18⊙	/	3/4"		/	18	5,5		13	13						
F3277⊙V25⊙	/			1"	25	10,2		10	10						

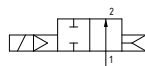
G connection	3/8"	1/2"	3/4"	1"
a	59	59	79	96
b	73	73	76	85
c	14	14	18	20
d	45	45	55	72
e	16			
f	22			
Weight (g)	300	320	550	950

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

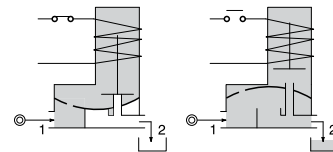
Example: F3277⊙V12⊙ => F3277CV12MI58:

2-way solenoid valve normally open, servo-assisted diaphragm, with G connection (ISO 228) 3/8", FPM seals, 12 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

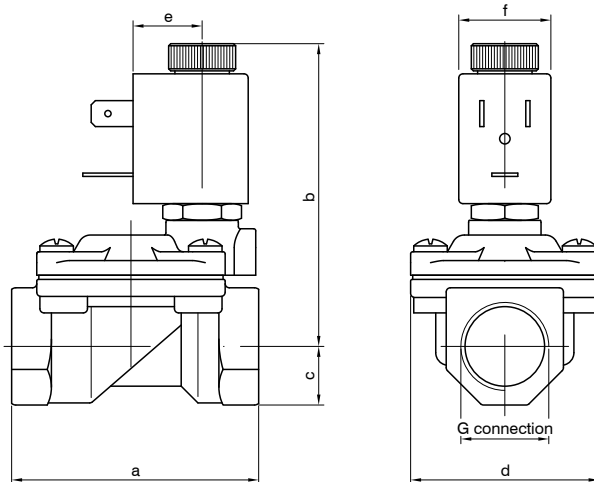
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Seals for use with foodstuff fluids - Version with slowed commutation - Silver advance ring - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - certified solenoid coils	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Preferably with solenoid coil upwards

F3207 - 2-way solenoid valve N.O. brass body and cover, with G connection (ISO 228) - 1/4" ... 1" 1/4


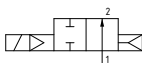
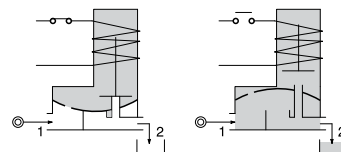
CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection						Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	B	C	D	E	F	G			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
										AC	DC							
F3207⊕V10⊕	1/4"	/					10	1,5	0,15	15	15	12	8	6,5	MI	22	-10 ... +140	
F3207⊕V10⊕	/	3/8"	/				10	1,7		15	15							
F3207⊕V12⊕	/	3/8"	/				12	2,2		15	15							
F3207⊕V12⊕	/		1/2"	/				12		2,5	15							15
F3207⊕V18⊕	/			3/4"	/			18		5,5	13							13
F3207⊕V25⊕	/				1"	/	25	10,2		10	10							
F3207⊕V30⊕	/					1" 1/4	30	15		10	10							

G connection	1/4" Ø10	3/8" Ø10	3/8" Ø12	1/2" Ø12	3/4"	1"	1" 1/4 Ø30
a	49	49	59	59	79	96	119
b	65	65	73	73	76	85	96
c	11	11	14	14	18	20	25
d	32	32	45	45	55	72	85
e	16						
f	22						
Weight (g)	230	240	420	390	650	1050	1700

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

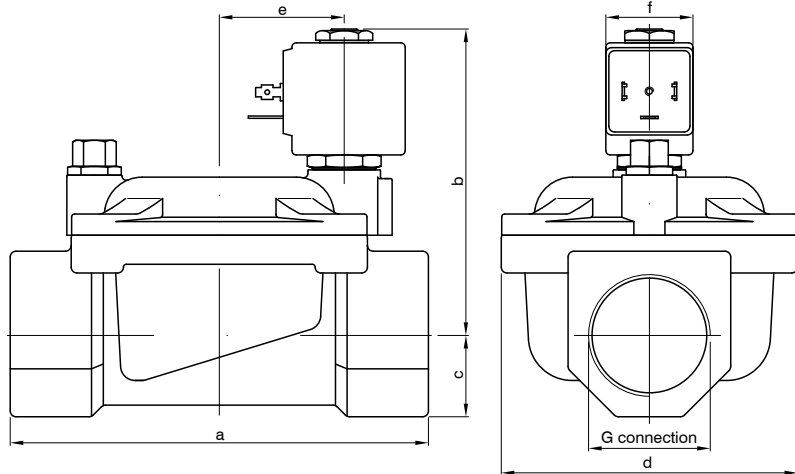
Example: F3207CV10⊕ => F3207CV10MI58:

2-way solenoid valve normally open, servo-assisted diaphragm, with G connection (ISO 228) 1/4", FPM seals, 10 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Manual override - Chemical nickel plating surface treatment - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - certified solenoid coils	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Preferably with solenoid coil upwards

F3207 - 2-way solenoid valve N.O. brass body and cover, with G connection (ISO 228) - 1" 1/4 ... 3"



CODE "V" = FPM seals "B" = NBR seals	G connection (ISO 228) ⊙ = Connection					Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊙ = Solenoid coil		Temperature range (°C)
	G	H	I	M	R			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3207⊙V37⊙	1" 1/4		/			37	18	0,15	10	10	20	15	10	MG	30	-10 ... +140
F3207⊙V37⊙	/	1" 1/2	/			37	21		10	10						
F3207⊙V50⊙	/		2"	/		50	36		10	10						
F3207⊙B75⊙		/		2" 1/2	/	75	75	0,3	5	5	20	15	10	MG	30	-10 ... +90
F3207⊙B75⊙		/			3"	75	84		5	5						

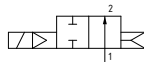
G connection	1" 1/4	1" 1/2	2"	2" 1/2	3"
a	142	142	158	226	226
b	105	105	115	134	134
c	28	28	35	51	51
d	102	102	119	169	169
e	21				
f	30				
Weight (g)	3000	2850	4300	1170	9900

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

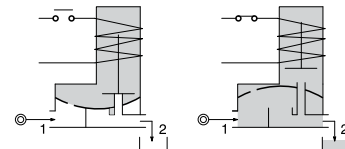
Example: F3107⊙V37⊙ => F3107GV37MG5:

2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 1" 1/4, FPM seals, 37 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

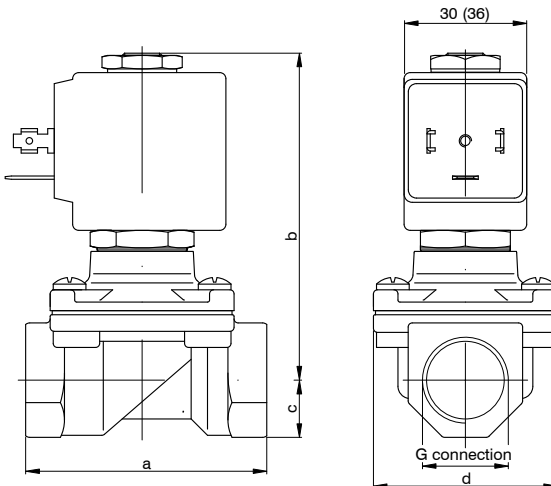
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies (NBR only for "M" and "R" versions) OPTIONS (on request): - Manual override - Chemical nickel plating - Version for vacuum (air/gas) - certified solenoid coils	Maximum admitted pressure (bar)	20
	Minimum differential pressure (bar)	0,15 ... 3
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Preferably with solenoid coil upwards

F3108 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8" ... 1"


The data in brackets refer to the MK Series coil

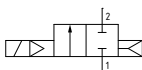
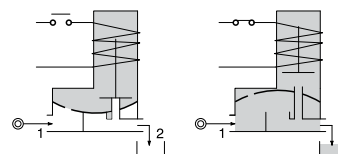
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption			⊕ = Solenoid coil		Temperature range (°C)		
	C	D	E	F			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series		Size	
								AC	DC							
F3108⊕V12⊕	3/8"	/			12	2	0	10	/	20	15	/	MG/AC	30	-10 ... +140	
F3108⊕V12⊕	/	1/2"	/		12	2,2		10	/							
F3108⊕V12⊕	3/8"	/			12	2		12	10	40	30	27	MK (AC/DC)	36		
F3108⊕V12⊕	/	1/2"	/		12	2,2		12	10							
F3108⊕V18⊕	/		3/4"	/	18	4,5		9	/	40	30	/				MK/DC
F3108⊕V25⊕	/		1"		25	8,5		7	/							
F3108⊕V18C⊕	/	3/4"		/	18	4,5		/	9	/	/	27	MK/DC			
F3108⊕V25C⊕	/			1"	25	8,5		/	8							

G connection		3/8"	1/2"	3/4"	1"
a		59	59	79	96
b		83	83	90	101
c		14	14	18	20
d		45	45	55	72
Weight (g)	MG	520	490	/	/
	MK	600	570	810	1220

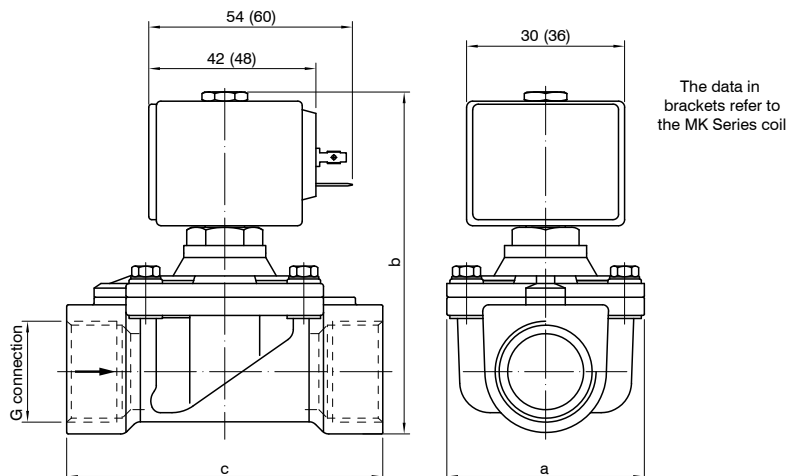
N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3108CV12B => F3108CV12MG5:

2-way solenoid valve normally closed, with assisted-lift diaphragm with G connection (ISO 228) 3/8", FPM seals, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Chemical nickel plating - US certified solenoid coils	Maximum admitted pressure (bar)	25
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Preferably with solenoid coil upwards


F3168 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8" ... 1" 1/2


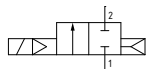
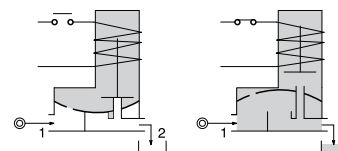
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection						Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption		⊕= Solenoid coil		Temperature range (°C)
	C	D	E	F	G	H			Min	Max		(W)	Series	Size		
										AC	DC					
F3168ⓈV11Ⓢ	3/8"	/					11	1,2	0	14	5	10	MG	30	-10 ... +140	
								/		14	27	MK	36			
F3168ⓈV16Ⓢ	/	1/2"	/				16	2,4		14	2,5	10	MG	30		
								/		14	27	MK	36			
F3168ⓈV16Ⓢ	/		3/4"	/			16	2,4		14	2,5	10	MG	30		
								/		14	27	MK	36			
F3168ⓈV20HⓈ	/		3/4"	/			20	7,2		16	5	10	MG	30		
								/		16	27	MK	36			
F3168ⓈV25Ⓢ	/			1"	/		25	7,2		8	/	10	MG	30		
								14		1,5	14	MK	36			
								/		6	27	MK	36			
F3168ⓈV25HⓈ	/			1"	/		25	8,4		16	5	10	MG	30		
								/		16	27	MK	36			
F3168ⓈV35Ⓢ	/				1" 1/4	/	35	16,2		16	/	10	MG	30		
								/		6	14	MK	36			
								/		16	27	MK	36			
F3168ⓈV40Ⓢ	/					1" 1/2	40	16,8		16	/	10	MG	30		
								/		6	14	MK	36			
								/		16	27	MK	36			

G connection	3/8"	1/2"	3/4"	3/4" (H)	1"	1" (H)	1" 1/4	1" 1/2
a	50	50	50	65	65	65	94	94
b	89	100	100	103	112	110	130	130
c	56	70	70	104	104	104	128	128

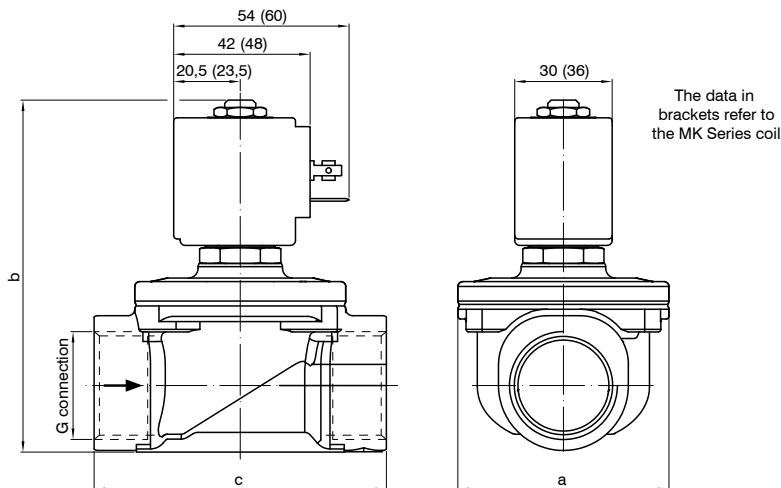
N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3168CV11 ⇒ F3168CV11MG5:

2-way solenoid valve normally closed, with assisted-lift diaphragm with G connection (ISO 228) 3/8", FPM seals, 11 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies (NBR on request) OPTIONS (on request): - NPT connections - ATEX Ex d explosion protection solenoid coil - For use with oxygen - certified solenoid coils	Maximum admitted pressure (bar)	16
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Preferably with solenoid coil upwards

F3178 - 2-way solenoid valve N.C. stainless steel body and cover, with G connection (ISO 228) - 3/8" ... 1" 1/2


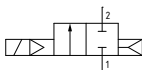
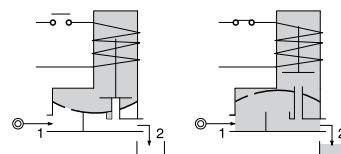
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection						Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕= Solenoid coil		Temperature range (°C)
	C	D	E	F	G	H			Min	Max		(W)	Series	Size	
										AC	DC				
F3178⊕V15⊕	3/8"	/					15	2,4	0	14	6	10	MG	30	-10 ... +140
								/		14	27	MK	36		
F3178⊕V16⊕	/	1/2"	/				16	3		14	6	10	MG	30	
								/		14	27	MK	36		
F3178⊕V20⊕	/		3/4"	/			20	3,6		14	6	10	MG	30	
								/		14	27	MK	36		
F3178⊕V25⊕	/			1"	/		25	8,4		14	3	10	MG	30	
										/	8	14	MK	36	
										/	14	27	MK	36	
F3178⊕V35⊕	/				1" 1/4	/	35	18		8	/	10	MG	30	
										14	2	14	MK	36	
										/	7	27	MK	36	
F3178⊕V40⊕	/					1" 1/2	40	19,2	8	/	10	MG	30		
									14	2	14	MK	36		
									/	7	27	MK	36		

G connection	3/8"	1/2"	3/4"	1"	1" 1/4	1" 1/2
a	52	52	58	65	94	94
b	92	92	100	109	126	126
c	68	68	75	90	128	128

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

Example: F3178CV15B => F3178CV15MG5:

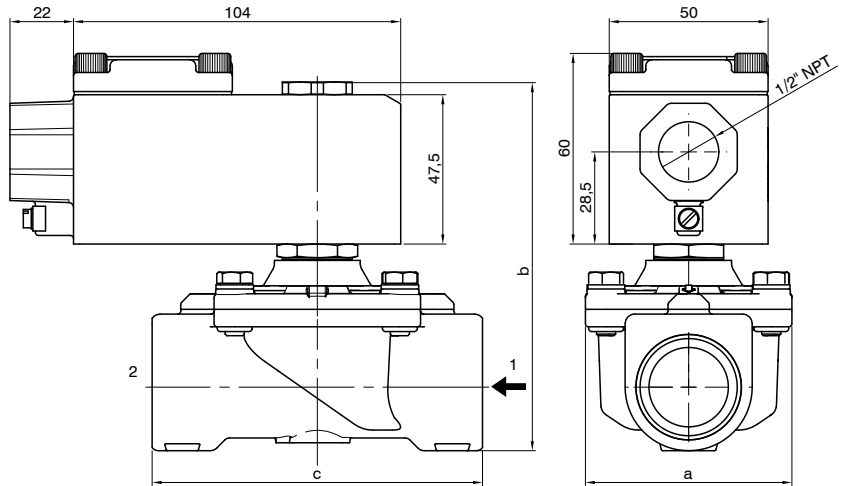
2-way solenoid valve normally closed, with assisted-lift diaphragm with G connection (ISO 228) 3/8", FPM seals, 15 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body and cover - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - Silver advance ring - FPM sealing assemblies (NBR on request)	Maximum admitted pressure (bar)	16
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Preferably with solenoid coil upwards
OPTIONS (on request): - NPT connections - ATEX Ex d explosion protection solenoid coil - For use with oxygen - certified solenoid coils		



**FX3168 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 3/8" ... 1"**



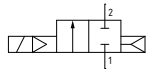
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption	⊕ = Solenoid coil	Temperature range (°C)
	C	D	E	F			Min	Max				
								AC	DC	(W)		
FX3168⊕V11⊕	3/8"	/			11	1,2	0	5	5	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3168⊕V16⊕	/	1/2"	/		16	2,4		5	5			
FX3168⊕V16⊕	/		3/4"	/	16	2,4		5	5			
FX3168⊕V20H⊕	/		3/4"	/	20	7,2		5	5			
FX3168⊕V25H⊕	/			1"	25	8,4		5	5			

G connection	3/8"	1/2"	3/4"	3/4" (H)	1" (H)
a	50	50	50	65	65
b	95	106	106	109	116
c	56	70	70	104	104

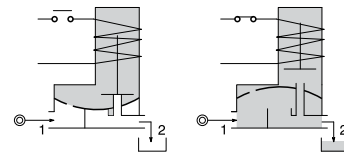
Example: FX3168⊕V11⊕ => FX3168CV11A60:

2-way solenoid valve normally closed, with assisted-lift diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 3/8", FPM seals, 11 mm orifice, solenoid coil 12 VDC (A60).

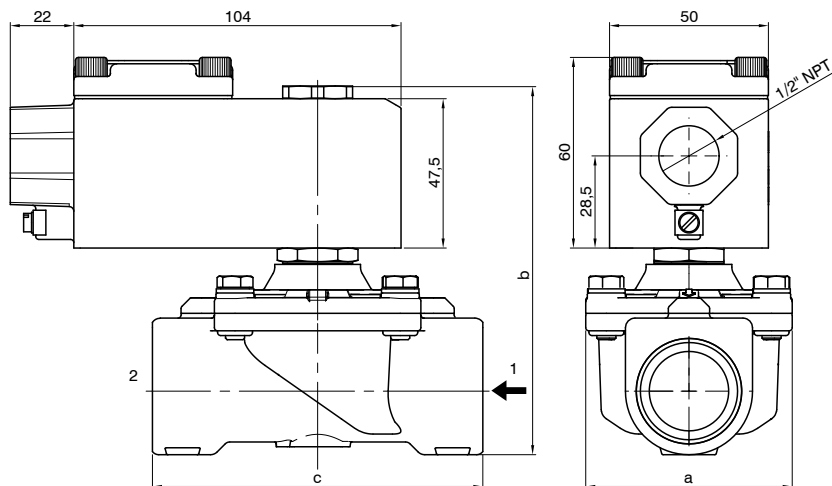
Pneumatic symbol



Diagram



Construction characteristics	Technical characteristics	
- Brass body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies	Maximum admitted pressure (bar)	16
	Minimum differential pressure (bar)	0
	Maximum fluid viscosity (mm²/s)	25cSt
	Ambient temperature (°C)	-40 ... +60
	Mounting position	Vertical with solenoid coil upwards

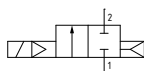
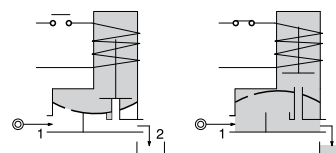
FX3178 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228)
 with certified housing: Ex d IIC T6 or T5 or T4 Gb - 3/8" ... 1"


CODE "V"= FPM seals	G connection (ISO 228) ⊕ = Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption	⊕ = Solenoid coil	Temperatur range (°C)	
	C	D	E	F			Min	Max				
								AC	DC			(W)
FX3178ⓈV15Ⓢ	3/8"	/			15	2,4	0	6	6	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3178ⓈV16Ⓢ	/	1/2"	/		16	3		6	6			
FX3178ⓈV20Ⓢ	/		3/4"	/	20	3,6		6	6			
FX3178ⓈV25Ⓢ	/			1"	25	8,4		3	3			

G connection	3/8"	1/2"	3/4"	1"
a	52	52	58	65
b	98	98	106	115
c	68	68	75	90

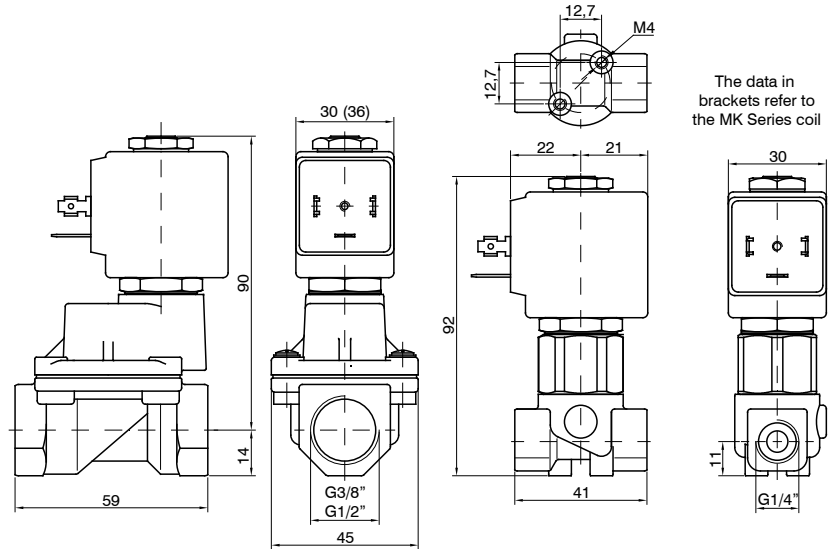
Example: FX3178CV15B => FX3178CV15A60:

2-way solenoid valve normally closed, with assisted-lift diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 3/8", FPM seals, 15 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram


Construction characteristics	Technical characteristics	
- AISI 316 stainless steel body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies OPTIONS (on request): - Solenoid coil with stainless steel housing	Maximum admitted pressure (bar)	16
	Minimum differential pressure (bar)	0
	Maximum fluid viscosity (mm ² /s)	25cSt
	Ambient temperature (°C)	-40 ... +60
	Mounting position	Vertical with solenoid coil upwards

F3119 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1/4" ... 1/2"



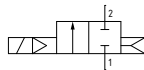
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
							AC	DC						
F3119⊕V52⊕	1/4"	/		5,2	0,47	1,5	50	50	20	15	10	MG	30	-10 ... +140
F3119⊕V12⊕	/	3/8"	/	12	2	1	30	30						
F3119⊕V12⊕	/		1/2"	12	2,2	1	30	30						
F3119⊕V12/1⊕	/	3/8"	/	12	2	1	50	50	40	30	27	MK	36	
F3119⊕V12/1⊕	/		1/2"	12	2,2	1	50	50						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

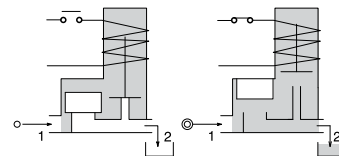
Example: F3119⊕V52⊕ => F3119BV52MG5:

2-way solenoid valve normally closed, servo-assisted piston with G connection (ISO 228) 1/4", main seals in PTFE other in FPM, 5,2 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

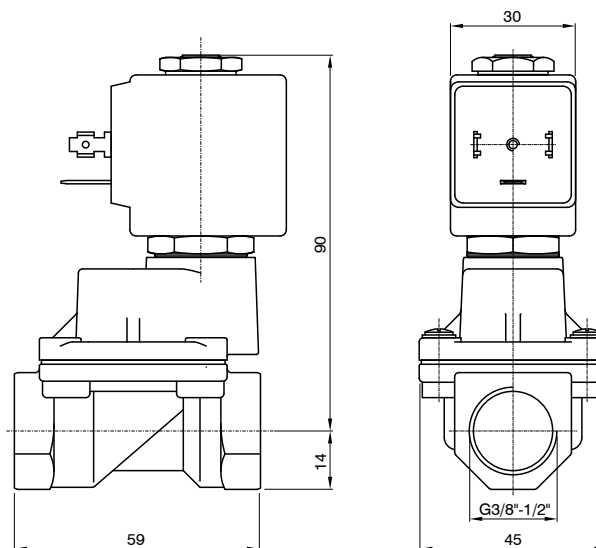
Pneumatic symbol



Diagram



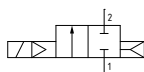
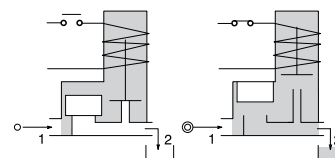
Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - Brass piston - PTFE piston seal - Sealing assemblies mainly PTFE, others FPM OPTIONS (on request): - Chemical nickel plating - certified solenoid coils	Maximum admitted pressure (bar)	60
	Maximum fluid viscosity (mm²/s)	25cSt
	Minimum differential pressure (bar)	1
	Maximum admitted leakage (Nl/h)	<0,2
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Preferably with solenoid coil upwards
	Weight (g) with solenoid coil MG series	630
	Weight (g) with solenoid coil MK series	710

F3119W - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8" and 1/2"


CODE "W" = PTFE seals	G connection (ISO 228) ⊕ = Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3119⊕W12/1	3/8"	/	12	2	2,5	10	10	20	15	10	MG	30	-10 ... +180
F3119⊕W12/1	/	1/2"	12	2,2	2,5	10	10						

Example: F3119CW12/1⊕ => F3119CW12/1MG5:

2-way solenoid valve normally closed, servo-assisted piston for use with steam with G connection (ISO 228) 3/8", PTFE seals, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- Brass body and cover
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- AISI 303 stainless steel piston
- PTFE piston seal
- PTFE sealing assemblies

OPTIONS (on request):

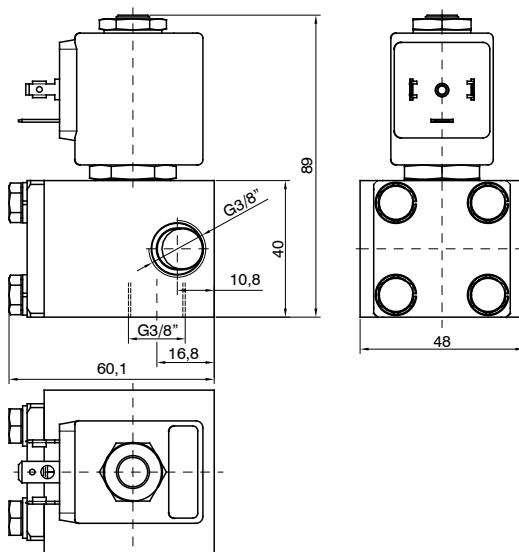
- Chemical nickel plating surface treatment
- certified solenoid coils

Technical characteristics

Minimum differential pressure (bar)	2,5
Maximum admitted leakage (Nl/h)	<0,2
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Preferably with solenoid coil upwards
Weight (g)	630



F3123 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8"

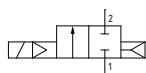


CODE "W" = PTFE seals	G connection (ISO 228) ⊙ = Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	C			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3123⊙W07⊕	3/8"	7	14	0,7	100	80	20	15	10	MG	30	-10 ... +95
					150	150	40	30	27	MK	36	

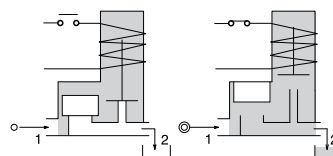
Example: F3123⊙W07⊕ => F3123CW07MG5:

2-way solenoid valve normally closed, servo-assisted piston with G connection (ISO 228) 3/8", main seals in PTFE other in FPM, 7 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram



Construction characteristics

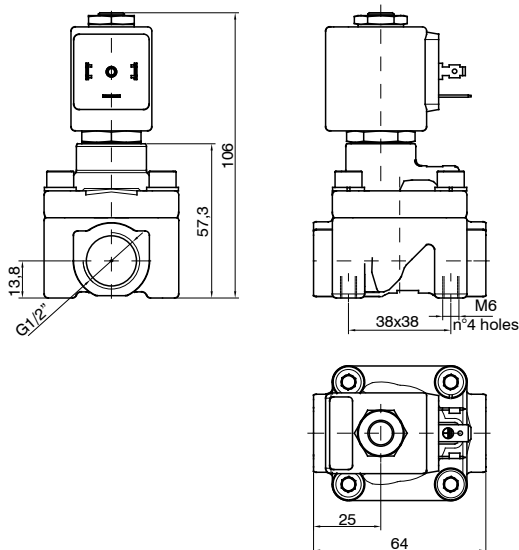
- Brass body and cover
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- AISI 303 stainless steel piston
- Sealing assemblies mainly PTFE, others FPM

OPTIONS (on request):

- Chemical nickel plating
- certified solenoid coils

Technical characteristics

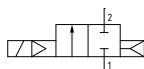
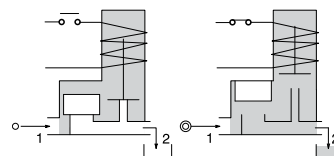
Maximum admitted pressure (bar)	200
Maximum fluid viscosity (mm²/s)	12cSt
Minimum differential pressure (bar)	0,7
Maximum admitted leakage (Nl/h)	<0,2
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Preferably with solenoid coil upwards

F3124 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1/2"


CODE "W" = PTFE seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)
	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3124⊕W12⊕	1/2"	12	60	3	AC	DC	20	15	10	MG	30	-10 ... +95

Example: F3124⊕W12⊕ => F3124DW12MG5:

2-way solenoid valve normally closed, servo-assisted piston with G connection (ISO 228) 1/2", main seals in PTFE other in FPM, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram

Construction characteristics

- Brass body and cover
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- PBT piston
- Sealing assemblies mainly PTFE, others FPM

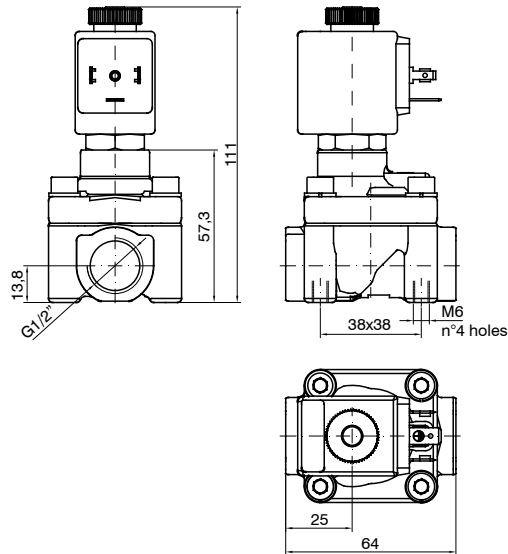
OPTIONS (on request):

- Chemical nickel plating
- UL certified solenoid coils

Technical characteristics

Maximum admitted pressure (bar)	150
Maximum fluid viscosity (mm²/s)	12cSt
Minimum differential pressure (bar)	3
Maximum admitted leakage (Nl/h)	<0,2
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Preferably with solenoid coil upwards

F3224 - 2-way solenoid valve N.O. brass body and cover, with G connection (ISO 228) - 1/2"

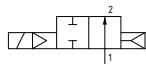


CODE "W" = PTFE seals	G connection (ISO 228) ⊙ = Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊗ = Solenoid coil		Temperature range (°C)
	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3224⊙W12⊗	1/2"	12	60	3	50	50	20	15	10	MG	30	-10 ... +95

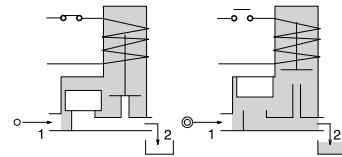
Example: F3224⊙W12⊗ => F3224DW12MG5:

2-way solenoid valve normally open, servo-assisted piston with G connection (ISO 228) 1/2", main seals in PTFE other in FPM, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol



Diagram

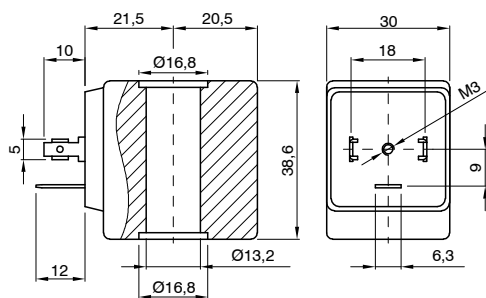


Construction characteristics	Technical characteristics	
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - PBT piston - Sealing assemblies mainly PTFE, others FPM OPTIONS (on request): - Chemical nickel plating - certified solenoid coils	Maximum admitted pressure (bar)	100
	Maximum fluid viscosity (mm²/s)	12cSt
	Minimum differential pressure (bar)	3
	Maximum admitted leakage (Nl/h)	<0,2
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Preferably with solenoid coil upwards

Solenoid coil 30 mm Ø13, type MG

Options:

- Electrical connection via cables
- Special voltages and powers
- Self-extinguish


Ordering code
MG
VOLTAGE

- 4 = 12 VDC
- 5 = 24 VDC
- 56 = 24 VAC (50-60 Hz)
- 57 = 110 VAC (50-60 Hz)
- 58 = 230 VAC (50-60 Hz)

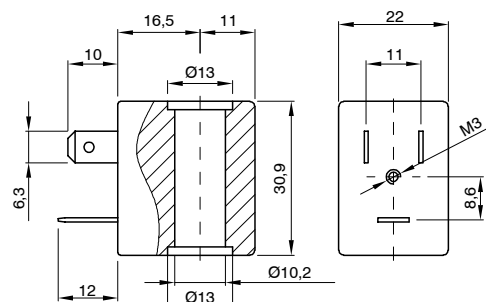

Operational characteristics

Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Connector	Power		Weight (g)
							AC (VA)	DC (W)	
F	-10% ... +15%	±10%	IP65	ED100%	DIN 43650 A	Code: 300.11.00	15	10	120

Solenoid coil 22 mm Ø10, type MI

Options:

- Electrical connection via cables
- Special voltages and powers
- Self-extinguish


Ordering code
MI
VOLTAGE

- 4 = 12 VDC
- 5 = 24 VDC
- 21 = 48-50 VAC (50-60 Hz)
- 56 = 24 VAC (50-60 Hz)
- 57 = 110 VAC (50-60 Hz)
- 58 = 230 VAC (50-60 Hz)

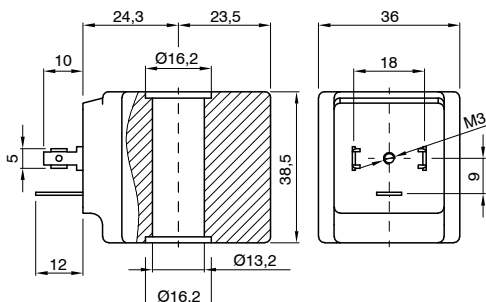

Operational characteristics

Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Connector	Power		Weight (g)
							AC (VA)	DC (W)	
F	-10% ... +15%	±10%	IP65	ED100%	DIN 43650 B	Code: 305.11.00	8	6.5	50

Solenoid coil 36 mm Ø13, type MK

Options:

- Electrical connection via cables
- Special voltages and powers
- Self-extinguish


Ordering code
MK
VOLTAGE

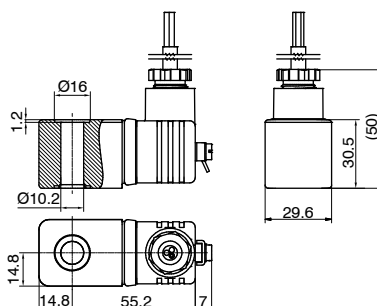
- 4 = 12 VDC
- 5 = 24 VDC
- 56 = 24 VAC (50-60 Hz)
- 57 = 110 VAC (50-60 Hz)
- 58 = 230 VAC (50-60 Hz)


Operational characteristics

Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Connector	Power		Weight (g)
							AC (VA)	DC (W)	
H	-10% ... +15%	±10%	IP65	ED100%	DIN 43650 A	Code: 300.11.00	30	27	200

Solenoid coil 30 mm Ø10, type XME


CE II 2 G Ex mb IIC T4 Gb
 CE II 2 D Ex mb IIIC T135°C Db IP65


Ordering code
XME-3
VOLTAGE

- 5 = 24 VDC
- 56 = 24 VAC (50-60 Hz)
- 57 = 110 VAC (50-60 Hz)
- 58 = 230 VAC (50-60 Hz)


Operational characteristics

Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Power		Weight (g)
						AC (VA)	DC (W)	
H	-10% ... +15%	±10%	IP65	ED100%	3 m cable	5.3	5.4	325



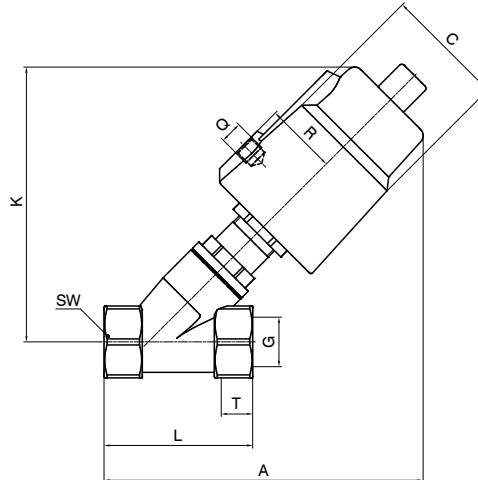
Series PVF

Angle seat valves with AISI 316 or 304 stainless steel body.

2-way angle seat valve. Threaded ports (Designed to prevent water hammer) - 1/4" ... 3"



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T°230 Db X
-10°C ≤ Ta ≤ +80°C



Ordering code	
PVF A F T M	
ACTUATOR	
40= Ø40 mm (only for size Ø8, Ø10, Ø15)	
50= Ø50 mm (only for size Ø8, Ø10, Ø15, Ø20, Ø25)	
63= Ø63 mm (only for size Ø25, Ø32, Ø40, Ø50)	
90= Ø90 mm (only for size Ø32, Ø40, Ø50)	
125A= Ø125 mm (only for size Ø65, Ø80)	
FUNCTION	
0= N.A.	
1= N.C.	
ORIFICE SIZE (MM)	
08= Ø8 (only for actuator Ø40 and Ø50 mm)	
10= Ø10 (only for actuator Ø40 and Ø50 mm)	
15= Ø15 (only for actuator Ø40 and Ø50 mm)	
20= Ø20 (only for actuator Ø50 mm)	
25= Ø25 (only for actuator Ø50 and Ø63 mm)	
32= Ø32 (only for actuator Ø63 and Ø90 mm)	
40= Ø40 (only for actuator Ø63 and Ø90 mm)	
50= Ø50 (only for actuator Ø63 and Ø90 mm)	
65= Ø65 (only for actuator Ø125A mm)	
80= Ø80 (only for actuator Ø125A mm)	
MATERIAL	
304= AISI 304	
316= AISI 316	

Table of dimensions

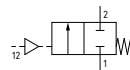
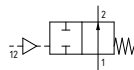
CODE	G	Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	T (mm)	A (mm)	L (mm)	SW (mm)
PVF40 08-M	1/4"	40	50,5	27	112	12	124	68	27	
PVF50 08-M		50	60	33	125		135			
PVF40 10-M	3/8"	40	50,5	27	112		124			
PVF50 10-M		50	60	33	125		135			
PVF40 15-M	1/2"	40	50,5	27	111	15	119	90	40	
PVF50 15-M		50	60	33	124		131			
PVF50 20-M	3/4"	50	60	33	132		16			
PVF50 25-M					136		145			
PVF63 25-M	1"	63	75	41	162	17	169	116	56	
PVF63 32-M					174		187			
PVF90 32-M	1-1/4"	90	106	55	223		235			
PVF63 40-M		63	75	41	175		187			
PVF90 40-M	1-1/2"	90	106	55	223	21	235	138	69	
PVF63 50-M		63	75	41	183		201			
PVF90 50-M	2"	90	106	55	232		250			
PVF125A 65-M		125*	148	74	302	1/4"	26	320	178	85
PVF125A 80-M	3"				313		27	372	210	100

* = aluminium

Technical data (N.O. - N.C. versions)

CODE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40F08-M	2,2	16	13	3 ... 5	4 ... 8
PVF50F08-M			14	3 ... 4	4,5 ... 8
PVF40F10-M	3,9		13	3 ... 5	4 ... 8
PVF50F10-M			14	3 ... 4	4,5 ... 8
PVF40F15-M	4,3		13	3 ... 5	4 ... 8
PVF50F15-M			14	3 ... 4	4,5 ... 8
PVF50F20-M	7,6	8	3 ... 6	5 ... 8	
PVF50F25-M	15,8				13
PVF63F25-M		16	13		3 ... 5
PVF63F32-M	26	13	6		3 ... 6
PVF90F32-M		/	16	/	6 ... 8
PVF63F40-M	32	7	5	3 ... 6	5 ... 8
PVF90F40-M		16	16	3 ... 4	6 ... 8
PVF63F50-M	52	5	2	3 ... 6	5 ... 8
PVF90F50-M		12	10		6 ... 8
PVF125AF65-M	83,2	14	9	3 ... 7	5,5 ... 8
PVF125AF80-M	119	12	5		5,5 ... 10

Pneumatic symbol



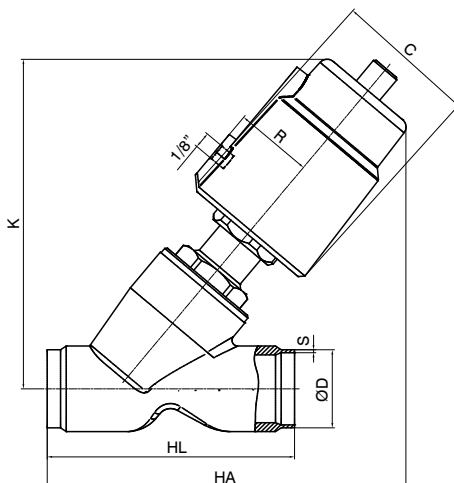
Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request - Connection type: GAS ISO / NPT	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... + 180 °C - Ambient temperature: -10 °C ... + 80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM - Fluid: dry or lubricated air, gases and neutral fluids, water and steam	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C



2-way angle seat valve. Welded connection (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C



Ordering code

PVFAFTL-M

ACTUATOR

40= Ø40 mm (only for size Ø15)
A 50= Ø50 mm (only for size Ø15, Ø20, Ø25)
63= Ø63 mm (only for size Ø25, Ø32, Ø40, Ø50)
90= Ø90 mm (only for size Ø32, Ø40, Ø50)

FUNCTION

F 0= N.A.
1= N.C.

ORIFICE SIZE (MM)

15= Ø15 (only for actuator Ø40 and Ø50 mm)
20= Ø20 (only for actuator Ø50 mm)
T 25= Ø25 (only for actuator Ø50 and Ø63 mm)
32= Ø32 (only for actuator Ø63 and Ø90 mm)
40= Ø40 (only for actuator Ø63 and Ø90 mm)
50= Ø50 (only for actuator Ø63 and Ø90 mm)

NORMATIVE

L H= DIN11850-2
I= DIN11850-3

MATERIAL

M A= AISI 304
B= AISI 316

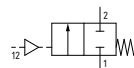
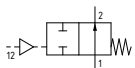
Table of dimensions

CODE	Actuator (mm)	C (mm)	R (mm)	K (mm)	HA (mm)	HL (mm)	DIN11850-2		DIN11850-3	
							D	S	D	S
PVF40F15L-M	40	50,5	27	112	118	70	19		20	
PVF50F15L-M	50			125	128	70	19		20	
PVF50F20L-M		60	33	132	135	82	23		24	
PVF50F25L-M	50			136	150	100	29		30	
PVF63F25L-M		75	41	162	175					
PVF63F32L-M	63			174	186	125	35	1,5	36	2
PVF90F32L-M	90	106	55	223	232					
PVF63F40L-M	63	75	41	175	190	130	41		42	
PVF90F40L-M	90	106	55	223	235					
PVF63F50L-M	63	75	41	183	206	155	53		54	
PVF90F50L-M	90	106	55	232	250					

Technical data (N.O. - N.C. versions)

CODE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40F15L-M			13	3 ... 5	4 ... 8
PVF50F15L-M	4,3	16	14	3 ... 4	
PVF50F20L-M	7,6		8	3 ... 6	4,5 ... 8
PVF50F25L-M		13			
PVF63F25L-M	15,8	16	13	3 ... 5	5 ... 8
PVF63F32L-M		13	6	3 ... 6	
PVF90F32L-M	26	/	16	/	6 ... 8
PVF63F40L-M		7	5	3 ... 6	5 ... 8
PVF90F40L-M	32	16	16	3 ... 4	6 ... 8
PVF63F50L-M		5	2	3 ... 6	5 ... 8
PVF90F50L-M	52	12	10		6 ... 8

Pneumatic symbol



Construction characteristics

- High flow rate thanks to body configuration with inclined seating
- Anti water hammer functioning with input below poppet
- Pneumatically operated valve with stainless steel body, resistant to ambient corrosion
- Self-levelling poppet to ensure improved sealing
- Optical position indicator
- Self-adjusting maintenance free stuffer seals package
- Valves may be mounted in all positions

OPTIONS (on request):

- Double acting versions are available on request

Technical characteristics (Valve body)

- Material: AISI 316/304 stainless steel
- Fluid temperature: -10 °C ... +180 °C
- Ambient temperature: -10 °C ... +80 °C
- Fluid viscosity: max. 600cSt.
- Poppet: PTFE
- Seals package: PTFE and FKM
- Fluid: dry or lubricated air, gases and neutral fluids, water and steam

Technical characteristics (Actuator)

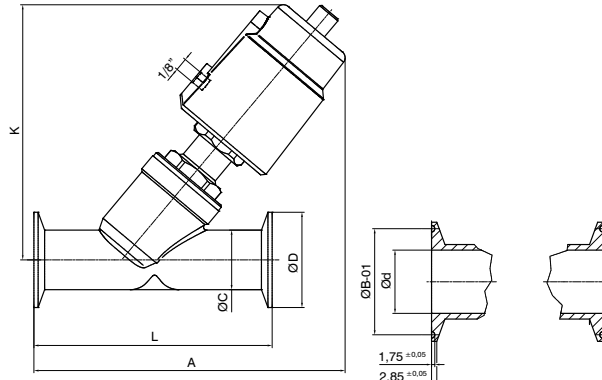
- Body: AISI 304
- Pilot fluid: dry or lubricated air, gas and neutral fluids
- Fluid temperature: max. +60 °C



2-way angle seat valve. Clamp ISO 2852 (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T°230 Db X
-10°C ≤ Ta ≤ +80°C



Ordering code

PVFA**F**TK-M

ACTUATOR

40= Ø40 mm (only for size Ø15)
A 50= Ø50 mm (only for size Ø15, Ø20, Ø25)
63= Ø63 mm (only for size Ø25, Ø32, Ø40, Ø50)
90= Ø90 mm (only for size Ø32, Ø40, Ø50)

FUNCTION

F 0= N.A.

1= N.C.

ORIFICE SIZE (MM)

15= Ø15 (only for actuator Ø40 and Ø50 mm)
20= Ø20 (only for actuator Ø50 mm)
T 25= Ø25 (only for actuator Ø50 and Ø63 mm)
32= Ø32 (only for actuator Ø63 and Ø90 mm)
40= Ø40 (only for actuator Ø63 and Ø90 mm)
50= Ø50 (only for actuator Ø63 and Ø90 mm)

MATERIAL

M A= AISI 304

B= AISI 316

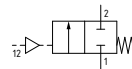
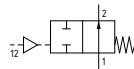
Table of dimensions

CODE	Actuator (mm)	A (mm)	K (mm)	L (mm)	C (mm)	B (mm)	Ød	ØD
PVF40 F 15K-M	40	130	115	80	19	27,5	15	34
PVF50 F 15K-M	50	140	126					
PVF50 F 20K-M		158	148	130	25	43,5	19	50,5
PVF50 F 25K-M	63	165	140					
PVF63 F 25K-M		188	166	146	32	56,5	27	64
PVF63 F 32K-M	90	200	174					
PVF90 F 32K-M		245	223	160	37	53	31	64
PVF63 F 40K-M	63	210	175					
PVF90 F 40K-M	90	255	223	175	40	53	33	64
PVF63 F 50K-M	63	221	185					
PVF90 F 50K-M	90	265	235					

Technical data (N.O. - N.C. versions)

CODE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40 F 15K- M	4,3	16	13	3 ... 5	4 ... 8
PVF50 F 15K- M			14	3 ... 4	4,5 ... 8
PVF50 F 20K- M	7,6	13	8	3 ... 6	
PVF50 F 25K- M	15,8		16	13	3 ... 5
PVF63 F 25K- M		13	6	3 ... 6	
PVF63 F 32K- M	26	/	16	/	6 ... 8
PVF90 F 32K- M		7	5	3 ... 6	5 ... 8
PVF63 F 40K- M	32	16	16	3 ... 4	6 ... 8
PVF90 F 40K- M		5	3	3 ... 6	5 ... 8
PVF63 F 50K- M	52	12	10		6 ... 8

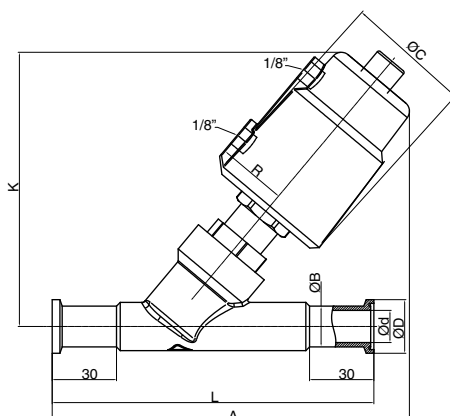
Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM - Fluid: dry or lubricated air, gases and neutral fluids, water and steam	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C

2-way angle seat valve ASME - BPE (Designed to prevent water hammer)


II 2G Ex h IIC T4..T2 Gb X
 II 2D Ex h IIC T130°C..T*230 Db X
 -10°C ≤ Ta ≤ +80°C


Ordering code
PVFA6TJ-M

ACTUATOR
 40= Ø40 mm (only for size Ø15)
A 50= Ø50 mm (only for size Ø15, Ø20, Ø25)
 63= Ø63 mm (only for size Ø25, Ø40, Ø50)
 90= Ø90 mm (only for size Ø40, Ø50)

FUNCTION

F 0= N.A.
 1= N.C.

ORIFICE SIZE (MM)

15= Ø15 (only for actuator Ø40 e Ø50 mm)
T 20= Ø20 (only for actuator Ø50 mm)
 25= Ø25 (only for actuator Ø50 e Ø63 mm)
 40= Ø40 (only for actuator Ø63 e Ø90 mm)
 50= Ø50 (only for actuator Ø63 e Ø90 mm)

MATERIAL

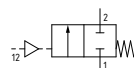
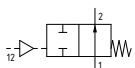
M A= AISI 304
 B= AISI 316

Table of dimensions

CODE	Actuator (mm)	C (mm)	R (mm)	K (mm)	A (mm)	L (mm)	ASME - BPE			
							ØD (mm)	ØB (mm)	Ød (mm)	
PVF40 ¹ 15J-M	40	50.5	27	127	158	130	25	12,7	9,4	
PVF50 ¹ 15J-M	50	60	33	140	169					
PVF50 ¹ 20J-M				138	172	150		160	19,05	15,75
PVF50 ¹ 25J-M				146	180					
PVF63 ¹ 25J-M	63	75	41	169	205	200	50,5	25,4	22,1	
PVF63 ¹ 40J-M				177	225					
PVF90 ¹ 40J-M				90	106	55		225	267	38,1
PVF63 ¹ 50J-M	63	75	41	187	238	230		64	50,8	
PVF90 ¹ 50J-M	90	106	55	235	280					

Technical data (N.O. - N.C. versions)

Technical data (N.O.)		N.C. (Version)		Pilot pressure (bar)	
CODICE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40015J-M	1,7	16	13	3 ... 5	4 ... 8
PVF50015J-M			14	3 ... 4	4,5 ... 8
PVF50020J-M	5,8	13	8	3 ... 6	
PVF50025J-M	11,8		16	13	3 ... 5
PVF63025J-M	20,6	7	5	3 ... 6	
PVF90040J-M		16	16	3 ... 4	6 ... 8
PVF63050J-M	55,7	5	2	3 ... 6	5 ... 8
PVF90050J-M		12	10		6 ... 8

Pneumatic symbol


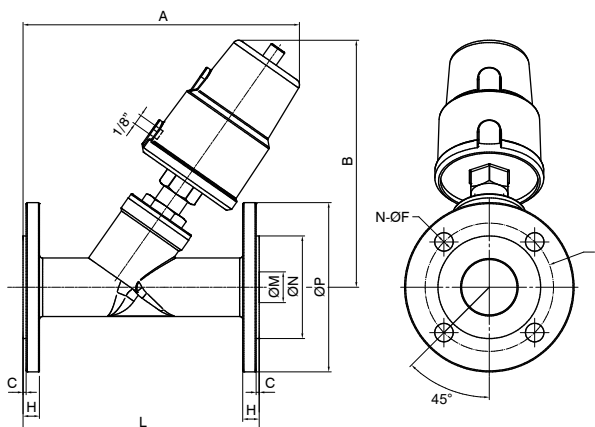
Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM - Fluid: dry or lubricated air, gases and neutral fluids, water and steam	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C



2-way angle seat valve. Flange mounting (Designed to prevent water hammer)



II 2G Ex h IIC T4..T2 Gb X
II 2D Ex h IIC T130°C..T*230 Db X
-10°C ≤ Ta ≤ +80°C



Ordering code

PVFACTF-M

ACTUATOR
40= Ø40 mm (only for size Ø15)
A 50= Ø50 mm (only for size Ø15, Ø20, Ø25)
63= Ø63 mm (only for size Ø25, Ø32, Ø40, Ø50)
90= Ø90 mm (only for size Ø32, Ø40, Ø50)
FUNCTION
F 0= N.A.
1= N.C.
ORIFICE SIZE (MM)
15= Ø15 (only for actuator Ø40 and Ø50 mm)
20= Ø20 (only for actuator Ø50 mm)
T 25= Ø25 (only for actuator Ø50 and Ø63 mm)
32= Ø32 (only for actuator Ø63 and Ø90 mm)
40= Ø40 (only for actuator Ø63 and Ø90 mm)
50= Ø50 (only for actuator Ø63 and Ø90 mm)
MATERIAL
M A= AISI 304
B= AISI 316

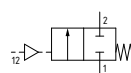
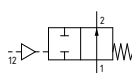
Table of dimensions

CODE	Actuator (mm)	A (mm)	B (mm)	L (mm)	C (mm)	H (mm)	OE	N-OF	OM	ON	OP
PVF40-15F-M	40	135	125	130	2	14	65	4-14	16	45	95
PVF50-15F-M	50	145	140				150		75	19	56
PVF50-20F-M		165		160					85	26	65
PVF50-25F-M		63	170	145		180	16	100	31	78	140
PVF63-25F-M	190		175	110				38	84	150	
PVF63-32F-M	63	188	180	3		125		4-18	49	100	165
PVF90-32F-M	90	230	235		200						
PVF63-40F-M	63	206	190				230				
PVF90-40F-M	90	250	240		230						
PVF63-50F-M	63	235	195	230							
PVF90-50F-M	90	277	245		230						

Technical data (N.O. - N.C. versions)

CODICE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40-15F-M	4,3	16	13	3 ... 5	4 ... 8
PVF50-15F-M			14	3 ... 4	
PVF50-20F-M	7,6		8	3 ... 6	4,5 ... 8
PVF50-25F-M	15,8	13			
PVF63-25F-M		16	13	3 ... 5	5 ... 8
PVF63-32F-M	26	13	6	3 ... 6	
PVF90-32F-M		/	16	/	6 ... 8
PVF63-40F-M	32	7	5	3 ... 6	5 ... 8
PVF90-40F-M		16	16	3 ... 4	6 ... 8
PVF63-50F-M	52	5	2		5 ... 8
PVF90-50F-M		12	10	3 ... 6	6 ... 8

Pneumatic symbol

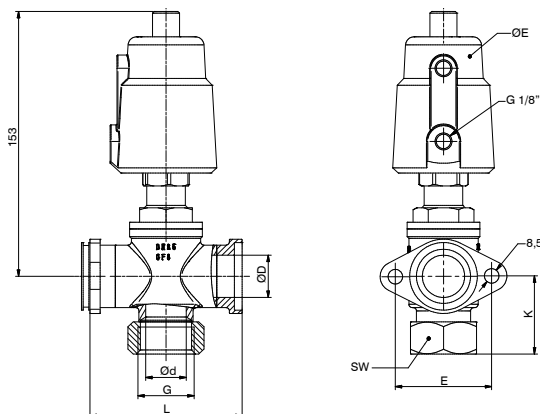


Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Actuator)
- High flow rate thanks to body configuration with inclined seating - Anti water hammer functioning with input below poppet - Pneumatically operated valve with stainless steel body, resistant to ambient corrosion - Self-levelling poppet to ensure improved sealing - Optical position indicator - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions OPTIONS (on request): - Double acting versions are available on request	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM - Fluid: dry or lubricated air, gases and neutral fluids, water and steam	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids - Fluid temperature: max. +60 °C

2 ways multi channel valve G1/2" -G1"



II 2G Ex h IIC T4..T2 Gb X
 II 2D Ex h IIIC T130°C..T*230 Db X
 -10°C ≤ Ta ≤ +80°C



Ordering code

PVF50VTT-M

VERSION

- V 1 = single acting normally closed
- 2 = double acting normally closed

ORIFICE SIZE (MM)

- T 15 = Ø15
- 25 = Ø25

MATERIAL

- M A = AISI 304
- B = AISI 316

Actuator Ø50

Table of dimensions

CODE	Actuator (mm)	G	K	L	ØD	Ød	SW	ØE
PVF50V15T-M	50	1/2"	35	76	25	18	27	50
PVF50V25T-M		1"	46	90	32	24	39	57

Technical data

CODE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		DE	SE	DE	SE
PVF50V15T-M	8,1	16	14	3 ... 5	4,5 ... 8
PVF50V25T-M	14,8	13	8	3 ... 7	4,5 ... 8

Pneumatic symbol



Construction characteristics

- Anti water hammer functioning with input below poppet
- Pneumatically operated valve with stainless steel body, resistant to ambient corrosion
- Self-levelling poppet to ensure improved sealing
- Optical position indicator
- Self-adjusting maintenance free stuffer seals package
- Valves may be mounted in all positions

OPTIONS (on request):

- Double acting versions are available on request

Technical characteristics (Valve body)

- Material: AISI 316/304 stainless steel
- Fluid temperature: -10 °C ... +180 °C
- Ambient temperature: -10 °C ... +80 °C
- Fluid viscosity: max. 600cSt.
- Poppet: PTFE
- Seals package: PTFE and FKM
- Fluid: dry or lubricated air, gases and neutral fluids, water and steam

Closed flange kit (A)



Kit includes:
 Nr. 1 flange, 2 Screw, 2 Nuts, 2 Washers (AISI 304)
 Nr. 1 OR (EPDM)

Ordering code

PVFT-0001

SIZE
T 15 = Ø15
25 = Ø25

Closed flange kit (B)



Kit includes:
 Nr. 1 flange, 2 Screw, 2 Nuts, 2 Washers (AISI 304)
 Nr. 1 OR (EPDM)

Ordering code

PVFT-0003

SIZE
T 15 = Ø15
25 = Ø25

Open flange kit (A)



Kit includes:
 Nr. 1 flange, 2 Screw, 2 Nuts, 2 Washers (AISI 304)
 Nr. 1 OR (EPDM)

Ordering code

PVFT-0002

SIZE
T 15 = Ø15
25 = Ø25

Open flange kit (B)



Kit includes:
 Nr. 1 flange, 2 Screw, 2 Nuts, 2 Washers (AISI 304)
 Nr. 1 OR (EPDM)

Ordering code

PVFT-0004

SIZE
T 15 = Ø15
25 = Ø25

Valve joint kit (C)

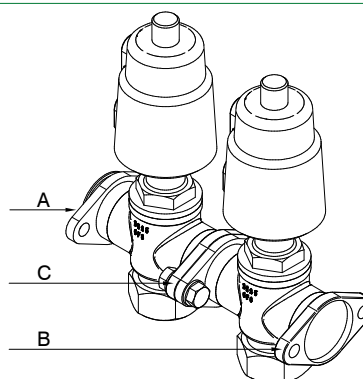


Kit includes:
 Nr. 2 Screw, 2 Nuts, 2 Washers (AISI 304)
 Nr. 1 OR (EPDM)

Ordering code

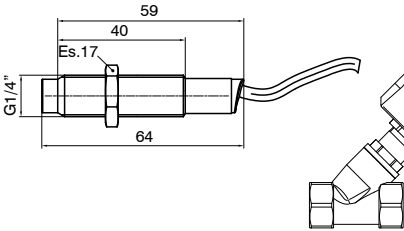
PVFT-0005

SIZE
T 15 = Ø15
25 = Ø25





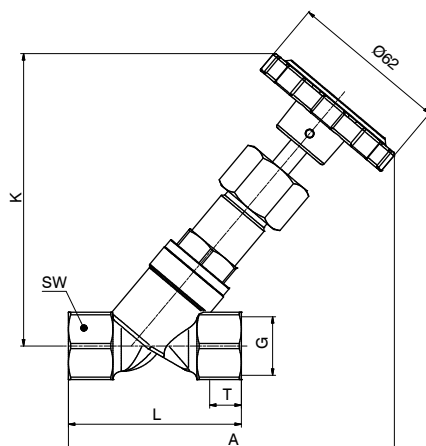
Proximity sensor



Nickel brass sensor, usable on valves up to size 2 inches
for detection ON - OFF
Cable: 2 m
OPTIONS (on request):
A reduction is available for sizes 2 1/2" and 3".

Ordering code	
PVF.1.S	
OUTPUT TYPE	
01 = NPN (N.C.)	
1 02 = NPN (N.O.)	
03 = PNP (N.C.)	
04 = PNP (N.O.)	

Operational characteristics					
Maximum current (mA)	Voltage field (VDC)	Temperature (°C)	Detection distance	IP Rating	Weight (g)
100	10 ... 30	-10 ... +70	3 mm (max) ±10%	IP67	69

2-way angle seat valve. Threaded ports - 1/4" ... 2"

Ordering code
PVFMN **V** **T** **M**

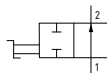
	VERSION
V	0= standard adjustment A=adjustable flow control
	ORIFICE SIZE (MM)
	08= Ø8
	10= Ø10
	15= Ø15
T	20= Ø20
	25= Ø25
	32= Ø32
	40= Ø40
	50= Ø50
	MATERIAL
M	304= AISI 304
	316= AISI 316

Table of dimensions

CODE	G	K (mm)	T (mm)	A (mm)	L (mm)	SW (mm)
PVFMN08-M	1/4"	115	12	128	68	27
PVFMN10-M	3/8"		15			
PVFMN15-M	1/2"					
PVFMN20-M	3/4"	120	16	133	75	32
PVFMN25-M	1"	125	17	142	90	40
PVFMN32-M	1-1/4"	146	21	166	116	50
PVFMN40-M	1-1/2"	148		168		56
PVFMN50-M	2"	155	22	182	138	69

Technical data

CODE	KV (m³/h)	Max. working pressure (bar)
PVFMN08-M	2,2	16
PVFMN10-M	3,9	
PVFMN15-M	4,3	
PVFMN20-M	7,6	
PVFMN25-M	15,8	
PVFMN32-M	26	
PVFMN40-M	32	
PVFMN50-M	52	

Pneumatic symbol

Construction characteristics

- High flow rate thanks to body configuration with inclined seating
- Manual valves with corrosion-resistant stainless steel body
- Adjustable flow control for better handling
- Self-adjusting maintenance free stuffer seals package
- Valves may be mounted in all positions

OPTIONS (on request):

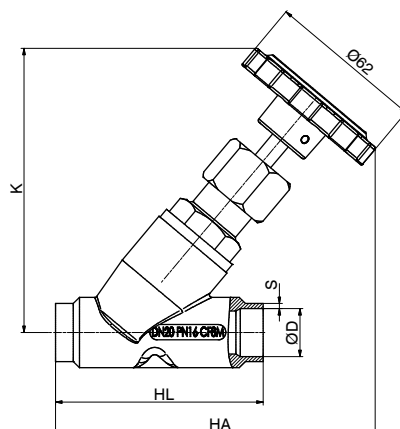
- Connections: GAS ISO / NPT

Technical characteristics (Valve body)

- Material: AISI 316/304 stainless steel
- Fluid temperature: -10 °C ... +180 °C
- Ambient temperature: -10 °C ... +80 °C
- Fluid viscosity: max. 600cSt.
- Poppet: PTFE
- Seals package: PTFE and FKM
- Fluid: dry or lubricated air, gases and neutral fluids, water and steam



2-way angle seat valve. Welded connection



Ordering code	
PVFMN $\text{\textcircled{V}}$ $\text{\textcircled{T}}$ $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	
VERSION	
$\text{\textcircled{V}}$ 0 = standard adjustment	
A = adjustable flow control	
ORIFICE SIZE (MM)	
15 = Ø15	
20 = Ø20	
$\text{\textcircled{T}}$ 25 = Ø25	
32 = Ø32	
40 = Ø40	
50 = Ø50	
STANDARD	
$\text{\textcircled{L}}$ H = DIN 11850-2	
I = DIN 11850-3	
MATERIAL	
$\text{\textcircled{M}}$ A = AISI 304	
B = AISI 316	

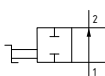
Table of dimensions

CODE	K (mm)	HA (mm)	HL (mm)	DIN 11850-2		DIN 11850-3	
				D	S	D	S
PVFMN $\text{\textcircled{V}}$ 15 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	115	120	70	19	1,5	20	2
PVFMN $\text{\textcircled{V}}$ 20 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	120	128	82	23		24	
PVFMN $\text{\textcircled{V}}$ 25 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	125	144	100	29		30	
PVFMN $\text{\textcircled{V}}$ 32 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	146	165	125	35		36	
PVFMN $\text{\textcircled{V}}$ 40 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	148	168	130	41		42	
PVFMN $\text{\textcircled{V}}$ 50 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	155	182	155	53		54	

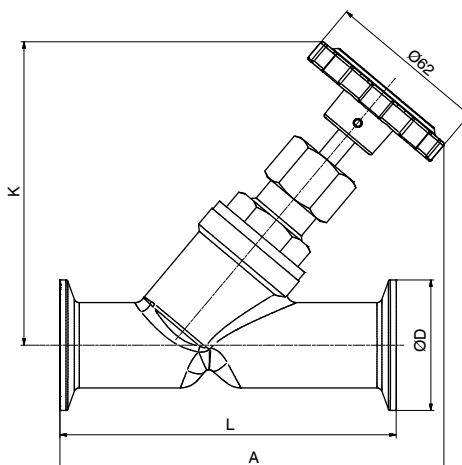
Technical data

CODE	KV (m³/h)	Max. working pressure (bar)
PVFMN $\text{\textcircled{V}}$ 15 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	4,3	16
PVFMN $\text{\textcircled{V}}$ 20 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	7,6	
PVFMN $\text{\textcircled{V}}$ 25 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	15,8	
PVFMN $\text{\textcircled{V}}$ 32 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	26	
PVFMN $\text{\textcircled{V}}$ 40 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	32	
PVFMN $\text{\textcircled{V}}$ 50 $\text{\textcircled{L}}$ $\text{\textcircled{M}}$	52	

Pneumatic symbol



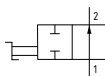
Construction characteristics	Technical characteristics (Valve body)
- High flow rate thanks to body configuration with inclined seating - Manual valves with corrosion-resistant stainless steel body - Adjustable flow control for better handling - Self-adjusting maintenance free stuffer seals package - Valves may be mounted in all positions	- Material: AISI 316/304 stainless steel - Fluid temperature: -10 °C ... +180 °C - Ambient temperature: -10 °C ... +80 °C - Fluid viscosity: max. 600cSt. - Poppet: PTFE - Seals package: PTFE and FKM - Fluid: dry or lubricated air, gases and neutral fluids, water and steam

2-way angle seat valve. Clamp ISO 2852

Table of dimensions

CODE	A (mm)	K (mm)	L (mm)	ØD
PVFMN ∇ 15K-M	132	113	80	34
PVFMN ∇ 20K-M	147	122	130	50,5
PVFMN ∇ 25K-M	156	126		
PVFMN ∇ 32K-M	174	142	146	64
PVFMN ∇ 40K-M	185	141	160	
PVFMN ∇ 50K-M	195	152	175	

Technical data

CODE	KV (m³/h)	Max. working pressure (bar)
PVFMN ∇ 15K-M	4,3	16
PVFMN ∇ 20K-M	7,6	
PVFMN ∇ 25K-M	15,8	
PVFMN ∇ 32K-M	26	
PVFMN ∇ 40K-M	32	
PVFMN ∇ 50K-M	52	

Pneumatic symbol

Ordering code
PVFMN ∇ T-K-M

	VERSION
∇	0= standard adjustment A=adjustable flow control
	ORIFICE SIZE (MM)
	15= Ø15
	20= Ø20
∇	25= Ø25
	32= Ø32
	40= Ø40
	50= Ø50
∇	A= AISI 304 B= AISI 316

Construction characteristics

- High flow rate thanks to body configuration with inclined seating
- Manual valves with corrosion-resistant stainless steel body
- Adjustable flow control for better handling
- Self-adjusting maintenance free stuffer seals package
- Valves may be mounted in all positions

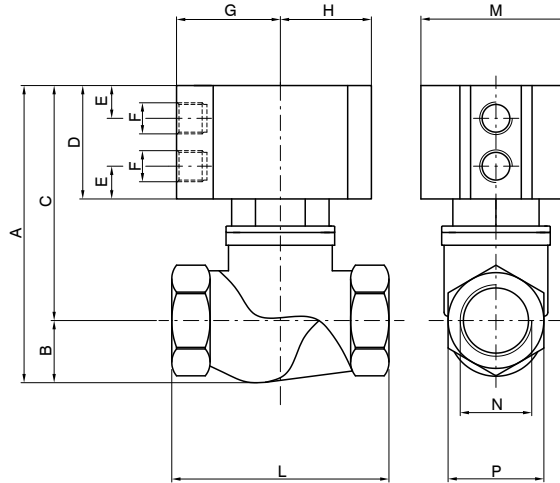
Technical characteristics (Valve body)

- Material: AISI 316/304 stainless steel
- Fluid temperature: -10 °C ... +180 °C
- Ambient temperature: -10 °C ... +80 °C
- Fluid viscosity: max. 600cSt.
- Poppet: PTFE
- Seals package: PTFE and FKM
- Fluid: dry or lubricated air, gases and neutral fluids, water and steam

Series PVA

Brass body angle seat valves and pad valve.

“T” body version pad valve



Ordering code

PVA.B.A.P.T.C.M

ACTING

DE= Double acting

SC= Normally closed

SA= Normally open

PISTON

N= Non magnetic

M= Magnetic

CONNECTIONS

A= G1/4"

B= G3/8"

C= G1/2"

D= G3/4"

E= G1"

F= G1 1/4"

G= G1 1/2"

H= G2"

SEALS

N= NBR

V= FPM

F= PTFE

Table of dimensions

Connection (N)	Non magnetic piston			Magnetic piston											
	A	C	D	A	C	D	B	E	F	G	H	L	M	P	
G1/4"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	
G3/8"	93,5	77,5	41	97,5	81,5	45	16	10,25		32,5	28,5	64	47	25	
G1/2"	93,5	78	41	99,5	82	45	17,5	10,25		32,5	28,5	68	47	30	
G3/4"	105	83	41	113	90	48	22	11,25		44	40	79	70	36	
G1"	117	89	41	125	101	53	28	11,25		44	40	94	70	44	
G1 1/4"	131	103	48	136	108	53	28	11,25		44	40	110	70	55	
G1 1/2"	154	118	57	166	130	69	36	13,75		56	49	120	90	60	
G2"	169	124	57	181	136	69	45	13,75		56	49	140	90	73	

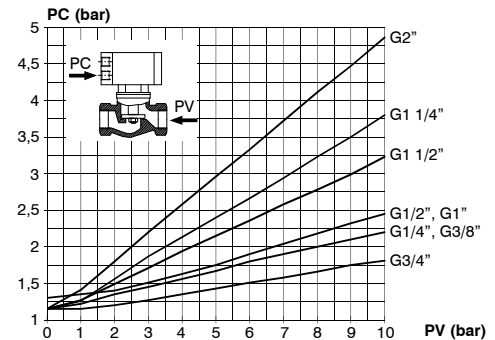
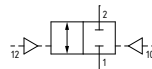
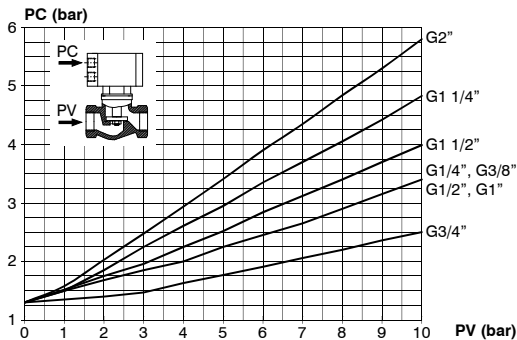
Technical data

Actuator (Ø)	Valve (Ø)	Weight (g)
40	13,5	350
40	13,5	350
40	15	400
63	20,5	850
63	25	1100
63	30	1400
80	38	2100
80	49,5	3000

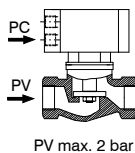
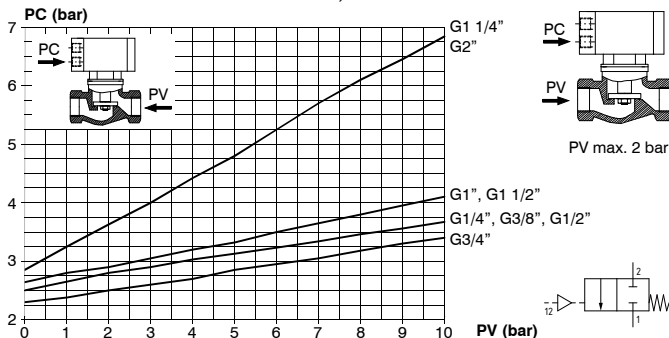
2-way valves, for interception of fluids, pneumatically actuated by a compact double or single acting cylinder with 360° swivel connections, NBR, FPM or PTFE seals in contact with the fluid. The barrel profile allows the use of magnetic sensors PNEUMAX code "1500_", "RS_", "RS_", "HS_", for sensor slot type "A" (see section 3, magnetic sensors series "SA" of the Pneumax General Catalogue).

Pressure curves

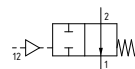
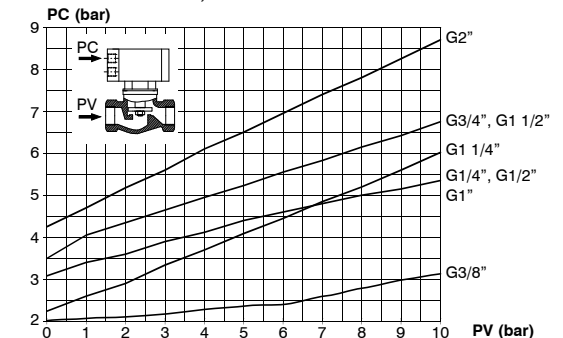
DOUBLE ACTING CYLINDER



SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE



SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE

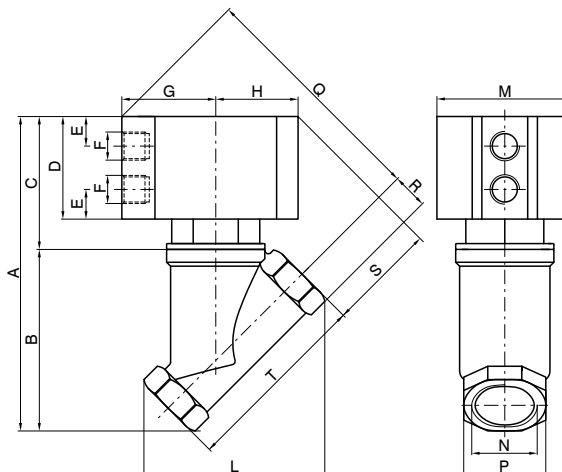


Construction characteristics

- Rear eye, piston and rod bushing: anodised aluminium
- Cylinder: aluminium alloy anodised
- Springs: zinc plated steel
- Seals in contact with fluid: NBR, FPM, PTFE
- Pneumatic cylinder seals: NBR, FPM, PTFE
- Piston rod: chromed stainless steel
- Bushing, bushing pad, nut pad: brass

Technical characteristics

Pneumatic cylinder fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Valve fluid	Compatible fluid with seals compounds available
Working pressure (Cylinder) (bar)	10
Temperature °C (Non magnetic piston, NBR seals)	-10 ... +70
Temperature °C (Non magnetic piston, FPM seals)	-10 ... +150
Temperature °C (Non magnetic piston, PTFE seals)	-10 ... +150
Temperature °C (Magnetic piston, NBR, FPM, PTFE seals)	-10 ... +70

"Y" body version pad valve

Ordering code
PVA.B.A.P.Y.C.M
ACTING

 A DE= Double acting
 SC= Normally closed
 SA= Normally open

PISTON

 N= Non magnetic
 M= Magnetic

CONNECTIONS

 A= G1/4"
 B= G3/8"
 C= G1/2"
 D= G3/4"
 E= G1"
 F= G1 1/4"
 G= G1 1/2"
 H= G2"

SEALS

 N= NBR
 V= FPM
 F= PTFE

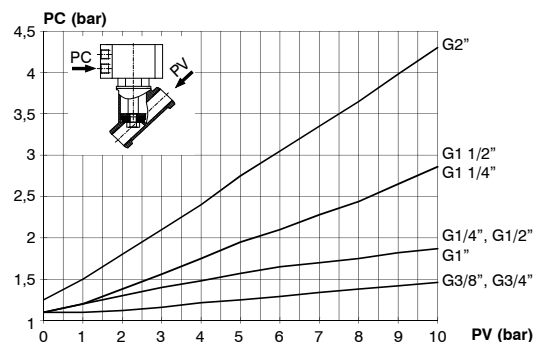
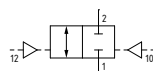
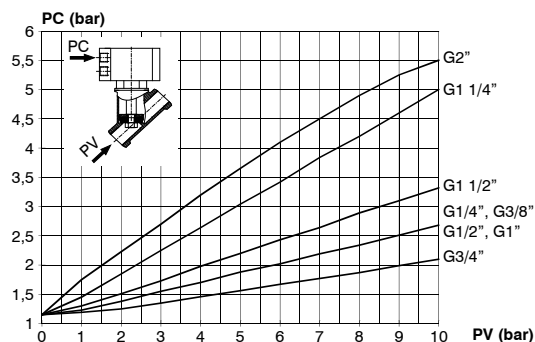
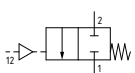
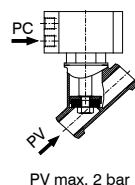
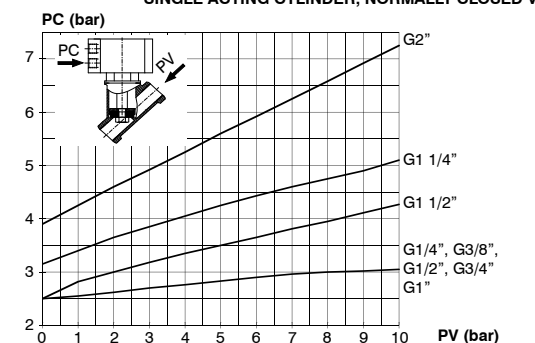
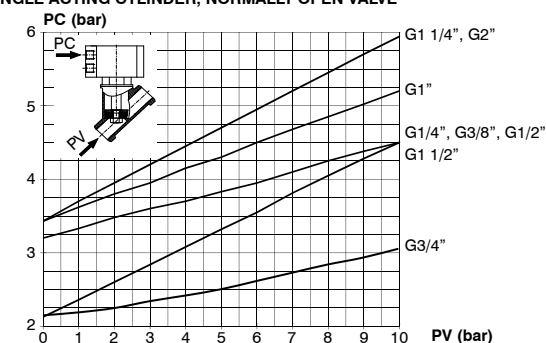
Table of dimensions

Connection (N)	Non magnetic piston					Magnetic piston														
	A	C	D	Q	S	A	C	D	Q	S	B	E	F	G	H	L	M	P	R	T
G1/4"	121	71	45	95	51	124	74	48	97	53	50	10,3	G1/8"	32,5	28,5	52	47	21	10,5	50
G3/8"	121	71	45	95	51	124	74	48	97	53	50	10,3		32,5	28,5	52	47	21	10,5	50
G1/2"	127	71	45	97	54	130	74	48	99	56	56	10,3		32,5	28,5	57	47	27	13,5	56
G3/4"	148	80	48	119	66	201	133	104	175	92	68	11,3		44	40	70	70	32	16	66
G1"	159	75	48	123	75	215	131	104	175	92	84	11,3		44	40	82	70	38	19	78
G1 1/4"	184	91	65	140	70	231	138	112	172	96	93	11,3		44	40	105	70	47	23,5	101
G1 1/2"	180	99	81	173	85	255	129	111	187	107	126	13,8		56	49	125	90	55	27,5	113
G2"	246	106	88	182	88	269	129	111	203	109	140	13,8		56	49	136	90	68	34	125

Technical data

Actuator (Ø)	Valve (Ø)	Weight (g)
40	13	350
40	13	350
40	13	400
63	18	850
63	21,5	850
63	30	1200
80	36	2000
80	46	2300

2-way valves, for interception of fluids, pneumatically actuated by a compact double or single acting cylinder with 360° swivel connections, NBR, FPM or PTFE seals in contact with the fluid. The barrel profile allows the use of magnetic sensors PNEUMAX code "1500_", "RS_...", "RS_...", "HS_...", for sensor slot type "A" (see section 3, magnetic sensors series "SA" of the Pneumax General Catalogue).

Pressure curves
DOUBLE ACTING CYLINDER

SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE

SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE

Construction characteristics

- Rear eye, piston and rod bushing: anodised aluminium
- Cylinder: aluminium alloy anodised
- Springs: zinc plated steel
- Seals in contact with fluid: NBR, FPM, PTFE
- Pneumatic cylinder seals: NBR, FPM, PTFE
- Piston rod: chromed stainless steel
- Bushing, bushing pad, nut pad: brass

Technical characteristics

Pneumatic cylinder fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Valve fluid	Compatible fluid with seals compounds available
Working pressure (Cylinder) (bar)	10
Temperature °C (Non magnetic piston, NBR seals)	-10 ... +70
Temperature °C (Non magnetic piston, FPM seals)	-10 ... +150
Temperature °C (Non magnetic piston, PTFE seals)	-10 ... +150
Temperature °C (Magnetic piston, NBR, FPM, PTFE seals)	-10 ... +70

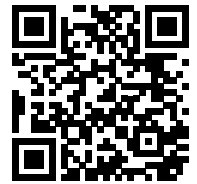


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