Pneuvano

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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 25 companies, with over 730 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 guarentee maximum reliability in harsh enviroments.

- **ATEX versions available**
- **Solutions for low temperatures (>-40°C) or high temperatures (<+140°C)**
- **Wide range of components suitable for use with oxygen**
- **c UL us EAC certified solenoid coils**

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Pneumax Fluid Control

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Series F300

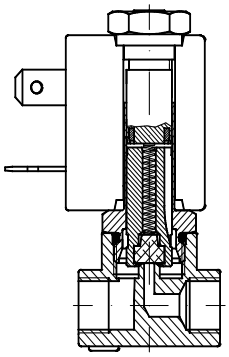
General

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 manifactured

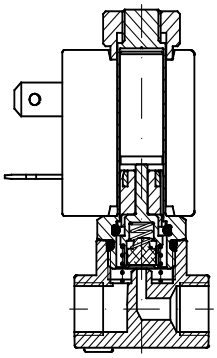
Solenoid valves direct action 2-way: 2-way solenoid valves have an input connection and an output connection machined in the valve body, the orifice being intercepted by the poppet moved by the core tube.

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.



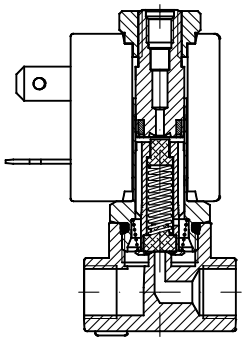
They can be **normally open (2/2 N.O.)**, in this case at rest the orifice remains open without electricity applied, the media reaches the intended use. When electricity is applied the input orifice closes.

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



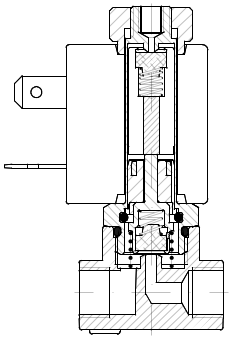
Solenoid valves direct action 3-way: 3-way solenoid valves have an input and an output connection in the valve body and an exhaust connection fitted in the stem of the core tube. The input and exhaust orifices are intercepted directly by the poppet fitted within the core tube.

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.

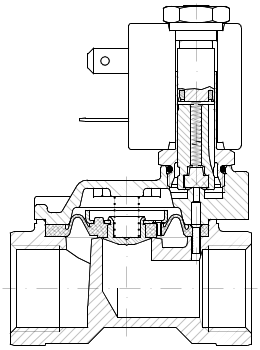
Performance in both cases depends solely on the magnetic field produced by the solenoid coil.
The solenoid valves can also work at zero pressure.



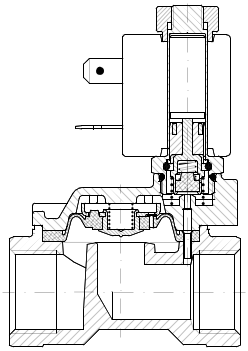
Servo-assisted solenoid valves

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 though 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

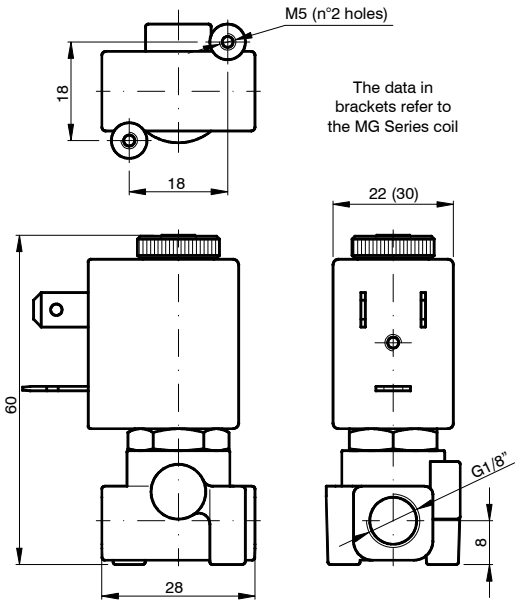
Designation	Trade names	General characteristics	Field of use
FPM (Fluorocarbon)	VITON TECNOFLON FLUOREL	A synthetic hexa-fluoropropylene-based elastomer. Excellent resistance to high temperatures. Excellent resistance to ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, hydrocarbons and 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	Non Compatible
Acetylene	Compatible
Vinegar	Non Compatible
Acetone	Non Compatible
Calcareous water	Compatible
Hot water <75°C	Compatible
Hot water and steam <140°C	Non Compatible
Water with glycol	Compatible
Deionised water	Compatible
Demineralised water	Compatible
Hydrogen peroxide	Compatible
Soapy water	Compatible
Carbon dioxide (liquid)	Non Compatible
Dry carbon dioxide (gas)	Compatible
Argon	Compatible
Nitrogen	Compatible
Petrol/Gasoline	Compatible
Benzol	Non Compatible
Butane	Compatible
Chloroform	Non Compatible
Ethyl Chloride	Compatible
Methyl chloride	Non Compatible
Helium	Compatible
Heptane	Compatible
Hexane	Compatible
Ethane	Compatible
Ethanol	Non Compatible
Formaldehyde	Compatible
Freon	Non Compatible
Natural gas	Compatible
Diesel oil	Compatible
Glycerine	Compatible
Ethylene glycol	Compatible
Hydrogen	Compatible
Isobutane	Compatible
Isopentane	Compatible
Methane	Compatible
Methanol	Non Compatible
Calcium monoxide	Compatible
Neon	Compatible
Nitrobenzene	Non Compatible
Mineral oil	Compatible
Oxygen	Compatible
Pentane-n	Compatible
Propanol-n	Compatible
Propane-n	Compatible
Carbon sulphide	Non Compatible
Toluene	Compatible
Dry trichloroethylene	Compatible
Xylene	Compatible

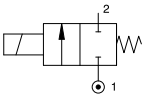
F3105 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 1/8”



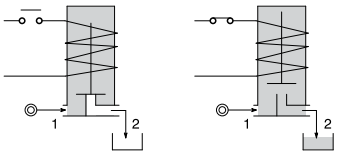
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	A			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3105ⓒV12Ⓑ	1/8”	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +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						
F3105ⓒV20Ⓑ	1/8”	2	0,09		25	15	15	11	5	MG	30	
F3105ⓒV25Ⓑ		2,5	0,14		16	8						
F3105ⓒV31Ⓑ		3,1	0,19		8	4						
F3105ⓒV40Ⓑ		4	0,35		5	2,5						

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).

Pneumatic symbol



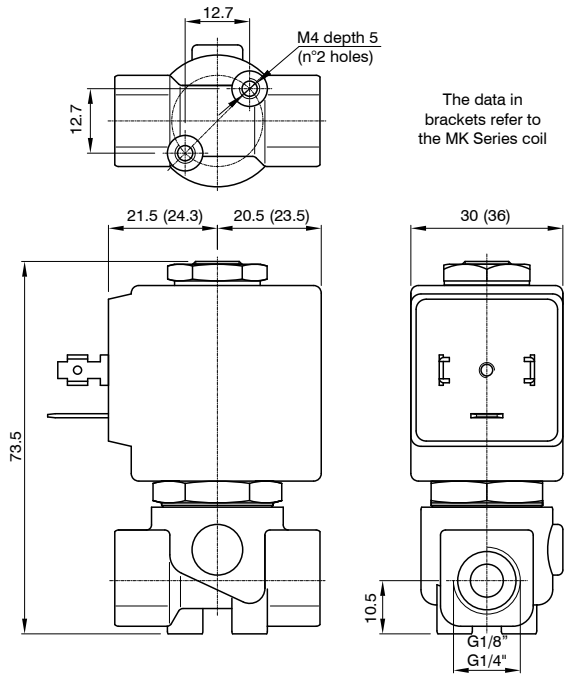
Diagram



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 - cULus certified solenoid coils - Versions for use with fluid temperature at -40°C

Technical characteristics	
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) with solenoid coil MI series	130
Weight (g) with solenoid coil MG series	180

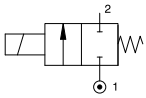
F3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 1/8" and 1/4"



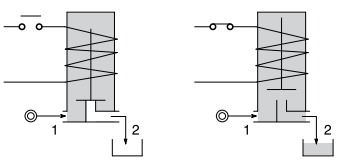
CODE "V"= FPM seals	G connection (ISO 228) C= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			B= Solenoid coil		Temperature range (°C)
	A	B			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3106CV10B	1/8"	1/4"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106CV12B			1,2	0,05		60	60						
F3106CV15B			1,5	0,07		30	26						
F3106CV20B			2	0,1		22	20						
F3106CV25B			2,5	0,15		16	14						
F3106CV30B			3	0,25		15	10						
F3106CV35B			3,5	0,32		10	8						
F3106CV40B			4	0,36		8	5						
F3106CV45B			4,5	0,41		6,5	3,5						
F3106CV52B	/		5,2	0,47		4	1,8						
F3106CV64B	/		6,4	0,64		3	1						
F3106CV10B	1/8"	1/4"	1	0,04		100	100	40	30	27	MK	36	
F3106CV12B			1,2	0,05		100	100						
F3106CV15B			1,5	0,07		80	80						
F3106CV20B			2	0,1		50	40						
F3106CV25B			2,5	0,15		35	33						
F3106CV30B			3	0,25		25	24						
F3106CV35B			3,5	0,32		20	19						
F3106CV40B			4	0,36		16	15						
F3106CV45B			4,5	0,41		14	13						
F3106CV52B	/		5,2	0,47		10	9						
F3106CV64B	/		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: F3106CV52B => 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).

Pneumatic symbol



Diagram



Construction characteristics

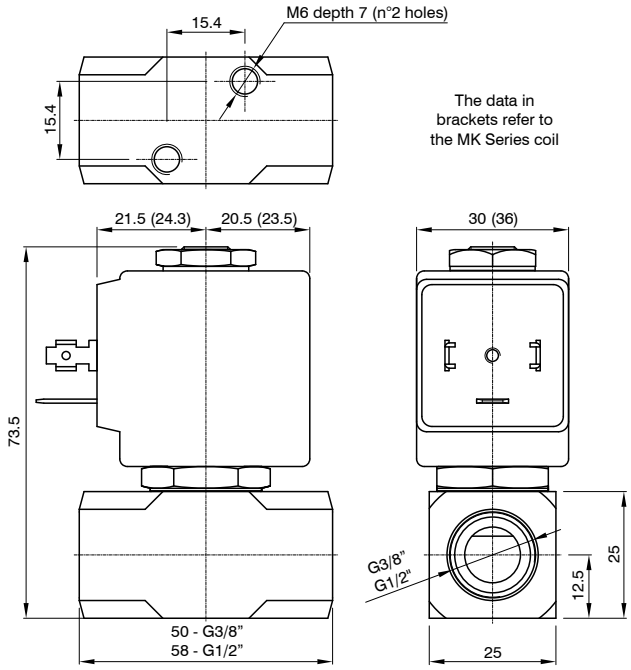
- Brass body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):
- Manual override
- Chemical nickel plating surface treatment
- Stainless steel seat insert (up to Ø4.5)
- For use with oxygen
- c UL us 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 (mm^2/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

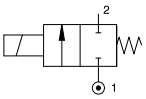
F3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) - 3/8" and 1/2"



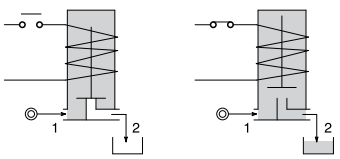
CODE "V"= FPM seals	G connection (ISO 228) C= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			B= Solenoid coil		Temperature range (°C)
	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3106CV10B	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106CV12B			1,2	0,05		60	60						
F3106CV15B			1,5	0,07		30	26						
F3106CV20B			2	0,1		22	20						
F3106CV25B			2,5	0,15		16	14						
F3106CV30B			3	0,25		15	10						
F3106CV35B			3,5	0,32		10	8						
F3106CV40B			4	0,36		8	5						
F3106CV45B			4,5	0,41		6,5	3,5						
F3106CV52B			5,2	0,47		4	1,8						
F3106CV64B			6,4	0,64		3	1						
F3106CV10B	3/8"	1/2"	1	0,04		100	100	40	30	27	MK	36	
F3106CV12B			1,2	0,05		100	100						
F3106CV15B			1,5	0,07		80	80						
F3106CV20B			2	0,1		50	40						
F3106CV25B			2,5	0,15		35	33						
F3106CV30B			3	0,25		25	24						
F3106CV35B			3,5	0,32		20	19						
F3106CV40B			4	0,36		16	15						
F3106CV45B			4,5	0,41		14	13						
F3106CV52B			5,2	0,47		10	9						
F3106CV64B			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: F3106CV52B => 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).

Pneumatic symbol



Diagram



Construction characteristics

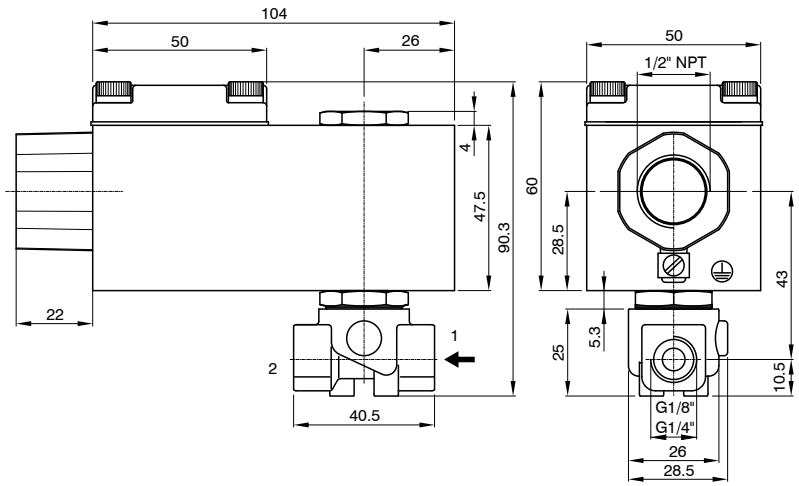
- Brass body
- AISI 303 stainless steel guide tube
- AISI 430FR stainless steel mobile and fixed core
- AISI 302 stainless steel springs
- FPM sealing assemblies

OPTIONS (on request):
- Chemical nickel plating surface treatment
- For use with oxygen
- Stainless steel seat insert (up to Ø4.5)
- c UL us 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 (mm^2/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

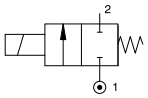
FX3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/8" and 1/4"



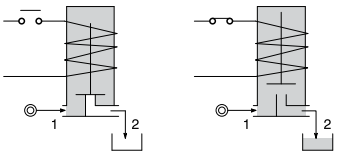
CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption		Ⓑ= Solenoid coil	Temperature range (°C)
	A	B			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3106ⓒV10Ⓑ	1/8"	1/4"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) 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ⓒ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

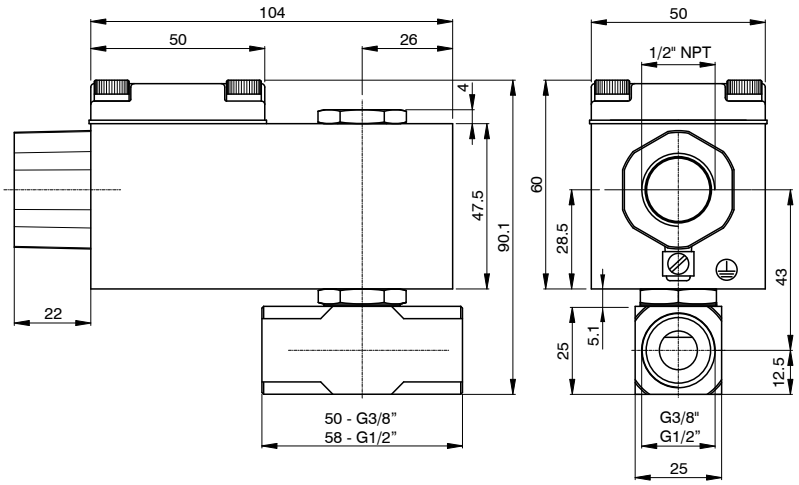


Diagram



Construction characteristics	Technical characteristics	
- Brass body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies	Maximum admitted pressure (bar)	100
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature (°C)	-40 ... +60
OPTIONS (on request): - Manual override - Chemical nickel plating surface treatment - Stainless steel seat insert (up to Ø4.5) - Stainless steel solenoid coil housing	Mounting position	vertical with solenoid coil upwards
	Weight (g)	600

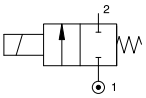
FX3106 - 2-way solenoid valve N.C. brass body, with G connection (ISO 228) with certified housing: Ex d IIC T6 or T5 or T4 Gb - 3/8 and "1/2"



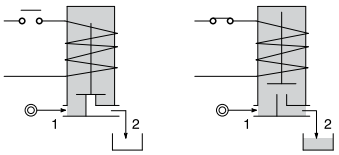
CODE "V"= FPM seals	G connection (ISO 228) ©= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption		Ⓑ= Solenoid coil	Temperature range (°C)
	C	D			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3106©V10Ⓑ	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) 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

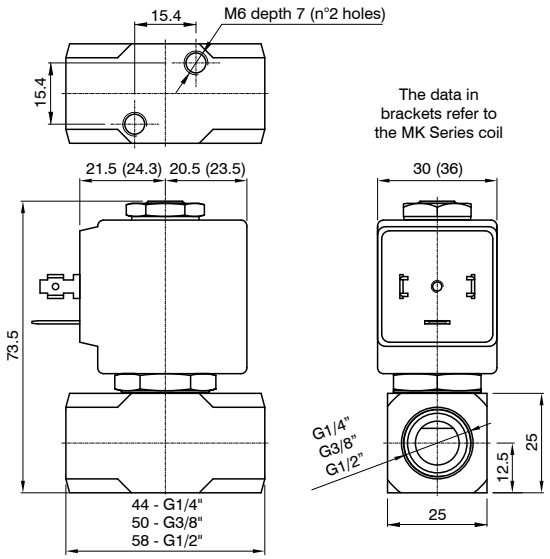


Diagram



Construction characteristics	Technical characteristics	
- Brass body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies	Maximum admitted pressure (bar)	100
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature (°C)	-40 ... +60
OPTIONS (on request): - Chemical nickel plating surface treatment - Stainless steel seat insert (up to Ø4.5) - Stainless steel solenoid coil housing	Mounting position	vertical with solenoid coil upwards
	Weight (g)	660

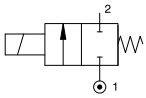
F3110 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"



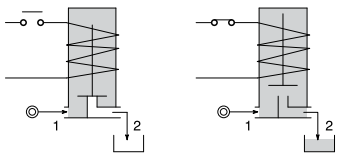
CODE "V"= FPM seals	G connection (ISO 228) C= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			B= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3110CV10B	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	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).

Pneumatic symbol



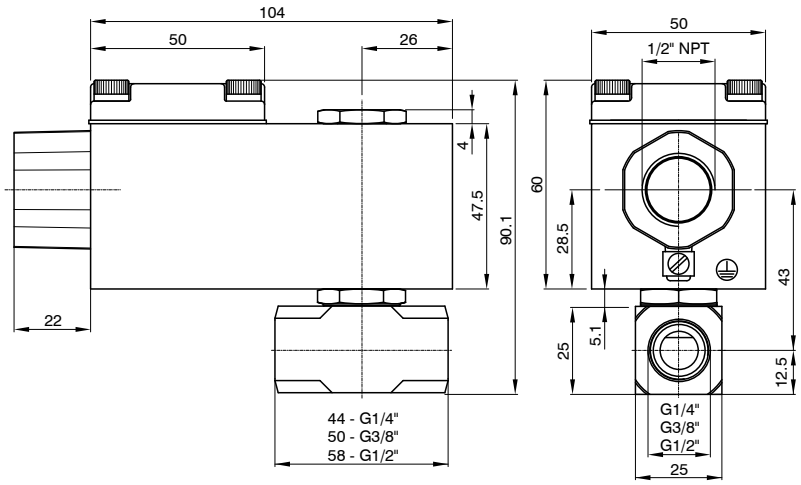
Diagram



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 - cULus 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 (mm^2/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

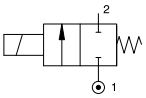
FX3110 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4" ... 1/2"



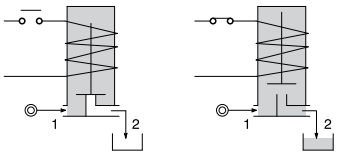
CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption		ⓑ= Solenoid coil	Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3110ⓒV10ⓑ	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) 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



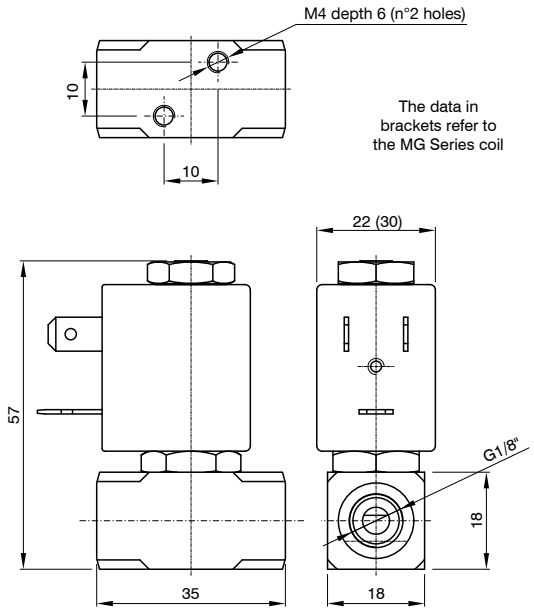
Diagram



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 (mm^2/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	vertical with solenoid coil upwards
Weight (g)	660

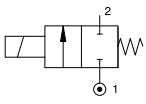
F3111 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8”



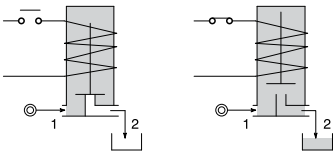
CODE “V”= FPM seals	G connection (ISO 228) ©= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⒷSolenoid coil		Temperature range (°C)
	A			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3111©V12Ⓑ	1/8”	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +140
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).

Pneumatic symbol



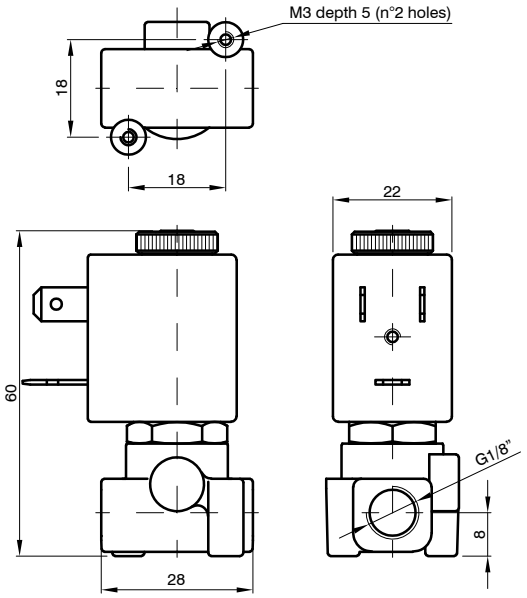
Diagram



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	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
OPTIONS (on request): - Silver advance ring - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us certified solenoid coils - Versions for use with fluid temperature at -40°C	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”

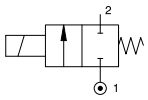
The bistable function is achieved by the use of a polarized permanent magnet energizing the coil with a DC current for at least 15ms in the reverse direction of the preceding impulse.



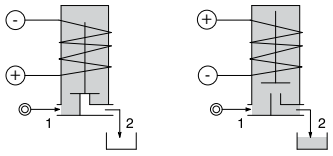
CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)		Power consumption	Ⓑ= Solenoid coil		Temperature range (°C)
	A			Min	Max	DC (W)	Series	Size	
F3115ⒸV12Ⓑ	1/8”	1,2	0,04	0	12	2	MI/DC	22	-10 ... +120
F3115ⒸV15Ⓑ		1,5	0,06		8	2			
					20	5			
F3115ⒸV20Ⓑ		2	0,09		3	2			
					12	5			
F3115ⒸV25Ⓑ		2,5	0,14		1	2			
					5	5			
					8	6,5			
F3115ⒸV31Ⓑ		3,1	0,19		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).

Pneumatic symbol

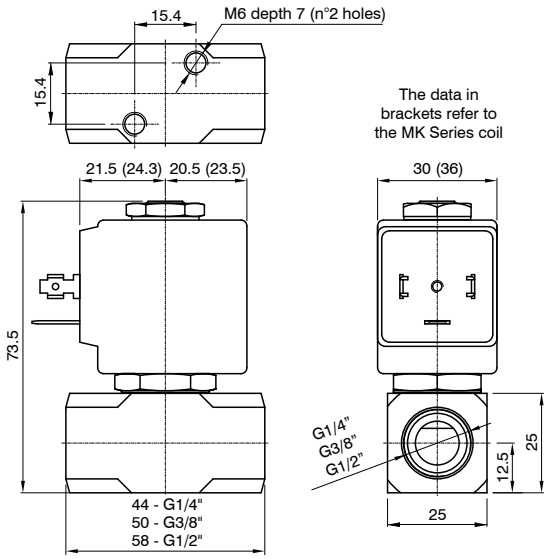


Diagram



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	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
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	Weight (g)	140

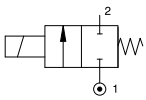
F3170 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"



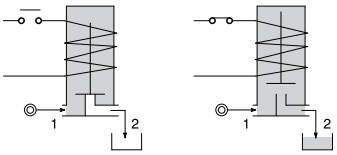
CODE "V"= FPM seals	G connection (ISO 228) ©= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3170©V10Ⓑ	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	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).

Pneumatic symbol



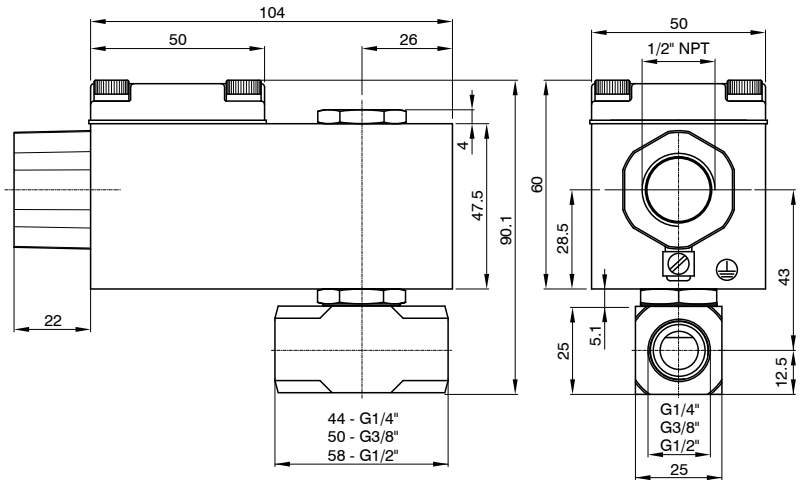
Diagram



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 - c UL us 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 (mm^2/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

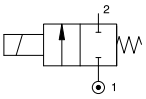
FX3170 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4" ... 1/2"



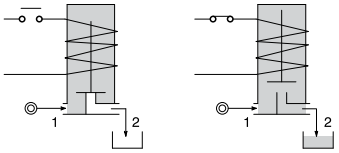
CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption		ⓑ= Solenoid coil	Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3170ⓒV10ⓑ	1/4"	3/8"	1/2"	1	0,04	0	80	80	12	8	A6B= 24 Volt (AC 50-60Hz) A6E=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



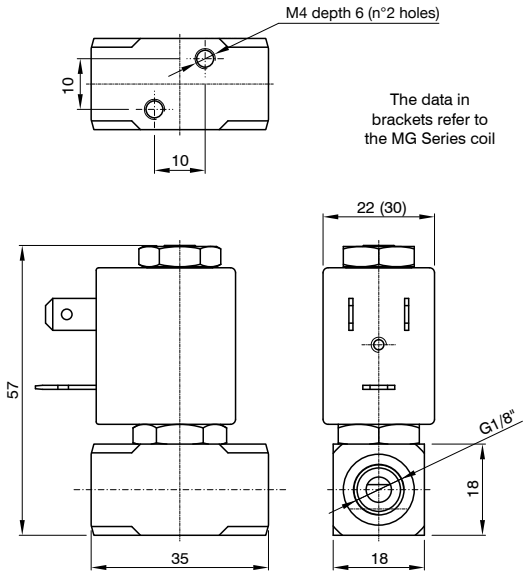
Diagram



Construction characteristics
- 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 (mm^2/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	vertical with solenoid coil upwards
Weight (g)	660

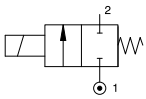
F3171 - 2-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) - 1/8”



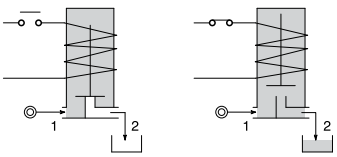
CODE “V” = FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	A			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3171ⓒV12ⓑ	1/8”	1,2	0,04	0	25	25	12	8	6,5	MI	22	-10 ... +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).

Pneumatic symbol



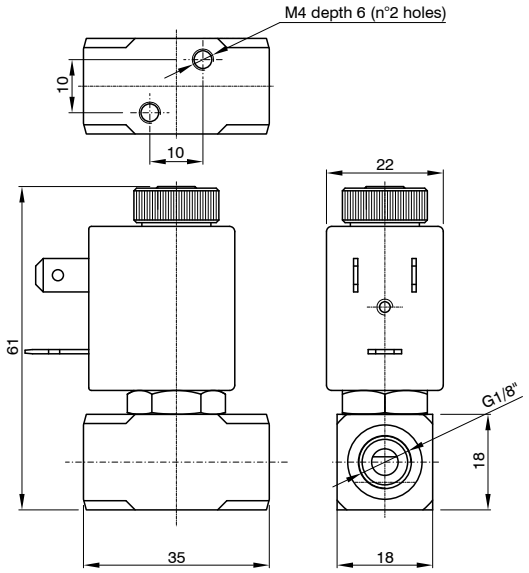
Diagram



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 - c UL us certified solenoid coils - Versions for use with fluid temperature at -40°C

Technical characteristics	
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) with solenoid coil MI series	150
Weight (g) with solenoid coil MG series	200

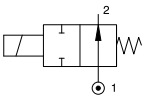
F3271 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/8”



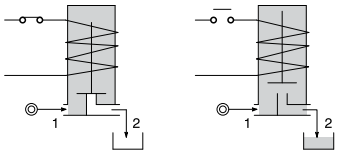
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	A			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3271ⓒV12ⓑ	1/8”	1,2	0,04	0	19	19	12	8	6,5	MI	22	-10 ... +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ⓑ => F3171AV25MI58:
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).

Pneumatic symbol



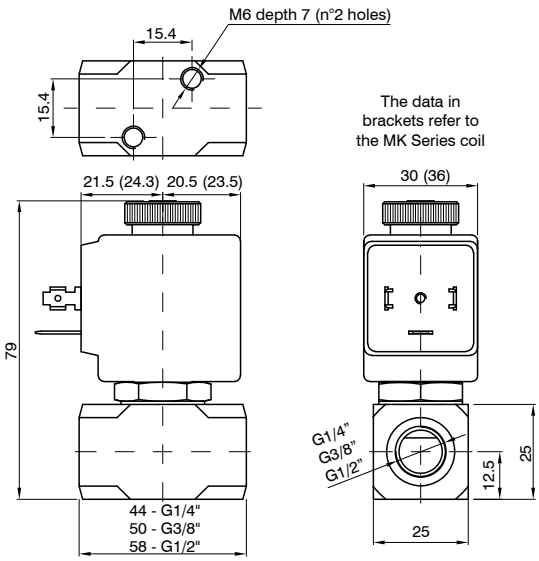
Diagram



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	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
OPTIONS (on request): - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us certified solenoid coils - Versions for use with fluid temperature at -40°C	Weight (g)	150

PNEUMAX FLUID CONTROL

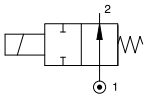
F3210 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/4" ... 1/2"



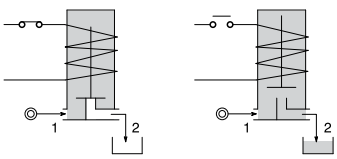
CODE "V" = FPM seals	G connection (ISO 228) ⓒ= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3210ⓒV15ⓑ	1/4"	3/8"	1/2"	1,5	0,07		23							
F3210ⓒV20ⓑ				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						
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	0	/	4	/	/	10	MG/DC	30	-10 ... +140
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						
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	40	30	27	MK (AC/DC)	36	
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).

Pneumatic symbol



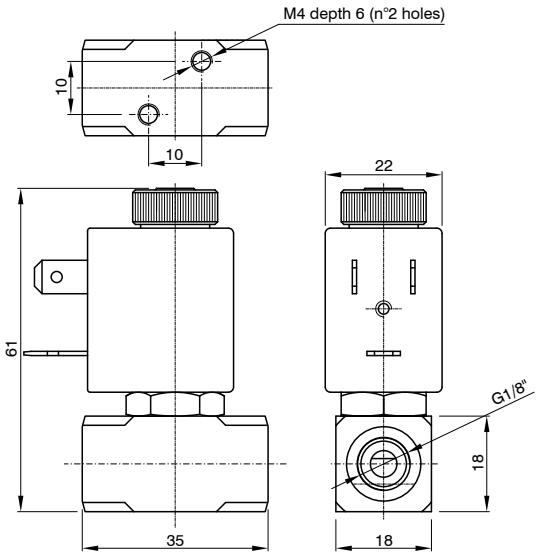
Diagram



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 - c UL 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 (mm^2/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

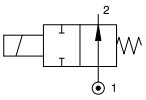
F3211 - 2-way solenoid valve N.O. stainless steel body, with G connection (ISO 228) - 1/8”



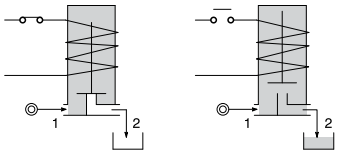
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	A			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3211ⓒV12ⓑ	1/8”	1,2	0,04	0	19	19	12	8	6,5	MI	22	-10 ... +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).

Pneumatic symbol

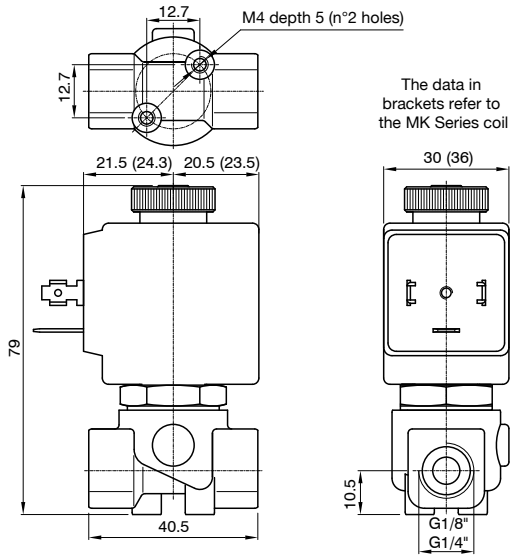


Diagram



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	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
OPTIONS (on request): - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - For use with oxygen - cULus certified solenoid coils - Versions for use with fluid temperature at -40°C - Manual override	Weight (g)	150

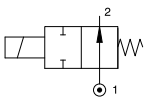
F3206 - 2-way solenoid valve N.O. brass body, with G connection (ISO 228) - 1/8" and 1/4"



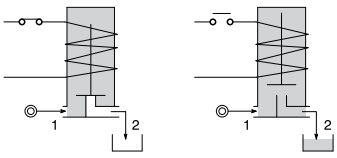
CODE "V"= FPM seals	G connection (ISO 228) C= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			B= Solenoid coil		Temperature range (°C)
	A	B			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3206CV15B	1/8"	1/4"	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3206CV20B			2	0,1		17							
F3206CV25B			2,5	0,15		12							
F3206CV30B			3	0,25		8							
F3206CV35B			3,5	0,32		7							
F3206CV40B			4	0,36		5,5							
F3206CV45B			4,5	0,41		4,5							
F3206CV52B			5,2	0,47		3							
F3206CV15B	1/8"	1/4"	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3206CV20B			2	0,1			11						
F3206CV25B			2,5	0,15			7						
F3206CV30B			3	0,25			6,5						
F3206CV35B			3,5	0,32			4						
F3206CV40B			4	0,36			3,5						
F3206CV45B			4,5	0,41			3						
F3206CV52B			5,2	0,47			2,2						
F3206CV15B	1/8"	1/4"	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36	
F3206CV20B			2	0,1		17	17						
F3206CV25B			2,5	0,15		12	12						
F3206CV30B			3	0,25		8	8						
F3206CV35B			3,5	0,32		7	7						
F3206CV40B			4	0,36		5,5	5,5						
F3206CV45B			4,5	0,41		4,5	4,5						
F3206CV52B			5,2	0,47		3	3						
F3206CV64B			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).

Pneumatic symbol



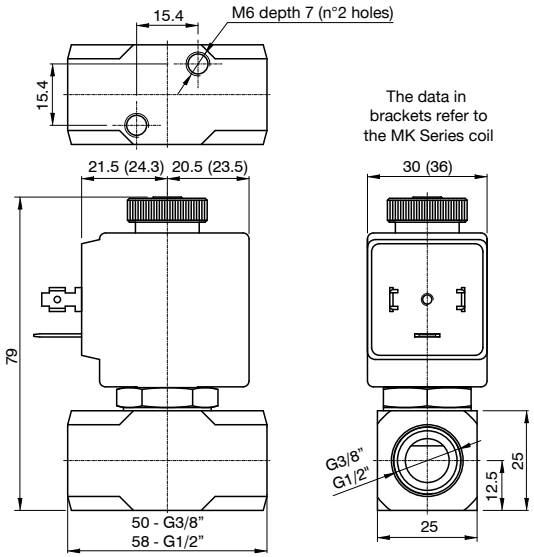
Diagram



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 - c UL 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 (mm^2/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

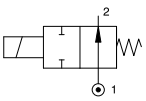
F3206 - 2-way solenoid valve N.O. brass body, with G connection (ISO 228) - 3/8" and 1/2"



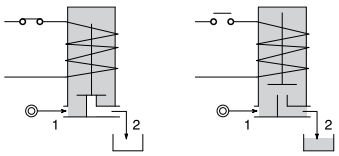
CODE "V"= FPM seals	G connection (ISO 228) ❸= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			❷= Solenoid coil		Temperature range (°C)
	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3206❸V15❷	3/8"	1/2"	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3206❸V20❷			2	0,1		17							
F3206❸V25❷			2,5	0,15		12							
F3206❸V30❷			3	0,25		9							
F3206❸V35❷			3,5	0,32		7							
F3206❸V40❷			4	0,36		5,5							
F3206❸V45❷			4,5	0,41		4,5							
F3206❸V52❷			5,2	0,47		3							
F3206❸V15❷	3/8"	1/2"	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3206❸V20❷			2	0,1			11						
F3206❸V25❷			2,5	0,15			7						
F3206❸V30❷			3	0,25			6,5						
F3206❸V35❷			3,5	0,32			4						
F3206❸V40❷			4	0,36			3,5						
F3206❸V45❷			4,5	0,41			3						
F3206❸V52❷			5,2	0,47			2,2						
F3206❸V15❷	3/8"	1/2"	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36	
F3206❸V20❷			2	0,1		17	17						
F3206❸V25❷			2,5	0,15		12	12						
F3206❸V30❷			3	0,25		9	9						
F3206❸V35❷			3,5	0,32		7	7						
F3206❸V40❷			4	0,36		5,5	5,5						
F3206❸V45❷			4,5	0,41		4,5	4,5						
F3206❸V52❷			5,2	0,47		3	3						
F3206❸V64❷			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: F3206❸V25❷ => 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).

Pneumatic symbol



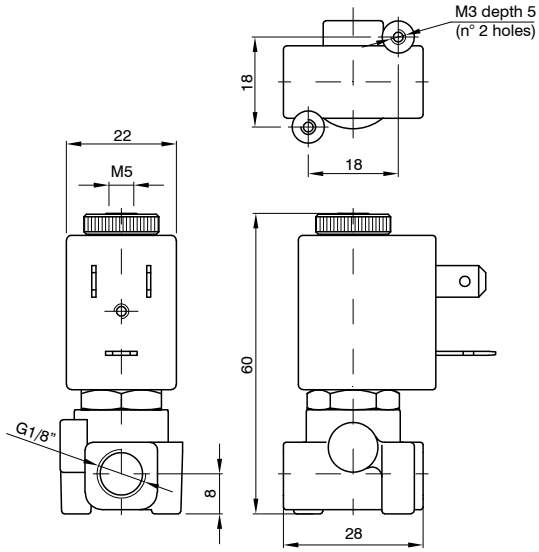
Diagram



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 - cULus certified solenoid coils - Versions for use with fluid temperature at -40°C - Manual override

Technical characteristics	
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm^2/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

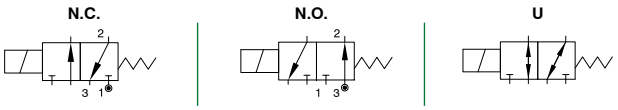
F3305 - 3-way solenoid valve brass body, with G connection (ISO 228) - 1/8”



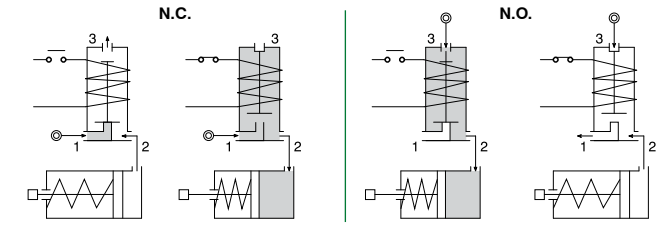
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	A	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed													
F3305ⓒV12ⓑ	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: 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).

Pneumatic symbol

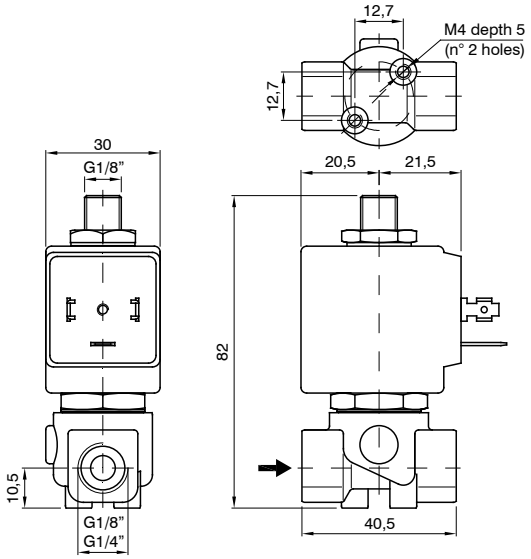


Diagram



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	Maximum admitted pressure (bar)	50
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Mounting position	Universal
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 - c UL us certified solenoid coils - Exhaust port with hosetail connection - Versions for use with fluid temperature at -40°C - Manual override	Weight (g)	110

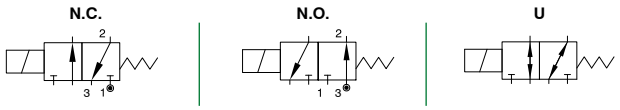
F3306 - 3-way solenoid valve brass body, with G connection (ISO 228) - 1/8" and 1/4"



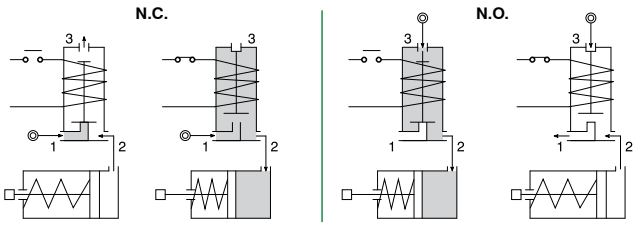
CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection		Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	A	B	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed														
F3306ⓒV15ⓑ	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).

Pneumatic symbol



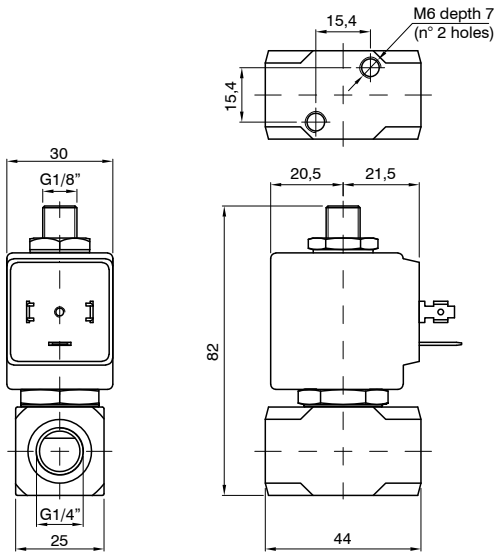
Diagram



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 - cULus 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)	125

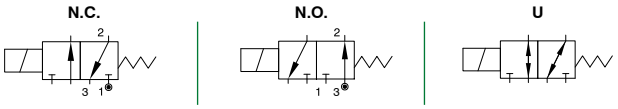
F3310 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/4”



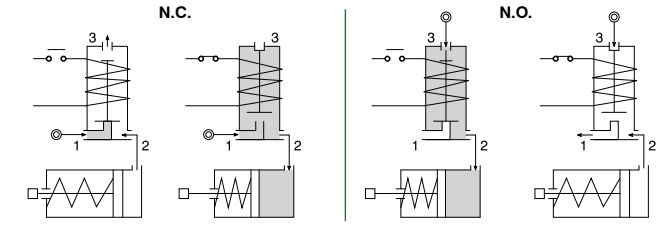
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed													-10 ... +140
F3310ⓒV20ⓑ	1/4”	2	2,4	0,11	0	13	13	20	15	10	MG	30	
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).

Pneumatic symbol



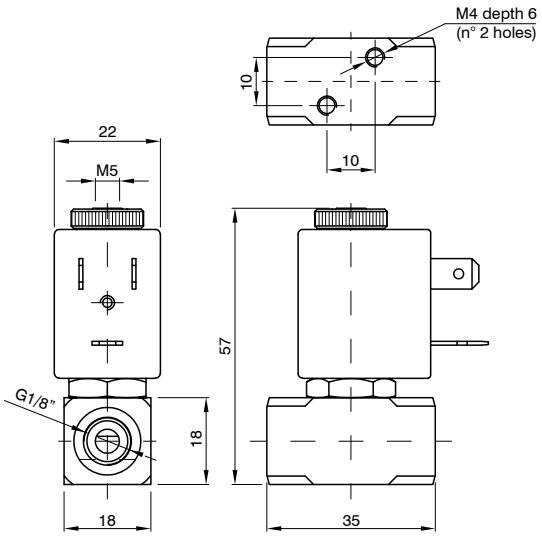
Diagram



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 - cULus 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

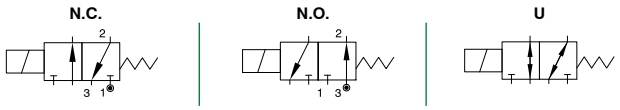
F3311 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/8”



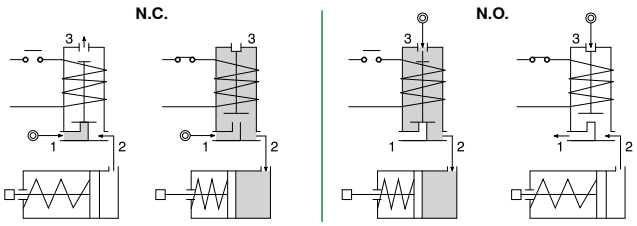
CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	A	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed													
F3311ⒸV12Ⓑ	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	
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	

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).

Pneumatic symbol



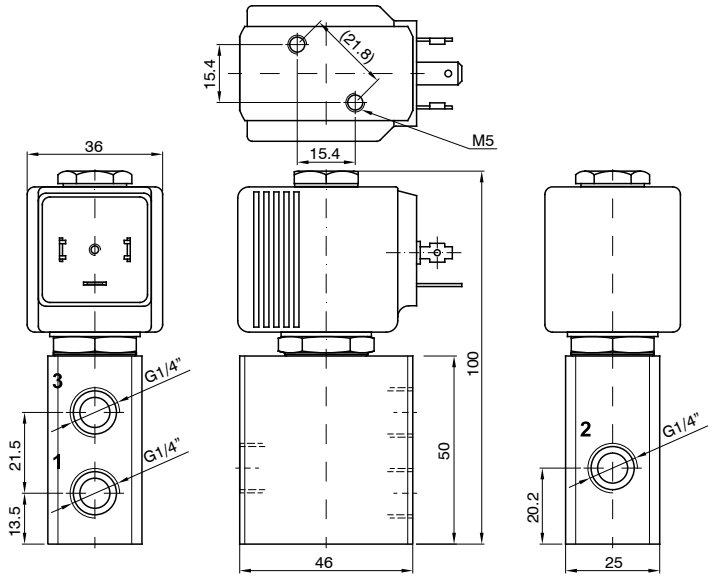
Diagram



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

Technical characteristics	
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

F3320 - 3-way solenoid valve stainless steel or anodised aluminium body, with G connection (ISO 228) - 1/4”



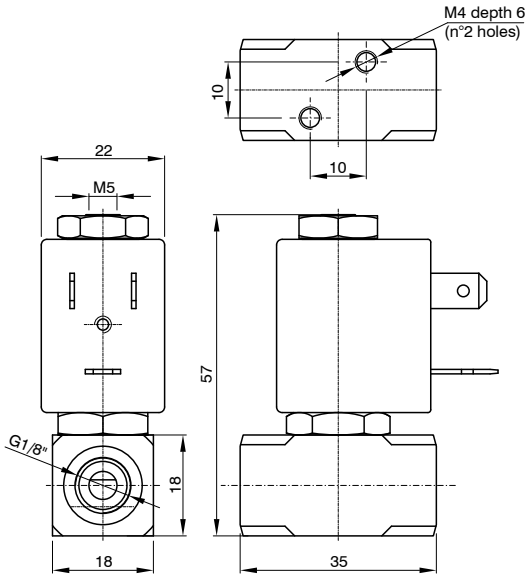
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
Anodised aluminium body													
U - 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).

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 (mm^2/s)	25cSt
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
	Mounting position	Indifferent
	Weight (g)	430

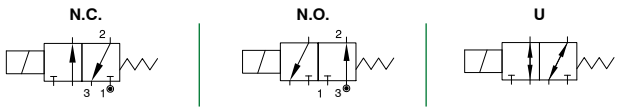
F3371 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/8”



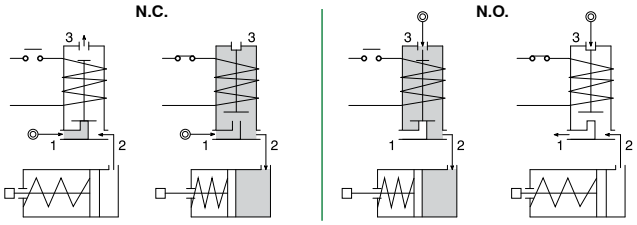
CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	A	Inlet	Exhaust		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed													
F3371ⒸV12Ⓑ	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).

Pneumatic symbol

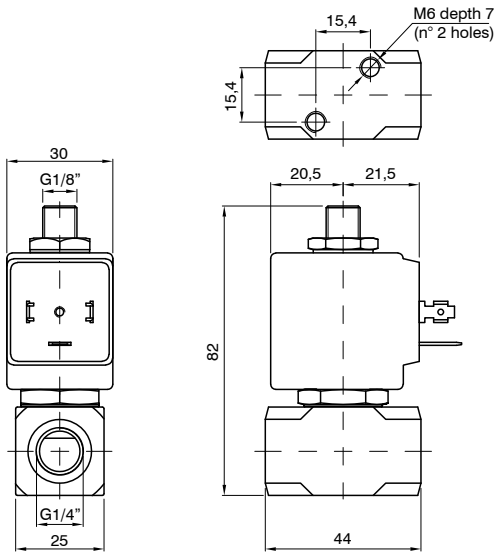


Diagram



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	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
OPTIONS (on request): - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - Exhaust port with hosetail connection - cULus certified solenoid coils - Versions for use with fluid temperature at -40°C	Weight (g)	150

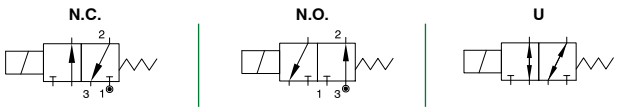
F3370 - 3-way solenoid valve stainless steel body, with G connection (ISO 228) - 1/4”



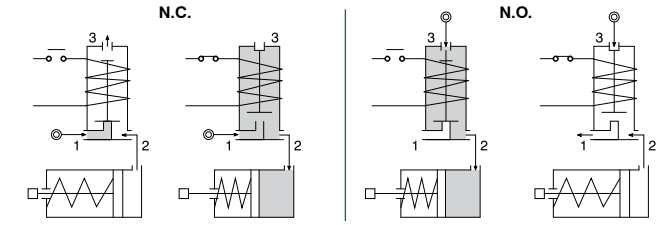
CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	From 1 to 2	From 2 to 3		Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
N.C. - Normally closed													
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).

Pneumatic symbol



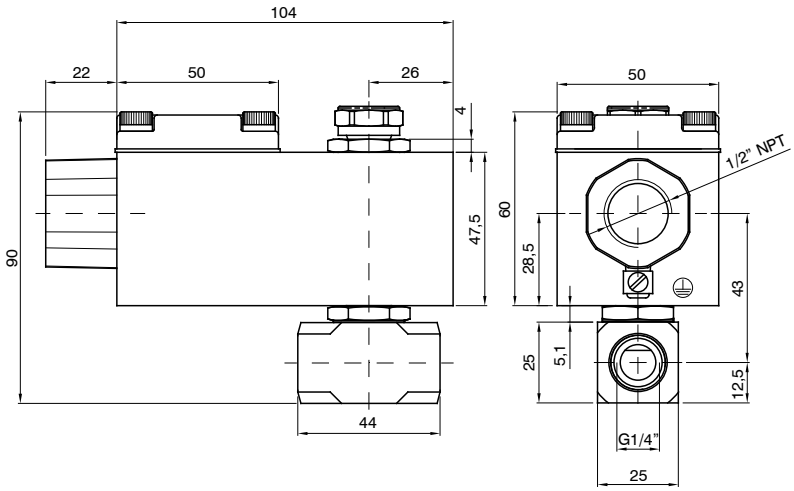
Diagram



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 - c UL us 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

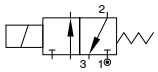
FX3370 - 3-way solenoid valve N.C. stainless steel body, with G connection (ISO 228) with certified housing: Ex d IIC T6 or T5 or T4 Gb - 1/4”



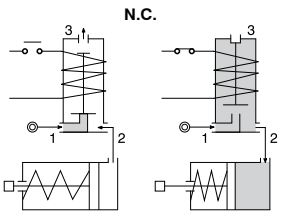
CODE “V”= FPM seals	G connection (ISO 228) ❸= Connection	Orifice (mm)		KV (m^3/h)	Differential pressure (bar)			Power consumption		❽= Solenoid coil	Temperature range (°C)
	B	From 1 to 2	From 2 to 3		Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3370❸V15❽	1/4”	1,5	2,4	0,07	0	16	16	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3370❸V20❽		2	2,4	0,11		13	13				
FX3370❸V25❽		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: FX3370❸V15❽ => 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



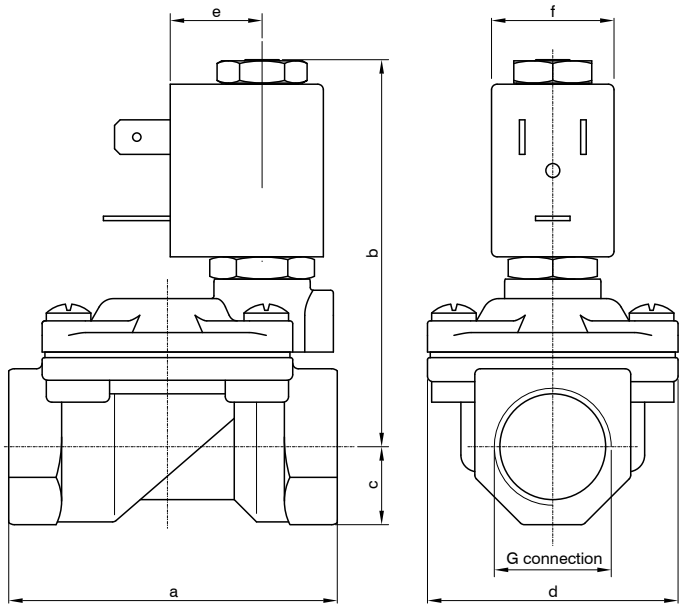
Diagram



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 (mm^2/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	vertical with solenoid coil upwards
Weight (g)	650

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

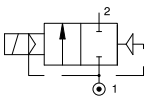


CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection						Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	C	D	E	F	G			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3107ⓒV10ⓑ	1/4"			/			10	1,5	0,15	15	15	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						

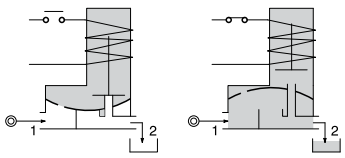
G connection	a	b	c	d	e	f	Weight (g)
1/4" Ø10	49	65	11	32	16	22	230
3/8" Ø10	49	65	11	32			240
3/8" Ø12	59	70	14	45			420
1/2" Ø12	59	70	14	45			390
3/4"	79	76	18	55			650
1"	96	85	20	72			1050
1" 1/4 Ø30	119	92	25	85			1700

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3107ⓒV25ⓑ => 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).

Pneumatic symbol



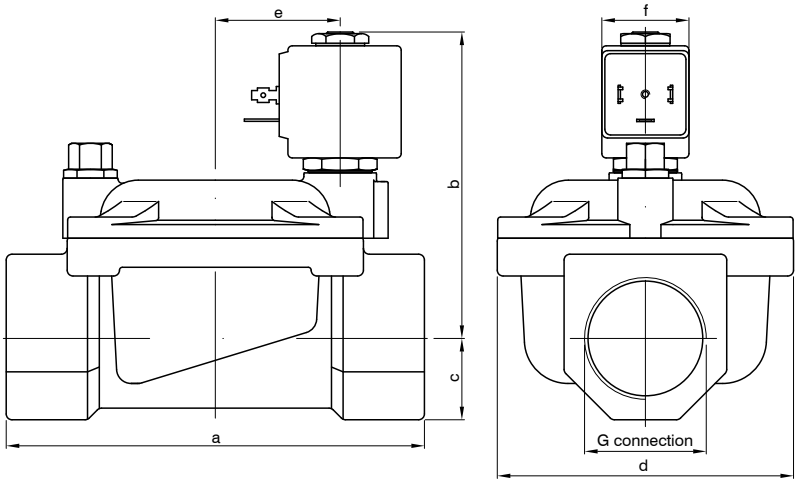
Diagram



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 - c UL us certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	25
Minimum differential pressure (bar)	0,15
Maximum fluid viscosity (mm^2/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”

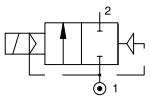


CODE “V”= FPM seals “B”= NBR seals	G connection (ISO 228) ©= Connection					Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			®= Solenoid coil		Temperature range (°C)
	G	H	I	M	R			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3107©V37®	1” 1/4		/			37	18	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						

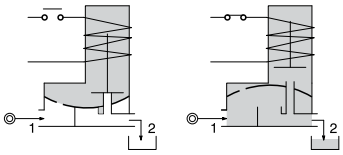
G connection	a	b	c	d	e	f	Weight (g)
1” 1/4	142	105	28	102	21	30	3000
1” 1/2	142	105	28	102			2850
2"	158	115	35	119			4300
2” 1/2	226	134	51	169			1170
3"	226	134	51	169			9900

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).

Pneumatic symbol



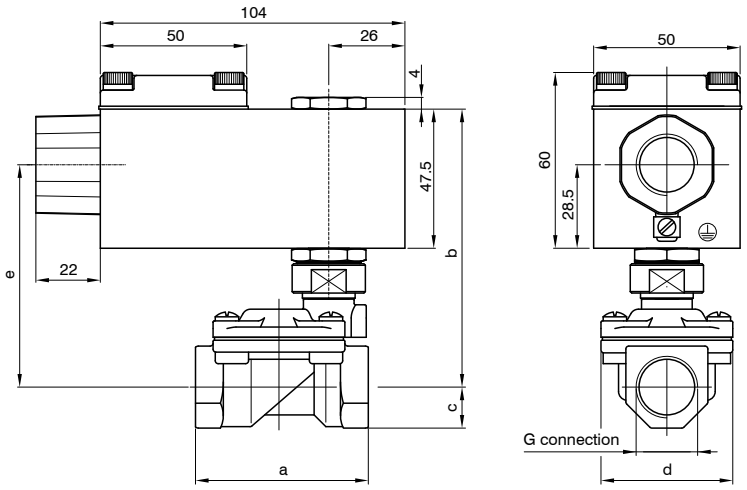
Diagram



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 (NBR only for “M” and “R” versions)
OPTIONS (on request): - Manual override - Chemical nickel plating - Version for vacuum (air/gas) - c UL us certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	20
Minimum differential pressure (bar)	0,15 ... 3
Maximum fluid viscosity (mm^2/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"

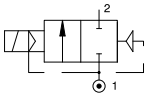


CODE "V"= FPM seals "B"= NBR seals	G connection (ISO 228) ⓒ= Connection										Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption		Ⓑ= Solenoid coil	Temperature range (°C)
	B	C	D	E	F	G	H	I	M	R			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3107ⓒV10Ⓑ	1/4"					/					10	1,5	0,15	15	15	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3107ⓒV10Ⓑ	/	3/8"				/					10	1,7		15	15				
FX3107ⓒV12Ⓑ	/	3/8"				/					12	2,2		15	15				
FX3107ⓒV12Ⓑ		/	1/2"			/					12	2,5		15	15				
FX3107ⓒV18Ⓑ		/		3/4"		/					18	5,5		13	13				
FX3107ⓒV25Ⓑ			/		1"	/					25	10,2		10	10				
FX3107ⓒV30Ⓑ			/			1" 1/4	/				30	15		10	10				
FX3107ⓒV37Ⓑ			/			1" 1/4	/				37	18		10	10				
FX3107ⓒV37Ⓑ				/			1" 1/2	/			37	21		10	10				
FX3107ⓒV50Ⓑ				/				2"	/		50	36		10	10				
FX3107ⓒB75Ⓑ				/					2" 1/2	/	75	75	0,3	5	5				
FX3107ⓒB75Ⓑ					/					3"	75	84		5	5				

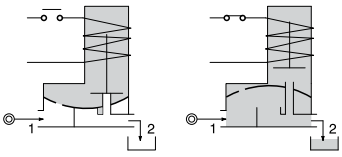
G connection	a	b	c	d	e	Weight (g)
1/4" Ø10	49	90	11	32	71	720
3/8" Ø10	49	90	11	32	71	720
3/8" Ø12	59	95	14	45	76	920
1/2" Ø12	59	95	14	45	76	920
3/4"	79	101	18	54	82	1100
1"	96	110	20	72	91	1500
1"1/4 Ø30	119	118	25	85	99	2270
1"1/4	142	110	28	102	91	3330
1"1/2	142	110	28	102	91	3120
2"	158	119	35	119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

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3107ⓒV10Ⓑ => 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 12V DC (A60).

Pneumatic symbol

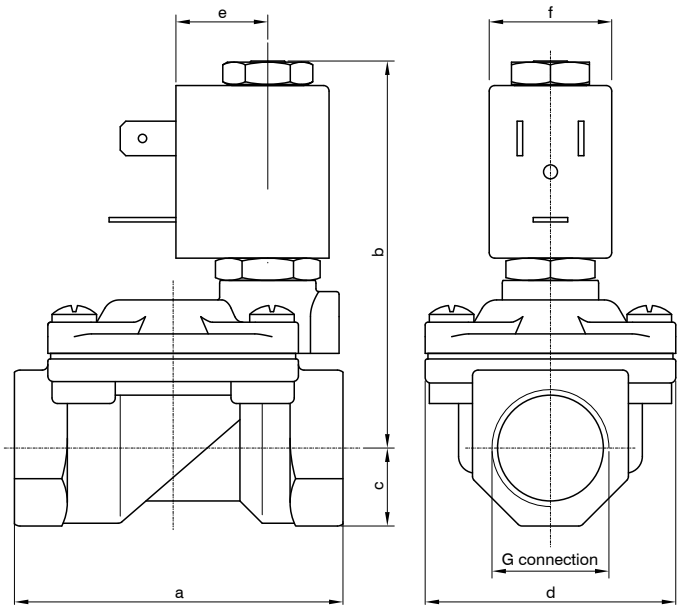


Diagram



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) **OPTIONS (on request):** - Chemical nickel plating surface treatment - Version with slowed commutation	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15 ... 0,3
	Maximum fluid viscosity (mm^2/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"

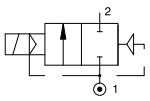


CODE "V"= FPM seals	G connection (ISO 228) C= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			C= Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3177CV12B	3/8"		/		12	2,2	0,15	15	15	12	8	6,5	MI	22	-10 ... +140
F3177CV12B	/	1/2"	/		12	2,5		15	15						
F3177CV18B	/		3/4"	/	18	5,5		13	13						
F3177CV25B	/			1"	25	10,2		10	10						

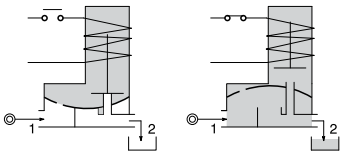
G connection	a	b	c	d	e	f	Weight (g)
3/8"	59	70	11	45	16	22	300
1/2"	59	70	13	45			320
3/4"	79	76	18	55			550
1"	96	85	20	72			950

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3177CV12B => 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).

Pneumatic symbol



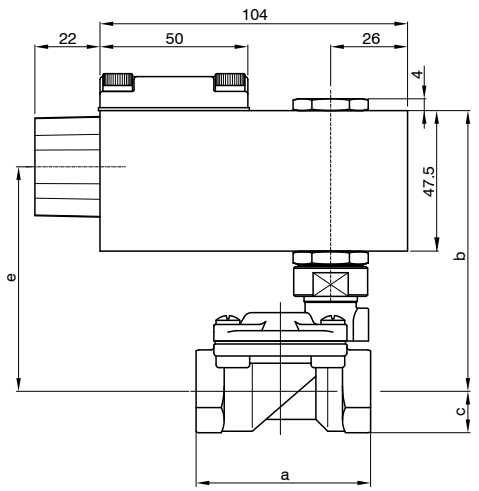
Diagram



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 - cULus certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	25
Minimum differential pressure (bar)	0,15
Maximum fluid viscosity (mm^2/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"

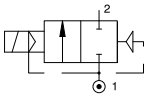


CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)					ⓑ= Solenoid coil	Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC	AC Holding (VA)	DC (W)		
FX3177ⓒV121ⓑ	3/8"	/			12	2,2	0,15	15	15	12	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) 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				

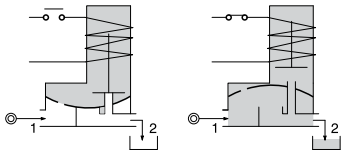
G connection	a	b	c	d	e	Weight (g)
3/8" Ø12	59	95	14	45	76	1120
1/2" Ø12	59	95	14	45	76	1110
3/4"	79	101	18	54	82	1100
1"	96	110	20	72	91	1500

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 12V DC (A60).

Pneumatic symbol



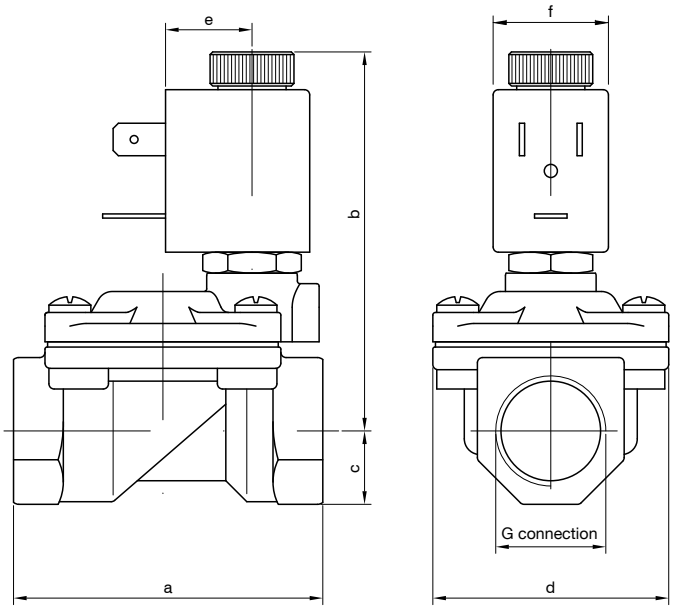
Diagram



Construction 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

Technical characteristics	
Maximum admitted pressure (bar)	25
Minimum differential pressure (bar)	0,15
Maximum fluid viscosity (mm^2/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"

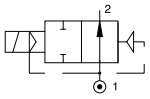


CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3277ⓒV12ⓑ	3/8"		/		12	2,2	0,15	15	15	12	8	6,5	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						

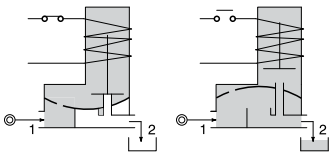
G connection	a	b	c	d	e	f	Weight (g)
3/8"	59	73	14	45	16	22	300
1/2"	59	73	14	45			320
3/4"	79	76	18	55			550
1"	96	85	20	72			950

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).

Pneumatic symbol

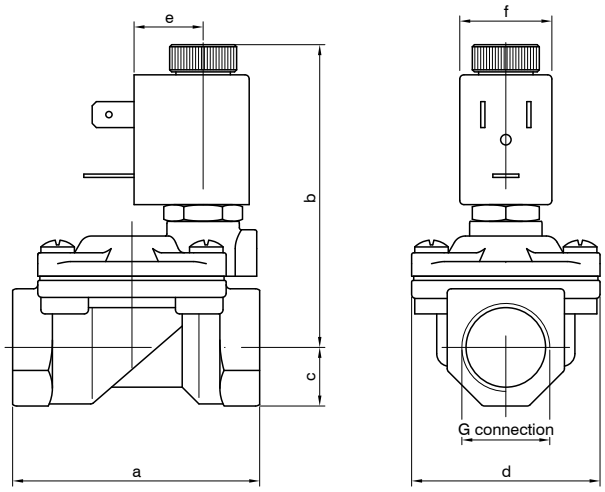


Diagram



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	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
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 - c UL us certified solenoid coils	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

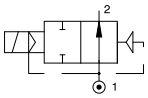


CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection						Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	C	D	E	F	G			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3207ⓒV10ⓑ	1/4"				/		10	1,5	0,15	15	15	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						

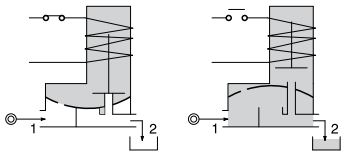
G connection	a	b	c	d	e	f	Weight (g)
1/4" Ø10	49	65	11	32	16	22	230
3/8" Ø10	49	65	11	32			240
3/8" Ø12	59	73	14	45			420
1/2" Ø12	59	73	14	45			390
3/4"	79	76	18	55			650
1"	96	85	20	72			1050
1" 1/4 Ø30	119	96	25	85			1700

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3207ⓒV10ⓑ => 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).

Pneumatic symbol

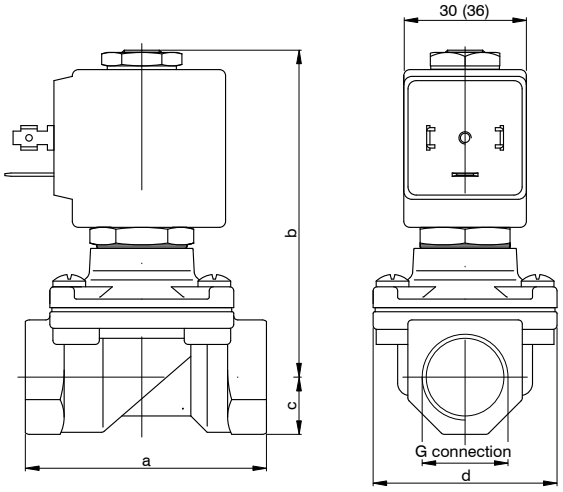


Diagram



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	Maximum admitted pressure (bar)	25
	Minimum differential pressure (bar)	0,15
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
OPTIONS (on request): - Manual override - Chemical nickel plating surface treatment - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us certified solenoid coils	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"



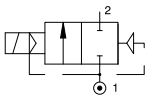
The data in brackets refer to the MK Series coil

CODE "V"= FPM seals	G connection (ISO 228) ❷= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			❸= Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3108❷V12❸	3/8"		/		12	2	0	10	/	20	15	/	MG/AC	30	-10 ... +140
F3108❷V12❸	/	1/2"	/		12	2,2		10	/						
F3108❷V12❸	3/8"		/		12	2		12	10	40	30	27	MK (AC/DC)	36	
F3108❷V12❸	/	1/2"	/		12	2,2		12	10						
F3108❷V18❸	/		3/4"	/	18	4,5		9	/	40	30	/			
F3108❷V25❸	/			1"	25	8,5		7	/						
F3108❷V18C❸	/		3/4"	/	18	4,5		/	9	/	/	27	MK/DC		
F3108❷V25C❸	/			1"	25	8,5		/	8						

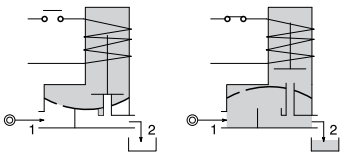
G connection	a	b	c	d	Weight (g) MG	Weight (g) MK
3/8"	59	83	14	45	520	600
1/2"	59	83	14	45	490	570
3/4"	79	90	18	55	/	810
1"	96	101	20	72	/	1220

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3108❷V12❸ => 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).

Pneumatic symbol



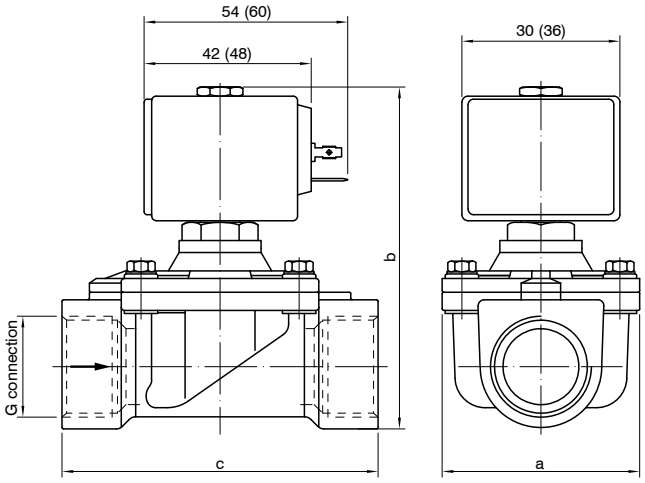
Diagram



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	Maximum admitted pressure(bar)	25
	Maximum fluid viscosity (mm^2/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
OPTIONS (on request): - Chemical nickel plating - c UL us certified solenoid coils	Mounting position	preferably with solenoid coil upwards

PNEUMAX FLUID CONTROL

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



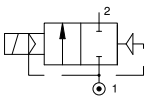
The data in brackets refer to the MK Series coil

CODE "V"= FPM seals	G connection (ISO 228) Ⓒ= Connection						Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption	Ⓑ= Solenoid coil		Temperature range (°C)
	C	D	E	F	G	H			Min	Max AC	Max DC	(W)	Series	Size	
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	

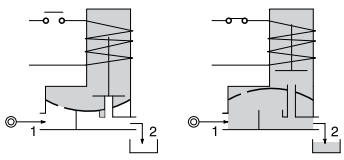
G connection	a	b	c
3/8"	50	89	56
1/2"	50	100	70
3/4"	50	100	70
3/4" (H)	65	103	104
1"	65	112	104
1" (H)	65	110	104
1" 1/4	94	130	128
1" 1/2	94	130	128

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3168ⒸV11Ⓑ => 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).

Pneumatic symbol



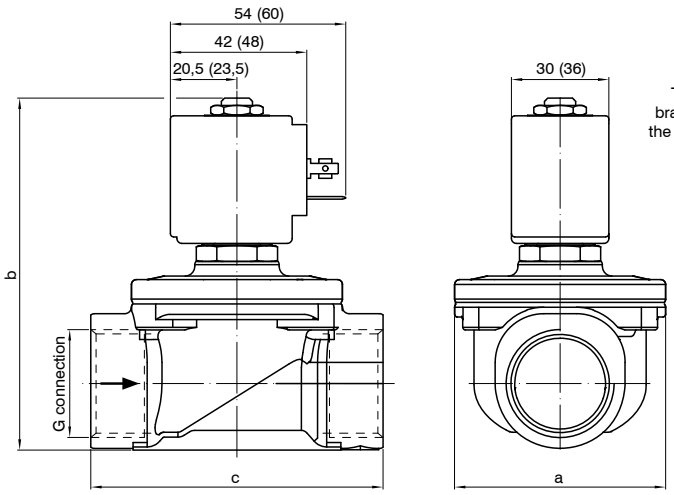
Diagram



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 (NBR on request)
OPTIONS (on request): - NPT connections - ATEX Ex d explosion protection solenoid coil - For use with oxygen - c UL us certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	16
Maximum fluid viscosity (mm^2/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



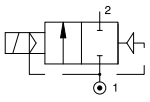
The data in brackets refer to the MK Series coil

CODE "V"= FPM seals	G connection (ISO 228) C= Connection						Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption	B= Solenoid coil		Temperature range (°C)
	C	D	E	F	G	H			Min	Max AC	Max DC	(W)	Series	Size	
F3178CV15B	3/8"				/		15	2,4	0	14	6	10	MG	30	-10 ... +140
										/	14	27	MK	36	
F3178CV16B	/	1/2"			/		16	3		14	6	10	MG	30	
										/	14	27	MK	36	
F3178CV20B	/		3/4"		/		20	3,6		14	6	10	MG	30	
										/	14	27	MK	36	
F3178CV25B	/			1"	/		25	8,4		14	3	10	MG	30	
										/	8	14	MK	36	
										/	14	27	MK	36	
F3178CV35B	/				1" 1/4	/	35	18		8	/	10	MG	30	
										14	2	14	MK	36	
										/	7	27	MK	36	
F3178CV40B	/					1" 1/2	40	19,2		8	/	10	MG	30	
										14	2	14	MK	36	
										/	7	27	MK	36	

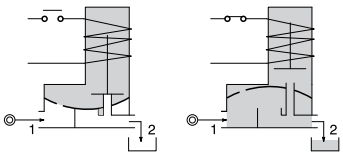
G connection	a	b	c
3/8"	52	92	68
1/2"	52	92	68
3/4"	58	100	75
1"	65	109	90
1" 1/4	94	126	128
1" 1/2	94	126	128

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).

Pneumatic symbol

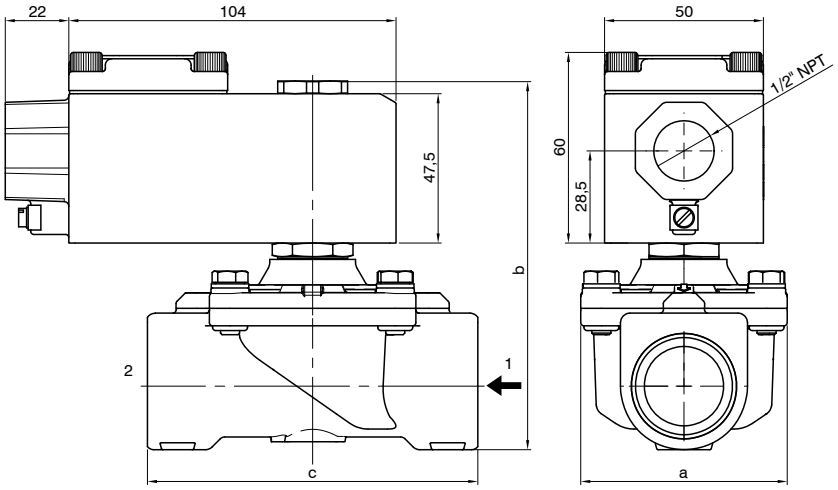


Diagram



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 (mm^2/s)	25cSt
	Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
	Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
OPTIONS (on request): - NPT connections - ATEX Ex d explosion protection solenoid coil - For use with oxygen - c UL us certified solenoid coils	Mounting position	preferably with solenoid coil upwards

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"

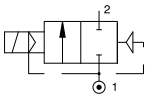


CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption (W)	ⓑ= Solenoid coil	Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC			
FX3168ⓒV11ⓑ	3/8"	/			11	1,2	0	5	5	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) 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			

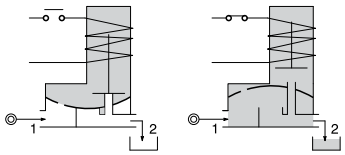
G connection	a	b	c
3/8"	50	95	56
1/2"	50	106	70
3/4"	50	106	70
3/4" (H)	65	109	104
1" (H)	65	116	104

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



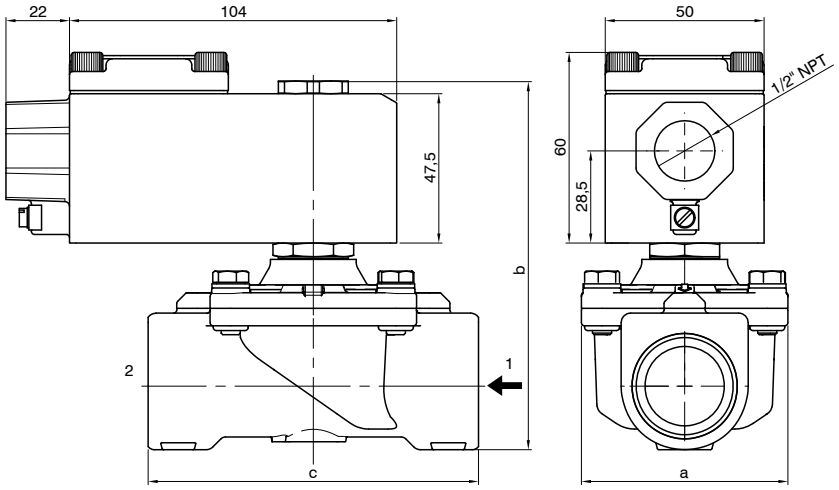
Diagram



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

Technical characteristics	
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

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"

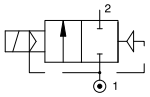


CODE "V"= FPM seals	G connection (ISO 228) ❸= Connection				Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption (W)	❽= Solenoid coil	Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC			
FX3178❸V15❽	3/8"		/		15	2,4	0	6	6	8	A6B= 24 Volt (AC 50-60Hz) A6E= 220/230 Volt (AC 50-60Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3178❸V16❽	/	1/2"	/		16	3		6	6			
FX3178❸V20❽	/		3/4"	/	20	3,6		6	6			
FX3178❸V25❽	/			1"	25	8,4		3	3			

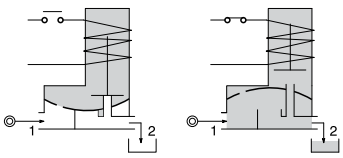
G connection	a	b	c
3/8"	52	98	68
1/2"	52	98	68
3/4"	58	106	75
1"	65	115	90

Example: FX3178❸V15❽ => 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



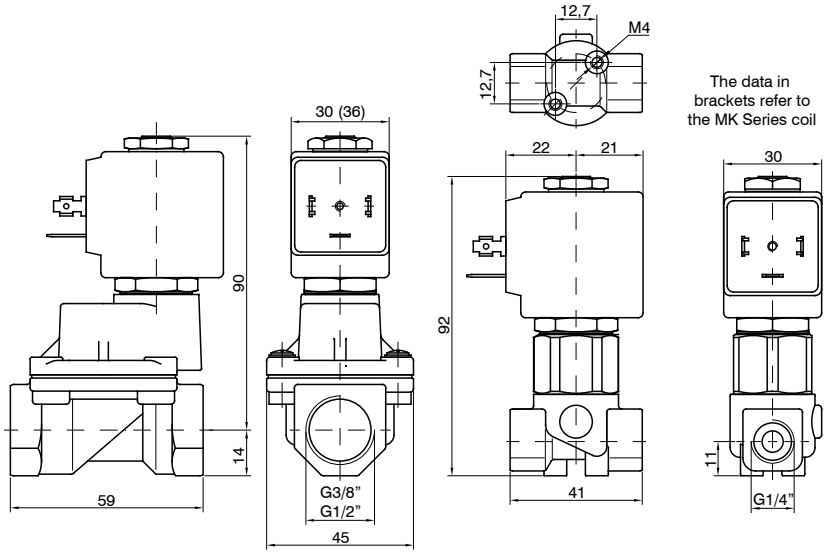
Diagram



Construction characteristics
- 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

Technical characteristics	
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

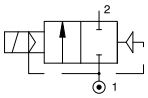
F3119 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1/4" ... 1/2"



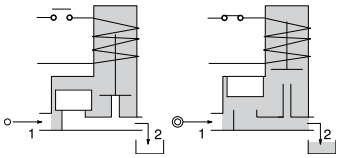
CODE "V"= FPM seals	G connection (ISO 228) ⓒ= Connection			Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3119ⓒV52ⓑ	1/4"	/		5,2	0,47	1,5	50	50	20	15	10	MG	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).

Pneumatic symbol



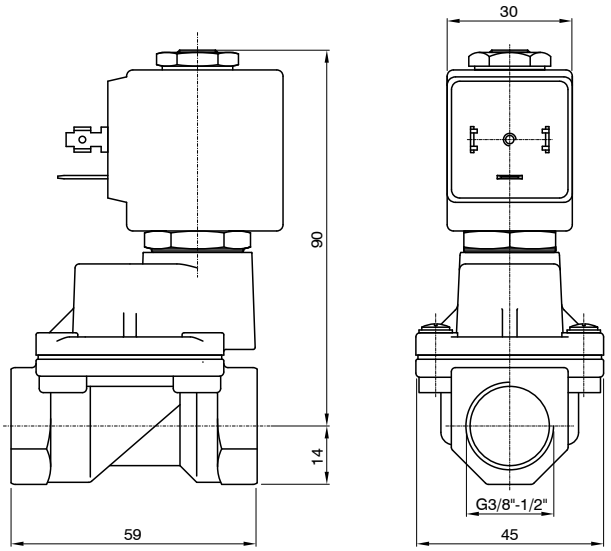
Diagram



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 - Brass piston - PTFE piston seal - Sealing assemblies mainly PTFE, others FPM **OPTIONS (on request):** - Chemical nickel plating - c UL us certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	60
Maximum fluid viscosity (mm^2/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

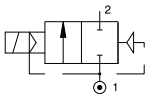
F3119W - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8" and 1/2"



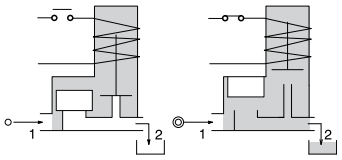
CODE Tenute "W" in PTFE	G connection (ISO 228) ⓒ= Connection		Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	C	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3119ⓒW12/1Ⓑ	3/8"	/	12	2	2,5	10	10	20	15	10	MG	30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

Example: F3119ⓒW12/1Ⓑ => 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).

Pneumatic symbol



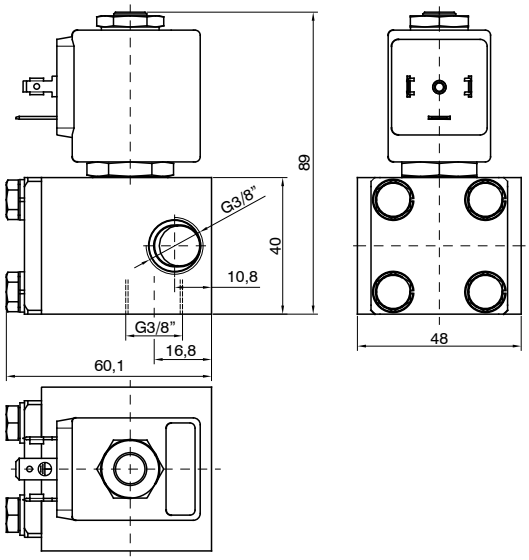
Diagram



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 - c UL us 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

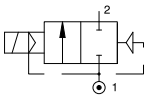
F3123 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 3/8”



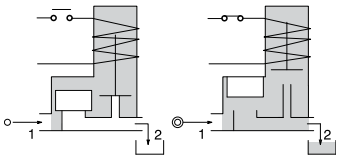
CODE Tenute “W” in PTFE	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	C			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3123ⓒW07ⓑ	3/8”	7	14	0,7	100	80	20	15	10	MG	30	-10 ... +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).

Pneumatic symbol



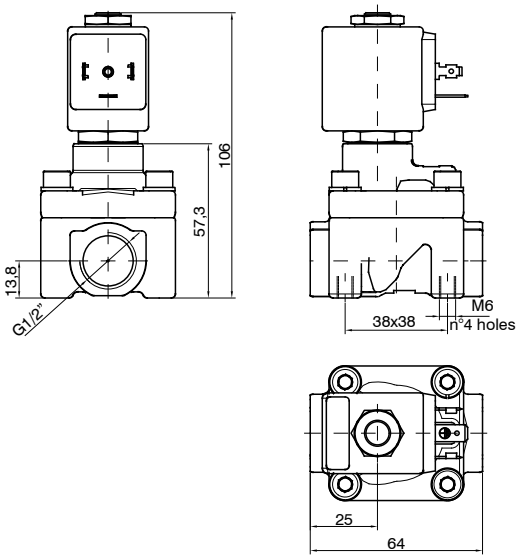
Diagram



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 - c UL us certified solenoid coils

Technical characteristics	
Maximum admitted pressure (bar)	200
Maximum fluid viscosity (mm^2/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

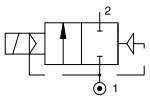
F3124 - 2-way solenoid valve N.C. brass body and cover, with G connection (ISO 228) - 1/2”



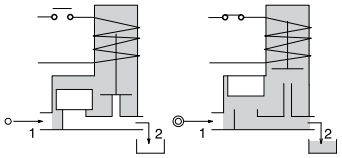
CODE Tenute “W” in PTFE	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	D			Min	Max AC	Max DC	AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
F3124ⓒW12Ⓑ	1/2”	12	60	3	100	100	20	15	10	MG	30	-10 ... +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).

Pneumatic symbol

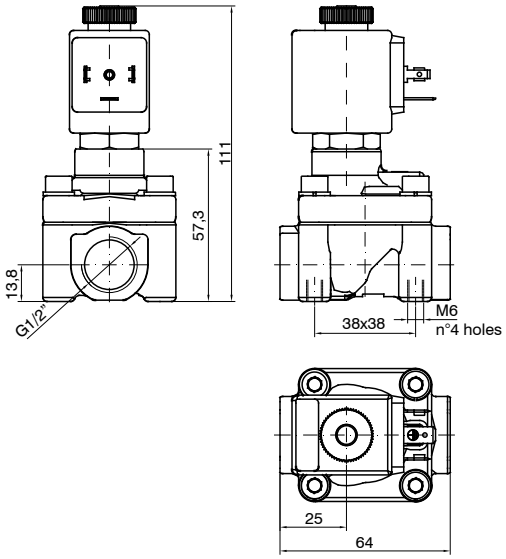


Diagram



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 - cULus certified solenoid coils	Maximum admitted pressure (bar)	150
	Maximum fluid viscosity (mm^2/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

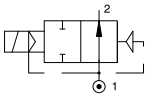
F3224 - 2-way solenoid valve N.O. brass body and cover, with G connection (ISO 228) - 1/2”



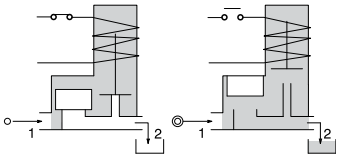
CODE Tenute “W” in PTFE	G connection (ISO 228) ❸= Connection	Orifice (mm)	KV (m^3/h)	Differential pressure (bar)			Power consumption			❽= Solenoid coil		Temperature range (°C)
	D			Min	Max		AC Inrush (VA)	AC Holding (VA)	DC (W)	Series	Size	
					AC	DC						
F3224❸W12❽	1/2”	12	60	3	50	50	20	15	10	MG	30	-10 ... +95

Example: F3224❸W12❽ => 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).

Pneumatic symbol



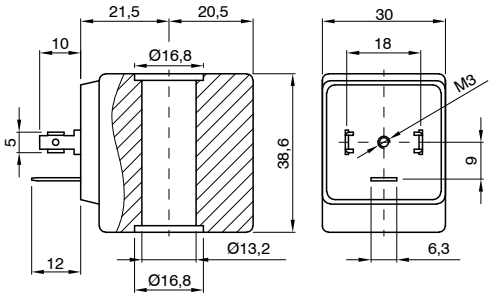
Diagram



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 - c UL us certified solenoid coils	Maximum admitted pressure (bar)	100
	Maximum fluid viscosity (mm^2/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

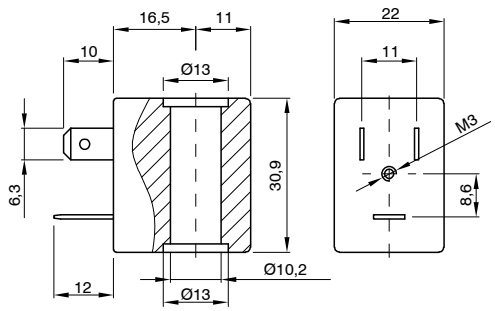


Ordering code	
MG(T)	
	VOLTAGE
	4= 12 VDC
T	5= 24 VDC
T	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)

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

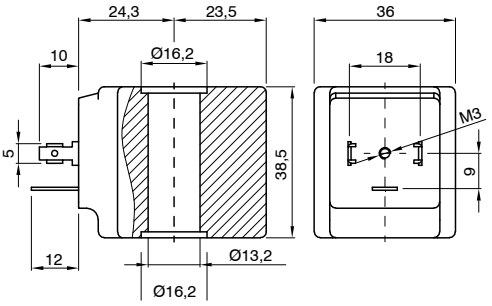


Ordering code	
MI(T)	
	VOLTAGE
	4= 12 VDC
	5= 24 VDC
T	21= 48-50 VAC (50-60 Hz)
	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)

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

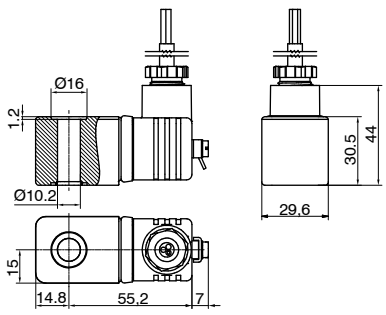


Ordering code	
MK(T)	
	VOLTAGE
	4= 12 VDC
T	5= 24 VDC
T	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)

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

II 2G Ex mb IIC T6, T5, T4 Gb
II 2D Ex mb IIIC T85°C, T100°C, T135°C Db IP65



Ordering code	
XME(T)-3	
	VOLTAGE
	5= 24 VDC
T	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 mt. cable	5,3 / 5,4	325

Series PVF

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

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

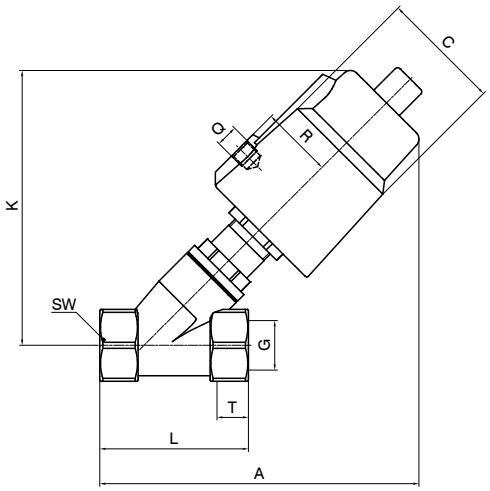


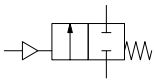
Table of dimensions

CODE	Ⓕ= Function		G connection	Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	T (mm)	A (mm)	L (mm)	SW (mm)	Ⓜ= Material	
	N.O.	N.C.											AISI	
PVF40Ⓕ15-Ⓜ	0	1	1/2"	40	50,5	27	111	1/8"	15	119	68	27	304	316
PVF50Ⓕ15-Ⓜ				50	60	33	124			131				
PVF50Ⓕ20-Ⓜ			3/4"	50	60	33	132	1/8"	16	140	75	32		
PVF50Ⓕ25-Ⓜ			1"	50	60	33	136	1/8"	17	145	90	40		
PVF63Ⓕ25-Ⓜ				63	75	41	162			169				
PVF63Ⓕ32-Ⓜ			1-1/4"	63	75	41	174	1/8"	21	187	116	50		
PVF90Ⓕ32-Ⓜ				90	106	55	223			235				
PVF63Ⓕ40-Ⓜ			1-1/2"	63	75	41	175	1/8"	21	187	116	56		
PVF90Ⓕ40-Ⓜ				90	106	55	223			235				
PVF63Ⓕ50-Ⓜ			2"	63	75	41	183	1/8"	22	201	138	69		
PVF90Ⓕ50-Ⓜ			2"	90	106	55	232			250				
PVF125AⒻ65-Ⓜ			2-1/2"	125 (Aluminium)	148	74	302	1/4"	26	320	178	85		
PVF125AⒻ80-Ⓜ			3"	125 (Aluminium)	148	74	313	1/4"	27	372	210	100		

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

CODE	Ⓕ= Function		G connection	KV (m^3/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	Ⓜ= Material	
	N.O.	N.C.				Above seat	Under seat	Above seat	Under seat		AISI	
PVF40Ⓕ15-Ⓜ	0	1	1/2"	4,8	40	16	16	16	13	3 ... 8	304	316
PVF50Ⓕ15-Ⓜ				4,8	50	16	16	16	14			
PVF50Ⓕ20-Ⓜ			3/4"	10	50	12	16	16	14			
PVF50Ⓕ25-Ⓜ			1"	14	50	3	13	16	8			
PVF63Ⓕ25-Ⓜ				14	63	16	16	16	13			
PVF63Ⓕ32-Ⓜ			1-1/4"	23	63	14	13	16	6			
PVF90Ⓕ32-Ⓜ				23	90	/	/	16	16			
PVF63Ⓕ40-Ⓜ			1-1/2"	30	63	14	7	16	5			
PVF90Ⓕ40-Ⓜ				30	90	/	16	16	16			
PVF63Ⓕ50-Ⓜ			2"	70	63	6	5	9	3			
PVF90Ⓕ50-Ⓜ			2"	70	90	/	12	16	10			
PVF125AⒻ65-Ⓜ			2-1/2"	107	125 (Aluminium)	/	14	16	9			
PVF125AⒻ80-Ⓜ			3"	157	125 (Aluminium)	/	12	12	5	3 ... 10		

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Poppet)
- 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	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids. - Fluid temperature: max. +60°C.

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

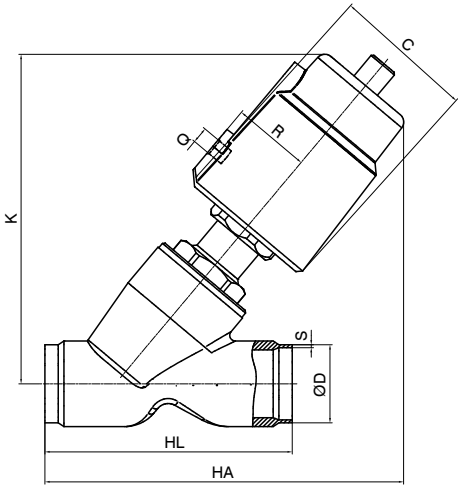


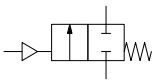
Table of dimensions

CODE	Ⓕ= Function		Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	HA (mm)	HL (mm)	DIN11850-2		DIN11850-3		Ⓜ= Material	
	N.O.	N.C.								D	S	D	S	AISI 304	AISI 316
PVF40Ⓕ15H-Ⓜ	0	1	40	50,5	27	112	1/8"	118	70	19	1,5	20	2	A	B
PVF50Ⓕ15H-Ⓜ			50	60	33	125		128							
PVF50Ⓕ20H-Ⓜ			50	60	33	132		135	82	23		24			
PVF50Ⓕ25H-Ⓜ			50	60	33	136		150	100	29		30			
PVF63Ⓕ25H-Ⓜ			63	75	41	162		175							
PVF63Ⓕ32H-Ⓜ			63	75	41	174		186	125	35		36			
PVF90Ⓕ32H-Ⓜ			90	106	55	223		232							
PVF63Ⓕ40H-Ⓜ			63	75	41	175		190	130	41		42			
PVF90Ⓕ40H-Ⓜ			90	106	55	223		235							
PVF63Ⓕ50H-Ⓜ			63	75	41	183		206	155	53		54			
PVF90Ⓕ50H-Ⓜ			90	106	55	232		250							

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

CODE	Ⓕ= Function		KV (m^3/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	Ⓜ= Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40Ⓕ15H-Ⓜ	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50Ⓕ15H-Ⓜ			4,8	50	16	16	16	14			
PVF50Ⓕ20H-Ⓜ			10	50	12	16	16	14			
PVF50Ⓕ25H-Ⓜ			14	50	3	13	16	8			
PVF63Ⓕ25H-Ⓜ			14	63	16	16	16	13			
PVF63Ⓕ32H-Ⓜ			23	63	14	13	16	6			
PVF90Ⓕ32H-Ⓜ			23	90	/	/	16	16			
PVF63Ⓕ40H-Ⓜ			30	63	14	7	16	5			
PVF90Ⓕ40H-Ⓜ			30	90	/	16	16	16			
PVF63Ⓕ50H-Ⓜ			70	63	6	5	9	3			
PVF90Ⓕ50H-Ⓜ			70	90	/	12	16	10			

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Poppet)
- 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	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids. - Fluid temperature: max. +60°C.

2-way N.C. angle seat valve. Quick fit ends (Designed to prevent water hammer)

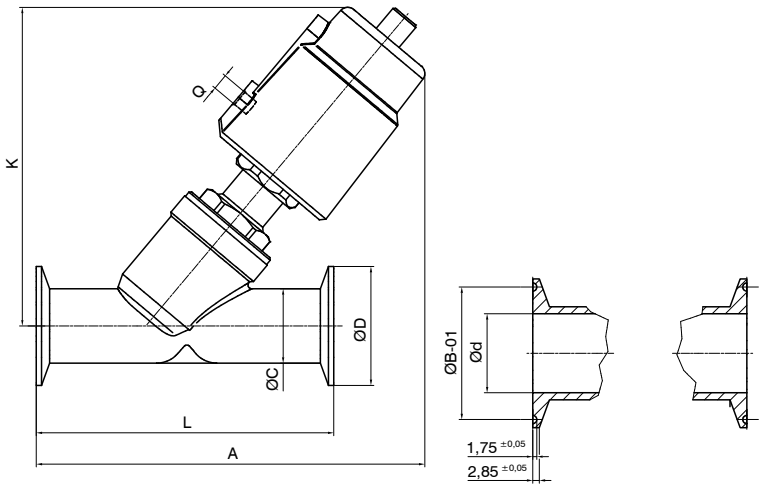


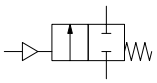
Table of dimensions

CODE	Ⓕ= Function		Actuator (mm)	A (mm)	K (mm)	Q (mm)	L (mm)	C (mm)	B (mm)	Ød	ØD	Ⓜ= Material	
	N.O.	N.C.										AISI 304	AISI 316
PVF40Ⓕ15K-Ⓜ	0	1	40	130	115	1/8"	80	19	27,5	15	34	A	B
PVF50Ⓕ15K-Ⓜ			50	140	126								
PVF50Ⓕ20K-Ⓜ			50	158	148		130	25	43,5	19	50,5		
PVF50Ⓕ25K-Ⓜ			50	165	140		130	32	43,5	27	50,5		
PVF63Ⓕ25K-Ⓜ			63	188	166								
PVF63Ⓕ32K-Ⓜ			63	200	174		146	37	43,5	31	50,5		
PVF90Ⓕ32K-Ⓜ			90	245	223								
PVF63Ⓕ40K-Ⓜ			63	210	175		160	40	56,5	33	64		
PVF90Ⓕ40K-Ⓜ			90	255	223								
PVF63Ⓕ50K-Ⓜ			63	221	185		175	53	56,5	45	64		
PVF90Ⓕ50K-Ⓜ			90	265	235								

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

CODE	Ⓕ= Function		KV (m^3/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	Ⓜ= Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40Ⓕ15K-Ⓜ	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50Ⓕ15K-Ⓜ			4,8	50	16	16	16	14			
PVF50Ⓕ20K-Ⓜ			10	50	12	16	16	14			
PVF50Ⓕ25K-Ⓜ			14	50	3	13	16	8			
PVF63Ⓕ25K-Ⓜ			14	63	16	16	16	13			
PVF63Ⓕ32K-Ⓜ			23	63	14	13	16	6			
PVF90Ⓕ32K-Ⓜ			23	90	/	/	16	16			
PVF63Ⓕ40K-Ⓜ			30	63	14	7	16	5			
PVF90Ⓕ40K-Ⓜ			30	90	/	16	16	16			
PVF63Ⓕ50K-Ⓜ			70	63	6	5	9	3			
PVF90Ⓕ50K-Ⓜ			70	90	/	12	16	10			

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Poppet)
- 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	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids. - Fluid temperature: max. +60°C.

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

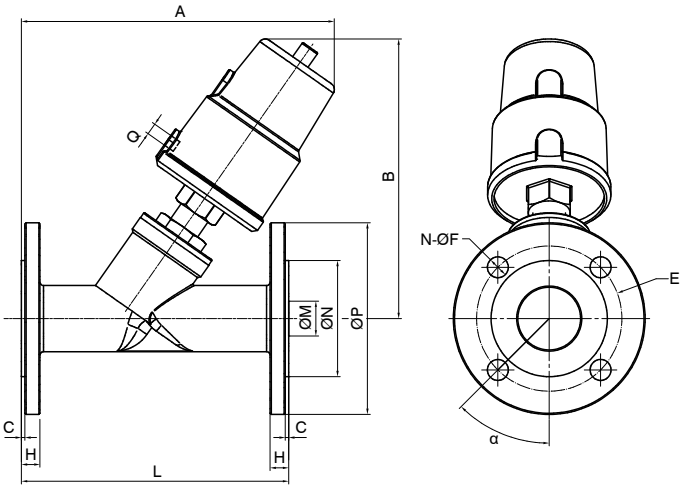


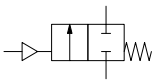
Table of dimensions

CODE	Ⓕ= Function		Actuator (mm)	A (mm)	B (mm)	Q (mm)	L (mm)	C (mm)	H (mm)	ØE	N-ØF	ØM	ØN	ØP	α	Ⓜ= Material	
	N.O.	N.C.														AISI 304	AISI 316
PVF40Ⓕ15F-Ⓜ	0	1	40	135	125	1/8”	130	2	14	65	4-14	16	45	95	45°	A	B
PVF50Ⓕ15F-Ⓜ			50	145	140												
PVF50Ⓕ20F-Ⓜ			50	165	140		150	2	14	75	4-14	19	56	105			
PVF50Ⓕ25F-Ⓜ			50	170	145		160	2	14	85	4-14	26	65	115			
PVF63Ⓕ25F-Ⓜ			63	190	175												
PVF63Ⓕ32F-Ⓜ			63	190	188		180	2	16	100	4-18	31	78	140			
PVF90Ⓕ32F-Ⓜ			90	230	235												
PVF63Ⓕ40F-Ⓜ			63	206	190		200	3	16	110	4-18	38	84	150			
PVF90Ⓕ40F-Ⓜ			90	250	240												
PVF63Ⓕ50F-Ⓜ			63	235	195		230	3	16	125	4-18	49	100	165			
PVF90Ⓕ50F-Ⓜ			90	277	245												

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

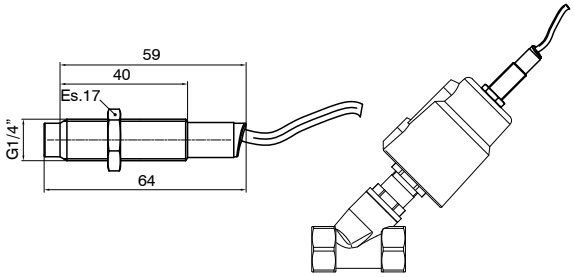
CODE	Ⓕ= Function		KV (m^3/h)	Actuator (mm)	Maximum ΔP (bar) (N.O.)		Maximum ΔP (bar) (N.C.)		Pilot pressure (bar)	Ⓜ= Material	
	N.O.	N.C.			Above seat	Under seat	Above seat	Under seat		AISI 304	AISI 316
PVF40Ⓕ15F-Ⓜ	0	1	4,8	40	16	16	16	13	3 ... 8	A	B
PVF50Ⓕ15F-Ⓜ			4,8	50	16	16	16	14			
PVF50Ⓕ20F-Ⓜ			10	50	12	16	16	14			
PVF50Ⓕ25F-Ⓜ			14	50	3	13	16	8			
PVF63Ⓕ25F-Ⓜ			14	63	16	16	16	13			
PVF63Ⓕ32F-Ⓜ			23	63	14	13	16	6			
PVF90Ⓕ32F-Ⓜ			23	90	/	/	16	16			
PVF63Ⓕ40F-Ⓜ			30	63	14	7	16	5			
PVF90Ⓕ40F-Ⓜ			30	90	/	16	16	16			
PVF63Ⓕ50F-Ⓜ			70	63	6	5	9	3			
PVF90Ⓕ50F-Ⓜ			70	90	/	12	16	10			

Pneumatic symbol



Construction characteristics	Technical characteristics (Valve body)	Technical characteristics (Poppet)
- 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	- Body: AISI 304 - Pilot fluid: dry or lubricated air, gas and neutral fluids. - Fluid temperature: max. +60°C.

Proximity sensor



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

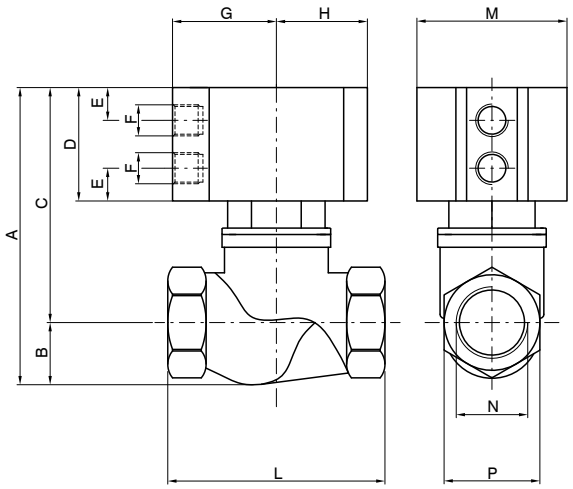
Nickel brass sensor, usable on valves up to size 2 inches
for detection ON - OFF
Cable: 2m
OPTIONS (on request):
A reduction is available for sizes 2 1/2" and 3".

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

Series PVA

Brass body angle seat valves and pad valve.

"T" body version pad valve



Ordering code	
PVA.B.Ⓐ.Ⓟ.T.Ⓒ.Ⓜ	
Ⓐ	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

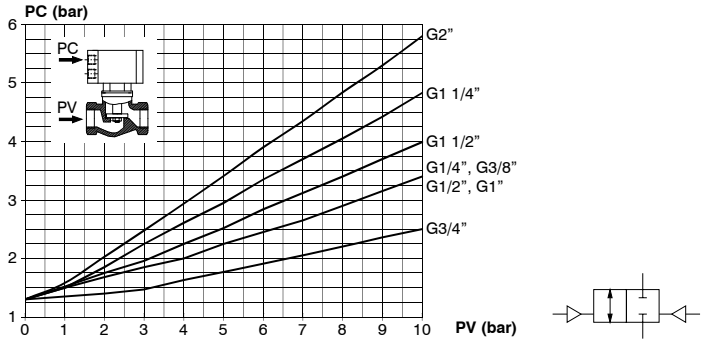
Table of dimensions

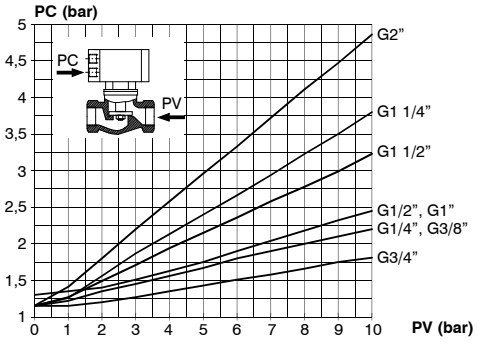
	Non magnetic piston			Magnetic piston										Technical data		
Connection (N)	A	C	D	A	C	D	B	E	F	G	H	L	M	P	Actuator (Ø)	Valve (Ø)	Weight (g)
G1/4"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	40	13,5	350
G3/8"	93,5	77,5	41	97,5	81,5	45	16	10,25		32,5	28,5	64	47	25	40	13,5	350
G1/2"	93,5	78	41	99,5	82	45	17,5	10,25		32,5	28,5	68	47	30	40	15	400
G3/4"	105	83	41	113	90	48	22	11,25		44	40	79	70	36	63	20,5	850
G1"	117	89	41	125	101	53	28	11,25		44	40	94	70	44	63	25	1100
G1 1/4"	131	103	48	136	108	53	28	11,25		44	40	110	70	55	63	30	1400
G1 1/2"	154	118	57	166	130	69	36	13,75		56	49	120	90	60	80	38	2100
G2"	169	124	57	181	136	69	45	13,75		56	49	140	90	73	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).

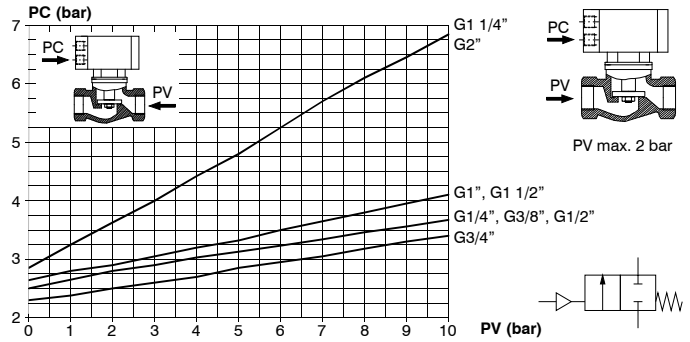
Pressure curves

DOUBLE ACTING CYLINDER

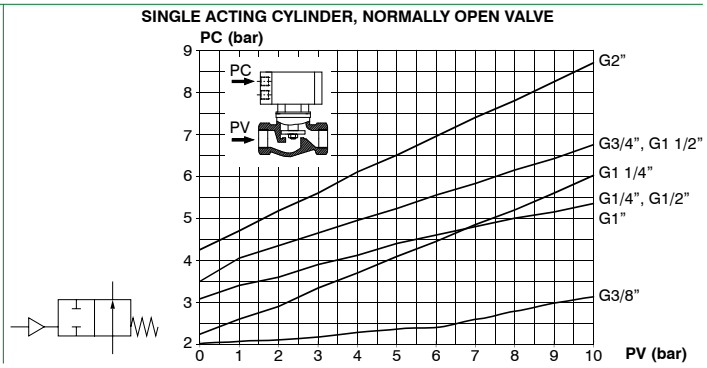




SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE

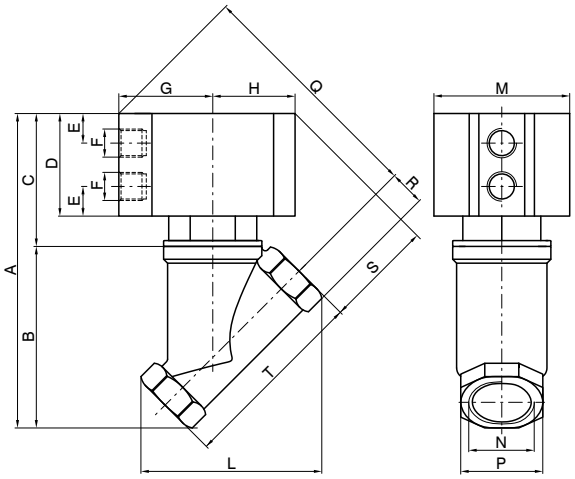


SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE



Construction characteristics	Technical 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	Pneumatic cylinder fliuid	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.Ⓐ.Ⓟ.Y.Ⓒ.Ⓜ	
	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

	Non magnetic piston					Magnetic piston													
Connection (N)	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

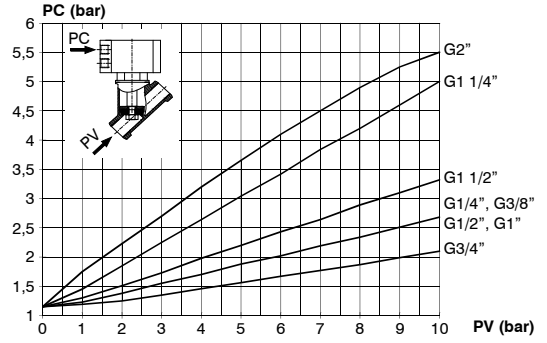
Technical data

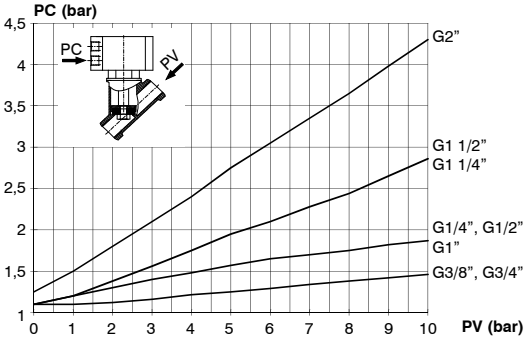
Actuator (Ø)	Valve (Ø)	Weight (g)
40	13	350
40	13	350
40	13	400
63	18	850
63	21,5	850
63	30	1200
80	36	2000
80	46	2300

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).

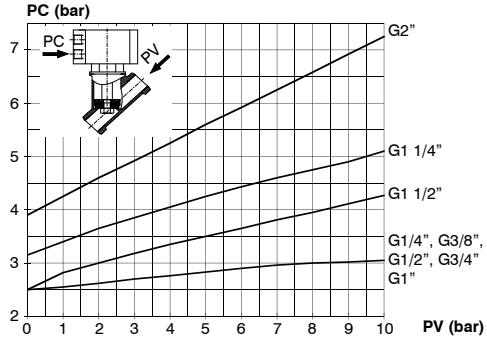
Pressure curves

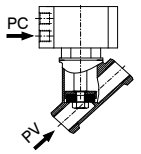
DOUBLE ACTING CYLINDER



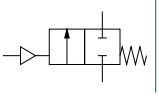


SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE

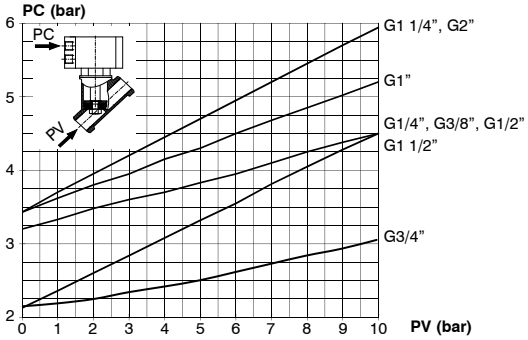


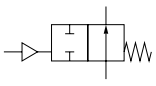


PV max. 2 bar



SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE





Construction characteristics	Technical 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	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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