PNEUMAX

PNEUMAX FLUID CONTROL

CATALOGUE

Pneumax Fluid Control Catalogue

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

Pneumax Group

Smart Technologies and Human Competence

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

The desire to provide the service and specific application skills has led to the creation of 3 business units, dedicated to **Industrial Automation**, **Process Automation** and **Automotive sector**.
With the assistance of the specific Business unit Development Manager, Pneumax are able to design solutions than can add value to individual customer applications.

Pneumatic technology

Electric actuation

Fluid control

Industrial automation

Process automation

Automotive

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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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Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

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

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

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

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

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

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

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

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

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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						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3105ⓒV25ⓑ => F3105AV25MI58:
2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8”, FPM seals, orifice 2,5 mm, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - Stainless steel guide tube - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - 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	130
Weight (g) with solenoid coil MG series	180

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

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

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.
Example: F3106ⒸV52Ⓑ => F3106BV52MG58:
2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4”, FPM seals, 5,2 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MG58, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - Stainless steel seat insert (up to Ø4,5) - For use with oxygen - 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 (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Ambient temperature: with class H solenoid coil (°C)	-10 ... +80
Mounting position	Indifferent
Weight (g) with solenoid coil MG series	300
Weight (g) with solenoid coil MK series	380

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

CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection		Orifice (mm)	KV (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	
F3106ⒸV10Ⓑ	3/8”	1/2”	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3106ⒸV12Ⓑ			1,2	0,05		60	60						
F3106ⒸV15Ⓑ			1,5	0,07		30	26						
F3106ⒸV20Ⓑ			2	0,1		22	20						
F3106ⒸV25Ⓑ			2,5	0,15		16	14						
F3106ⒸV30Ⓑ			3	0,25		15	10						
F3106ⒸV35Ⓑ			3,5	0,32		10	8						
F3106ⒸV40Ⓑ			4	0,36		8	5						
F3106ⒸV45Ⓑ			4,5	0,41		6,5	3,5						
F3106ⒸV52Ⓑ			5,2	0,47		4	1,8						
F3106ⒸV64Ⓑ			6,4	0,64		3	1						
F3106ⒸV10Ⓑ	3/8”	1/2”	1	0,04		100	100	40	30	27	MK	36	
F3106ⒸV12Ⓑ			1,2	0,05		100	100						
F3106ⒸV15Ⓑ			1,5	0,07		80	80						
F3106ⒸV20Ⓑ			2	0,1		50	40						
F3106ⒸV25Ⓑ			2,5	0,15		35	33						
F3106ⒸV30Ⓑ			3	0,25		25	24						
F3106ⒸV35Ⓑ			3,5	0,32		20	19						
F3106ⒸV40Ⓑ			4	0,36		16	15						
F3106ⒸV45Ⓑ			4,5	0,41		14	13						
F3106ⒸV52Ⓑ			5,2	0,47		10	9						
F3106ⒸV64Ⓑ			6,4	0,64		5	4,5						

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.
Example: F3106ⒸV52Ⓑ => F3106DV52MK5:
2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/2”, FPM seals, 5,2 mm orifice, solenoid coil 24 VDC (MK5, size 36 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics

- 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

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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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3106ⒸV12Ⓑ			1,2	0,05		60	60				
FX3106ⒸV15Ⓑ			1,5	0,07		30	26				
FX3106ⒸV20Ⓑ			2	0,1		22	20				
FX3106ⒸV25Ⓑ			2,5	0,15		16	14				
FX3106ⒸV30Ⓑ			3	0,25		15	10				
FX3106ⒸV35Ⓑ			3,5	0,32		10	8				
FX3106ⒸV40Ⓑ	/		4	0,36		8	5				
FX3106ⒸV45Ⓑ	/		4,5	0,41		6,5	3,5				
FX3106ⒸV52Ⓑ	/		5,2	0,47		4	1,8				
FX3106ⒸV64Ⓑ	/		6,4	0,64		3	1				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3106Ⓒ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
- Brass body - Red light alloy housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - Stainless steel seat insert (up to Ø4,5) - Stainless steel solenoid coil housing

Technical characteristics	
Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm^2/s)	25cSt
Ambient temperature (°C)	-40 ... +60
Mounting position	Vertical with solenoid coil upwards
Weight (g)	600

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3106ⒸV12Ⓑ			1,2	0,05		60	60				
FX3106ⒸV15Ⓑ			1,5	0,07		30	26				
FX3106ⒸV20Ⓑ			2	0,1		22	20				
FX3106ⒸV25Ⓑ			2,5	0,15		16	14				
FX3106ⒸV30Ⓑ			3	0,25		15	10				
FX3106ⒸV35Ⓑ			3,5	0,32		10	8				
FX3106ⒸV40Ⓑ			4	0,36		8	5				
FX3106ⒸV45Ⓑ			4,5	0,41		6,5	3,5				
FX3106ⒸV52Ⓑ			5,2	0,47		4	1,8				
FX3106ⒸV64Ⓑ			6,4	0,64		3	1				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3106ⒸV52Ⓑ => FX3106DV52A60:
2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/2", FPM seals, 5,2 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

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

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

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

CODE "V"= FPM seals	G connection (ISO 228) Ⓒ= Connection			Orifice (mm)	KV (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	
F3110ⒸV10Ⓑ	1/4"	3/8"	1/2"	1	0,04	0	80	80	20	15	10	MG	30	-10 ... +140
F3110ⒸV12Ⓑ				1,2	0,05		60	60						
F3110ⒸV15Ⓑ				1,5	0,07		30	26						
F3110ⒸV20Ⓑ				2	0,1		22	20						
F3110ⒸV25Ⓑ				2,5	0,15		16	14						
F3110ⒸV30Ⓑ				3	0,25		15	10						
F3110ⒸV35Ⓑ				3,5	0,32		10	8						
F3110ⒸV40Ⓑ				4	0,36		8	5						
F3110ⒸV45Ⓑ				4,5	0,41		6,5	3,5						
F3110ⒸV52Ⓑ				5,2	0,47		4	1,8						
F3110ⒸV64Ⓑ				6,4	0,64		3	1						
F3110ⒸV10Ⓑ	1/4"	3/8"	1/2"	1	0,04		100	100	40	30	27	MK	36	
F3110ⒸV12Ⓑ				1,2	0,05		100	100						
F3110ⒸV15Ⓑ				1,5	0,07		80	80						
F3110ⒸV20Ⓑ				2	0,1		50	40						
F3110ⒸV25Ⓑ				2,5	0,15		35	33						
F3110ⒸV30Ⓑ				3	0,25		25	24						
F3110ⒸV35Ⓑ				3,5	0,32		20	19						
F3110ⒸV40Ⓑ				4	0,36		16	15						
F3110ⒸV45Ⓑ				4,5	0,41		14	13						
F3110ⒸV52Ⓑ				5,2	0,47		10	9						
F3110ⒸV64Ⓑ				6,4	0,64		5	4,5						

N.B. For use with steam, maximum admitted pressure PS is 9 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM.
Example: F3110ⒸV25Ⓑ => F3110BV25MG5:
2-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "*Solenoid coils - Series F300*").

Pneumatic symbol

Diagram

Construction characteristics
- 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 - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3110ⒸV12Ⓑ				1,2	0,05		60	60				
FX3110ⒸV15Ⓑ				1,5	0,07		30	26				
FX3110ⒸV20Ⓑ				2	0,1		22	20				
FX3110ⒸV25Ⓑ				2,5	0,15		16	14				
FX3110ⒸV30Ⓑ				3	0,25		15	10				
FX3110ⒸV35Ⓑ				3,5	0,32		10	8				
FX3110ⒸV40Ⓑ				4	0,36		8	5				
FX3110ⒸV45Ⓑ				4,5	0,41		6,5	3,5				
FX3110ⒸV52Ⓑ				5,2	0,47		4	1,8				
FX3110ⒸV64Ⓑ				6,4	0,64		3,5	1				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3110ⒸV52Ⓑ => FX3110DV52A60:
2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/2", FPM seals, 5,2 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 302 stainless steel springs - Red light alloy or stainless steel housing - 1/2" NPT electrical connection (M20x1,5 on request) - FPM sealing assemblies

Technical characteristics	
Maximum admitted pressure (bar)	100
Maximum fluid viscosity (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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Silver advance ring - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Chemical nickel plating surface treatment - Stainless steel guide tube - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC

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)	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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 316 stainless steel springs - Silver advance ring - FPM sealing assemblies **OPTIONS (on request):** - For use with oxygen - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3170ⒸV12Ⓑ				1,2	0,05		60	60				
FX3170ⒸV15Ⓑ				1,5	0,07		30	26				
FX3170ⒸV20Ⓑ				2	0,1		22	20				
FX3170ⒸV25Ⓑ				2,5	0,15		16	14				
FX3170ⒸV30Ⓑ				3	0,25		15	10				
FX3170ⒸV35Ⓑ				3,5	0,32		10	8				
FX3170ⒸV40Ⓑ				4	0,36		8	5				
FX3170ⒸV45Ⓑ				4,5	0,41		6,5	3,5				

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3170ⒸV45Ⓑ => FX3170DV45A60:
2-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/2", FPM seals, 4,5 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

Construction characteristics
- 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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - Silver advance ring - AISI 316 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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Ⓑ => F3271AV25MI58:
2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/8”, FPM seals, 2,5 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - Silver advance ring - AISI 316 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - 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)	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	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3210ⒸV20Ⓑ				2	0,1		17							
F3210ⒸV25Ⓑ				2,5	0,15		12							
F3210ⒸV30Ⓑ				3	0,25		9							
F3210ⒸV35Ⓑ				3,5	0,32		7							
F3210ⒸV40Ⓑ				4	0,36		5,5							
F3210ⒸV45Ⓑ				4,5	0,41		4,5							
F3210ⒸV52Ⓑ				5,2	0,47		3							
F3210ⒸV15Ⓑ	1/4"	3/8"	1/2"	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3210ⒸV20Ⓑ				2	0,1			11						
F3210ⒸV25Ⓑ				2,5	0,15			7						
F3210ⒸV30Ⓑ				3	0,25			6,5						
F3210ⒸV35Ⓑ				3,5	0,32			4						
F3210ⒸV40Ⓑ				4	0,36			3,5						
F3210ⒸV45Ⓑ				4,5	0,41			3						
F3210ⒸV52Ⓑ				5,2	0,47			2,2						
F3210ⒸV15Ⓑ	1/4"	3/8"	1/2"	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36	
F3210ⒸV20Ⓑ				2	0,1		17	17						
F3210ⒸV25Ⓑ				2,5	0,15		12	12						
F3210ⒸV30Ⓑ				3	0,25		9	9						
F3210ⒸV35Ⓑ				3,5	0,32		7	7						
F3210ⒸV40Ⓑ				4	0,36		5,5	5,5						
F3210ⒸV45Ⓑ				4,5	0,41		4,5	4,5						
F3210ⒸV52Ⓑ				5,2	0,47		3	3						
F3210ⒸV64Ⓑ				6,4	0,64		3,5	3,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3210ⒸV25Ⓑ => F3210BV25MG5:
2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/4", FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section "*Solenoid coils - Series F300*").

Pneumatic symbol

Diagram

Construction characteristics

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

OPTIONS (on request):
- Silver advance ring
- For use with oxygen
- 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - For use with oxygen - 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
Mounting position	Indifferent
Weight (g)	150

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

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3206ⒸV25Ⓑ => F3206BV25MG5:
2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/4”, FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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) Ⓒ= 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	
F3206ⒸV15Ⓑ	3/8”	1/2”	1,5	0,07	0	23	/	20	15	/	MG/AC	30	-10 ... +140
F3206ⒸV20Ⓑ			2	0,1		17							
F3206ⒸV25Ⓑ			2,5	0,15		12							
F3206ⒸV30Ⓑ			3	0,25		9							
F3206ⒸV35Ⓑ			3,5	0,32		7							
F3206ⒸV40Ⓑ			4	0,36		5,5							
F3206ⒸV45Ⓑ			4,5	0,41		4,5							
F3206ⒸV52Ⓑ			5,2	0,47		3							
F3206ⒸV15Ⓑ	3/8”	1/2”	1,5	0,07		/	18	/	/	10	MG/DC	30	
F3206ⒸV20Ⓑ			2	0,1			11						
F3206ⒸV25Ⓑ			2,5	0,15			7						
F3206ⒸV30Ⓑ			3	0,25			6,5						
F3206ⒸV35Ⓑ			3,5	0,32			4						
F3206ⒸV40Ⓑ			4	0,36			3,5						
F3206ⒸV45Ⓑ			4,5	0,41			3						
F3206ⒸV52Ⓑ			5,2	0,47			2,2						
F3206ⒸV15Ⓑ	3/8”	1/2”	1,5	0,07		23	23	40	30	27	MK (AC/DC)	36	
F3206ⒸV20Ⓑ			2	0,1		17	17						
F3206ⒸV25Ⓑ			2,5	0,15		12	12						
F3206ⒸV30Ⓑ			3	0,25		9	9						
F3206ⒸV35Ⓑ			3,5	0,32		7	7						
F3206ⒸV40Ⓑ			4	0,36		5,5	5,5						
F3206ⒸV45Ⓑ			4,5	0,41		4,5	4,5						
F3206ⒸV52Ⓑ			5,2	0,47		3	3						
F3206ⒸV64Ⓑ			6,4	0,64		3,5	3,5						

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3206ⒸV25Ⓑ => F3206DV25MG5:
2-way solenoid valve normally open, direct acting poppet type with G connection (ISO 228) 1/2”, FPM seals, 2,5 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Stainless steel guide tube - Chemical nickel plating surface treatment - 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

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													-10 ... +140
F3305ⒸV12Ⓑ	1/8”	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	
F3305ⒸV15Ⓑ		1,5	1,5	0,06		10	10						
F3305ⒸV20Ⓑ		2	1,7	0,09		6	6						
N.O. - Normally open													
F3305ⒸV15SⒷ	1/8”	1,5	1,5	0,06	0	10	10	12	8	6,5	MI	22	
F3305ⒸV17SⒷ		1,7	2	0,07		6	6						
U - Universal													
F3305ⒸV15UⒷ	1/8”	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22	

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3305ⒸV12Ⓑ => F3305AV12MI5:
3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8”, FPM seals, 1,2 mm inlet orifice, solenoid coil 24 VDC (MI5, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - Brass guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Stainless steel guide tube - Chemical nickel plating surface treatment - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us certified solenoid coils - Exhaust port with hosetail connection - 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
Mounting position	Universal
Weight (g)	110

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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														-10 ... +140
F3306ⒸV15Ⓑ	1/8”	1/4”	1,5	2,4	0,07	0	20	20	20	15	10	MG	30	
F3306ⒸV20Ⓑ			2	2,4	0,11		13	13						
F3306ⒸV25Ⓑ			2,5	2,4	0,16		10	10						
N.O. - Normally open														
F3306ⒸV25SⒷ	1/8”	1/4”	2,4	2,5	0,16	0	9	9	20	15	10	MG	30	
F3306ⒸV29SⒷ			2,9	3	0,20		6,5	6,5						
U - Universal														
F3306ⒸV25UⒷ	1/8”	1/4”	2,5	2,4	0,16	0	5	4	20	15	10	MG	30	

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3306ⒸV15Ⓑ => F3306AV15MG5:
3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8”, FPM seals, 1,5 mm inlet orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - 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)	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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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													-10 ... +140
F3311ⒸV12Ⓑ	1/8”	1,2	1,5	0,04	0	15	15	12	8	6,5	MI	22	
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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 303 stainless steel body - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Silver advance ring - c UL us 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

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

CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (m³/h)	Differential pressure (bar)			Power consumption			ⓑ= Solenoid coil		Temperature range (°C)
	B	Inlet	Exhaust		Min	Max AC	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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

N.C.

N.A.

U

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3371ⒸV12Ⓑ => F3371AV12MI58:
3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/8”, FPM seals, 1,2 mm inlet orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - Silver advance ring - AISI 316 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - Exhaust port with hosetail connection - 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 (mm²/s)	25cSt
Ambient temperature: with class F solenoid coil (°C)	-10 ... +55
Mounting position	Indifferent
Weight (g)	150

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

CODE “V”= FPM seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)		KV (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													-10 ... +140
F3370ⓒV15ⓑ	1/4”	1,5	2,4	0,07	0	16	16	20	15	10	MG	30	
F3370ⓒV20ⓑ		2	2,4	0,11		13	13						
F3370ⓒV25ⓑ		2,5	2,4	0,16		10	10						
N.O. - Normally open													
F3370ⓒV24Sⓑ	1/4”	2,4	2,5	0,16	0	9	9	20	15	10	MG	30	
U - Universal													
F3370ⓒV25Uⓑ	1/4”	2,5	2,4	0,16	0	5	4	20	15	10	MG	30	

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3370ⓒV15ⓑ => F3370BV15MG5:
3-way solenoid valve normally closed, direct acting poppet type with G connection (ISO 228) 1/4”, FPM seals, 1,5 mm orifice, from 1 to 2, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body - AISI 316 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - Silver advance ring - AISI 316 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - For use with oxygen - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection	Orifice (mm)		KV (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 Holding (VA)	DC (W)		
FX3370ⒸV15Ⓑ	1/4”	1,5	2,4	0,07	0	16	16	12	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3370ⒸV20Ⓑ		2	2,4	0,11		13	13				
FX3370ⒸV25Ⓑ		2,5	2,4	0,16		10	10				

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: FX3370ⒸV15Ⓑ => FX3370BV15A60:
3-way solenoid valve normally closed, direct acting poppet type with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 1/4”, FPM seals, 1,5 mm orifice, from 1 to 2, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

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

Technical characteristics	
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (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	1/4" Ø10	3/8" Ø10	3/8" Ø12	1/2" Ø12	3/4"	1"	1" 1/4 Ø30
a	49	49	59	59	79	96	119
b	65	65	70	70	76	85	92
c	11	11	14	14	18	20	25
d	32	32	45	45	55	72	85
e	16						
f	22						
Weight (g)	230	240	420	390	650	1050	1700

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: 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 for more information, please refer to the section "*Solenoid coils - Series F300*").

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - Version with slowed commutation - Version for vacuum (air/gas) - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3107ⓒV37ⓑ => F3107GV37MG5:
2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 1” 1/4, FPM seals, 37 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- 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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) 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	1/4" Ø10	3/8" Ø10	3/8" Ø12	1/2" Ø12	3/4"	1"	1"1/4 Ø30	1"1/4	1"1/2	2"	2"1/2	3"
a	49	49	59	59	79	96	119	142	142	158	226	226
b	90	90	95	95	101	110	118	110	110	119	138	138
c	11	11	14	14	18	20	25	28	28	35	51	51
d	32	32	45	45	54	72	85	102	102	119	169	169
e	71	71	76	76	82	91	99	91	91	100	119	119
Weight (g)	720	720	920	920	1100	1500	2270	3330	3120	4720	10400	10000

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: 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 12 VDC (A60).

Pneumatic symbol

Diagram

Construction 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

Technical characteristics	
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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection				Orifice (mm)	KV (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	
F3177ⒸV12Ⓑ	3/8”	/			12	2,2	0,15	15	15	12	8	6,5	MI	22	-10 ... +140
F3177ⒸV12Ⓑ	/	1/2”	/		12	2,5		15	15						
F3177ⒸV18Ⓑ	/		3/4”	/	18	5,5		13	13						
F3177ⒸV25Ⓑ	/			1”	25	10,2		10	10						

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3177ⒸV12Ⓑ => F3177CV12MI58:
2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 3/8”, FPM seals, 12 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies
OPTIONS (on request): - Manual override - Seals for use with foodstuff fluids - Version with slowed commutation - Silver advance ring - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us and **IECEx** 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 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3177ⒸV121Ⓑ	/	1/2"	/		12	2,5		15	15				
FX3177ⒸV181Ⓑ	/		3/4"	/	18	5,5		13	13				
FX3177ⒸV251Ⓑ	/			1"	25	10,2		10	10				

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

N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.
Example: FX3177ⒸV12Ⓑ => FX3177CV12A60:
2-way solenoid valve normally closed, servo-assisted diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 3/8", FPM seals, 12 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

Construction characteristics
- 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection				Orifice (mm)	KV (m³/h)	Differential pressure (bar)			Power consumption			Ⓑ= Solenoid coil		Temperature range (°C)
	C	D	E	F			Min	Max AC	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	3/8”	1/2”	3/4”	1”
a	59	59	79	96
b	73	73	76	85
c	14	14	18	20
d	45	45	55	72
e	16			
f	22			
Weight (g)	300	320	550	950

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3277ⒸV12Ⓑ => F3277CV12MI58:
2-way solenoid valve normally open, servo-assisted diaphragm, with G connection (ISO 228) 3/8”, FPM seals, 12 mm orifice, solenoid coil 230 VAC (50-60 Hz) (MI58, size 22 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- AISI 316 stainless steel body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Seals for use with foodstuff fluids - Version with slowed commutation - Silver advance ring - For use with oxygen - XME solenoid coil for potentially explosive environments to ATEX standards - Ex mb IIC - c UL us certified solenoid coils

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

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: 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 for more information, please refer to the section "*Solenoid coils - Series F300*").

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Manual override - Chemical nickel plating surface treatment - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “V”= FPM seals “B”= NBR seals	G connection (ISO 228) Ⓒ= Connection					Orifice (mm)	KV (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	
F3207ⒸV37Ⓑ	1” 1/4	/				37	18	0,15	10	10	20	15	10	MG	30	-10 ... +140
F3207ⒸV37Ⓑ	/	1” 1/2	/			37	21		10	10						
F3207ⒸV50Ⓑ	/		2”	/		50	36		10	10						
F3207ⒸB75Ⓑ	/			2” 1/2	/	75	75	0,3	5	5	20	15	10	MG	30	-10 ... +90
F3207ⒸB75Ⓑ	/				3”	75	84		5	5						

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3107ⒸV37Ⓑ => F3107GV37MG5:
2-way solenoid valve normally closed, servo-assisted diaphragm with G connection (ISO 228) 1” 1/4, FPM seals, 37 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- 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

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

The data in brackets refer to the MK Series coil

CODE “V”= FPM seals	G connection (ISO 228) Ⓒ= Connection				Orifice (mm)	KV (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	
F3108ⒸV12Ⓑ	3/8”	/			12	2	0	10	/	20	15	/	MG/AC	30	-10 ... +140
F3108ⒸV12Ⓑ	/	1/2”	/		12	2,2		10	/						
F3108ⒸV12Ⓑ	3/8”	/			12	2		12	10	40	30	27	MK (AC/DC)	36	
F3108ⒸV12Ⓑ	/	1/2”	/		12	2,2		12	10						
F3108ⒸV18Ⓑ	/		3/4”	/	18	4,5		9	/	40	30	/			
F3108ⒸV25Ⓑ	/			1”	25	8,5		7	/						
F3108ⒸV18CⒷ	/		3/4”	/	18	4,5		/	9	/	/	27	MK/DC		
F3108ⒸV25CⒷ	/			1”	25	8,5		/	8						

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3108ⒸV12Ⓑ => F3108CV12MG5:
2-way solenoid valve normally closed, with assisted-lift diaphragm with G connection (ISO 228) 3/8”, FPM seals, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies **OPTIONS (on request):** - Chemical nickel plating - c UL us certified solenoid coils

Technical characteristics	
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
Mounting position	Preferably with solenoid coil upwards

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: 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 for more information, please refer to the section "*Solenoid coils - Series F300*").

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - FPM sealing assemblies (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) Ⓒ= 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	
F3178ⒸV15Ⓑ	3/8”	/					15	2,4	0	14	6	10	MG	30	-10 ... +140
										/	14	27	MK	36	
F3178ⒸV16Ⓑ	/	1/2”	/				16	3		14	6	10	MG	30	
										/	14	27	MK	36	
F3178ⒸV20Ⓑ	/		3/4”	/			20	3,6		14	6	10	MG	30	
										/	14	27	MK	36	
F3178ⒸV25Ⓑ	/			1”	/		25	8,4		14	3	10	MG	30	
										/	8	14	MK	36	
										/	14	27	MK	36	
F3178ⒸV35Ⓑ	/				1” 1/4	/	35	18		8	/	10	MG	30	
										14	2	14	MK	36	
										/	7	27	MK	36	
F3178ⒸV40Ⓑ	/					1” 1/2	40	19,2		8	/	10	MG	30	
										14	2	14	MK	36	
										/	7	27	MK	36	

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

N.B. For use with steam maximum admitted pressure PS is 2,5 bar (relative pressure).
Example: F3178ⒸV15Ⓑ => F3178CV15MG5:
2-way solenoid valve normally closed, with assisted-lift diaphragm with G connection (ISO 228) 3/8”, FPM seals, 15 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- 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) **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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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	Ⓑ= Solenoid coil	Temperature range (°C)
	C	D	E	F			Min	Max AC	Max DC	(W)		
FX3168ⒸV11Ⓑ	3/8"	/			11	1,2	0	5	5	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3168ⒸV16Ⓑ	/	1/2"	/		16	2,4		5	5			
FX3168ⒸV16Ⓑ	/		3/4"	/	16	2,4		5	5			
FX3168ⒸV20HⒷ	/		3/4"	/	20	7,2		5	5			
FX3168ⒸV25HⒷ	/			1"	25	8,4		5	5			

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

Example: FX3168ⒸV11Ⓑ => FX3168CV11A60:
2-way solenoid valve normally closed, with assisted-lift diaphragm with certified housing: Ex d IIC T6 or T5 or T4 Gb, with G connection (ISO 228) 3/8", FPM seals, 11 mm orifice, solenoid coil 12 VDC (A60).

Pneumatic symbol

Diagram

Construction characteristics
- 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) ❍= 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	(W)		
FX3178❍V15❸	3/8"	/			15	2,4	0	6	6	8	A6B= 24 Volt (AC 50-60 Hz) A6E= 220/230 Volt (AC 50-60 Hz) A60= 12 Volt (DC) A61= 24 Volt (DC)	-10 ... +80
FX3178❍V16❸	/	1/2"	/		16	3		6	6			
FX3178❍V20❸	/		3/4"	/	20	3,6		6	6			
FX3178❍V25❸	/			1"	25	8,4		3	3			

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

Example: FX3178❍V15❸ => 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - 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 “W”= PTFE 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 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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - AISI 303 stainless steel piston - PTFE piston seal - PTFE sealing assemblies **OPTIONS (on request):** - Chemical nickel plating surface treatment - 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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “W”= PTFE seals	G connection (ISO 228) Ⓒ= Connection	Orifice (mm)	KV (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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - AISI 303 stainless steel piston - Sealing assemblies mainly PTFE, others FPM **OPTIONS (on request):** - Chemical nickel plating - 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 “W”= PTFE seals	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 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- Brass body and cover - AISI 303 stainless steel guide tube - AISI 430FR stainless steel mobile and fixed core - AISI 302 stainless steel springs - PBT piston - Sealing assemblies mainly PTFE, others FPM **OPTIONS (on request):** - Chemical nickel plating - c UL us certified solenoid coils

Technical characteristics	
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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

CODE “W”= PTFE seals	G connection (ISO 228) ⓒ= Connection	Orifice (mm)	KV (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	
F3224ⓒW12ⓑ	1/2”	12	60	3	50	50	20	15	10	MG	30	-10 ... +95

Example: F3224ⓒW12ⓑ => F3224DW12MG5:
2-way solenoid valve normally open, servo-assisted piston with G connection (ISO 228) 1/2”, main seals in PTFE other in FPM, 12 mm orifice, solenoid coil 24 VDC (MG5, size 30 for more information, please refer to the section “*Solenoid coils - Series F300*”).

Pneumatic symbol

Diagram

Construction characteristics
- 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

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

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

Solenoid coil 22 mm Ø10, type MI

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

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

Operational characteristics									
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Connector	Power		Weight (g)
							AC (VA)	DC (W)	
F	-10% ... +15%	±10%	IP65	ED100%	DIN 43650 B	Code: 305.11.00	8	6,5	50

Solenoid coil 36 mm Ø13, type MK

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

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

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

Solenoid coil 30 mm Ø10, type XME

II 2G Ex mb IIC T6...T4 Gb
II 2D Ex mb IIIC T85°C...T135°C Db

Ordering code	
XME(T)-3	
(T)	VOLTAGE
	5= 24 VDC
	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)

Operational characteristics									
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	IP Rating with connector	Continuous service	Electrical connection	Power			Weight (g)
							AC (VA)	DC (W)	
H	-10% ... +15%	±10%	IP65	ED100%	3 m cable		5,3	5,4	325

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Series PVF

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

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

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

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

Table of dimensions

CODE	G	Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	T (mm)	A (mm)	L (mm)	SW (mm)
PVF40Ⓕ08-Ⓜ	1/4"	40	50,5	27	112	1/8"	12	124	68	27
PVF50Ⓕ08-Ⓜ		50	60	33	125			135		
PVF40Ⓕ10-Ⓜ	3/8"	40	50,5	27	112			124		
PVF50Ⓕ10-Ⓜ		50	60	33	125			135		
PVF40Ⓕ15-Ⓜ	1/2"	40	50,5	27	111		15	119		
PVF50Ⓕ15-Ⓜ		50	60	33	124			131		
PVF50Ⓕ20-Ⓜ	3/4"				132		16	140	75	32
PVF50Ⓕ25-Ⓜ	1"				136		17	145	90	40
PVF63Ⓕ25-Ⓜ		63	75	41	162			169		
PVF63Ⓕ32-Ⓜ	1-1/4"				174		21	187	116	50
PVF90Ⓕ32-Ⓜ		90	106	55	223			235		
PVF63Ⓕ40-Ⓜ	1-1/2"	63	75	41	175			187		56
PVF90Ⓕ40-Ⓜ		90	106	55	223			235		
PVF63Ⓕ50-Ⓜ	2"	63	75	41	183		22	201	138	69
PVF90Ⓕ50-Ⓜ		90	106	55	232			250		
PVF125AⒻ65-Ⓜ	2-1/2"	125*	148	74	302	1/4"	26	320	178	85
PVF125AⒻ80-Ⓜ	3"				313		27	372	210	100

* = aluminium

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

CODE	KV (m³/h)	Max. working pressure (bar)		Pilot pressure (bar)	
		N.O.	N.C.	N.O.	N.C.
PVF40Ⓕ08-Ⓜ	2,2	16	13	3 ... 5	4 ... 8
PVF50Ⓕ08-Ⓜ			14	3 ... 4	4,5 ... 8
PVF40Ⓕ10-Ⓜ	3,9		13	3 ... 5	4 ... 8
PVF50Ⓕ10-Ⓜ			14	3 ... 4	4,5 ... 8
PVF40Ⓕ15-Ⓜ	4,3		13	3 ... 5	4 ... 8
PVF50Ⓕ15-Ⓜ			14	3 ... 4	4,5 ... 8
PVF50Ⓕ20-Ⓜ	7,6			3 ... 6	
PVF50Ⓕ25-Ⓜ	15,8	13	8		
PVF63Ⓕ25-Ⓜ		16	13	3 ... 5	5 ... 8
PVF63Ⓕ32-Ⓜ	26	13	6	3 ... 6	
PVF90Ⓕ32-Ⓜ		/	16	/	6 ... 8
PVF63Ⓕ40-Ⓜ	32	7	5	3 ... 6	5 ... 8
PVF90Ⓕ40-Ⓜ		16	16	3 ... 4	6 ... 8
PVF63Ⓕ50-Ⓜ	52	5	2	3 ... 6	5 ... 8
PVF90Ⓕ50-Ⓜ		12	10		6 ... 8
PVF125AⒻ65-Ⓜ	83,2	14	9	3 ... 7	5,5 ... 8
PVF125AⒻ80-Ⓜ	119	12	5		5,5 ... 10

Pneumatic symbol

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

PNEUMAX FLUID CONTROL

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

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

Ordering code	
PVF Ⓐ Ⓕ Ⓣ Ⓛ-Ⓜ	
Ⓐ	ACTUATOR
	40= Ø40 mm (only for size Ø15)
	50= Ø50 mm (only for size Ø15, Ø20, Ø25)
	63= Ø63 mm (only for size Ø25, Ø32, Ø40, Ø50)
	90= Ø90 mm (only for size Ø32, Ø40, Ø50)
Ⓕ	FUNCTION
	0= N.A.
	1= N.C.
Ⓣ	ORIFICE SIZE (MM)
	15= Ø15 (only for actuator Ø40 and Ø50 mm)
	20= Ø20 (only for actuator Ø50 mm)
	25= Ø25 (only for actuator Ø50 and Ø63 mm)
	32= Ø32 (only for actuator Ø63 and Ø90 mm)
	40= Ø40 (only for actuator Ø63 and Ø90 mm)
	50= Ø50 (only for actuator Ø63 and Ø90 mm)
Ⓛ	NORMATIVE
	H= DIN11850-2
	I= DIN11850-3
Ⓜ	MATERIAL
	A= AISI 304
	B= AISI 316

Table of dimensions

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

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

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

Pneumatic symbol

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

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

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

Table of dimensions

CODE	Actuator (mm)	A (mm)	K (mm)	L (mm)	C (mm)	B (mm)	Ød	ØD
PVF40Ⓕ15K-Ⓜ	40	130	115	80	19	27,5	15	34
PVF50Ⓕ15K-Ⓜ	50	140	126					
PVF50Ⓕ20K-Ⓜ		158	148	130	25	43,5	19	50,5
PVF50Ⓕ25K-Ⓜ		165	140		32		27	
PVF63Ⓕ25K-Ⓜ	63	188	166					
PVF63Ⓕ32K-Ⓜ		200	174	146	37		31	
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		45	
PVF90Ⓕ50K-Ⓜ	90	265	235					

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

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

Pneumatic symbol

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

PNEUMAX FLUID CONTROL

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

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

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

Table of dimensions

CODE	Actuator (mm)	C (mm)	R (mm)	K (mm)	A (mm)	L (mm)	ASME - BPE ØD (mm)	ASME - BPE ØB (mm)	ASME - BPE Ød (mm)
PVF40Ⓕ15J-Ⓜ	40	50.5	27	127	158	130	25	12,7	9,4
PVF50Ⓕ15J-Ⓜ	50	60	33	140	169				
PVF50Ⓕ20J-Ⓜ				138	172	150		19,05	15,75
PVF50Ⓕ25J-Ⓜ				146	180	160	50,5	25,4	22,1
PVF63Ⓕ25J-Ⓜ	63	75	41	169	205				
PVF63Ⓕ40J-Ⓜ				177	225	200		38,1	34,8
PVF90Ⓕ40J-Ⓜ	90	106	55	225	267				
PVF63Ⓕ50J-Ⓜ	63	75	41	187	238	230	64	50,8	47,5
PVF90Ⓕ50J-Ⓜ	90	106	55	235	280				

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

CODICE	KV (m³/h)	Max. working pressure (bar) N.O.	Max. working pressure (bar) N.C.	Pilot pressure bar) N.O.	Pilot pressure bar) N.C.
PVF40Ⓕ15J-Ⓜ	1,7	16	13	3 ... 5	4 ... 8
PVF50Ⓕ15J-Ⓜ			14	3 ... 4	4,5 ... 8
PVF50Ⓕ20J-Ⓜ	5,8			3 ... 6	
PVF50Ⓕ25J-Ⓜ	11,8	13	8		
PVF63Ⓕ25J-Ⓜ		16	13	3 ... 5	5 ... 8
PVF63Ⓕ40J-Ⓜ	20,6	7	5	3 ... 6	
PVF90Ⓕ40J-Ⓜ		16	16	3 ... 4	6 ... 8
PVF63Ⓕ50J-Ⓜ	55,7	5	2	3 ... 6	5 ... 8
PVF90Ⓕ50J-Ⓜ		12	10		6 ... 8

Pneumatic symbol

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

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

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

Table of dimensions

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

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

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

Pneumatic symbol

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

2 ways multi channel valve G1/2” -G1”

Ordering code	
PVF50ⓋⓉT-Ⓜ	
Ⓥ	VERSION
	1= single acting normally closed
	2= double acting normally closed
Ⓣ	ORIFICE SIZE (MM)
	15= Ø15
	25= Ø25
Ⓜ	MATERIAL
	A= AISI 304
	B= AISI 316

Actuator Ø50

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

Table of dimensions

CODE	Actuator (mm)	G	K	L	ØD	Ød	SW	ØE
PVF50Ⓥ15T-Ⓜ	50	1/2”	35	76	25	18	27	50
PVF50Ⓥ25T-Ⓜ		1”	46	90	32	24	39	57

Technical data

CODE	KV (m^3/h)	Max. working pressure (bar)		Pilot pressure bar)	
		DE	SE	DE	SE
PVF50Ⓥ15T-Ⓜ	8,1	16	14	3 ... 5	4,5 ... 8
PVF50Ⓥ25T-Ⓜ	14,8	13	8	3 ... 7	4,5 ... 8

Pneumatic symbol

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

Closed flange kit (A)

Ordering code	
PVFTⓉ-0001	
Ⓣ	SIZE
	15= Ø15
	25= Ø25

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

Closed flang kit (B)

Ordering code	
PVFTⓉ-0003	
Ⓣ	SIZE
	15= Ø15
	25= Ø25

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

Open flange kit (A)

Ordering code	
PVFTⓉ-0002	
Ⓣ	SIZE
	15= Ø15
	25= Ø25

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

Open flange kit (B)

Ordering code	
PVFTⓉ-0004	
Ⓣ	SIZE
	15= Ø15
	25= Ø25

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

Valve joint kit (C)

Ordering code	
PVFTⓉ-0005	
Ⓣ	SIZE
	15= Ø15
	25= Ø25

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

Proximity sensor

Ordering code	
PVF.Ⓣ.S	
	OUTPUT TYPE
	01= NPN (N.C.)
Ⓣ	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: 2 m
OPTIONS (on request):
A reduction is available for sizes 2 1/2" and 3".

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

PNEUMAX FLUID CONTROL

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

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

Table of dimensions

CODE	G	K (mm)	T (mm)	A (mm)	L (mm)	SW (mm)
PVFMNⓋ08-Ⓜ	1/4"	115	12	128	68	27
PVFMNⓋ10-Ⓜ	3/8"					
PVFMNⓋ15-Ⓜ	1/2"		15			
PVFMNⓋ20-Ⓜ	3/4"	120	16	133	75	32
PVFMNⓋ25-Ⓜ	1"	125	17	142	90	40
PVFMNⓋ32-Ⓜ	1-1/4"	146	21	166	116	50
PVFMNⓋ40-Ⓜ	1-1/2"	148		168		56
PVFMNⓋ50-Ⓜ	2"	155	22	182	138	69

Technical data

CODE	KV (m^3/h)	Max. working pressure (bar)
PVFMNⓋ08-Ⓜ	2,2	16
PVFMNⓋ10-Ⓜ	3,9	
PVFMNⓋ15-Ⓜ	4,3	
PVFMNⓋ20-Ⓜ	7,6	
PVFMNⓋ25-Ⓜ	15,8	
PVFMNⓋ32-Ⓜ	26	
PVFMNⓋ40-Ⓜ	32	
PVFMNⓋ50-Ⓜ	52	

Pneumatic symbol

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

2-way angle seat valve. Welded connection

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

Table of dimensions

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

Technical data

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

Pneumatic symbol

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

PNEUMAX FLUID CONTROL

2-way angle seat valve. Clamp ISO 2852

Ordering code	
PVFMNⓋⓉK-Ⓜ	
Ⓥ	VERSION
	0= standard adjustment
	A=adjustable flow control
Ⓣ	ORIFICE SIZE (MM)
	15= Ø15
	20= Ø20
	25= Ø25
	32= Ø32
	40= Ø40
	50= Ø50
Ⓜ	A= AISI 304
	B= AISI 316

Table of dimensions

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

Technical data

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

Pneumatic symbol

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

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice

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

Technical data

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

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

Pressure curves

DOUBLE ACTING CYLINDER

SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE

SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE

Construction characteristics	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

PNEUMAX FLUID CONTROL

"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

Connection (N)	Non magnetic piston A	C	D	Q	S	Magnetic piston 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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