

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.

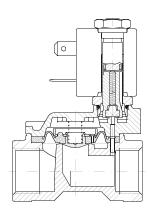
These solenoid valves are used to control high-pressure values with large diameter bores.

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.

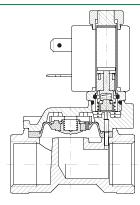
In these versions, performance does not depend solely on the magnetic field produced by the coil; a minimum input pressure is also needed so as to move the diaphragm or the piston overcoming its rigidity and to keep it raised from the main orifice. (Δp minimum performance).



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				



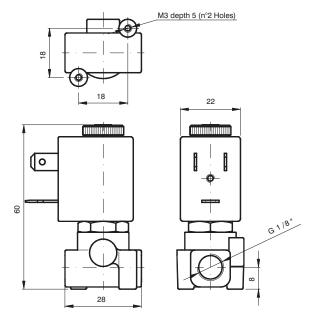
Resistance to fluids

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						
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2-way solenoid normally closed valve, direct plunger operation





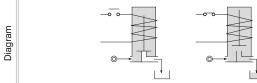
CODE	Connection	Orifice	кv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
3 = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Jenes	OIZO	(°C)
F3105AV25 B	1/8"	2,5	0,14	0	8	5,5	12	8	6,5	MI	22	-10 +130

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

Esempio: F3105AV25**6** => 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

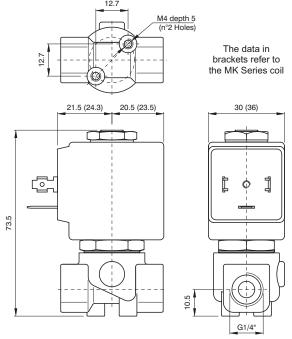
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Mounting position	indifferent
Weight (gr.) with MI Series Coil	130



Connector G1/4" (ISO228) - F3106

2-way solenoid normally closed valve, direct plunger operation





CODE	Connection	Orifice	ку	Diff	ferential p (bar)	ressure	Power	Consum	ption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
9 – Coli	130 226	150 228			AC	DC	Inrush	Holding	Watt	0000		(°C)
F3106BV15 B	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 B	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 B	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 1140
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	
F3106BV358	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 B	1/4"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3106BV64 B	1/4"	6,4	0,64	0	5	4.5	40	30	27	MK	36	

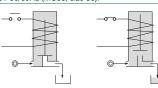
N.B. For use with steam, maximum admitted pressure PS is 6 bar (relative pressure) with seals in PTFE and 2.5 bar with seals in EPDM. Example: F3106BV52© => F3106BV52MG58:

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).

neumatic symbol	
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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):

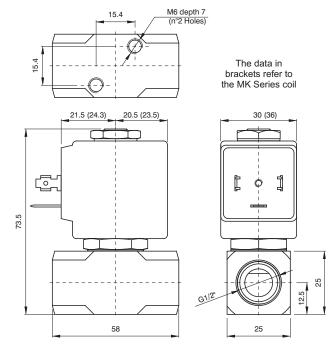
- Manual operationSurface treatment in chemical nickel-plating
- Inserted stainless steel seating
- For use with oxygen

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



2-way solenoid normally closed valve, direct plunger operation





CODE	Connection	Orifice	κv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	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	0000		(°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 B	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 ®	1/2"	5,2	0,47	0	10	9	40	30	27	MK	36	
F3106DV64 ®	1/2"	6,4	0,64	0	5	4,5	40	30	27	MK	36	

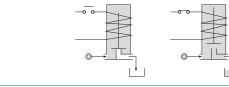
Diagram

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
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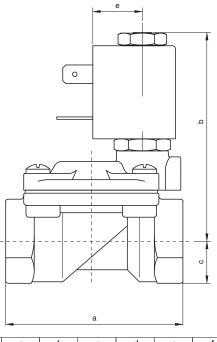


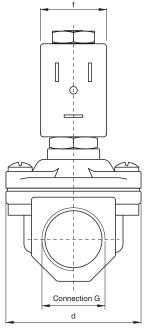


Connector G1/4" ÷ 1" 1/4" (ISO228) - F3107

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







Connection	а	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	кv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.
"V"=Seals in FPM B = Coil	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
9 - Coll	100 220				AC	DC	Inrush	Holding	Watt	001.00		(°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 6	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)

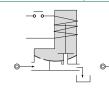
Example: F3107BV10 => F3107BV10MI5:

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

- OPTIONS (if requested):

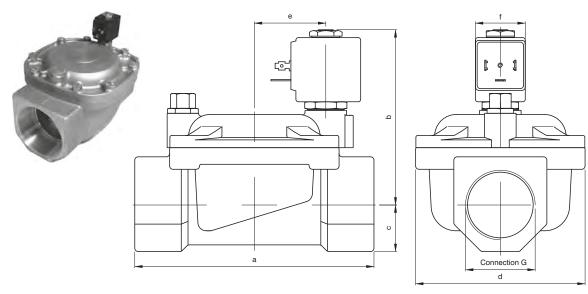
- Manual operation
 Surface treatment in chemical nickel-plating
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
 Version with slowed commutation

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

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	кv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.
"	V"=Seals in FPM	G	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
	3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	Oize	(°C)
	F3107GV37 B	1 1/4"	37	18	0,15	10	10	20	15	10	MG	30	
	F3107HV37 ®	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 \oplus => 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
- Body and cover in brass
 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
- Version for vacuum (air/gas)

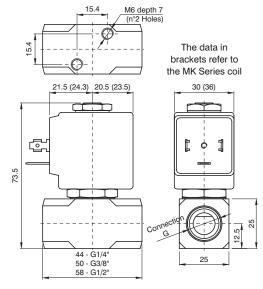
Minimum differential pressure (bar)	0,15 ÷ 3
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	Preferably with coil upwards



2-way solenoid normally closed valve, direct plunger operation



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



CODE	Connection	Orifice	ку	Diff	ferential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m ³ /h)	Min		ax	AC Inrush	VA Holding	DC	Series	Size	range (°C)
					AC	DC			Watt			(- /
F3110BV25 ®	1/4"	2,5	0,15	0	16	14	20	15	10	MG	30	
F3110BV35 ®	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®	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 ®	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	
F3110CV358	3/8"	3,5	0,32	0	20	19	40	30	27	MK	36	
F3110CV52 B	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

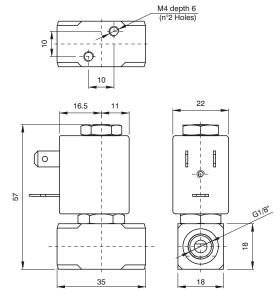
- OPTIONS (if requested):
 Manual operation
 Advance ring in silver
- For use with oxygen

iechnicai characteristic	
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



2-way solenoid normally closed valve, direct plunger operation





CODE	Connection	Orifice	κv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.
"V"=Seals in FPM	G	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	Oize	(°C)
F3111AV12 ®	1/8"	1,2	0,04	0	25	25	12	8	6,5	MI	22	
F3111AV15 ®	1/8"	1,5	0,06	0	16	16	12	8	6,5	MI	22	-10 +140
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):

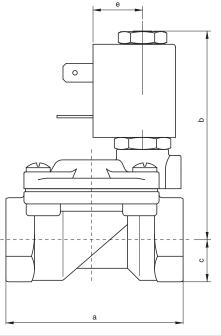
- Advance ring in silver
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
 For use with oxygen

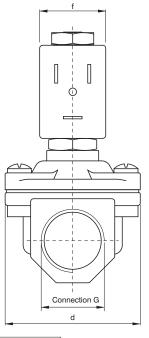
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (g.)	150



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	кv	Diff	erential p (bar)	ressure	Power	Consum	ption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	M	ax	AC	VA	DC	Series	Size	range
⊌ = Coll	150 226			IVIIII	AC	DC	Inrush	Holding	Watt	061163	O.LO	(°C)
F3177CV12 B	3/8"	12	2,2	0,15	15	15	12	8	6,5	MI	22	
F3177DV12 B	1/2"	12	2,5	0,15	15	15	12	8	6,5	MI	22	-10 +140
F3177EV18 ®	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	

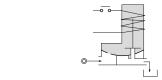
N.B. For use with steam maximum admitted pressure PS is 2.5 bar (relative pressure) Example: F3177CV12@ => F3177CV12MI5:

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 Steel
- Sealing assemblies in FPM

- OPTIONS (if requested):

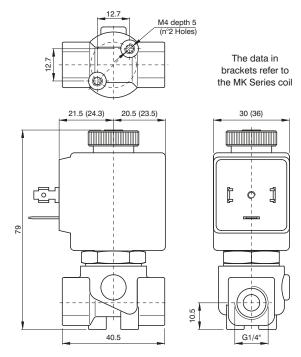
- Manual operation
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
- Seals for use with foodstuff fluids.
 Version with slowed commutation
- Advance ring in silver

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	ку	Diff	ferential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.
"V"=Seals in FPM G = Coil	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	VA	DC	Series	Size	range
G = Coll	130 226			IVIIII	AC	DC	Inrush	Holding	Watt	Jenes	0.20	(°C)
F3206BV15 ®	1/4"	1,5	0,07	0	23	-	20	15	-	MG	30	
F3206BV20 ®	1/4"	2,0	0,1	0	17	-	20	15	-	MG	30	
F3206BV25 3	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 ®	1/4"	4,5	0,41	0	4,5	-	20	15	-	MG	30	
F3206BV52 B	1/4"	5,2	0,47	0	3	-	20	15	-	MG	30	
F3206BV15 3	1/4"	1,5	0,07	0	23	23	20	15	-	MK	36	-10 +140
F3206BV20 3	1/4"	2,0	0,1	0	17	17	40	30	27	MK	36	
F3206BV25 6	1/4"	2,5	0,15	0	12	12	40	30	27	MK	36	
F3206BV35 B	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 8	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).

Pneumatic symbol Diagram Technical characteristic

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):
- Surface treatment in chemical nickel-plating Guide pipe in Stainless Steel

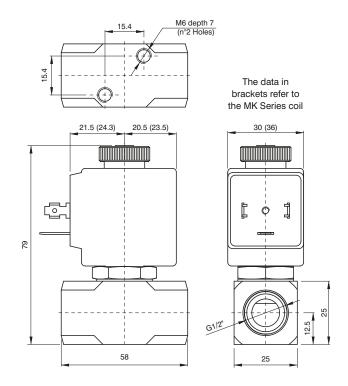
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent
Weight (gr.) with MG Series Coil	300
Weight (gr.) with MK Series Coil	380



Connector G1/2" (ISO228) - F3206

2-way normally open with direct operated plunger solenoid valve





	CODE	Connection	Orifice	кv	Differential pressure (bar)			Power Consumption			Coil (9		Temp.
ı	"V"=Seals in FPM	G	(mm)	(m³/h)	Min	М	ax	AC	VA DC Series		Size	range	
ı	3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Series	OIZ6	(°C)
	F3206DV528	1/2"	5,2	0,47	0	3	-	20	15	-	MG	30	
I	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).

Diagram









50

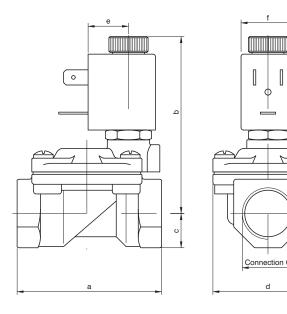
Operational characteristic

- 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

waxiiiaiii adiiitted pressure (bai)	30
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	κv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	il 😉	Temp.	
"V"=Seals in FPM B = Coil	G ISO 228	(mm)	m) (m3/h)			М	Max		AC VA		Series	Size	range
9 - Coll	130 226				AC	DC	Inrush	Holding	Watt	Ochoo		(°C)	
F3207BV10 B	1/4"	10	1,5	0,15	15	15	12	8	6,5	MI	22		
F3207CV10 B	3/8"	10	1,7	0,15	15	15	12	8	6,5	MI	22		
F3207DV12 B	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 Steel
 Sealing assemblies in FPM

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

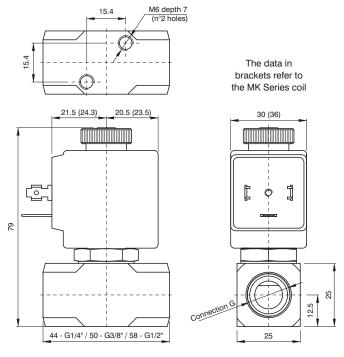
Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent



2-way normally open with direct operated plunger solenoid valve



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



CODE	Orifice		κv	Diff	erential p (bar)	ressure	Power	Consun	nption	Coil 3		Temp.
"V"=Seals in FPM	G	(mm)	(m³/h)		Max		AC	AC VA		Series	Size	range
3 = Coil	ISO 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0120	(°C)
F3210BV25 6	1/4"	2,5	0,15	0	10	-	20	15	-	MG	30	
F3210BV35 B	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®	3/8"	3,5	0,32	0	7	-	20	15	-	MG	30	
F3210CV528	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 B	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	
F3210CV528	3/8"	5,2	0,47	0	3	3	40	30	27	MK	36	
F3210DV35 B	1/2"	3,5	0,32	0	7	7	40	30	27	MK	36	
F3210DV52 B	1/2"	5,2	0,47	0	3	3	40	30	27	MK	36	
F3210DV64 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: F3210BV25**9** = > F3210BV25MG56:

2-way	normally open with direct operated plunger sciencia valve with Connector G (ISO228)	1/4",	Seals in FPIVI, Orifice 2,5 mm, Coll 24V 50/60HZ (MC	256, 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

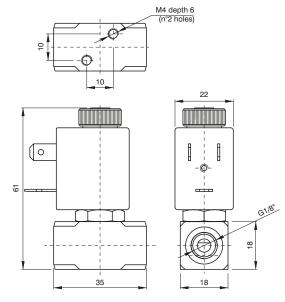
Tec	hnical	characteristic	

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	CODE Connection		κv	Differential pressure (bar)			Power Consumption			Coil 3		Temp.	
"V"=Seals in FPM		Orifice (mm)	(m3/h)		М	ax	AC	VA DC		Series	Size	range	
3 = Coil	ISO 228			Min	AC	DC	Inrush	Holding	Watt	Jenes	0120	(°C)	
F3211AV12 ®	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 3	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

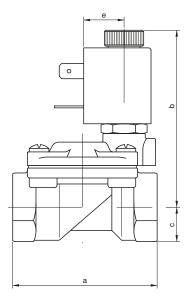
- **OPTIONS** (if requested):
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.

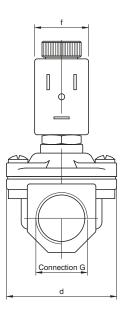
Maximum admitted pressure (bar)	50
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature: with class F coil (°C)	-10 +55
Ambient temperature: with class H coil (°C)	-10 +80
Mounting position	indifferent



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

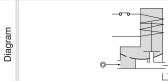
CODE	Connection Orifice		кv	Differential pressure (bar)			Power Consumption			Coi	Temp.	
"V"=Seals in FPM	1	(mm)	(m³/h)	Min	М	Max		AC VA		Series	Size	range
3 = Coil	ISO 228		, , ,	IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0.20	(°C)
F3277CV12 ®	3/8"	12	2,2	0,15	15	15	12	8	6,5	MI	22	
F3277DV12 B	1/2"	12	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@ => 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).

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):

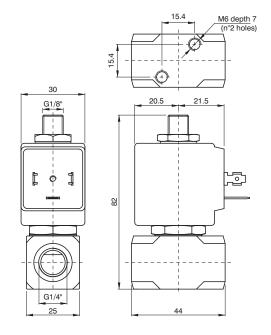
- Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
 Seals for use with foodstuff fluids.

Technical characteristic	
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

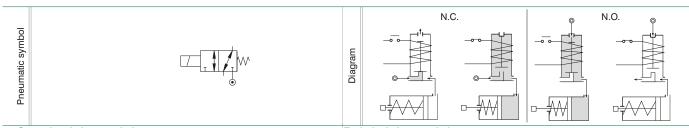




	CODE	Connection	Orifice		кv	Differential pressure (bar)		Power Consumption			Coi	Temp.		
	"V"=Seals in FPM	G ISO 228	(m) Min	Max		AC VA		DC	Series	Size	range
l			alim.	scar.		IVIIII	AC	DC	Inrush	Holding	Watt	Selles	O IZC	(°C)
	U Universal													
	F3310BV25U ®	1/4"	2,5	2,4	0,16	0	5	4	20	15	10	MG	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

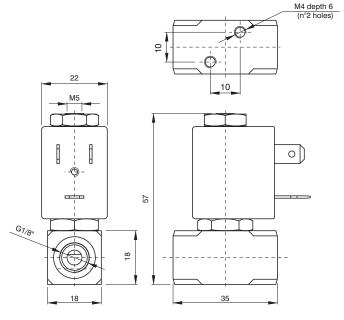
- OPTIONS (if requested):
 Advance ring in silver

	+ 10%
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



3-way direct acting solenoid valve

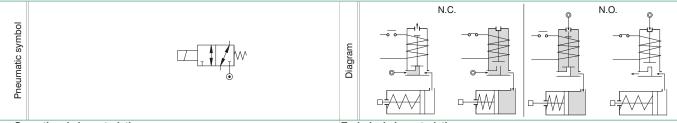




	CODE	Connection	Ori	Orifice	KV	Differential pressure (bar)			Powe	r Consu	mption	C	Temp.	
	"V"=Seals in FPM		(m	ım)	(m³/h)	Min -	Max		AC VA		DC	Series	Size	range
	3 = Bobna	ISO 228	alim.	scar.			AC	DC	Spunto	Regime	Watt	Selles	Size	(°C)
	U Universal													
Γ	F3311AV15U ®	1/8"	1,5	1,5	0,06	0	6	6	12	8	6,5	MI	22	-10 +140

Example: F3311AV15G(3) => 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

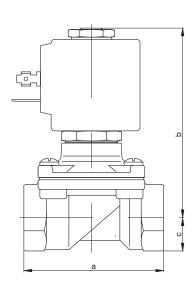
- Stainless Steel Body
- Guide pipe in Stainless Steel Mobile and fixed core in Stainless Steel
- Springs in Stainless SteelSealing assemblies in FPM
- OPTIONS (if requested):
- Advance ring in silver
 Coil for potentially explosive environments meeting 'ATEX standards Ex m Serie XME'.
- Exhaust with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

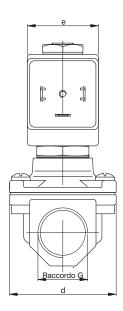
Maximum running pressure
+ 10%
25cSt
-10 +55
-10 +80
indifferent
150



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



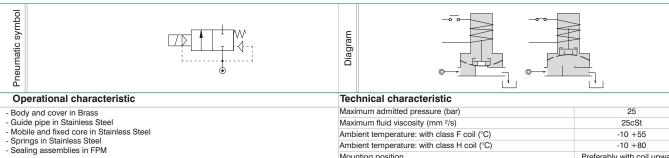




Connection	а	b	С	d	е	f	Weight (g) Series 2	Weight (g) Series 5
G3/8" Ø12	59	83	14	45	16	36	0,50	0,58
G1/2"	59	83	14	45	16	36	0,45	0,53
G3/4"	79	90	18	55		36	-	0,75
G1"	96	101	20	72		36	-	1,10

CODE	Connection	Orifice		Orifice			erential p (bar)	ressure	Power	Consun	nption	Co	il 😉	Temp.
"V"=Seals in FPM	G ISO 228	(mm)	KV (m³/h)	Min	М		AC	VA	DC	Series	Size	range		
9 - 0011	100 220				AC	DC	Inrush	Holding	Watt			(°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 3	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).



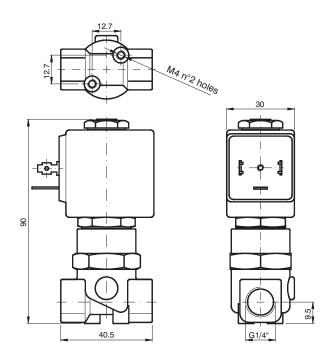
- OPTIONS (if requested):
- Surface treatment in chemical nickel-plating



Connector G1/4" (ISO228) - F3119

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

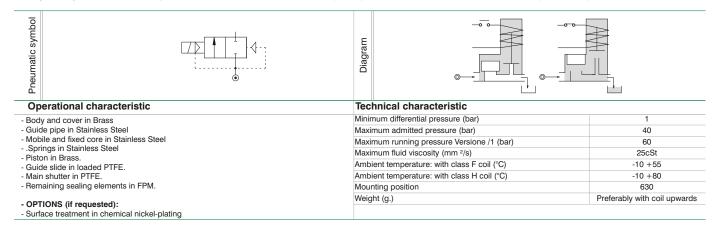




	CODE "V"=Seals in FPM	Connection	Orifice	кv	Diff	erential p (bar)	ressure	Power	Consum	nption	Co	il 😉	Temp.
		G ISO 228	(mm)	(m³/h)	Min	Max		AC VA		DC	Series	Size	range
	3 = Coil	150 228			IVIIII	AC	DC	Inrush	Holding	Watt	Selles	0120	(°C)
Г	F3119BV52 B	1/4"	5.2	0.47	1.5	50	50	20	15	10	MG	30	-10 +140

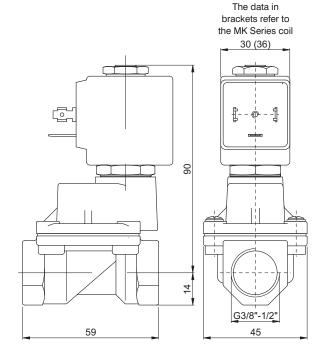
Example: F3119BV52**®** => F3119BV52MG5:

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		κv	Differential pressure (bar)			Power Consumption			Coil 3		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	Selles	0120	(°C)
F3119CV12 6	3/8"	12	2	1	30	30	20	15	10	MG	30	
F3119DV12 ®	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).



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

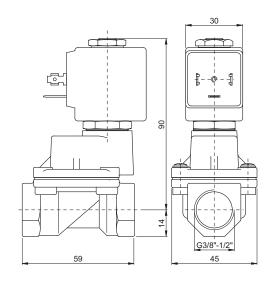
- Guide slide in loaded PTFE.
 Main shutter in PTFE.
 Remaining sealing elements in FPM.
- OPTIONS (if requested):
 Surface treatment in chemical nickel-plating

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



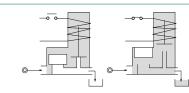


	CODE	Connection	Orifice	κv	Diff	erential p (bar)	ressure	Power	Consun	ption	Co	Temp.	
	"V"=Seals in FPM	G	(mm)	(m³/h)	Min	Min Max		AC	VA DC		Series	Size	range
	3 = Coil	ISO 228		, ,	/ IVIIN	AC	DC	Inrush	Holding	Watt	Series	O126	(°C)
	F3119CW12/1 B	3/8"	12	2	2,5	9	9	20	15	10	MG	30	-10 +180
Г	F3119DW12/1 ®	1/2"	12	2.2	2,5	9	9	20	15	10	MG	30	-10 +100

Example: F3119DW12/16 => 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 Steel
 Piston 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

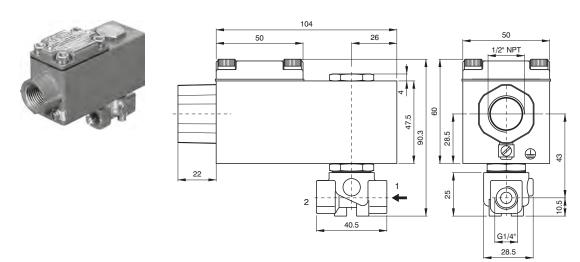
Technical characteristic

Diagram

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



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	κv	Diffe	erential p (bar)	ressure		wer mption	Temp.
in FPM	G ISO 228	(mm)	(m ³ /h)	Min	М	ax	AC	DC	range
3 = Coil	130 220			IVIIII	AC	DC	Inrush	Watt	(°C)
FX3106BV356	1/4"	3,5	0,32	0	10	8	12	8	-10 +140
FX3106BV458	1/4"	4,5	0,41	0	6,5	3,5	12	8	-10 -140

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

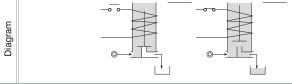
N.B. The solenoid valve is suited for intercepting only fluids that are NOT potentially explosive.

Example: 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

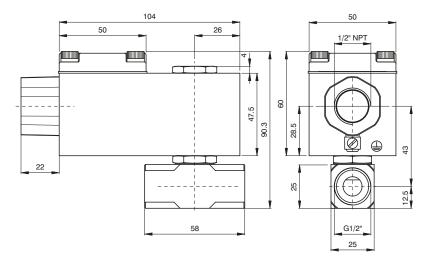
Maximum admitted pressure (bar)	80
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	With coil upwards
Weight (g.)	600



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	κv	Diffe	erential p (bar)	ressure		wer imption	Temp.
in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC	DC	range
3 = Coil	130 220			IVIIII	AC	DC	Inrush	Watt	(°C)
FX3106DV52 6	1/2"	5,2	0,47	0	4	1,8	12	8	-10 +140
FX3106DV64 3	1/2"	6,4	0,64	0	3	1	12	8	-10 +140

Coil © 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.

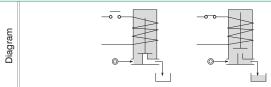
Example: FX3106DV52@ => FX3106DV52A60:

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).

Pneumatic symbol





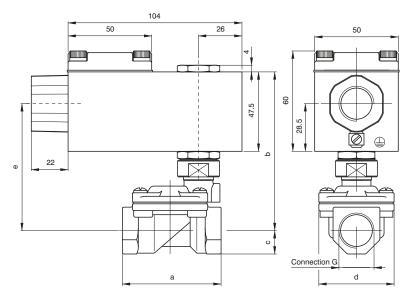
Operational characteristic

- 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	κv	Diff	ferential p (bar)		Power Co	Temp.			
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h) Min		(m ³ /h)		M	ax	AC	DC	range
3 = Coil	130 226			IVIIII	AC	DC	Inrush	Watt	(°C)		
FX3107BV10 B	1/4"	10	1,5	0,15	15	15	12	8			
FX3107CV128	3/8"	12	2,2	0,15	15	15	12	8			
FX3107DV12 8	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.

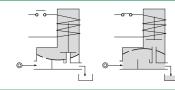
 Example: FX3107BV101@ => FX3107BV101A60:

 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" NPTSealing elements in FPM

- OPTIONS (if requested):
 Surface treatment in chemical nickel-plating
- Version with slowed commutation

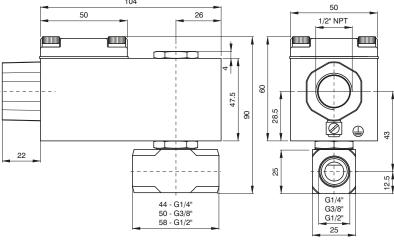
Minimum differential pressure (bar)	0,15
Maximum admitted pressure (bar)	25
Maximum fluid viscosity (mm 2/s)	25cSt
Ambient temperature (°C)	-10 +40
Mounting position	Preferably with coil upwards



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

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	Connection	Orifice	ifice KV		ferential p (bar)	ressure	Power Co	Temp.		
"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	М	ax	AC DC		range	
3 = Coil	130 220			IVIII	AC	DC	Inrush	Watt	(°C)	
FX3110BV25 B	1/4"	2,5	0,15	0	16	14	12	8		
FX3110BV35 B	1/4"	3,5	0,32	0	10	8	12	8		
FX3110BV45 B	1/4"	4,5	0,41	0	6,5	3,5	12	8		
FX3110CV35 B	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		
FX3110DV52 B	1/2"	5,2	0,47	0	4	1,8	12	8		
FX3110DV64 B	1/2"	6,4	0,64	0	3,5	1	12	8		

Coil @ 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: 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

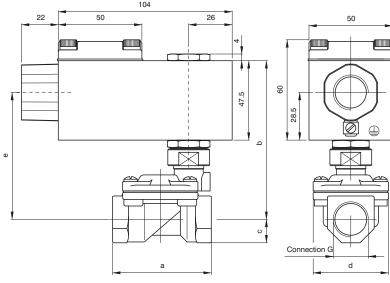
- Stainless Steel Body Container in light red coloured alloy
- Electrical connection 1/2" NPT
 Sealing elements in FPM
- OPTIONS (if requested):
- Advance ring in silver

()	
Maximum fluid viscosity (mm 2/s)	00
Waximum ilulu viscosity (mm -/s)	icSt
Ambient temperature (°C) -10	+40
Mounting position with coil	lupwards
Weight (g.)	60



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	а	b	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	κv	Diff	erential pr (bar)	essure	Power Co	nsumption	Temp.
	"V"=Seals in FPM	G ISO 228	(mm)	(m³/h)	Min	M	ax	AC	DC	range
	3 = Coil	130 226			IVIIII	AC	DC	Inrush	Watt	(°C)
	FX3177CV121 B	3/8"	12	2,2	0,15	15	15	12	8	
Г	FX3177DV121 6	1/2"	12	2,5	0,15	15	15	12	8	-10 +140
	FX3177EV181 B	3/4"	18	5,5	0,15	13	13	12	8	-10 +140
	FX3177FV251 ®	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.

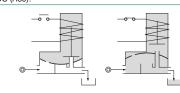
Example: FX3177CV121@ => FX3177CV121A60:

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).

Pneumatic symbol





Operational characteristic

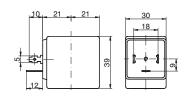
- Body and cover in Stainless Steel
- Container in light red coloured alloy Electrical connection 1/2" NPT Sealing elements in FPM

- 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





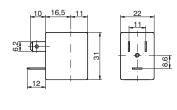


Options: Electrical connection via cables Special voltages and powers.

Operational cha	racteristic						
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





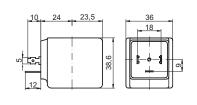


Options: Electrical connection via cables Special voltages and powers.

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



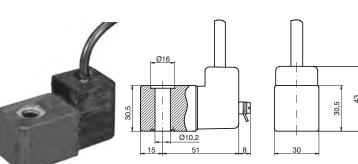




Options: Electrical connection via cables Special voltages and powers.

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%	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



	Ordering code
	XME
	VOLTEGE
	56=24 Volt (AC 50/60Hz)
Ū	58=220/230 Volt (AC 50/60Hz)
	5=24 Volt (DC)
	4 = 12 Volt (DC)

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.	Weight (g.)
F	+15% -10%	± 10%	Ip00	ED100%	3m cable	250



2way angle seat valve pneumatically operated





Table of dimensions

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sw
A

CODE AISI316	CODE AISI304	Connection G	Actuator (mm)	C (mm)	R (mm)	K (mm)	Q (mm)	T (mm)	A (mm)	L (mm)	SW (mm)
PVF40115-316	PVF40115-304	1/2"	40	50,5	27	111	1/8"	15	119	68	27
PVF50115-316	PVF50115-304	1/2"	50	60	33	124	1/8"	15	131	68	27
PVF50120-316	PVF50120-304	3/4"	50	60	33	128	1/8"	16	136	75	32
PVF50125-316	PVF50125-304	1"	50	60	33	136	1/8"	17	145	90	40
PVF63125-316	PVF63125-304	1"	63	75	41	162	1/8"	17	169	90	40
PVF63132-316	PVF63132-304	1 -1/4"	63	75	41	174	1/8"	21	187	116	50
PVF63140-316	PVF63140-304	1 -1/2"	63	75	41	175	1/8"	21	187	116	56
PVF63150-316	PVF63150-304	2"	63	75	41	183	1/8"	22	201	138	69
PVF125AL165-316	PVF125AL165-304	2-1/2"	125-Aluminium	148	74	302	1/4"	26	320	178	85
PVF125AL180-316	PVF125AL180-304	3"	125-Aluminium	148	74	313	1/4"	27	372	210	100

Technicals data

CODE	CODE	Connection	ΚV	Actuator	Maximum ΔP (bar)		Piloting	Weight
AISI316	AISI304	G	m³h	(mm)	Above seat	Under seat	pressure (bar)	(g.)
PVF40115-316	PVF40115-304	1/2"	4,8	40	16	13		765
PVF50115-316	PVF50115-304	1/2"	4,8	50	16	14		952
PVF50120-316	PVF50120-304	3/4"	10	50	16	14		1062
PVF50125-316	PVF50125-304	1"	14	50	16	8		1371
PVF63125-316	PVF63125-304	1"	14	63	16	13	3 ÷ 8	2006
PVF63132-316	PVF63132-304	1 -1/4"	23	63	16	8		2575
PVF63140-316	PVF63140-304	1 -1/2"	30	63	16	5		2714
PVF63150-316	PVF63150-304	2"	70	63	9	3		3634
PVF125AL165-316	PVF125AL165-304	2-1/2"	107	125-Aluminium	16	9		9713
PVF125AL180-316	PVF125AL180-304	3"	157	125-Aluminium	16	5	3 ÷ 10	13003



Operational characteristic

- High flow rate thanks to Body configuration with inclined seating.
- Anti water hammer functioning with input below shutter.
- Pneumatically operated valve with stainless steel Body, resistant to ambient corrosion. Self-levelling shutter to ensure improved sealing.
- Optical position indicator.
- May be used with back pressure for gaseous fluids.
- Self-adjusting maintenance free stuffer gasket package.
- Valves may be mounted in all positions.
- OPTIONS:
- Connection type: GAS ISO / NPT

Valve Body technical characteristics

- Fluid temperature: -10°C ÷ + 180°C
- Temperature: $-10^{\circ}\text{C} \div + 80^{\circ}\text{C}$ Fluid viscosity: max. 600cSt. Shutter: PTFE.
- Gasket packet with PTFE, FKM stuffer

Actuator technical characteristics

- Body AISI 304
- Pilot fluid dry or lubricated Air, gas and
- neutral fluids.
- Temperature fluid max. + 60°C.

Proximity Sensor





oximity Sensor	· ·
The state of the s	
kel brass sensor, usable on valves o size 2 inches for detection ON - OFF	

	PVF. ⊕ .S
	OUTPUT TYPE
_	01 = NPN (N.C.)
Ū	02= NPN (N.O.)
	03 = PNP (N.C.)
	04 = PNP (N.O.)

Operational characteris					
Maximum current	Voltage field	Temperature (°C)	Detection Distance	Protection grade	Weight (g)
100 mA	10 ÷ 30V DC	-10°C ÷ +70°C	3mm (max) ± 10 %	IP67	68