

F300 Series, Solenoid valves for fluids

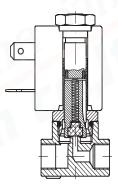
General details

PNEUMAX offer 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 (body and seals) used in the range. The solenoid valves are 2 or 3-way, normally closed, normally open, general service, direct acting or servo-actuated, with connections available in NPT & BSP threads from G1/8" up to G2", 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.

Versions manufactured

Direct action 2-way: 2-way solenoid valves have an input connection and an output connection machined in the valve body, the orifice being intercepted by the plunger mounted in the core tube.

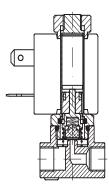
They can be **normally closed (2/2 NC)**, in this case the fluid is intercepted by the plunger at rest, with electricity applied, the input orifice is opened and the media reaches the intended use.



They can be **normally open (2/2 NO)**, 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.

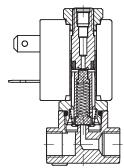
The solenoid valves can also work at zero pressure.



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 fixed core. The input and exhaust orifices are intercepted directly by the plunger fitted within the core tube.

They can be **normally closed (3/2 NC)** and in this case, at rest, the incoming fluid is intercepted by the plunger 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.

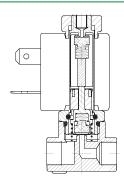


They can be **normally open (3/2 NA)** and in this case, at rest, the input orifice is open without electricity applied, the media reaches the intended use. Exhaust is closed.

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

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

The solenoid valves can also work at zero pressure.









Servo actuated

With large-sized passage orifices, the static pressure value that needs to be overcome by the magnetic field produced by the coil increases.

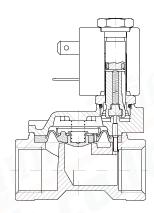
These solenoid valves are used to control high-pressure values with large diameter bores.

In these models, the fluid helps in the opening or closing of the main plunger.

They can be normally closed (2/2 NC) and have an input and a utilisation connection machined into the valve body and at rest the fluid is intercepted by the main plunger, 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 plunger.

Applying electrical power, the secondary, or pilot, orifice opens leading to the exhaust of the fluid, which acts to close the main plunger. Greater force is thus applied when opening, the plunger is raised from the orifice and allows the media to flows to the output.

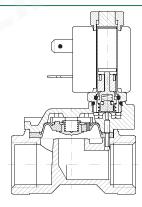
In these versions, performance does not depend solely on the magnetic field produced by the coil; a minimum input pressure is also needed so as to move the diaphragm or the piston overcoming its rigidity and to keep it raised from the main orifice. (Δp minimum performance).



They can be **normally open** (2/2 NA), and have an input and output connection machined into the valve body, and at rest the secondary plunger communicates with output, a minimum-pressure difference between the feed and the output causes the main shutter 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 shutter 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

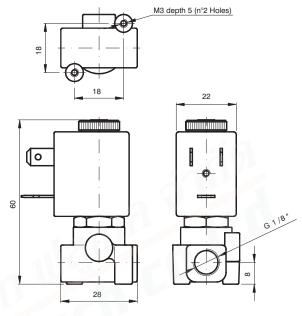
Designation Trade names		General characteristics	Field of use		
FPM (Fluorocarbon	VITON TECNOFLON FLUOREL	A synthetic hexa-fluoropropylene-based elastomer. Excellent resistance to high temperatures. Excellent resistance to ozone, oxygen, mineral oils, synthetic hydraulic fluids, fuels, hydrocarbons and many chemical products. Not specific for superheated steam.	For general use up to 130 °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.

Fluido	
thyl acetate	Non Compatible
cetylene	Compatible
inegar	Non Compatible
cetone	Non Compatible
alcareous water	Compatible
ot water <75°C	Compatible
ot water and steam <140°C	Non Compatible
ater with glycol	Compatible
eionised water	Compatible
emineralised water	Compatible
ydrogen peroxide	Compatible
oapy water	Compatible
arbon dioxide (liquid)	Non Compatible
ry carbon dioxide (gas)	Compatible
rgon	Compatible
itrogen	Compatible
etrol/Gasoline	Compatible
enzol	Non Compatible
utane	Compatible
hloroform	Non Compatible
thyl Chloride	Compatible
ethyl chloride	Non Compatible
elium	Compatible
eptane	Compatible
exane	Compatible
thane	Compatible
thanol	Non Compatible
ormaldehyde	Compatible
reon	Non Compatible
atural gas	Compatible
iesel oil	Compatible
lycerine	Compatible
thylene glycol	Compatible
ydrogen	Compatible
obutane	Compatible
opentane	Compatible
lethane	Compatible
ethanol	Non Compatible
	Compatible
alcium monoxide eon	Compatible
itrobenzene	Non Compatible
lineral oil	Compatible
xygen	Compatible
entane-n	Compatible
ropanol-n	Compatible
ropane-n	Compatible
arbon sulphide	Non Compatible
bluene	Compatible
ry trichloroethylene	Compatible
ylene	Compatible





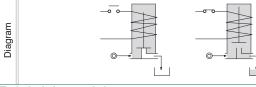
CODI	E	Connection	Orifice	ΚV	Diff	erential p (bar)	ressure	Power	Consun	nption	Coi	il 😉	Temp.
"V"=Seals in		G ISO 228	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
3 = Co	OII	130 226			IVIIII	AC	DC	Inrush	Holding	Watt	Octios	0.20	(°C)
F3105AV	25 ©	1/8"	2,5	0,14	0	8	5,5	12	8	6,5	MI	22	-10 +130

N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure) with seals in FPM

Esempio: F3105AV25@ => F3105AV25Mi58: 2-way normally closed, direct acting solenoid valve with G connector (ISO228) 1/8", Seals in FPM, Orifice 2,5 mm, Coil 220V 50/60Hz (MI58, size 22)

Pneumatic symbol





Operational characteristic

- Brass Body Guide pipe in Brass Mobile and fixed core in Stainless Steel Springs in Stainless Steel Sealing assemblies in FPM

- OPTIONS (if requested): - Manual operation

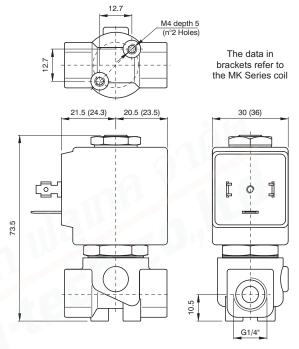
- Surface treatment in chemical nickel-plating Guide pipe in Stainless Steel For use with oxygen

Technical	characteristic
-----------	----------------

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm ² /s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Mounting position	indifferent
Weight (gr.) with MI Series Coil	130







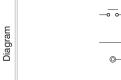
CODE	Connection	Orifice	кv	Diff	ferential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
3 = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Deries	OIZO	(°C)
F3106BV15 ®	1/4"	1,5	0,07	0	30	26	20	15	10	MG	30	
F3106BV20 B	1/4"	2,0	0,1	0	22	20	20	15	10	MG	30	
F3106BV25 ®	1/4"	2,5	0,15	0	16	14	20	15	10	MG	30	
F3106BV35 ®	1/4"	3,5	0,32	0	10	8	20	15	10	MG	30	
F3106BV45 ®	1/4"	4,5	0,41	0	6,5	3,5	20	15	10	MG	30	
F3106BV52 B	1/4"	5,2	0,47	0	4	1,8	20	15	10	MG	30	
F3106BV64 8	1/4"	6,4	0,64	0	3	1	20	15	10	MG	30	-10 +140
F3106BV15 ®	1/4"	1,5	0,07	0	80	80	40	30	27	MK	36	-10 +140
F3106BV20 B	1/4"	2,0	0,1	0	50	40	40	30	27	MK	36	
F3106BV25 ®	1/4"	2,5	0,15	0	35	33	40	30	27	MK	36	
F3106BV35 ®	1/4"	3,5	0,32	0	20	19	40	30	27	MK	36	
F3106BV45 ®	1/4"	4,5	0,41	0	14	13	40	30	27	MK	36]
F3106BV52 ®	1/4"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3106BV64 8	1/4"	6,4	0,64	0	5	4,5	40	30	27	MK	36	

N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM. Example: F3106BV52© => F3106BV52MG58:

2-way normally closed, direct acting solenoid valve with G connector (ISO228) 1/4", Seals in FPM, Orifice 5.2 mm, Coil 220V 50/60Hz (MG58, size 30).

Pneumatic symbol







Operational characteristic

- Brass Body Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel Sealing assemblies in FPM

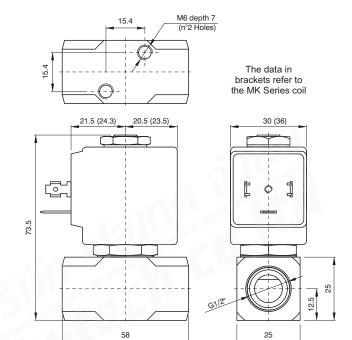
- OPTIONS (if requested):

- Manual operation Surface treatment in chemical nickel-plating
- Inserted stainless steel seating
- For use with oxygen

iecillical characteristic	
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (gr.) with MG Series Coil	300
Weight (gr.) with MK Series Coil	380
	<u>'</u>







CODE	Connection	Orifice	кv	Differential pressure (bar)			Power Consumption			Coil 😉		Temp.
"V"=Seals in FPM 3 = Coil	G ISO 228	(mm)	(m³/h)	Min		ax	AC	VA	DC	Series	Size	range
0 0011	100 220				AC	DC	Inrush	Holding	Watt			(°C)
F3106DV45 ®	1/2"	4,5	0,41	0	6,5	3,5	20	15	10	MG	30	
F3106DV52 ®	1/2"	5,2	0,47	0	4	1,8	20	15	10	MG	30	
F3106DV64 8	1/2"	6,4	0,64	0	3	1	20	15	10	MG	30	-10 +140
F3106DV45 ®	1/2"	4,5	0,41	0	14	13	40	30	27	MK	36	-10 +140
F3106DV52 B	1/2"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3106DV64 8	1/2"	6,4	0,64	0	5	4,5	40	30	27	MK	36	

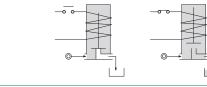
Diagram

N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM. Example: F3106DV52© => F3106DV52MK5:

2-way normally closed, direct acting solenoid valve with G connector (ISO228) 1/2", Seals in FPM, Orifice 5.2 mm, Coil 24V DC (MK5, size 36).

Pneumatic symbol





Operational characteristic

- Brass Body Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel Sealing assemblies in FPM

- OPTIONS (if requested):

- Manual operation
- Surface treatment in chemical nickel-plating For use with oxygen

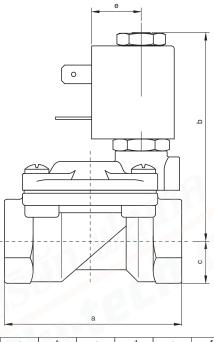
Technical characteristic	
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (gr.) with MG Series Coil	300
Weight (gr.) with MK Series Coil	380

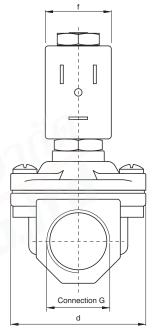


Connector G1/4" ÷ 1" 1/4" (ISO228) - F3107

2-Way normally closed solenoid valve, servo-actuated diaphragm







Connection	a	b	С	d	е	f	Weight (g)
G1/4" Ø10	49	65	11	32	16	22	230
G3/8" Ø12	59	70	14	45	16	22	420
G1/2" Ø12	59	70	14	45	16	22	390
G3/4"	79	76	18	55	16	22	650
G1"	96	85	20	72	16	22	1050
G1" 1/4	119	92	25	85	16	22	1700

CODE	Connection	Orifice	KV	Diff	erential p (bar)	ressure	Power	Consum	ption	Coi	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m ³ /h)	Min	М	ax	AC	VA	DC	Series	Size	range
6 – Coli	130 226				AC	DC	Inrush	Holding	Watt	Ochos		(°C)
F3107BV10 3	1/4"	10	1,5	0,15	15	15	12	8	6,5	MI	22	
F3107CV12 B	3/8"	12	2,2	0,15	15	15	12	8	6,5	MI	22	
F3107DV12 B	1/2"	12	2,5	0,15	15	15	12	8	6,5	MI	22	-10 +140
F3107EV18 ®	3/4"	18	5,5	0,15	13	13	12	8	6,5	MI	22	-10 +140
F3107FV25 ®	1"	24	10,2	0,15	10	10	12	8	6,5	MI	22	
F3107GV30 B	1"1/4	30	15	0,15	10	10	12	8	6,5	MI	22]

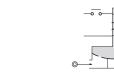
N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure)

Example: F3107BV10@ => F3107BV10MI5:

2-Way normally closed solenoid valve, servo-actuated diaphragm with Connector G (ISO228) 1/4", Seals in FPM, Orifice 10 mm, Coil 24V DC (MI5, size 22).









Operational characteristic

- Body and cover in Brass
- Guide pipe in Stainless SteelMobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM

- OPTIONS (if requested):

- Manual operation
 Surface treatment in chemical nickel-plating
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
 Version with slowed commutation

- Version for vacuum (air/gas)Version for use with oxygen"SVGW/SSIGE" approved versions.

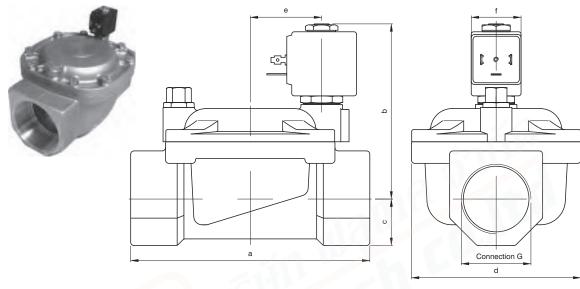
Technical characteristic

Diagram

Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards



2-Way normally closed solenoid valve, servo-actuated diaphragm



Connection	а	b	С	d	е	f	Weight (g)
G1" 1/4	142	105	28	102	21	30	3000
G1" 1/2	142	105	28	102	21	30	2850
G2"	158	115	35	119	21	30	4300

CODE	Connection	Orifice	κv	Diff	ifferential pressure (bar)		Power Consumption			Co	il 😉	Temp.				
"V"=Seals in FPM	G	(mm)	(m3/h)					Min	М	Max		AC VA		Series	Size	range
3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0126	(°C)				
F3107GV378	1 1/4"	37	18	0,15	10	10	20	15	10	MG	30					
F3107HV37 B	1" 1/2"	37	21	0,15	10	10	20	15	10	MG	30	-10 +140				
F3107IV50 ®	2"	50	36	0,15	10	10	20	15	10	MG	30					

N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3107GV37**®** => F3107GV37MG5:

2-Way normally closed solenoid valve, servo-actuated diaphragm with Connector G (ISO228) 1" 1/4", Seals in FPM, Orifice 37 mm, Coil 24V DC (MG5, size 30)



Operational characteristic

- Body and cover in Brass
- Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM
- OPTIONS (if requested):
- Manual operation
 Surface treatment in chemical nickel-plating
- Version for vacuum (air/gas)

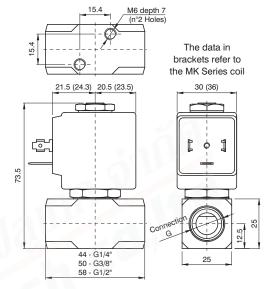
Minimum differential pressure (bar)	0,15 ÷ 3
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards



Connector G1/4" ÷ 1/2" (ISO228) - F3110

2-way solenoid normally closed valve, direct plunger operation





CODE	Connection	Orifice	ΚV	Diff	ferential p (bar)	ressure	Power	Consun	nption	Coil 3		Temp.
"V"=Seals in FPM G = Coil	G ISO 228	(mm)	(m ³ /h)	Min	М	ax	AC	VA	DC	Series	Size	range
9 – Coll	100 220	. 4			AC	DC	Inrush	Holding	Watt			(°C)
F3110BV25 B	1/4"	2,5	0,15	0	16	14	20	15	10	MG	30	
F3110BV35 B	1/4"	3,5	0,32	0	10	8	20	15	10	MG	30	
F3110BV45 B	1/4"	4,5	0,41	0	6,5	3,5	20	15	10	MG	30	
F3110CV35 B	3/8"	3,5	0,32	0	10	8	20	15	10	MG	30	
F3110CV52 B	3/8"	5,2	0,47	0	4	1,8	20	15	10	MG	30	
F3110DV35 B	1/2"	3,5	0,32	0	10	8	20	15	10	MG	30	
F3110DV52 B	1/2"	5,2	0,47	0	4	1,8	20	15	10	MG	30	
F3110DV64 B	1/2"	6,4	0,64	0	3,5	1	20	15	10	MG	30	
F3110BV25 B	1/4"	2,5	0,15	0	35	33	40	30	27	MK	36	-10 +140
F3110BV35 B	1/4"	3,5	0,32	0	20	19	40	30	27	MK	36	
F3110BV45 B	1/4"	4,5	0,41	0	14	13	40	30	27	MK	36	
F3110CV35 B	3/8"	3,5	0,32	0	20	19	40	30	27	MK	36	
F3110CV52B	3/8"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3110DV35 B	1/2"	3,5	0,32	0	20	19	40	30	27	MK	36	
F3110DV52 B	1/2"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3110DV64 B	1/2"	6,4	0,64	0	5	4,5	40	30	27	MK	36	

N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure) Example: F3110BV25@ => F3110BV25MG5:

2-way solenoid normally closed valve, direct plunger operation with Connector G (ISO228) 1/4", Seals in FPM, Orifice 2,5 mm, Coil 24V DC (MG5, size 30)



Operational characteristic

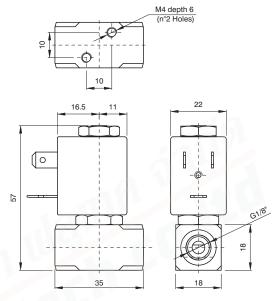
- Stainless Steel Body
- Guide pipe in Stainless Steel
- Mobile and fixed core in Stainless Steel
 Springs in Stainless Steel
 Sealing assemblies in FPM

- OPTIONS (if requested):
- Manual operation Advance ring in silver
- For use with oxygen

Technical characteristic
Maximum admitted pressure (bar

Maximum admitted pressure (bar)	100			
Maximum fluid viscosity (mm 2/s)	25cSt			
Ambient temperature: with class F coil (°C)	-10 +55			
Ambient temperature: with class H coil (°C)	-10 +80			
Mounting position	indifferent			
Weight (gr.) with MG Series Coil	360			
Weight (gr.) with MK Series Coil	440			





	CODE	Connection	Orifice	NV (bar)				Power Consumption			Co	Temp.	
	"V"=Seals in FPM		(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
	3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0126	(°C)
	F3111AV12 ®	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	
ĺ	F3111AV15 ®	1/8"	1,5	0,06	0	16	16	12	8	6,5	MI	22	-10 +140
Ī	F3111AV20 ®	1/8"	2	0,09	0	12	10	12	8	6,5	MI	22	

N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure)

Example: F3111AV12@ => F3111AV12M156:

2-way solenoid normally closed valve, direct plunger operation with Connector G (ISO228) 1/8*, Seals in FPM, Orifice 1,2 mm, Coil 24V 50/60Hz (MI56, size 22).



Operational characteristic

- Stainless Steel Body
 Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel
- Sealing assemblies in FPM

- OPTIONS (if requested):

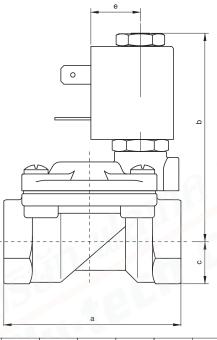
- Advance ring in silver
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
- For use with oxygen

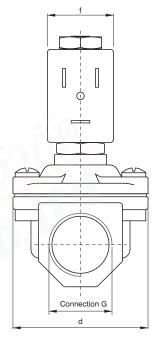
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (g.)	150



2-way normally closed diaphragm solenoid valve in stainless steel AISI 316, servo-actuated







Connection	а	b	С	d	е	f	Weight (g)
G3/8"	59	70	11	45	16	22	300
G1/2"	59	70	13	45	16	22	320
G3/4"	80	75	16	55	16	22	550
G1"	100	84	20	72	16	22	950

	CODE	Connection	Orifice	κv			ifferential pressure (bar)		Power Consumption			Coil ³			
ľ	V"=Seals in FPM	G	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range		
	3 = Coil	ISO 228			IV.	IVIIII	IVIIII	AC	DC	Inrush	Holding	Watt	Selles	5,26	(°C)
	F3177CV12 B	3/8"	12	2,2	0,15	15	15	12	8	6,5	MI	22			
Г	F3177DV12 6	1/2"	12	2,5	0,15	15	15	12	8	6,5	MI	22	-10 +140		
	F3177EV188	3/4"	18	5,5	0,15	13	13	12	8	6,5	MI	22	-10 +140		
	F3177FV25 ®	1"	24	10,2	0,15	10	10	12	8	6,5	MI	22			

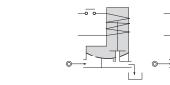
N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3177CV120 => F3177CV12MI5:

2-way normally closed diaphragm solenoid valve in stainless steel AISI 316, servo-actuated with Connector G (ISO228) 3/8", Seals in FPM, Orifice 12 mm, Coil 24V DC (MI5, size 22).

Diagram

Pneumatic symbol





Operational characteristic

- Body and cover in Stainless Steel.
- Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM

- OPTIONS (if requested):

- Manual operation
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
- Seals for use with foodstuff fluids.Version with slowed commutation

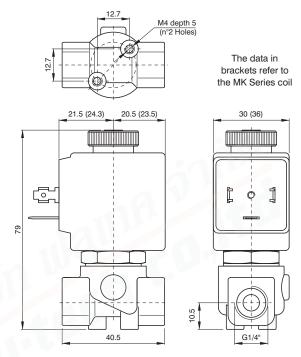
- Version for use with oxygenAdvance ring in silver

Technica	al chara	cteristic

Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards

2-way normally open with direct operated plunger solenoid valve





CODE	Connection	Orifice	κv	Diff	erential p (bar)	ressure	Power Consumption			Coil (9		Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
9 – Coli	100 220				AC	DC	Inrush	Holding	Watt			(°C)
F3206BV15 B	1/4"	1,5	0,07	0	23	-	20	15	-	MG	30	
F3206BV20 B	1/4"	2,0	0,1	0	17	-	20	15	-	MG	30	
F3206BV25 B	1/4"	2,5	0,15	0	12	-	20	15	-	MG	30	
F3206BV35®	1/4"	3,5	0,32	0	7	-	20	15	-	MG	30	
F3206BV45 B	1/4"	4,5	0,41	0	4,5	-	20	15	-	MG	30	
F3206BV52 ®	1/4"	5,2	0,47	0	3	-	20	15	-	MG	30	
F3206BV15 B	1/4"	1,5	0,07	0	23	23	20	15	-	MK	36	-10 +140
F3206BV20 B	1/4"	2,0	0,1	0	17	17	40	30	27	MK	36	
F3206BV25 B	1/4"	2,5	0,15	0	12	12	40	30	27	MK	36	
F3206BV358	1/4"	3,5	0,32	0	7	7	40	30	27	MK	36	
F3206BV45 B	1/4"	4,5	0,41	0	4,5	4,5	40	30	27	MK	36	
F3206BV52 B	1/4"	5,2	0,47	0	3	3	40	30	27	MK	36	
F3206BV64 B	1/4"	6,4	0,64	0	3,5	3,5	40	30	27	MK	36	

N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure)

Example: F3206BV15@ => F3206BV15MG58:

2-way normally open with direct operated plunger solenoid valve with Connector G (ISO228) 1/4", Seals in FPM, Orifice 1,5 mm, Coil 220V 50/60Hz (MG58, size 30).



Operational characteristic

- Brass Body.
- Briass Body.
 Guide pipe in Brass.
 Mobile and fixed core in Stainless Steel
 Springs in Stainless Steel
 Sealing assemblies in FPM

- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating Guide pipe in Stainless Steel

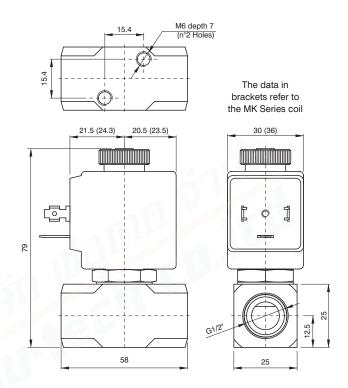
1	Гес	hnica	l c	ha	ract	eri	stic

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (gr.) with MG Series Coil	300
Weight (gr.) with MK Series Coil	380



2-way normally open with direct operated plunger solenoid valve





	CODE	Connection	Orifice			Differential pressure (bar)			Power Consumption			Coil (3		Temp.
ľ	V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range	
	3 = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0,20	(°C)	
	F3206DV52 B	1/2"	5,2	0,47	0	3	-	20	15	-	MG	30		
	F3206DV52 B	1/2"	5,2	0,47	0	3	3	40	30	27	MK	36	-10 +140	
	F3206DV64 B	1/2"	6,4	0,64	0	3,5	3,5	40	30	27	MK	36		

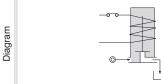
N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure)

Example: F3206DV30@ => F3206DV30MG58:

2-way normally open with direct operated plunger solenoid valve with Connector G (ISO228) 1/2", Seals in FPM, Orifice 3 mm, Coil) 220V 50/60Hz (MG58, size 30).









Operational characteristic

- Brass Body. Guide pipe in Brass. Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM

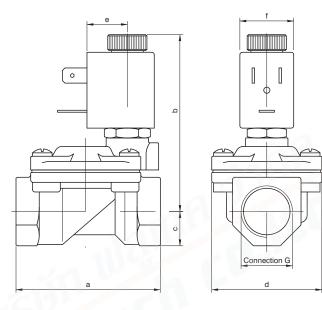
- OPTIONS (if requested):
 Surface treatment in chemical nickel-plating
- Guide pipe in Stainless Steel

Technical	characteristic
-----------	----------------

Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (gr.) with MG Series Coil	360
Weight (gr.) with MK Series Coil	440

2-way normally open servo-actuated diaphragm solenoid valve





Connection	а	b	С	d	е	f	Weight (g)
G1/4" Ø10	49	69	11	32	16	22	230
G3/8" Ø10	49	69	11	32	16	22	240
G1/2" Ø12	59	74	14	45	16	22	390
G3/4"	79	81	18	55	16	22	650
G1"	96	89	20	72	16	22	1050

CODE Connection Orifice					erential pressure (bar)		Power Consumption			Coil (3		Temp.
"V"=Seals in FPM	n FPM G (mm)		(m³/h)	Min	М	ax	AC VA		DC	Series	Ci-c	range
Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	Oize	(°C)
F3207BV10 B	1/4"	10	1,5	0,15	15	15	12	8	6,5	MI	22	
F3207CV10 ®	3/8"	10	1,7	0,15	15	15	12	8	6,5	MI	22	
F3207DV12 3	1/2"	12	2,5	0,15	15	15	12	8	6,5	MI	22	-10 +140
F3207EV18 B	3/4"	18	5,5	0,15	13	13	12	8	6,5	MI	22	
F3207FV25 B	1"	24	10,2	0,15	10	10	12	8	6,5	MI	22	

N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3207BV10● => F3207BV10MI5:

2-way normally open servo-actuated diaphragm solenoid valve with Connector G (ISO228) 1/4", Seals in FPM, Orifice 10 mm, Coil 24V DC (MI5, size 22)



Operational characteristic

- Body and cover in Brass
 Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM

- OPTIONS (if requested):
 Surface treatment in chemical nickel-plating
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.

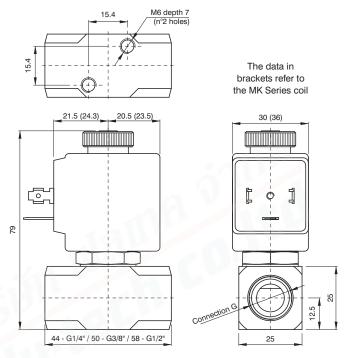
Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm ² /s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent



Connector G1/4" ÷ 1/2" (ISO228) - F3210

2-way normally open with direct operated plunger solenoid valve





CODE Connection	Orifice	κv	Diff	ferential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.	
"V"=Seals in FPM	G	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
3 = Coil ISO 22	ISO 228		` ' /	IVIIII	AC	DC	Inrush	Holding	Watt	Series	O126	(°C)
F3210BV25 ®	1/4"	2,5	0,15	0	10	-	20	15	-	MG	30	
F3210BV35 ®	1/4"	3,5	0,32	0	7	-	20	15	-	MG	30	
F3210BV45 ®	1/4"	4,5	0,41	0	4,5	-	20	15	-	MG	30	
F3210CV35 B	3/8"	3,5	0,32	0	7	-	20	15	-	MG	30	
F3210CV52 ®	3/8"	5,2	0,47	0	3	-	20	15	-	MG	30	
F3210DV35 ®	1/2"	3,5	0,32	0	7	-	20	15	-	MG	30	
F3210DV52 ®	1/2"	5,2	0,47	0	3	-	20	15	-	MG	30	
F3210BV25 ®	1/4"	2,5	0,15	0	10	10	40	30	27	MK	36	-10 +140
F3210BV35 ®	1/4"	3,5	0,32	0	7	7	40	30	27	MK	36	
F3210BV45®	1/4"	4,5	0,41	0	4,5	4,5	40	30	27	MK	36	
F3210CV35 ®	3/8"	3,5	0,32	0	7	7	40	30	27	MK	36	
F3210CV52 3	3/8"	5,2	0,47	0	3	3	40	30	27	MK	36]
F3210DV35 ®	1/2"	3,5	0,32	0	7	7	40	30	27	MK	36	
F3210DV52 8	1/2"	5,2	0,47	0	3	3	40	30	27	MK	36	
F3210DV64 6	1/2"	6,4	0,64	0	3,5	3,5	40	30	27	MK	36	

N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3210BV25 \oplus => F3210BV25MG56:

2-way normally open with direct oper	rated plunger solenoid valve with Connector G	(ISO228) 1/4", Seals in FPM	, Orifice 2,5 mm, Coil 24V 50/60Hz	: (MG56, size 30).
Pneumatic symbol		Diagram	0	

Operational characteristic

- Stainless Steel Body
 Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel Sealing assemblies in FPM
- OPTIONS (if requested): - Advance ring in silver

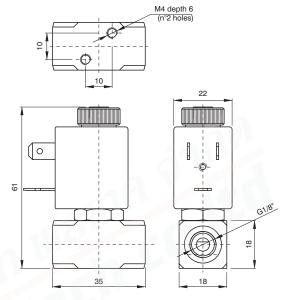
Technical characteristic
Maximum admitted pressure (bar)

Maximum admitted pressure (bar) 50	50
Maximum fluid viscosity (mm 2/s) 25cSt	25cSt
Ambient temperature: with class F coil (°C) -10 +55	-10 +55
Ambient temperature: with class H coil (°C) -10 +80	-10 +80
Mounting position	indifferent



2-way normally open with direct operated plunger solenoid valve





CODE	Connection	Orifice	κv	Diff	ferential p (bar)	ressure	Power	Consun	ption	Co	Temp.	
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
S = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Jenes	OIZO	(°C)
F3211AV12 B	1/8"	1,2	0,04	0	19	19	12	8	6,5	MI	22	
F3211AV15 ®	1/8"	1,5	0,06	0	14	14	12	8	6,5	MI	22	-10 +140
F3211AV20 B	1/8"	2	0,09	0	8	8	12	8	6,5	MI	22	

N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure)

Example: F3211AV12@ => F3211AV12MI56:

2-way normally open with direct operated plunger solenoid valve with Connector G (ISO228) 1/8", Seals in FPM, Orifice 1,2 mm, Coil 24V 50/60Hz (MI56, size 22).



Operational characteristic

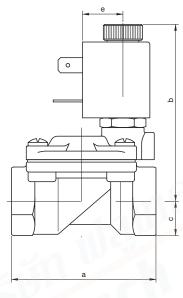
- Stainless Steel Body
- Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel Sealing elements in FPM
- OPTIONS (if requested):
- Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.

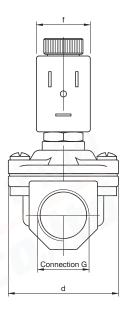
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent



2-way normally open servo-actuated diaphragm solenoid valve in stainless steel AISI 316







Connection	а	b	С	d	е	f	Weight (g)
G3/8"	59	74	11	45	16	22	300
G1/2"	59	74	13	45	16	22	320
G3/4"	80	78	16	55	16	22	550
G1"	100	88	20	72	16	22	1350

CODE	Connection	Orifice KV		Diff	ferential p (bar)	ressure	Power	Consum	nption	Co	Temp.	
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
3 = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	OIZO	(°C)
F3277CV12 B	3/8"	12	2,2	0,15	15	15	12	8	6,5	MI	22	
F3277DV12 B	1/2"	12	2,5	0,15	15	15	12	8	6,5	MI	22	-10 +140
F3277EV18 B	3/4"	18	5,5	0,15	13	13	12	8	6,5	MI	22	-10 +140
F3277FV25 ®	1"	24	10,2	0,15	10	10	12	8	6,5	MI	22	

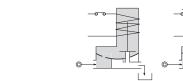
N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3277CV12 Θ => F3277CV12MI5:

2-way normally open servo-actuated diaphragm solenoid valve in stainless steel AISI 316 with Connector G (ISO228) 3/8", Seals in FPM, Orifice 12 mm, Coil 24V DC (MI5, size 22).

Diagram

Pneumatic symbol





Operational characteristic

- Body and cover in Stainless Steel.
- Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless Steel Sealing assemblies in FPM

- OPTIONS (if requested):

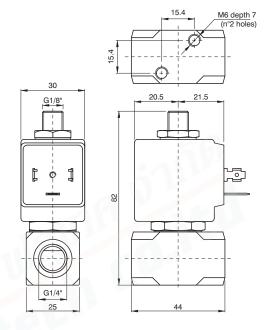
- Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
 Seals for use with foodstuff fluids.

Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards



3-way direct acting solenoid valve

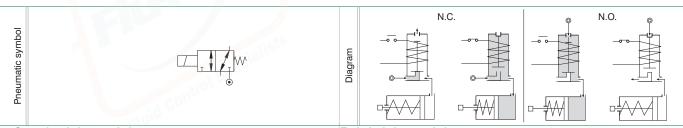




CODE	CODE "V"=Seals in FPM	Connection	Ori	fice	ΚV	Diff	ferential p (bar)	ressure	Power	Consum	ption	Coi	ΙΘ	Temp.
	G ISO 228	(mm)		(m³/h)	Min	Max		AC	VA	DC	Series	Size	range	
3 = Coil	100 220	alim.	scar.		IVIII I	AC	DC	Inrush	Holding	Watt	Selles	0,20	(°C)	
U Universal														
F3310BV25U 3	1/4"	2,5	2,4	0,16	0	5	4	20	15	10	MG	30	-10 +140	

Example: F3310BV25G® => F3310BV25GMG5:

3-way direct acting solenoid valve with Connector G (ISO228) 1/4", Seals in FPM, Feed bore 2,5 mm, Exhaust bore 2,4 mm Coil 24V DC (MG5, size 30), N.O.



Operational characteristic

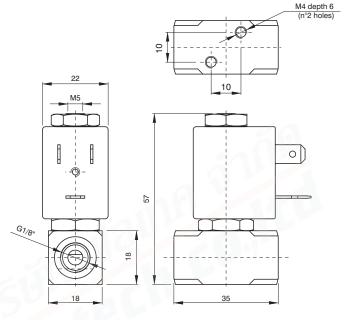
- Stainless Steel body Guide pipe in Stainless Steel
- Mobile and fixed core in Stainless Steel Springs in Stainless Steel
- Sealing assemblies in FPM
- OPTIONS (if requested):
 Advance ring in silver

+ 10%
25cSt
-10 +55
-10 +80
indifferent
150



3-way direct acting solenoid valve

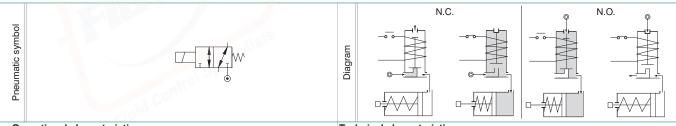




CODE	Connection Orifice	ку	Differential pressure (bar)		Power Consumption			C	Temp.				
"V"=Seals in FPM		(m	(mm)	(m³/h)	Min	Max		AC	AC VA		Series	Size	range
3 = Bobna	ISO 228	alim.	scar.		IVIIII	AC	DC	Spunto	Regime	Watt	Series	Size	(°C)
U Universal													
F3311AV15U 3	1/8"	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22	-10 +140

Example: F3311AV15G8 => F3311AV15GMI5:

3-way direct acting solenoid valve with Connector G (ISO228) 1/8", Seals in FPM, Feed bore 1,5 mm, Exhaust bore 1,5 mm Coil 24V DC (MI5, size 22), N.O.



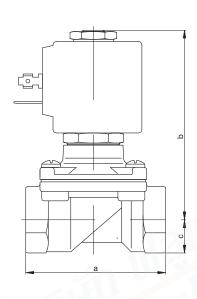
Operational characteristic

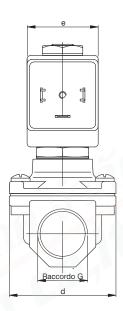
- Stainless Steel Body
 Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM
- OPTIONS (if requested):
- Advance ring in silver
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
- Exhaust with hose mount.

Maximum admitted pressure (bar)	Maximum running pressure
	+ 10%
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (g.)	150

2-way normally closed servo-actuated towed membrane solenoid valve



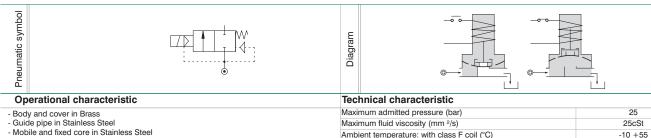




Connection	a	b	С	d	е	f	Weight (g) Series 2	Weight (g) Series 5
G3/8" Ø12	59	83	14	45	16	36	0,50	0,58
G1/2"	59	83	14	45	16	36	0,45	0,53
G3/4"	79	90	18	55		36	-	0,75
G1"	96	101	20	72		36	-	1,10

CODE	Connection	Orifice	кv	Diff	erential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
3 = Coil	150 228				AC	DC	Inrush	Holding	Watt	Geries	0120	(°C)
F3108CV12 B	3/8"	12	2	0	10	-	20	15	-	MG	30	
F3108DV12 B	1/2"	12	2.2	0	10	-	20	15	-	MG	30	
F3108CV12 B	3/8"	12	2	0	12	10	40	30	27	MK	36	
F3108DV12 B	1/2"	12	2.2	0	12	10	40	30	27	MK	36	-10 +140
F3108EV18 ®	3/4"	18	4.5	0	9	-	40	30	-	MK	36	-10 + 140
F3108FV25 B	1"	24	8.5	0	7	-	40	30	-	MK	36	
F3108EV18C B	3/4"	18	4.5	0	-	9	-	-	27	MK	36	
F3108FV25C B	1"	24	8.5	0	-	8	-	-	27	MK	36	

Example: F3108DV12 => F3108DV12MG5: 2-way normally closed in brass with towed membrane solenoid valve with Connector G (ISO228) 1/2", Seals in FPM, Orifice 12 mm, Coil 24V DC (MG5, size 30).

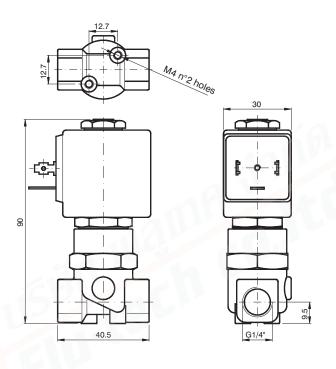


- Springs in Stainless SteelSealing assemblies in FPM
- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating



2-way normally closed servo-actuated piston solenoid valve 1/4"

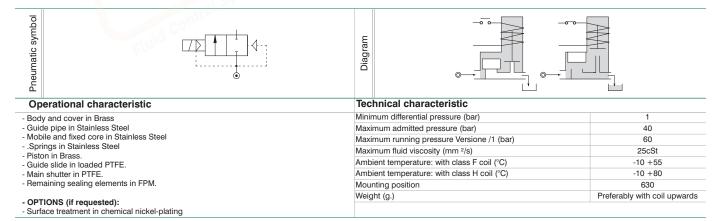




CODE "V"=Seals in FPM	Connection	Orifice	кv	Diff	ferential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.
	G ISO 228	(mm)	(m3/h)	Min	М	Max		AC VA		Series	Size	range
3 = Coil				IVIIII	AC	DC	Inrush	Holding	Watt	Jenes	Oize	(°C)
F3119BV52 B	1/4"	5,2	0,47	1,5	50	50	20	15	10	MG	30	-10 +140

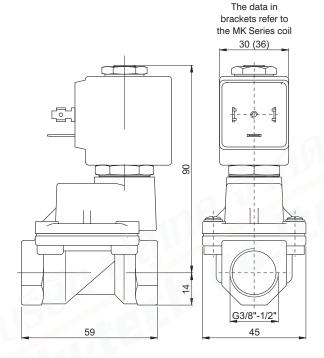
Example: F3119BV52® => F3119BV52MG5:

2-way normally closed servo-actuated piston solenoid valve in brass with Connector G (ISO228) 1/4", Seals in FPM, Orifice 5,2 mm, Coil 24V DC (MG5, size 30).



2-way normally closed, servo-actuated piston solenoid valve





CODE	Connection	Orifice	кv	Differential pressure (bar)			Power Consumption			Coil 😉		Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	Max		AC VA DC			Series	Size	range
3 = Coil	150 226			IVIIII	AC	DC	Inrush	Holding	Watt	Jenes	0.20	(°C)
F3119CV12 B	3/8"	12	2	1	30	30	20	15	10	MG	30	
F3119DV12 B	1/2"	12	2.2	1	30	30	20	15	10	MG	30	-10 +140
F3119CV12/18	3/8"	12	2	1	50	50	40	30	27	MK	36	-10 +140
F3119DV12/1 B	1/2"	12	2.2	1	50	50	40	30	27	MK	36	

Example: F3119DV12© => F3108DV12MG5:
2-way normally closed servo-actuated piston solenoid valve in brass with Connector G (ISO228) 1/2", Seals in FPM, Orifice 12 mm, Coil 24V DC (MG5, size 30).



Operational characteristic

- Body and cover in Brass
- Body and cover in Brass
 Guide pipe in Stainless Steel
 Mobile and fixed core in Stainless Steel
 Springs in Stainless Steel
 Piston in Brass.

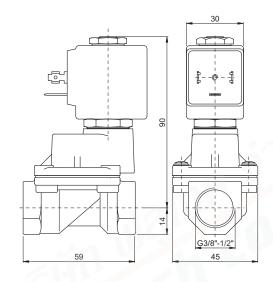
- Guide slide in loaded PTFE.
 Main shutter in PTFE.
- Remaining sealing elements in FPM.
- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating

Minimum differential pressure (bar)	1
Maximum admitted pressure (bar)	40
Maximum running pressure Versione /1 (bar)	60
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards
Weight (gr.) with MG Series Coil	630
Weight (gr.) with MK Series Coil	710

2-way normally closed servo-actuated piston solenoid valve for use with steam

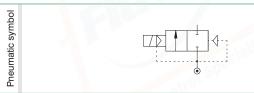


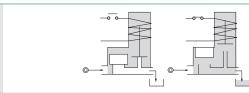
Connector G3/8" ÷ 1/2" (ISO228) - F3119W



CODE	Connection	Connection	Connection	Connection	Connection	Connection	Orifice	ΚV	Diff	erential p (bar)	ressure	Power	Consum	ption	Coi	il 😉	Temp.
"V"=Seals in FPM	G	(mm)	(m ³ /h)	Min	Max		AC	VA	DC	Series	Size	range					
3 = Coil	ISO 228		, , ,	IVIIII	AC	DC	Inrush	Holding	Watt	Selles	Size	(°C)					
F3119CW12/18	3/8"	12	2	2,5	9	9	20	15	10	MG	30	-10 +180					
F3119DW12/18	1/2"	12	2.2	2,5	9	9	20	15	10	MG	30	-10 +100					

Example: F3119DW12/1**6** => F3119DW12/1MG5:
2-way normally closed servo-actuated piston solenoid valve in brass with Connector G (ISO228) 1/2", Seals in FPM, Orifice 12 mm, Coil 24V DC (MG5, size 30).





Operational characteristic

- Body and cover in Brass
- Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelPiston in Stainless Steel.
- Guide slide in loaded PTFE.
 Sealing elements in PFTE/FPM.
- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating Steam sealing up to +160°C

Technical characteristic

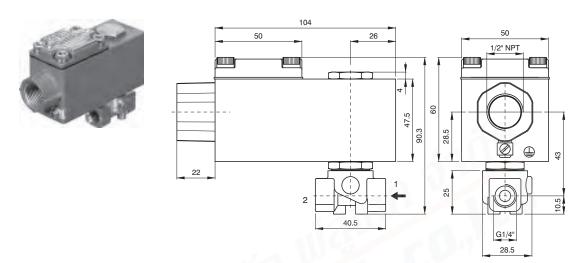
Diagram

Minimum differential pressure (bar)	2,5
Ambient temperature: only with class H Coil (°C)	-10 +80
Mounting position	Preferably with coil upwards
Weight (g.)	630

Coil 3 Series A6 (CURRENT) A6B=24 Volt (AC 50/60Hz) A6E=220/230 Volt (AC 50/60Hz)

A60=12 Volt (DC) A61=24 Volt (DC)

2-way solenoid normally closed valve, direct plunger operation, with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6



CODE "V"=Seals	Connection	Orifice	Orifice KV (mm) (m³/h)	Diffe	erential p (bar)	ressure	Po Consu	Temp.	
in FPM (3) = Coil	G ISO 228			Min	AC M	ax DC	AC Inrush	range (°C)	
FX3106BV35 B	1/4"	3,5	0,32	0	10	8	12	8	10 +140
FX3106BV456	1/4"	4,5	0,41	0	6,5	3,5	12	8	-10 +140

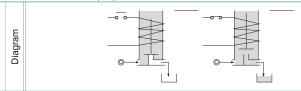
N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

Example: FX3106BV35b => FX3106BV35A60:

2-way solenoid normally closed valve, direct plunger operation, with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6 with Connector G (ISO228) 1/4", Seals in FPM, Orifice 3,5 mm, Coil 12V DC (A60).







Operational characteristic

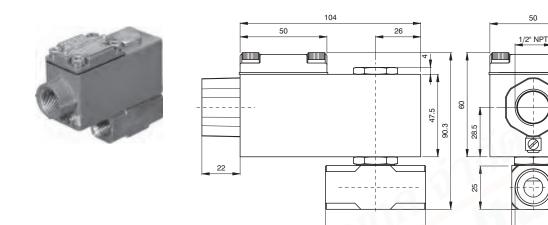
- Brass Body Container in light red coloured alloy
- Electrical connection 1/2" NPT
 Sealing elements in FPM
- OPTIONS (if requested):
- Manual operation Surface treatment in chemical nickel-plating
- Inserted stainless steel seating

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	With coil upwards
Weight (g.)	600



Connector G1/2" (ISO228) - FX3106

2-way normally closed direct acting solenoid valve with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6



CODE "V"=Seals	Connection	Orifice	KV	Differential pressure (bar)			Po	Temp.	
in FPM	G ISO 228	(mm)	(m ³ /h)	Min	Max		AC	DC	range
3 = Coil	130 226			IVIIII	AC	DC	Inrush	Watt	(°C)
FX3106DV52@	1/2"	5,2	0,47	0	4	1,8	12	8	-10 +140
FX3106DV64 6	1/2"	6,4	0,64	0	3	1	12	8	1-10 +140

Coil 3 Series A6 (CURRENT)							
A6B=24 Volt (AC 50/60Hz)							
A6E=220/230 Volt (AC 50/60Hz)							
A60=12 Volt (DC)							
A61=24 Volt (DC)							

G1/2' 25

50

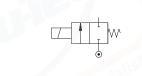
N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

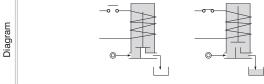
Example: FX3106DV52@ => FX3106DV52A60:

2-way solenoid normally closed valve, direct plunger operation. with housing for potentially explosive environments certified:

CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6, with Connector G (ISO228) 1/2", Seals in FPM, Orifice 5,2 mm, Coil 12V DC (A60).







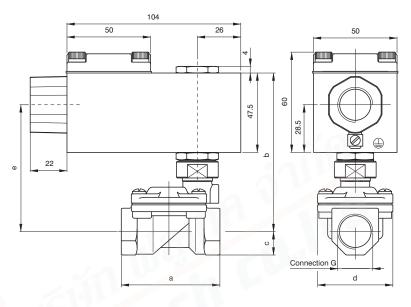
Operational characteristic

- Brass Body Container in light red coloured alloy
- Electrical connection 1/2" NPT Sealing elements in FPM
- OPTIONS (if requested):
- Manual operation
 Surface treatment in chemical nickel-plating
- Inserted stainless steel seating

Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	With coil upwards
Weight (g.)	660

2-Way normally closed solenoid valve, servo-actuated diaphragm, with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/ D Eex "d" IIC T6





Connection G	а	b	С	d	е	Weight (g)
G1/4" Ø10	49	90	11	32	71	720
G3/8" Ø12	59	95	14	45	76	920
G1/2" Ø12	59	95	14	45	76	920
G3/4"	79	101	18	54	82	1100
G1"	96	110	20	72	91	1500

	CODE	Connection	Orifice	fice KV	Diff	erential p (bar)	ressure	Power Co	Temp.	
	"V"=Seals in FPM	ISO 228	(mm)	(m³/h) Min		Max		AC	DC	range
	3 = Coil	130 220			IVIIII	AC	DC	Inrush	Watt	(°C)
Γ	FX3107BV10 6	1/4"	10	1,5	0,15	15	15	12	8	
Γ	FX3107CV126	3/8"	12	2,2	0,15	15	15	12	8	
Γ	FX3107DV12 B	1/2"	12	2,5	0,15	15	15	12	8	-10 +140
	FX3107EV18®	3/4"	18	5,5	0,15	13	13	12	8	
	FX3107FV25 ®	1"	24	10,2	0,15	10	10	12	8	

Diagram

Coil 3
Series A6
CURRENT
A6B=24 Volt
(AC 50/60Hz)
A6E=220/230 Volt
(AC 50/60Hz)
A60 =12 Volt (DC)
A61 =24 Volt (DC)

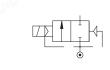
N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

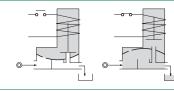
Example: FX3107BV1013 => FX3107BV101A60:

2-Way normally closed solenoid valve, servo-actuated diaphragm. with housing for potentially explosive environments certified:

CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6, with Connector G (ISO228) 1/4", Seals in FPM, Orifice 10 mm, Coil 12V DC (A60).







Operational characteristic

- Body and cover in Brass
- Container in light red coloured alloy
 Electrical connection 1/2" NPT
- Sealing elements in FPM
- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating
- Version with slowed commutation

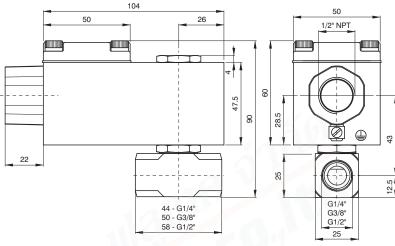
Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	Preferably with coil upwards



2-Way normally closed direct acting solenoid valve with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6



Connector G1/4" ÷ 1/2" (ISO228) - FX3110



	CODE	Connection	Orifice	ΚV	Dif	ferential p (bar)	ressure	Power Co	nsumption	Temp.	
	"V"=Seals in FPM	G ISO 228	(mm)	(m ³ /h)	Min	М	ax	AC	DC	range	
	3 = Coil	130 226	50 228	150 228		IVIII	AC	DC	Inrush	Watt	(°C)
Ì	FX3110BV256	1/4"	2,5	0,15	0	16	14	12	8		
Ī	FX3110BV356	1/4"	3,5	0,32	0	10	8	12	8		
	FX3110BV45 ®	1/4"	4,5	0,41	0	6,5	3,5	12	8		
	FX3110CV35 ®	3/8"	3,5	0,32	0	10	8	12	8	-10 +140	
	FX3110CV52 B	3/8"	5,2	0,47	0	4	1,8	12	8	-10 +140	
	FX3110DV35 B	1/2"	3,5	0,32	0	10	8	12	8		
	FX3110DV528	1/2"	5,2	0,47	0	4	1,8	12	8		
Ī	FX3110DV64 B	1/2"	6,4	0,64	0	3,5	1	12	8		

	Coil 3 Series A6
	CURRENT
ĺ	A6B=24 Volt
	(AC 50/60Hz)
	A6E=220/230 Volt
	(AC 50/60Hz)
	A60 =12 Volt (DC)
	A61=24 Volt (DC)

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

Example: FX3110BV25@ => FX3110BV25A60:

2-Way normally closed direct acting solenoid valve with housing for potentially explosive environments certified:

CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6, with Connector G (ISO228) 1/4", Seals in FPM, Orifice 2,5 mm, Coil 12V DC (A60).

Pneumatic symbol





Operational characteristic

- Stainless Steel Body Container in light red coloured alloy
- Electrical connection 1/2" NPT Sealing elements in FPM
- OPTIONS (if requested):

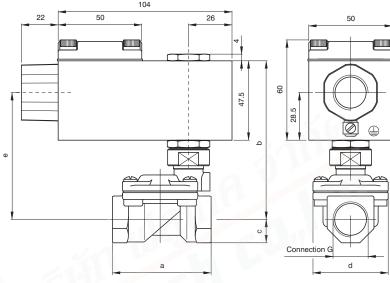
Technical characteristic

Diagram

Maximum admitted pressure (bar)	100
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	with coil upwards
Weight (g.)	660

2-Way normally closed servo-actuated diaphragm solenoid valve in stainless steel AISI 316, with housing for potentially explosive environments certified: CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6





Connection G	2	b		А		Weight (g)
Connection G	а	D	С	d	е	weight (g)
G3/8"	59	95	14	45	76	1120
G1/2"	59	95	14	45	76	1110
G3/4"	79	101	18	54	82	1100
G1"	96	110	20	72	91	1500

CODE Connection		Orifice KV		Differential pressure (bar)			Power Consumption		Temp.		
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h) Min		(m3/h)	\	М	ax	AC	DC	range
a = Coil				IVIIII	AC	DC	Inrush	Watt	(°C)		
FX3177CV121 B	3/8"	12	2,2	0,15	15	15	12	8			
FX3177DV121 B	1/2"	12	2,5	0,15	15	15	12	8	-10 +140		
FX3177EV181 ®	3/4"	18	5,5	0,15	13	13	12	8	-10 +140		
FX3177FV251 B	1"	24	10,2	0,15	10	10	12	8			

Series A6 CURRENT **A6B**=24 Volt (AC 50/60Hz) **A6E**=220/230 Volt (AC 50/60Hz) A60=12 Volt (DC) A61=24 Volt (DC)

Coil 3

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

Example: FX3177CV1216 => FX3177CV121460:

2-Way normally closed servo-actuated diaphragm solenoid valve in stainless steel AISI 316, with housing for potentially explosive environments certified:

CESI 03 ATEX 344 ExII2G/D Eex "d" IIC T6, with Connector G (ISO228) 3/8", Seals in FPM, Orifice 12 mm, Coil 12V DC (A60).



- Body and cover in Stainless Steel
- Container in light red coloured alloy Electrical connection 1/2" NPT Sealing elements in FPM

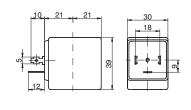
- OPTIONS (if requested): - Version with slowed commutation

Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	Preferably with coil upwards



MG Series coil (Size 30 mm), class F





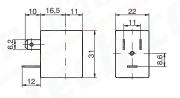


Options: Electrical connection via cables Special voltages and powers.

Operational char	acteristic						
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	Degree of protection with connector fitted	Continuous service	Electrical conn.	Connectors	Weight (g.)
F	+15% -10%	± 10%	IP65	ED100%	DIN 43650A	PG9 Codice 10349000	120

MI Series coil (Size 22 mm), class F





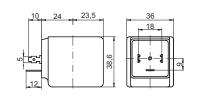


Options: Electrical connection via cables Special voltages and powers.

Operational characteristic							
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	Degree of protection with connector fitted	Continuous service	Electrical conn.	Connectors	Weight (g.)
F	+15% -10%	± 10%	IP65	ED100%	DIN 43650A	PG9 Codice 10349000	120

MK Series coil (Size 36 mm), class H







Ordering code

XME

VOLTEGE 56=24 Volt (AC 50/60Hz) 58=220/230 Volt (AC 50/60Hz)

5=24 Volt (DC) 4 =12 Volt (DC)

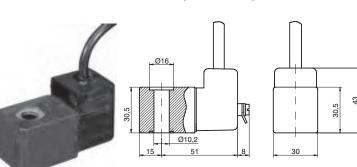
Options: Electrical connection via cables Special voltages and powers.

Options:

Electrical connection via cables Special voltages and powers.

Operational characteristic							
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	Degree of protection with connector fitted	Continuous service	Electrical conn.	Connectors	Weight (g.)
F	+15% -10%	± 10%	IP00	ED100%	DIN 43650A	PG9 Codice 10349000	200

Coils 2G Ex mb IIC T4-T6; II2D Ex mb IIIC T85°C-T135°C (Size 30 mm), Class H



Operational char	acteristic					
Class of insulation	Tolerance on AC voltage	Tolerance on DC voltage	Degree of protection with connector fitted	Continuous service	Electrical conn.	Weight (g.)
F	+15% -10%	± 10%	lp00	ED100%	3m cable	250