

Series F300

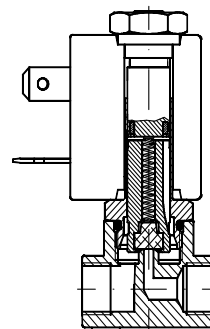
General

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

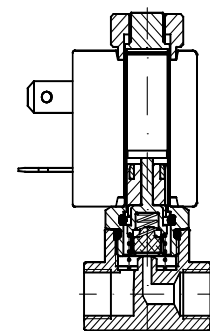
Solenoid valves direct action 2-ways: 2-way solenoid valves have an input connection and an output connection machined in the valve body, the orifice being intercepted by the poppet moved by the core tube.

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.



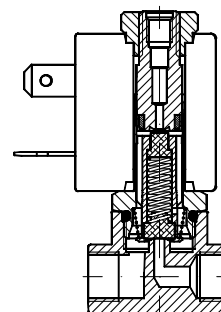
They can be **normally open (2/2 N.O.)**, in this case at rest the orifice remains open without electricity applied, the media reaches the intended use. When electricity is applied the input orifice closes.

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



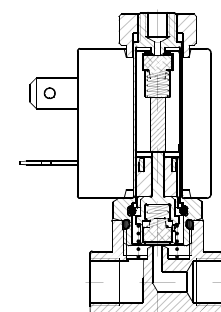
Solenoid valves direct action 3-way: 3-way solenoid valves have an input and an output connection in the valve body and an exhaust connection fitted in the stem of the core tube. The input and exhaust orifices are intercepted directly by the poppet fitted within the core tube.

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.

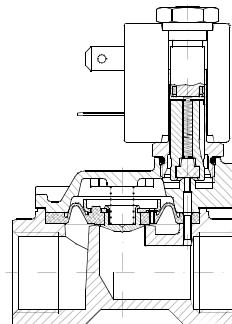




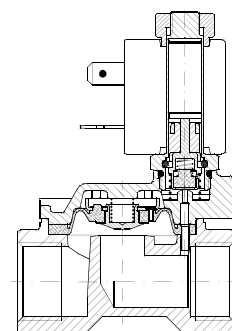
Servo-assisted solenoid valves

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 flow 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



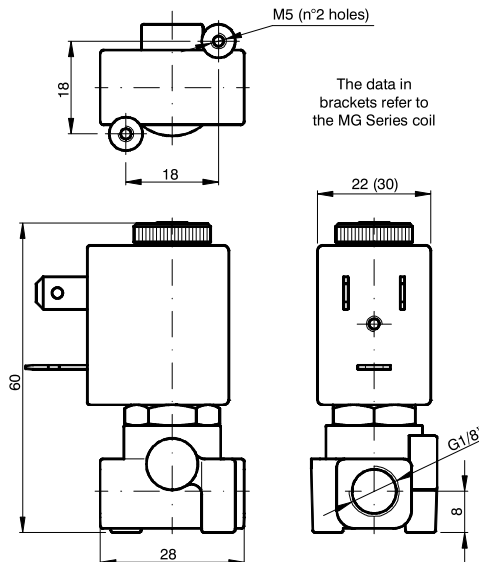
Resistance to fluids

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"



PNEUMAX FLUID CONTROL

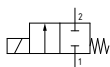
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series		Size
					AC	DC						
F3105⊕V12⊕	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	-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).

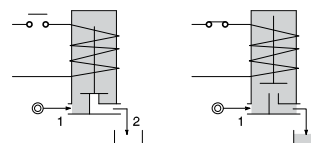
Example: F3105⊕V25⊕ => F3105AV25MI58:

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

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

OPTIONS (on request):

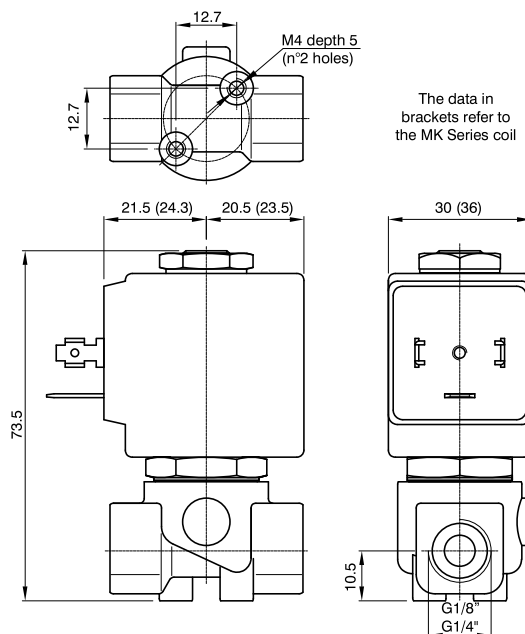
- Manual override
- Chemical nickel plating surface treatment
- Stainless steel guide tube
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

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	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"



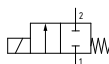
CODE “V” = FPM seals	G connection (ISO 228) ⊕ = Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption			⊕ = Solenoid coil		Temperature range (°C)	
	A	B			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series		Size
						AC	DC						
F3106⊕V10⊕	1/8"	1/4"	1	0,04	0	80	80	20	15	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	4	1,8									
F3106⊕V64⊕	/	6,4	3	1									
F3106⊕V10⊕	1/8"	1/4"	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	10	9							
F3106⊕V64⊕			/	6,4	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.

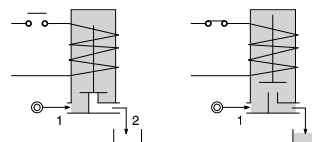
Example: F3106⊕V52⊕ => F3106BV52MG58:

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



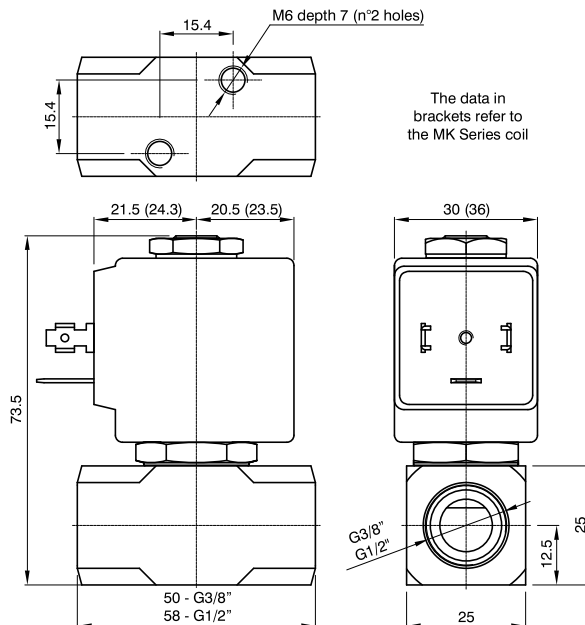
Diagram



Construction characteristics	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): - 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	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"



PNEUMAX FLUID CONTROL

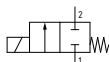
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption			⊕= Solenoid coil		Temperature range (°C)	
	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series		Size
						AC	DC						
F3106CV10⊕	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106CV12⊕			1,2	0,05		60	60						
F3106CV15⊕			1,5	0,07		30	26						
F3106CV20⊕			2	0,1		22	20						
F3106CV25⊕			2,5	0,15		16	14						
F3106CV30⊕			3	0,25		15	10						
F3106CV35⊕			3,5	0,32		10	8						
F3106CV40⊕			4	0,36		8	5						
F3106CV45⊕			4,5	0,41		6,5	3,5						
F3106CV52⊕			5,2	0,47		4	1,8						
F3106CV64⊕	6,4	0,64	3	1	40	30	27	MK	36				
F3106CV10⊕	1	0,04	100	100									
F3106CV12⊕	1,2	0,05	100	100									
F3106CV15⊕	1,5	0,07	80	80									
F3106CV20⊕	2	0,1	50	40									
F3106CV25⊕	2,5	0,15	35	33									
F3106CV30⊕	3	0,25	25	24									
F3106CV35⊕	3,5	0,32	20	19									
F3106CV40⊕	4	0,36	16	15									
F3106CV45⊕	4,5	0,41	14	13									
F3106CV52⊕	5,2	0,47	10	9									
F3106CV64⊕	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.

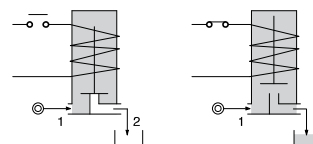
Example: F3106CV52⊕ => F3106DV52MK5:

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").

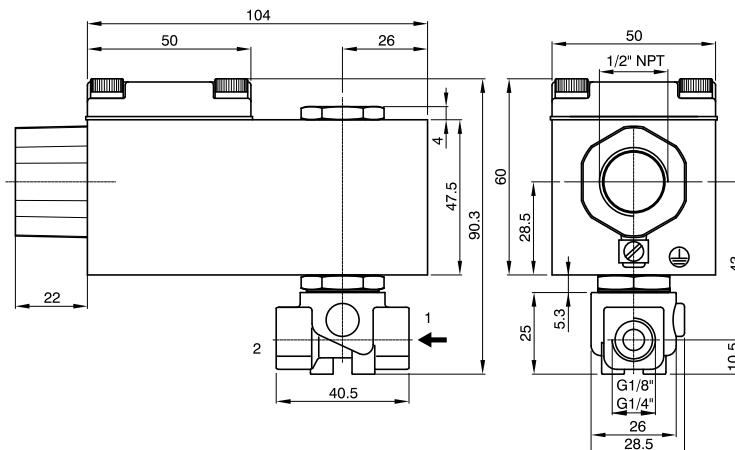
Pneumatic symbol



Diagram



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

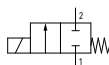
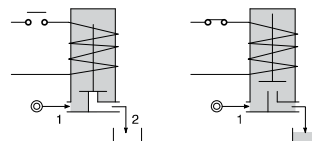
FX3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228)
with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/8" and 1/4"


CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕ = Solenoid coil	Temperature range (°C)	
	A	B			Min	Max		AC Holding (VA)			DC (W)
						AC	DC				
FX3106⊕V10⊕	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
FX3106⊕V12⊕			1,2	0,05		60	60				
FX3106⊕V15⊕			1,5	0,07		30	26				
FX3106⊕V20⊕			2	0,1		22	20				
FX3106⊕V25⊕			2,5	0,15		16	14				
FX3106⊕V30⊕			3	0,25		15	10				
FX3106⊕V35⊕			3,5	0,32		10	8				
FX3106⊕V40⊕			/	4		0,36	8				
FX3106⊕V45⊕	/	4,5	0,41	6,5	3,5	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		
FX3106⊕V52⊕	/	5,2	0,47	4	1,8						
FX3106⊕V64⊕	/	6,4	0,64	3	1						

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

Example: FX3106⊕V35⊕ => FX3106BV35A60:

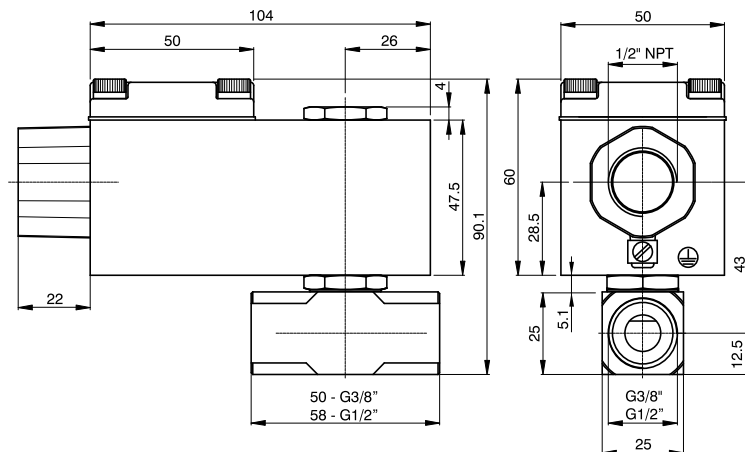
2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/4", FPM seals, 3,5 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram


Construction characteristics	Technical 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	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



**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 - 3/8 and "1/2"**



PNEUMAX FLUID CONTROL

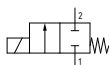
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕ = Solenoid coil	Temperature range (°C)	
	C	D			Min	Max	AC Holding (VA)	DC (W)			
						AC					DC
FX3106⊕V10⊕	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3106⊕V12⊕			1,2	0,05		60	60				
FX3106⊕V15⊕			1,5	0,07		30	26				
FX3106⊕V20⊕			2	0,1		22	20				
FX3106⊕V25⊕			2,5	0,15		16	14				
FX3106⊕V30⊕			3	0,25		15	10				
FX3106⊕V35⊕			3,5	0,32		10	8				
FX3106⊕V40⊕			4	0,36		8	5				
FX3106⊕V45⊕			4,5	0,41		6,5	3,5				
FX3106⊕V52⊕			5,2	0,47		4	1,8				
FX3106⊕V64⊕			6,4	0,64		3	1				

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

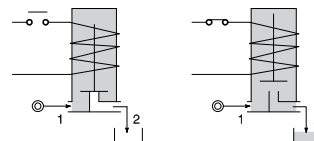
Example: FX3106⊕V52⊕ => FX3106DV52A60:

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



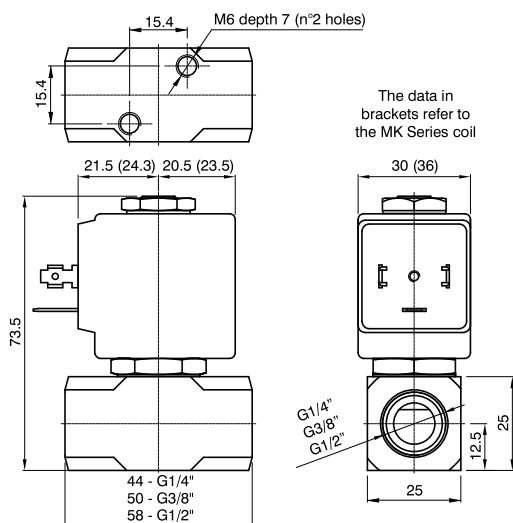
Diagram



Construction characteristics	Technical characteristics	
- Brass body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies OPTIONS (on request): - Chemical nickel plating surface treatment - Stainless steel seat insert (up to Ø4,5) - Stainless steel solenoid coil housing	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



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



PNEUMAX FLUID CONTROL

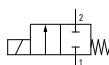
CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
							AC	DC						
F3110⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3110⊕V12⊕				1,2	0,05		60	60						
F3110⊕V15⊕				1,5	0,07		30	26						
F3110⊕V20⊕				2	0,1		22	20						
F3110⊕V25⊕				2,5	0,15		16	14						
F3110⊕V30⊕				3	0,25		15	10						
F3110⊕V35⊕				3,5	0,32		10	8						
F3110⊕V40⊕				4	0,36		8	5						
F3110⊕V45⊕				4,5	0,41		6,5	3,5						
F3110⊕V52⊕				5,2	0,47		4	1,8						
F3110⊕V64⊕				6,4	0,64		3	1						
F3110⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	100	100	40	30	27	MK	36	
F3110⊕V12⊕				1,2	0,05		100	100						
F3110⊕V15⊕				1,5	0,07		80	80						
F3110⊕V20⊕				2	0,1		50	40						
F3110⊕V25⊕				2,5	0,15		35	33						
F3110⊕V30⊕				3	0,25		25	24						
F3110⊕V35⊕				3,5	0,32		20	19						
F3110⊕V40⊕				4	0,36		16	15						
F3110⊕V45⊕				4,5	0,41		14	13						
F3110⊕V52⊕				5,2	0,47		10	9						
F3110⊕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.

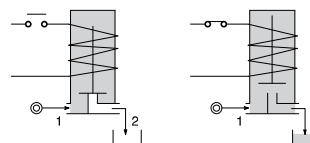
Example: F3110⊕V25⊕ => F3110BV25MG5:

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



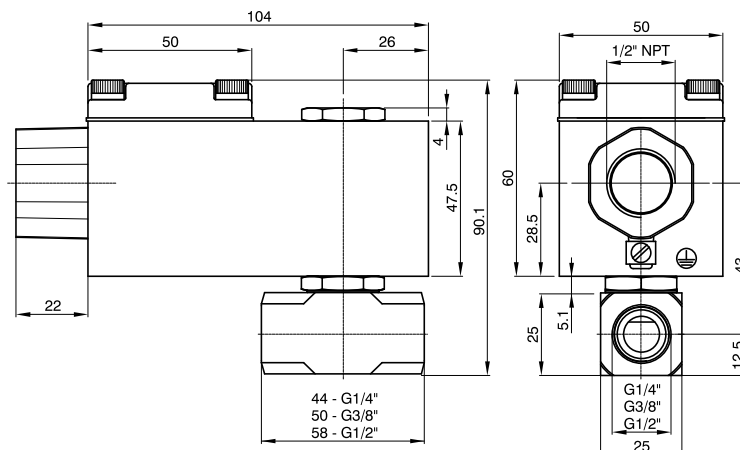
Diagram



Construction characteristics	Technical 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	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"**



PNEUMAX FLUID CONTROL

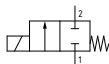
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕ = Solenoid coil	Temperature range (°C)	
	B	C	D			Min	Max		AC Holding (VA)			DC (W)
							AC	DC				
FX3110⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 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.

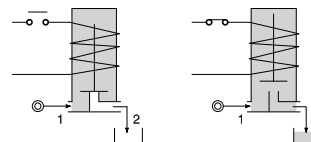
Example: FX3110⊕V52⊕ => FX3110DV52A60:

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

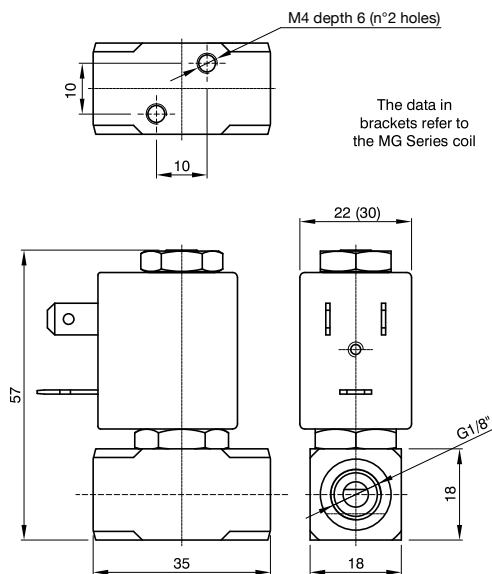


Construction characteristics

- AISI 303 stainless steel body
- AISI 303 stainless steel guide tube
- AISI 302 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

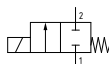
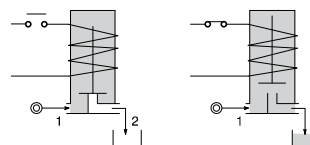
F3111 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8"


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		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


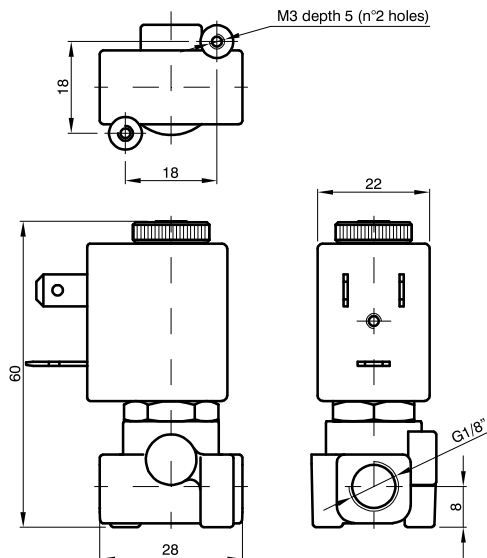
Construction characteristics	Technical characteristics	
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Silver advance ring - For use with oxygen - 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	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.



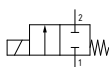
PNEUMAX FLUID CONTROL

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			
					20	5			
F3115⊕V20⊕		2	0,09		3	2			
					12	5			
F3115⊕V25⊕		2,5	0,14		1	2			
					5	5			
					8	6,5			
					2	5			
F3115⊕V31⊕		3,1	0,19		3,5	6,5			

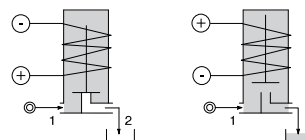
Example: F3115CV25⊕ => F3115AV25MI5:

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").

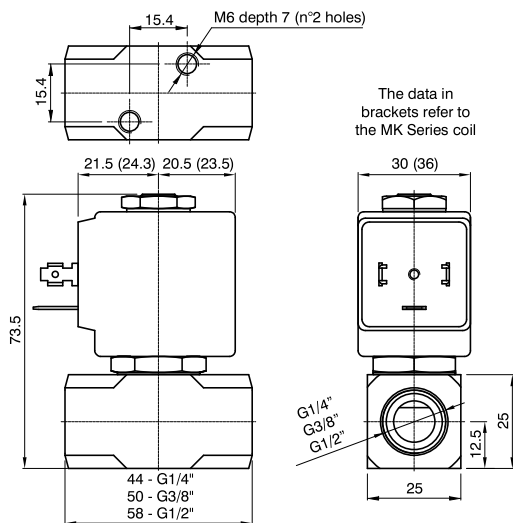
Pneumatic symbol



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 (mm ² /s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Indifferent
	Weight (g)	140

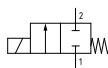
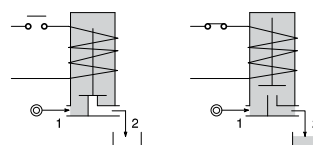
F3170 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"


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: F3170⊕V25⊕ => F3170BV25MG5.

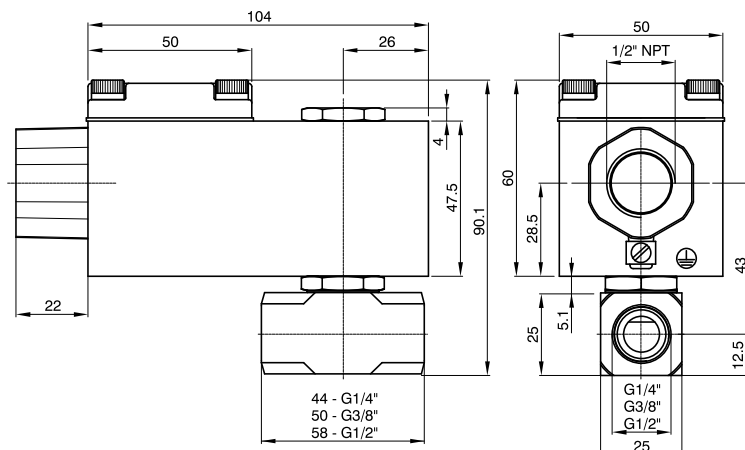
2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


Construction characteristics	Technical 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	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"**



PNEUMAX FLUID CONTROL

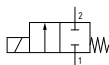
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection			Orifice (mm)	KV (m³/h)	Differential pressure (bar)		Power consumption		⊕ = Solenoid coil	Temperature range (°C)	
	B	C	D			Min	Max		AC Holding (VA)			DC (W)
							AC	DC				
FX3170⊕V10⊕	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
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.

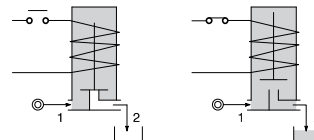
Example: FX3170⊕V45⊕ => FX3170DV45A60:

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).

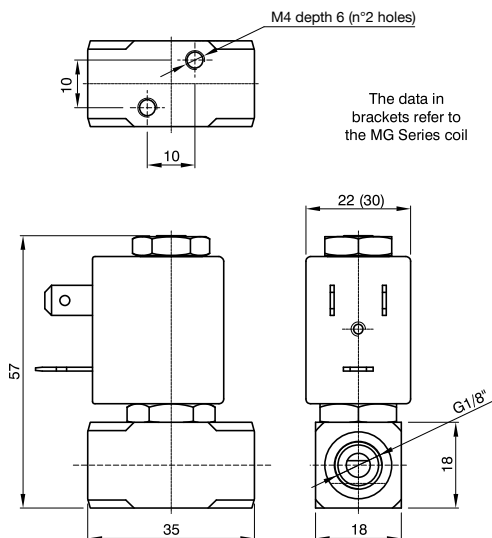
Pneumatic symbol



Diagram



Construction characteristics	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 - Red light alloy or stainless steel housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies	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

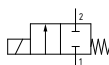
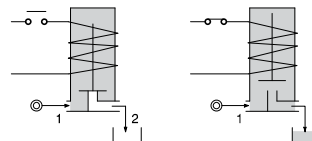
F3171 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8"


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):

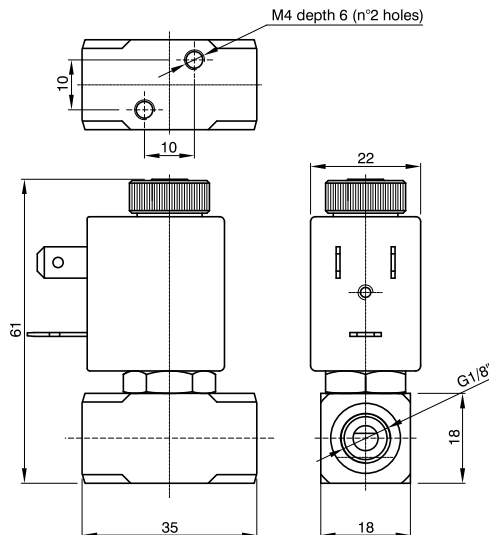
- For use with oxygen
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- us certified solenoid coils
- Versions for use with fluid temperature at -40 °C

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"



PNEUMAX FLUID CONTROL

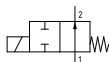
CODE “V”= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3271⊕V12⊕	1/8"	1,2	0,04	0	19	19	12	8	6,5	MI	22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

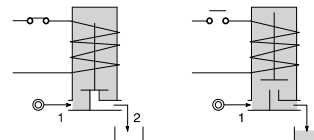
Example: F3271⊕V25⊕ => F3271AV25MI58:

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").

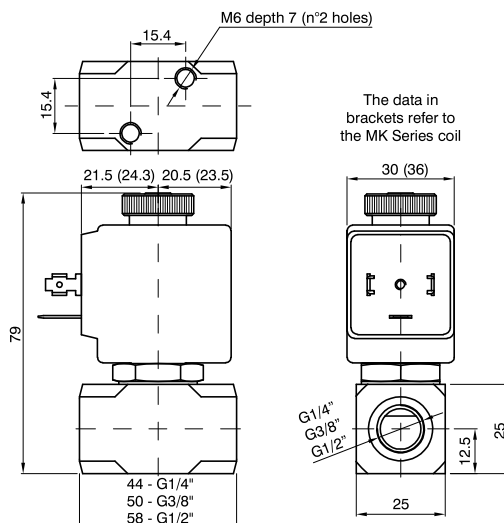
Pneumatic symbol



Diagram



Construction characteristics	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): - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - CE 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

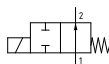
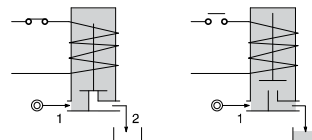
F3210 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"


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		40	23	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):

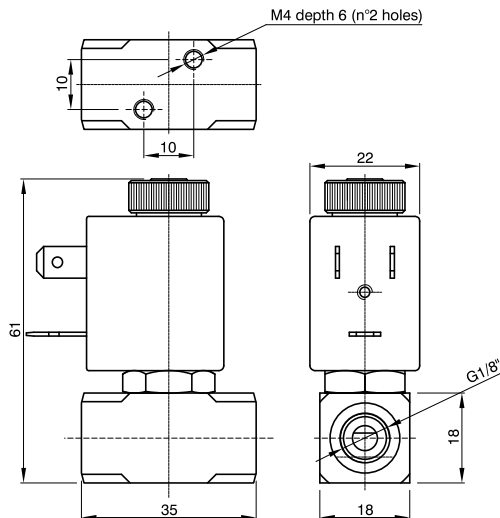
- Silver advance ring
- For use with oxygen
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C
- Manual override

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"



PNEUMAX FLUID CONTROL

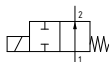
CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3211⊕V12⊕	1/8"	1,2	0,04	0	19	19	12	8	6,5	MI	22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

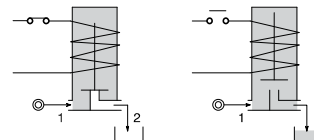
Example: F3211⊕V25⊕ => F3211AV25MI58:

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").

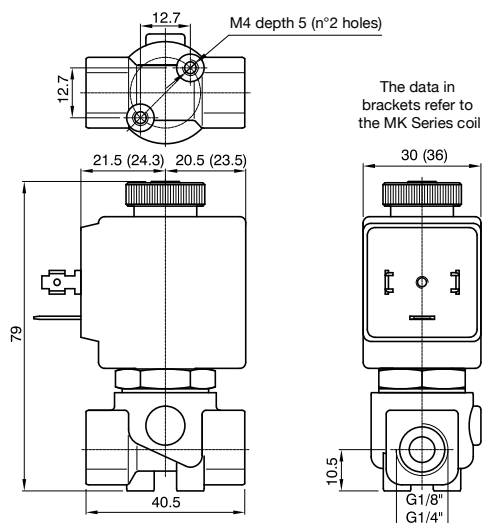
Pneumatic symbol



Diagram



Construction characteristics	Technical 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	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm ² /s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Indifferent
	Weight (g)	150

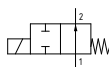
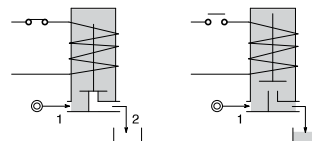
F3206 - 2-way solenoid valve N.O. brass body, with G connection (ISO 228) - 1/8" and 1/4"


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: F3206⊕V25⊕ => F3206BV25MG5:

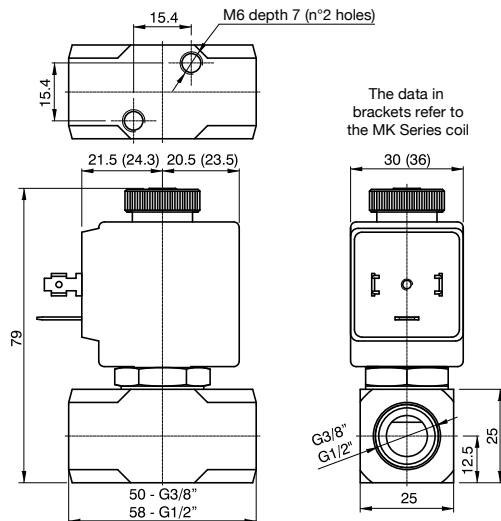
2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "Solenoid coils - Series F300").

Pneumatic symbol

Diagram


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



PNEUMAX FLUID CONTROL

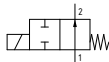
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection		Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			⊖ = Solenoid coil		Temperature range (°C)
	C	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
F3206⊕V15	3/8"	1/2"	1,5	0,07	0	23	/	20	15	/	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	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		9	9						
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).

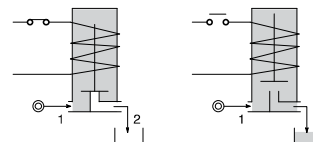
Example: F3206CV25⊕ => F3206DV25MG5:

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").

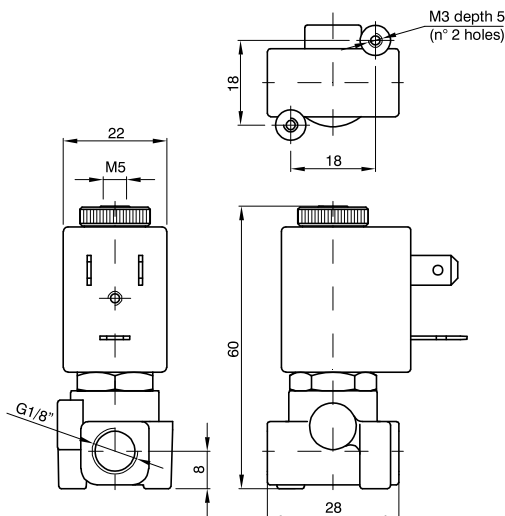
Pneumatic symbol



Diagram



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

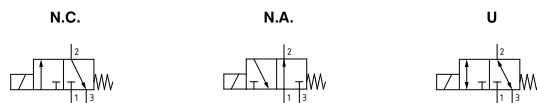
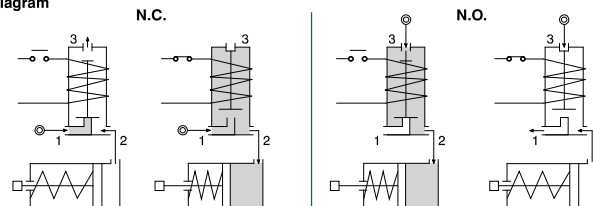
F3305 - 3-way solenoid valve brass body, with G connection (ISO 228) - 1/8"


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													-10 ... +140
F3305⊕V12⊕	1/8"	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	
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: F3305⊕V12⊕ => 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):

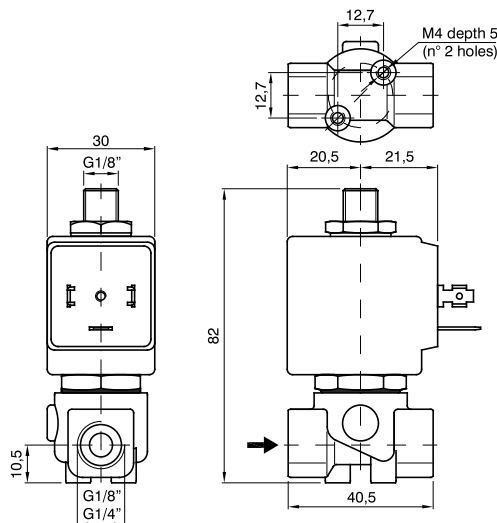
- Stainless steel guide tube
- Chemical nickel plating surface treatment
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- certified solenoid coils
- Exhaust port with hose tail connection
- Versions for use with fluid temperature at -40 °C
- Manual override

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"



PNEUMAX FLUID CONTROL

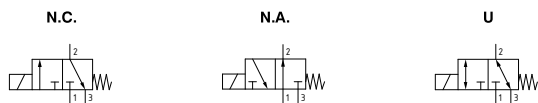
CODE “V” = FPM seals	G connection (ISO 228) ☉ = Connection		Orifice (mm)		kV (m³/h)	Differential pressure (bar)			Power consumption			☉ = Solenoid coil		Temperature range (°C)	
	A	B	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
							AC	DC							
N.C. - Normally closed															
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).

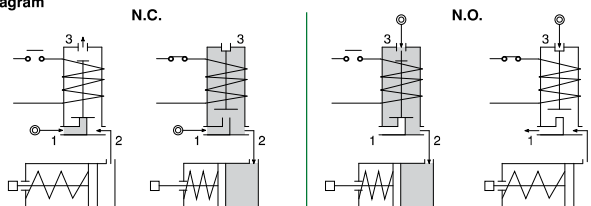
Example: F3306⊕V15⊕ => F3306AV15MG5:

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").

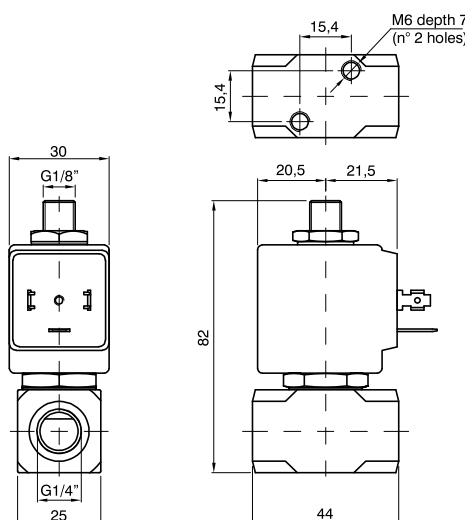
Pneumatic symbol



Diagram



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

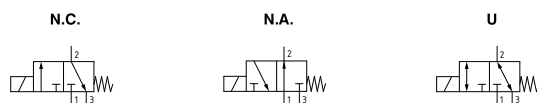
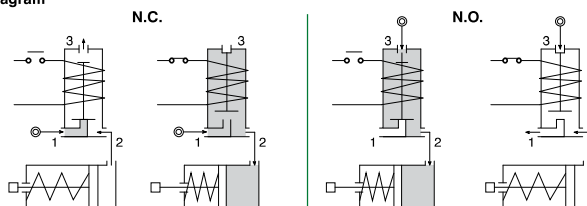
F3310 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/4"


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		

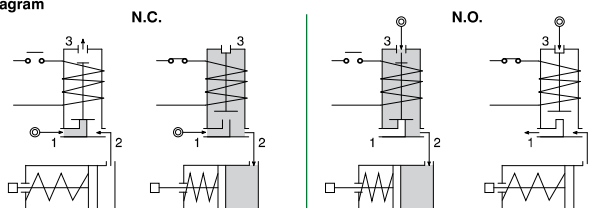
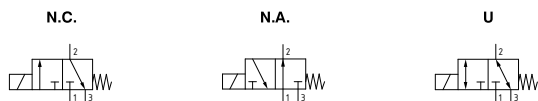
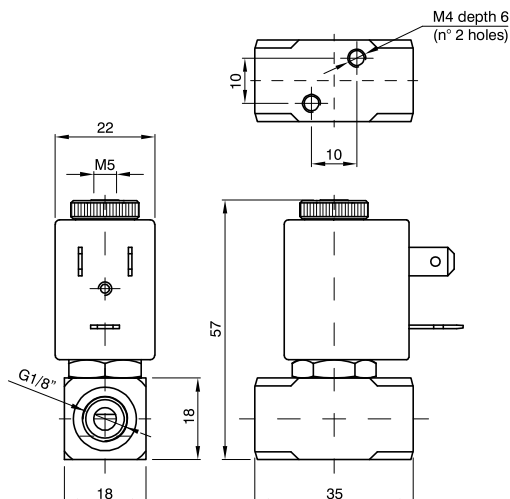
N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).

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


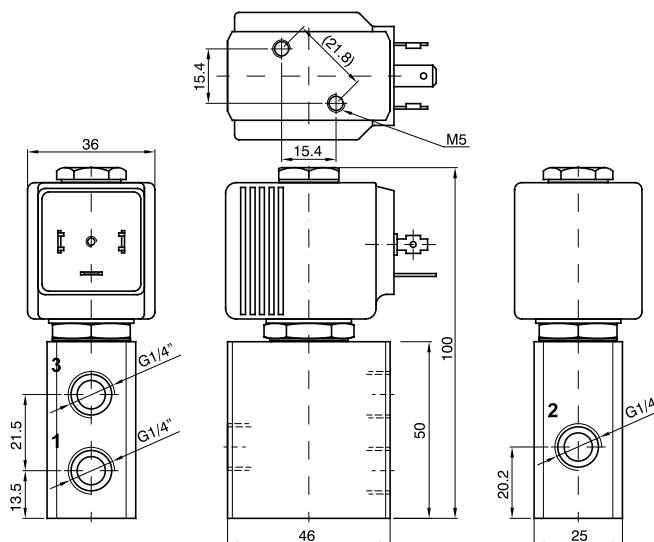
Construction characteristics	Technical characteristics	
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies OPTIONS (on request): - Silver advance ring - certified solenoid coils - Versions for use with fluid temperature at -40 °C	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





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

PNEUMAX FLUID CONTROL

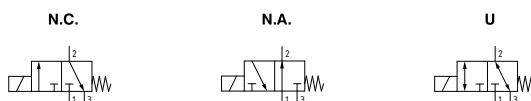


CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊖= Solenoid coil		Temperature range (°C)
	B	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
Anodised aluminium body													
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: F3321⊕V75⊕ => 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").

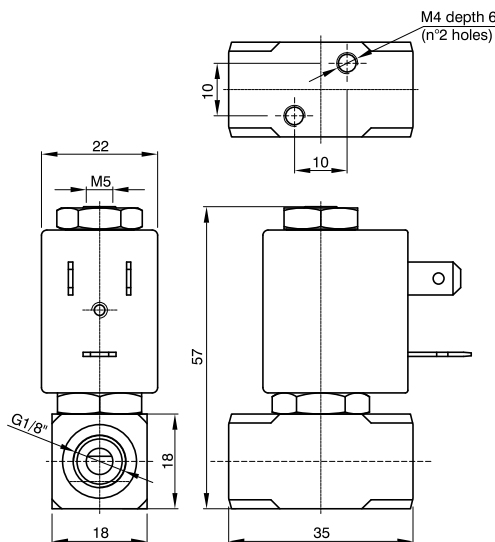
Pneumatic symbol



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"



PNEUMAX FLUID CONTROL

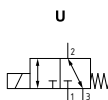
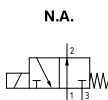
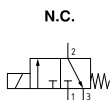
CODE "V"= FPM seals	G connection (ISO 228) ⊕= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕= Solenoid coil		Temperature range (°C)
	A	Inlet	Exhaust		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
						AC	DC						
N.C. - Normally closed										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

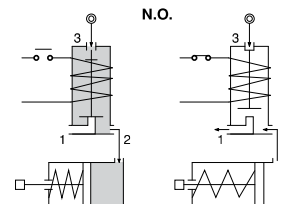
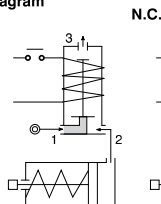
Example: F3371⊕V12⊕ => F3371AV12MI58:

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

- 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):

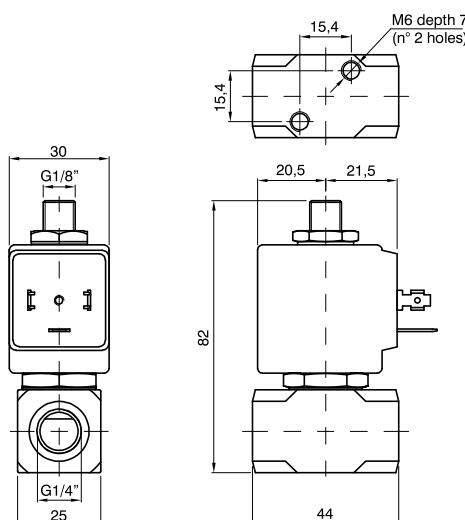
- XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC
- Exhaust port with hose tail connection
- certified solenoid coils
- Versions for use with fluid temperature at -40 °C

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



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



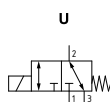
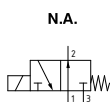
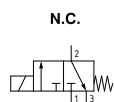
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			⊕ = Solenoid coil		Temperature range (°C)	
	B	From 1 to 2	From 2 to 3		Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size		
						AC	DC							
N.C. - Normally closed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

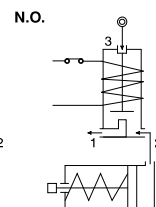
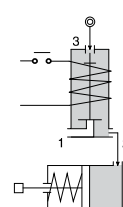
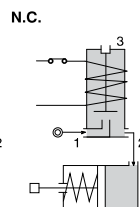
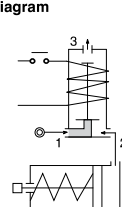
Example: F3370⊕V15⊕ => F3370BV15MG5:

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):

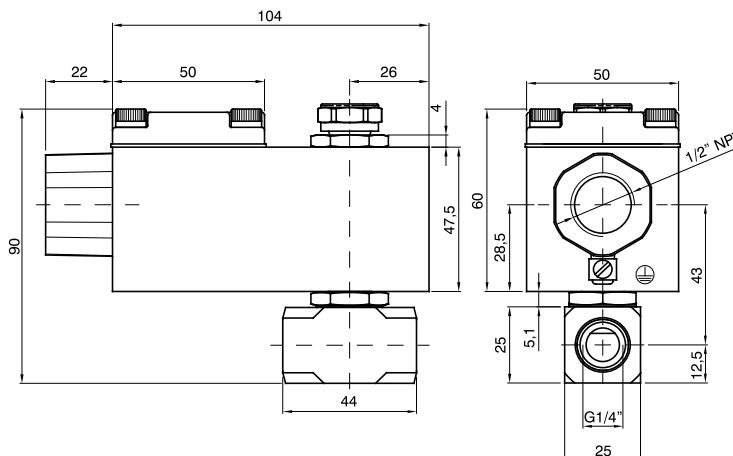
- For use with oxygen
- ASME certified solenoid coils
- Versions for use with fluid temperature at -40 °C

Technical characteristics

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm ² /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"**



PNEUMAX FLUID CONTROL

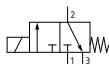
CODE "V" = FPM seals	G connection (ISO 228) ⊕ = Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption		⊕ = Solenoid coil	Temperature range (°C)
	B	From 1 to 2	From 2 to 3		Min	Max		AC Holding (VA)	DC (W)		
FX3370⊕V15⊕	1/4"	1,5	2,4	0,07	0	16	16	12	8	A6B = 24 Volt (AC 50-60 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).

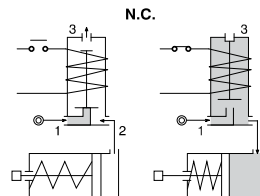
Example: FX3370⊕V15⊕ => FX3370BV15A60:

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

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

Technical characteristics

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm²/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	Vertical with solenoid coil upwards
Weight (g)	650