







Process automation technology Catalogue

Stainless steel and aluminum components and systems: valves and solenoid valves, components for air treatment and accessories for applications in the process industry

Pneumax

Smart Technologies and Human Competence

Founded in 1976, **Pneumax S.p.A.** is today one of the leading, international manufacturers of components and systems for automation. It is at the fore front of a group comprised of **27 companies**, with **over 800 employees worldwide**.

Ongoing investment in research and development has allowed **Pneumax** to continually expand its range of standard products and customised solutions, adding to the well-established pneumatic technology, a range of electric drive actuators and fluid control components.

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Pneumatic technology



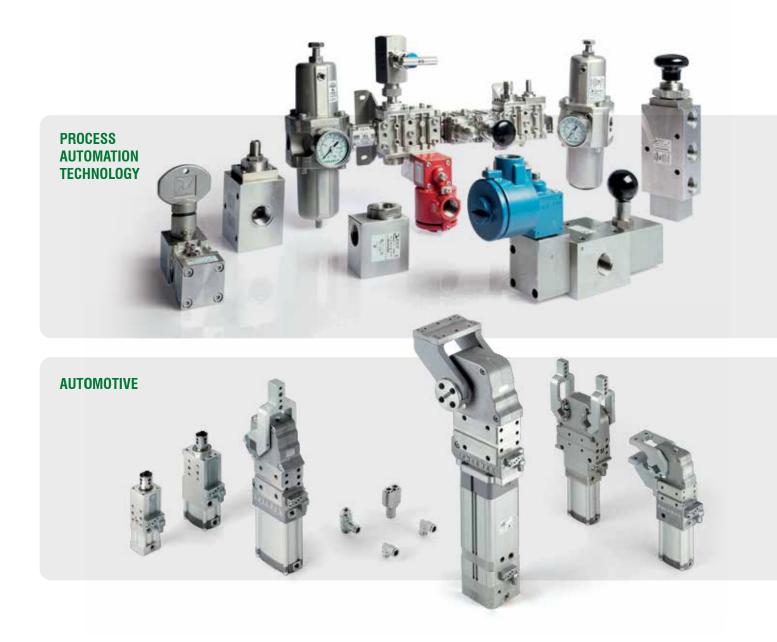
Electric actuation



Fluid control



INDUSTRIAL AUTOMATION



The ability to provide various technologies and solutions for each of our clients applications is the main objective of the Company, making Pneumax the ideal strategic partner.

What defines us is the "Pneumax Business Attitude", born out of the capacity to combine industry sectors, technology and our application skills via the clients collaboration with our business and product specialists. The most effective solutions are studied around the TCO (Total cost of ownership) related to the entire life cycle of the product.

This represents the main Pneumax distinguishing factor.

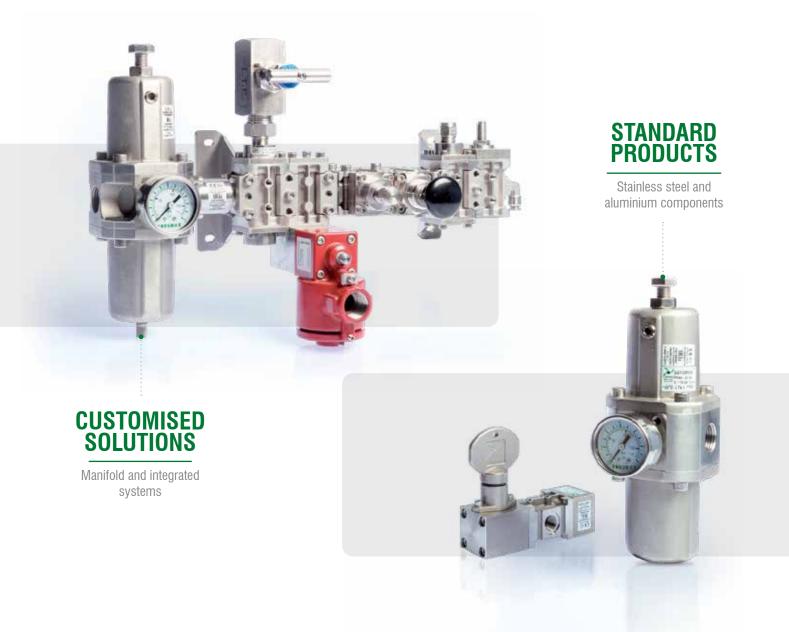


Process automation technology

A wide range of standard components and customized solutions

Pneumax S.p.A. offers a wide range of engineered solutions and components for the process automation industry. These have been designed to meet the latest industry standards and customer specifications. Long term performance and reliability are never compromised at Pneumax, a trustworthy partner to achieve full customer satisfaction for severe service and harsh environmental applications.

Pneumax products are designed and engineered in compliance with the latest international standards, following sophisticated and reliable prototyping as well as rigorous testing procedures to provide efficient and cost effective solutions. The combination of the latest technology and manufacturing experience allow Pneumax to add more products to their extensive portfolio with a wide range of components and services.





Application sectors

- Petrochemical
- Oil & gas
- Power generation
- Water treatment











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Series Airplus - aluminium



- Modular system
- · Compact and linear design
- · Maximum flexibility and reliability
- Plug-n-play connection thru couplig flanges

- Available in 3 sizes with connections from 1/4" to 1"
- ATEX certification (II 2GD)

Construction and working characteristics

Pneumax AIRPLUS air treatment units have been designed and developed to increase reliability, modularity and user-friendly operation and installation.

This range of filters, regulators and filter regulators are constructed using a light weight aluminum body which ensures strength whilst at the same time making them suitable for a wide range of applications in temperatures from -40 to $+80^{\circ}$ C.

The filters operated in pressures up to 12 bar with filtration available from 5 to 50 microns.

Pneumax Airplus air treatment units can be integrated with safety elements that comply with EN-ISO 13849-1 and CE marking according to EU Machinery Directive, Annex V.

AIRPLUS air treatment units are available in 3 different sizes, with connections from 1/4 "to 1" BSP and NPT and flow rates performances up to 8000NI/min.

Instruction for installation and operation

The FRL unit should be installed as close as possible to the 'point of use'. The air flow direction should follow the direction indicated on the individual modules, following threaded connections (IN and OUT). Units fitted with a with bowl should be mounted vertically with the bowl facing down. All units should be operated in accordance to the specified pressure and temperature ranges and should never exceed 0.2 Hz max frequency whether pulsing inlet pressure occur.

Fittings shall be mounted according to the maximum torque specified.

Maintenance

To carry out maintenance which involves the removal of the caps or supports above the body and where the retaining screws are present, it is necessary to remove the cover plates beforehand. If you attempt to dis-assemble the caps or supports without removing the cover plates and retaining screws, the integrity and function of the device could be compromised.

Bowls, plugs and supports are assembled with a bayonet type mechanism. In order to remove them, rotate anti-clockwise until the mechanical stop is reached and then remove from the body (for the bowls firstly press down the green safety button).

Bowls and transparent parts can be cleaned with water and neutral soap. Do not use solvents or alcohol.

Filtering elements (present in filters and filter regulators) made of HDPE can be regenerated by washing and blowing them.

In order to remove them it is necessary to remove the bowl unscrew the filter element and replace it with a new one or clean it.

Lubricator oil recharge might be performed during normal operation (apart Size 1) depressurizing the bowl thru dedicated plug. Pneumax suggest refilling oil directly into the bowl.

No others maintenance operation shall be carried out by client itself, due to complexity of the assembly and Pneumax dedicated post-maintenance testing activities.

ENFINAY

Filters (F)





- Double filter action: air flow centrifugation and filter element
- Available in 3 sizes with flow rates up to 14000 NI/min and connections from 1/4" to 1"
-) Filtering cartridge made of HDPE available in three different filtration grades (5μm, 20μm, 50μm)
-) Filter cartridge can be regenerated by washing / blowing it or replaced
-) Bowl assembly via bayonet type quick coupling mechanism with safety button
-) Semi-automatic, automatic or manual metal drain
- Atex certification (II 2GD)
- Inlet pressures up to 20 bar

Note

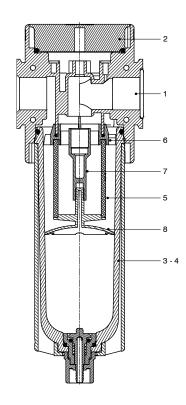
In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6mm fitting and tube.

	Technical characteristics							
Size		Size 2	Size 4					
Body and connection	ons type		Aluminium body, integrated aluminium connections					
Protection and bowl type		Metal protection - PC bowl Metal protection - PA bowl Metal bowl (blind metal bowl)						
IN / OUT connections	P and L version	G3/8" - 1/4" NPT	G1/2" - 1/2" NPT	G1" - 1" NPT				
Assembly configuration		Stand	Panel mounted					
Assembly positions		Vertical ±5°						
Filter pore size		5 µm 20 µm 50 µm						
Bowl capacity		34 cm ³	68 cm ³	90 cm³				
Condensation drain								
Max. fittings torque IN / OUT connections		G1/4" metal: 20Nm G3/8" metal: 25Nm	G3/8" metal: 25Nm G1/2" metal: 30Nm	G1"metal: 35Nm				

Operational characteristics							
Size	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4	
Condensation drain	S	Semi-automatic / Manual met	tal	Automatic			
Maximum working pressure	20 bar (only with body and metal bowl)			16 bar (only with body and metal bowl)			
Minimum working pressure	0,5 bar			0,5 bar			
Working temperature	-5°C +50°C (technopolymer bowl) -30°C +80°C (only for P version and metal bowl) -40°C +80°C (only for L version and metal bowl)				-5°C +50°C		

Weights						
Size	Size 2	Size 3	Size 4			
Aluminium body version, aluminium bowl protection and technopolymer bowl	344 g	514 g	1306 g			
Aluminium body version and aluminium bowl	389 g	587 g	1330 g			

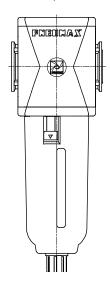
Materials



	Filter							
1	Body	Polyamide Die-cast aluminium						
2	Upper plug	Polyamide						
3	Technopolymer bowl	Polycarbonate Polyamide						
4	Metal bowl Bowl protection	Die-cast aluminium Die-cast aluminium						
5	Filtering element	Polyethylene						
6	Baffle	Acetal resin						
7	Spool support	Acetal resin						
8	Filtering element support	Acetal resin						

Design

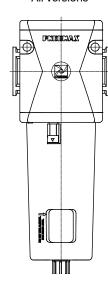
Size 2 - Size 3 Protection / Metal bowl



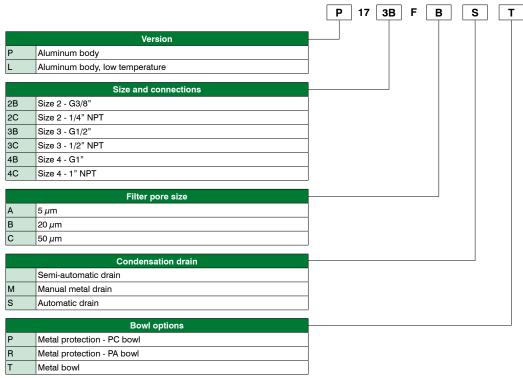
Size 4 All versions

Air service units

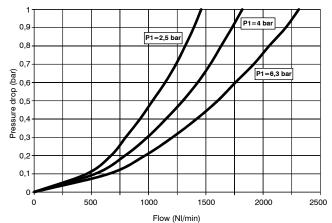
Series Airplus - aluminium

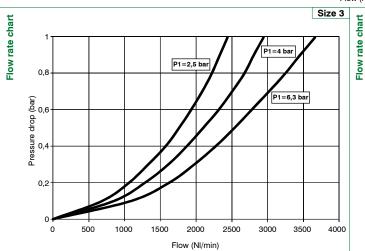


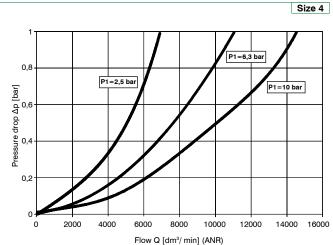
Order codes



Example : P173BFBST : Size 3 filter G1/2" 20 μ m, automatic drain and metal bowl

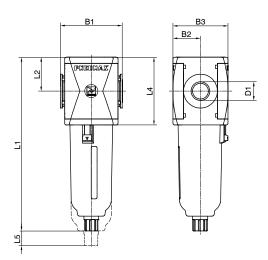




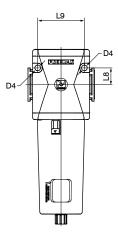


Dimensions

Semi-automatic drain version



Fixing holes dimension detail (only for size 4)



Model	B. B. B. B.		D4	D4	L1 - Bowl	material						
Model	B1	B2	В3	D1	D4	Technopolymer	Metal	L2	L4	L5	L8	L9
#172	62	28,5	57	G3/8" 1/4" NPT	/	169,5 - 164,5*	171,5 - 166,5*	34	68	50	/	/
#173	73	32,5	65	G1/2" 1/2" NPT	/	207,5 - 202,5*	209,5 - 204,5*	40	80	65	/	/
#174	99	44	88	G1" 1" NPT	8,5	262 - 257,5*	264,5 - 259,5*	52,5	105	103	25	70

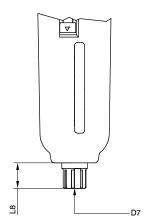
^{* =} With manual metal drain

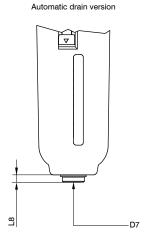
PROCESS AUTOMATION TECHNOLOGY

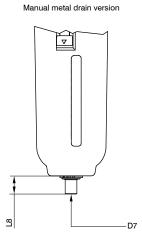
Process automation technology Catalogue

Variable dimensions









Model	L8 - Bow	D7	
Model	Technopolymer Metal		יט
Semi-automatic drain	16	18	Plastic hose connector
Automatic drain	2	4,5	G1/8"
Manual metal drain	11	13	○ 5

Filter regulators (E)



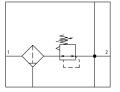


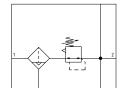
- Filter diaphragm pressure regulator with relieving
- Available in 3 sizes with flow rates up to 8000 NI/min and connections from 1/4" to 1"
- Low histeresis rolling diaphragm and balanced spool
- Filtering element made of HDPE available in 3 different filtration grades (5μm, 20μm and 50μm)
- Bowl assembly via bayonet type quick coupling mechanism with safety button

Air service units

Series Airplus - aluminium

- Semi-automatic, automatic or manual metal drain
- Available in four pressure ranges up to 12 bar
- Fitted with panel mounting locking ring
- Atex certification (II 2GD)
- Inlet pressures up to 20 bar





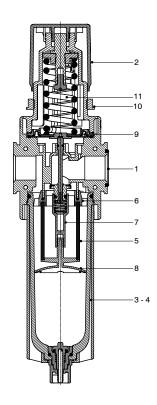
For installations where a more accurate and constant pressure is required, the unit should be installed as close as possible to the point of use. In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6mm fitting and tube.

	Technical characteristics							
S	ize	Size 2	Size 3	Size 4				
Body and connection	ons type		Aluminium body, integrated aluminium connections					
Protection and bow	d type	Metal protection - PC bowl Metal protection - PA bowl Metal bowl (blind metal bowl)						
IN / OUT connections	P and L version	G3/8" - 1/4" NPT	G1/2" - 1/2" NPT	G1" - 1" NPT				
Assembly configuration		Panel m	Stand alone Panel mounting With fixing bracket					
Assembly positions	•		Vertical ±5°					
Filter pore size		$5\mu\mathrm{m}$ 20 $\mu\mathrm{m}$ 50 $\mu\mathrm{m}$						
Pressure range		0-2 bar 0-4 bar 0-8 bar 0-12 bar						
Bowl capacity		34 cm ³	34 cm ³ 68 cm ³					
Condensation drain	1	Semi-automatic Automatic Manual metal						
Regulation		Manul push and lock with pressure Manual lockable with accessories						
Pressure measurement		G1/8" - 1/8" NPT pres	sure gauge connection port (only for versions with IN / O	UT NPT connections)				
Max. fittings torque IN / OUT connections		G3/8" metal: 25Nm	G1/2" metal: 30Nm	G1"metal: 35Nm				
Max.fitting torque pressure gauge connection port		G1/8" metal: 15Nm						

Operational characteristics							
Size	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4	
Condensation drain	Semi-automatic / Manual metal			Automatic			
Maximum working pressure	20 bar (only with body and metal bowl)			16 bar (only with body and metal bowl)			
Minimum working pressure	0,5 bar			0,5 bar			
Working temperature	-5°C +50°C (technopolymer bowl) -30°C +80°C (only for P version and metal bowl) -40°C +80°C (only for L version and metal bowl)				-5°C +50°C		

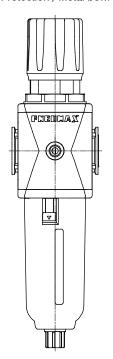
Weights						
Size	Size 2	Size 3	Size 4			
Aluminium body version, aluminium bowl protection and technopolymer bowl	510 g	730 g	1600 g			
Aluminium body version and aluminium bowl	560 g	790 g	1620 g			

Materials



	Filter regulator							
1	Body	Die-cast aluminium						
2	Adjusting knob	Polyamide						
3	Technopolymer bowl	Polycarbonate Polyamide						
4	Metal bowl Bowl protection	Die-cast aluminium Die-cast aluminium						
5	Filtering element	Polyethylene						
6	Baffle	Acetal resin						
7	Spool support	Acetal resin						
8	Filtering element support	Acetal resin						
9	Diaphragm	NBR						
10	Panel mounting locking ring	Polyamide						
11	Adjusting spring	Steel						

Size 2 - Size 3 Protection / Metal bowl

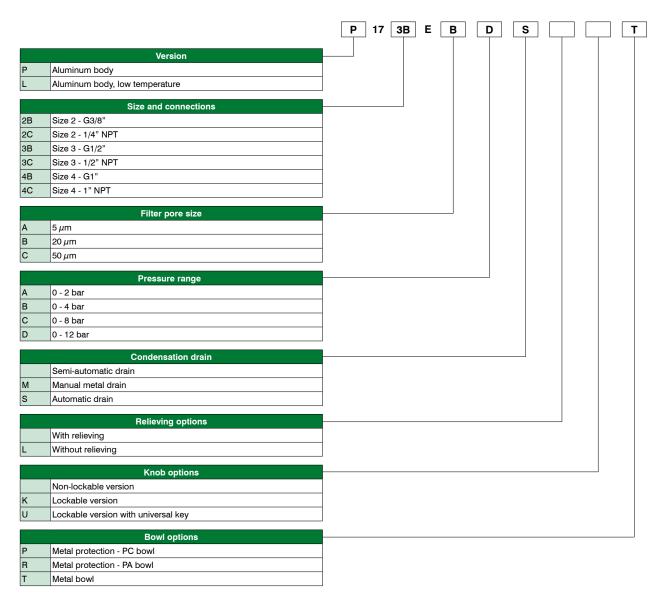


All versions FCIEDCIAX

Size 4



Order codes



Air service units

Series Airplus - aluminium

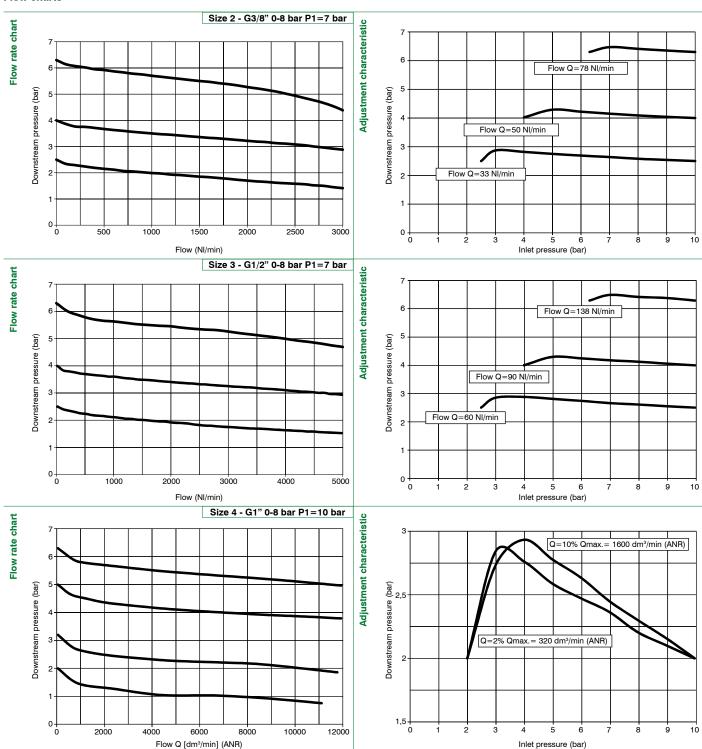
Example: P173BEBDST: Size 3 filter regulator G1/2" 20 μ m 0 - 12 bar, automatic drain and metal bowl



Catalogue

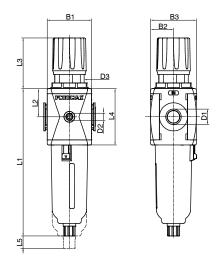
Process automation technology

Flow charts

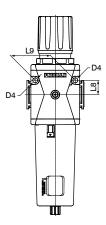


Dimensions

Semi-automatic drain version



Fixing holes dimension detail (only for size 4)

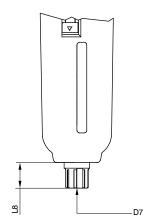


	D.	Do.	Do	D.4	Do.	Do.	D.4	L1 - Bowl	l material						L9
Model	B1	B2	В3	D1	D2	D3	D4	Technopolymer	Metal	L2	L3	L4	L5	L8	
#172	62	28,5	57	G3/8" 1/4" NPT	G1/8" 1/8" NPT	M42x1,5	1	169,5 - 164,5*	171,5 - 166,5*	34	71,8	68	50	/	/
#173	73	32,5	65	G1/2" 1/2" NPT	G1/8" 1/8" NPT	M42x1,5	1	207,5 - 202,5*	209,5 - 204,5*	40	72,8	80	65	/	/
#174	99	44	88	G1" 1" NPT	G1/8" 1/8" NPT	M54x1,5	8,5	262 - 257,5*	264,5 - 259,5*	52,5	87,5	105	103	25	70

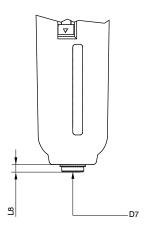
^{* =} With manual metal drain

Variable dimensions

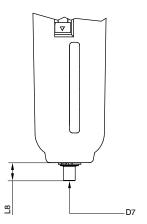








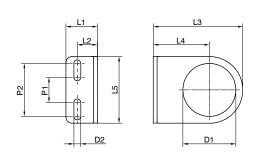
Manual metal drain version



Model	L8 - Bow	l material	D7
Wodei	Technopolymer	Metal	יט
Semi-automatic drain	16	18	Plastic hose connector
Automatic drain	2	4,5	G1/8"
Manual metal drain	11	13	○ 5









Model	L1	L2	L3	L4	L5	D1	D2	P1	P2
T17250	25	16	71	44,5	53	42	5,5	20	42

Regulators (R)







- Diaphragm pressure regulator with relieving
- Available in 3 sizes with flow rates up to 8000 NI/min and connections from 1/4" to 1"

Air service units

Series Airplus - aluminium

- Low histeresis rolling diaphragm and balanced spool
- Available in four pressure ranges up to 12 bar
- Fitted with panel mounting locking ring
- Atex certification (II 2GD)
- Inlet pressures up to 20 bar



For installations where a more accurate and constant pressure is required, the unit should be installed as close as possible to the point of use.

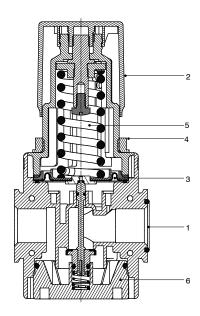
		Techni	cal characteristics							
s	ize	Size 2	Size 3	Size 4						
Body and connection	ons type		Aluminium body, integrated aluminium connections							
IN / OUT connections	P and L version	G3/8" - 1/4" NPT	G3/8" - 1/4" NPT G1/2" - 1/2" NPT							
Assembly configuration		Stand Panel m With fixin	Panel mounted							
Assembly positions			Indifferent							
Pressure range		0-2 bar 0-4 bar 0-8 bar 0-12 bar								
Regulation		Manul push and lock with pressure Manual lockable with accessories								
Pressure measurem	nent	G1/8" - 1/8" NPT pres	ssure gauge connection port (only for versions with IN / O	UT NPT connections)						
Max. fittings torque IN / OUT connections		G3/8" metal: 25Nm	G1"metal: 35Nm							
Max.fitting torque p connection port	ressure gauge	G1/8" metal: 15Nm								

	Operational characteristics									
Size	Size 2 Size 3 Size 4									
Maximum working pressure	20 bar									
Minimum working pressure	0.5 bar									
Working temperature	-30°C +80°C (only for P version) -40°C +80°C (only for L version)									

		Weights	
Size	Size 2	Size 3	Size 4
Aluminium body version	400 a	560 g	1260 a

PREUMA

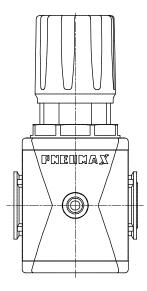
Materials



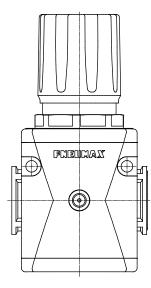
	Regulat	or			
1	Body	Polyamide Die-cast aluminium			
2	Adjusting knob	Polyamide			
3	Diaphragm	NBR			
4	Panel mounting locking ring	Polyamide			
5	Adjusting spring	Steel			
6	Rear end cap	Polyamide / Die-cast aluminium			

Design

Size 2 - Size 3

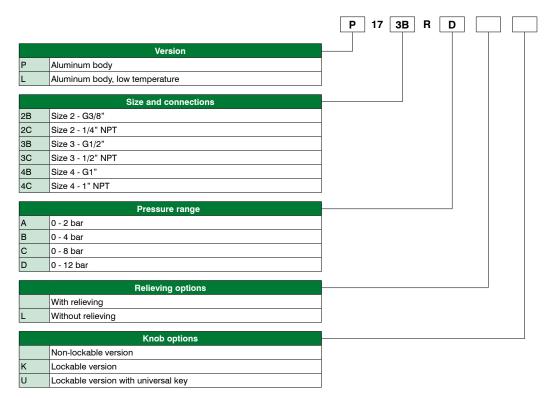


Size 4 All versions





Order codes



Air service units

Series Airplus - aluminium

Example: P173BRD: Size 3 regulator G1/2" 0 - 12 bar

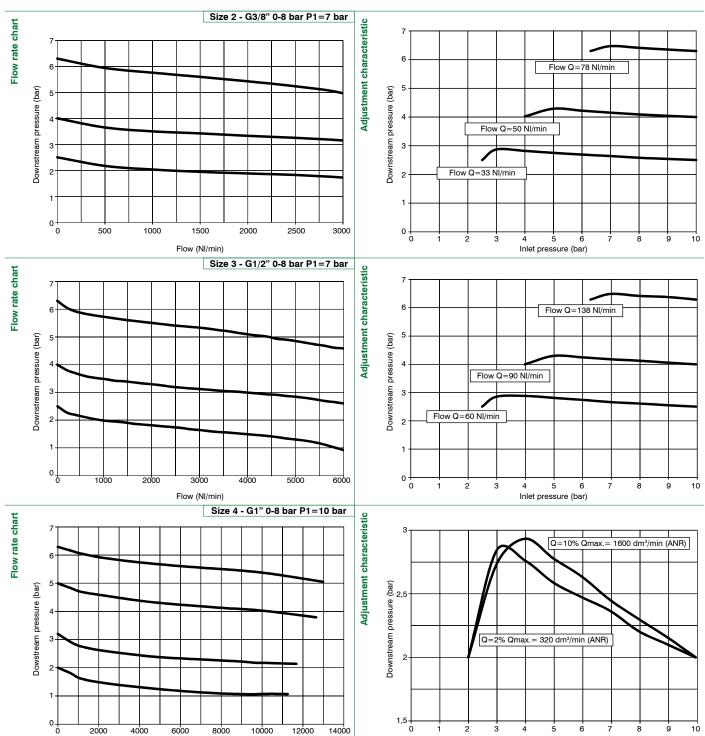


Catalogue

Process automation technology

Flow Q [dm³/min] (ANR)

Flow charts

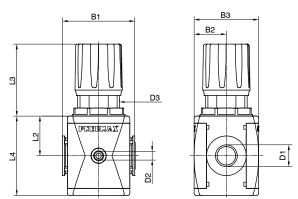


Inlet pressure (bar)

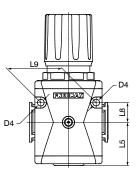


Dimensions

Pressure gauge connection port version



Fixing holes dimension detail (only for size 4)



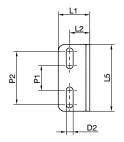
Model	B1	B2	В3	D1	D2	D3	D4	L2	L3	L4	L5	L8	L9
#172	62	28,5	57	G3/8" 1/4" NPT	G1/8" 1/8" NPT	M42x1,5	/	34	71,8	68	/	/	/
#173	73	32,5	65	G1/2" 1/2" NPT	G1/8" 1/8" NPT	M42x1,5	/	40	72,8	80	/	1	/
#174	99	44	88	G1" 1" NPT	G1/8" 1/8" NPT	M54x1,5	8,5	52,5	87,5	105	54,5	25	70

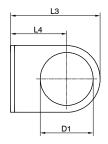
Air service units

Series Airplus - aluminium

Fixing bracket









Model	L1	L2	L3	L4	L5	D1	D2	P1	P2
T17250	25	16	71	44.5	53	42	5.5	20	42



Quick coupling flanges

Catalogue

Pneumax Airplus quick coupling flanges series allow both module rapid fixing and panel mounted configuration. Due to its design, Pneumax connection flanges allow user-friendly maintenance activities with no need of entire manifold disassembling procedure. Two types of flange are available. X type flange for assembling the modules together, and Y type flange suitable for panel mounted also. Both types are made of die-cast aluminum.

Aluminium flanges

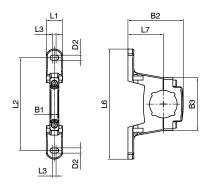
Flange Y



Process automation technology

Flange X









Model	B1	B2	В3	D2	L1	L2	L3	L4	L5	L6	L7
N172Y	0.7	64,6	55.0	Ø5,2	18	95	6,8	/	86,5	117,9	40,5
N172X	9,7	55,6	55,6	/	/	/	/	96,5	72,5	/	1
N173Y		75,5		Ø5,2	18	110	6,8	1	98,3	133	44,5
N173X	9,7	62	- 56	1	1	1	1	112,8	85	1	1
N174Y		106,5		Ø8,5	25	148	6,5	1	133,5	175	64
N174X	13,7	85	102	1	/	/	1	153,5	112	1	1



Series 1700 Steel line



Air service units Series 1700 Steel line

- · Wide working temperature range
- Available in 3 sizes with connections from 1/4" to 1"
- · ATEX certification (II 2G or II 2D), SIL, EAC
- · Clean profile versions available

General

The stainless steel SS1700 air treatment series has been engineered and developed to approach specifically the OIL & GAS industry and more widely for all the severe service applications that require excellent corrosion resistance due to chemical and/or harsh environmental condition.

All external and internal parts (except for the automatic drain version) are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156/1. The product range includes FILTER, with filtration elements up to 3 filtration degree (5 μ m-20 μ m-50 μ m), available in AISI316 stainless steel or HDPE (high density polyethylene), and manual or automatic condensed exhaust; The PRESSURE REGULATOR is supplied with low hysteresis rolling diaphragm and an over-pressure exhaust valve (RELIEVING), available in 4 different adjustment ranges from 0 to 12 bar. As a last the FILTER REGULATOR range, which combines the features of a filter and pressure regulator into a one single device. "CLEAN PROFILE" version is available for all the sizes, featuring a glossy finish on the external surface. The over-pressure exhaust hole (RELIEVING) has a 1/8" NPT threading, and it is protected by an AISI 316 sintered filter series. Note: for CLEAN PROFILE series this is a simple unthread hole.

Instructions for installation and use

Product shall be installed reducing the distance from inlet point. Check and install the device following the flow direction (clearly marked with an arrow stamped on the body). Vertical position installation with condensed exhaust tap pointing downward is recommended.

Devices must be used in compliance with pressure and temperature operating range. To set the pressure there is an adjustable knob, located on the top of the device. Pneumax recommend selection of pressure regulator adjusting range option in line with client required performance The condensed exhaust action for the manual drain version shall be performed only in the absence of pressure. To discharge liquid, turn the tap clockwise until the discharge of liquid is triggered, then tighten it all the way.

Process automation technology Catalogue

Construction and operational		Size							
characteristics	Size 2	Size 3	Size 4						
Body, bowl and adjustment mechanism		AISI 316L stainless steel							
Caseback regulator		AISI 316L stainless steel							
Adjustment screw, locking nut and fastening screws		AISI 316L stainless steel (stainless steel A4-70)							
Internal components		AISI 316L stainless steel							
Filtering elements	Al	SI 316L stainless steel or HDPE (High density polyethyler	ne)						
Springs		AISI 316L stainless steel							
Seals	NBR (standard versions and automatic drain) NBR for low temperatures (L versions) FPM - HNBR (H versions) EPDM-FDA (EF versions) Silicone - PU (Z version)								
Automatic drain	Brass, stainless steel AISI 304 and AISI 302, sintered bronze Acetal resin, NBR, FPM								

Operating range		Size					
Operating range	Size 2	Size 3	Size 4				
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous Inert gases Natural gases						
Working temperature (°C)	-30 +80 (standard version) -50 +80 (low temperature L version) -60 +80 (low temperature version -60 °C Z) -5 +150 (high temperature version) -5 +70 (automatic drain S version and reduced orifice automatic drain SR version) -40 +100 (EPDM-FDA version)						
Maximum working pressure (bar) 20 (standard, low and high temperature versions) 16 (automatic drain version) 10 (reduced orifice automatic drain version)							

Maintenance

PROCESS AUTOMATION TECHNOLOGY



Filtration elements and filter regulator are reusable through blowing and/or washing and is made of stainless steel or HDPE (high density polyethylene). To replace, remove the cup, loosen the set screw of the support and replace the filter element with a new one or refurbished one. Replace the regulator diaphragm whenever the performance is compromised or if there is a continuous discharge from the relieving hole (over-pressure exhaust). Fully discharge the adjustment spring before removing the adjustment mechanism. For other maintenance activities, due to complexity of assembly and requirement for dedicated **PNEUMAX** testing activities, it is strongly recommended to contact the manufacturer.

Certifications available







Filter





) Body, bowl and internal components in AISI 316L stainless steel

Air service units Series 1700 Steel line

- A4 (AISI 316) stainless steel fixing screws
- Manual or automatic drain
- ATEX certification (II 2G or II 2D), SIL, EAC
- Filter cartridge available in AISI 316 stainless steel or HDPE
- Clean profile versions available
- Versions with 1/8" NPT pressure gauge connection available

To be to the boundaries	Size				
Technical characteristics	Size 2	Size 3	Size 4		
Туре					
IN / OUT connections	G1/4" 1/4" NPT 3/8" NPT	G1/2" 1/2" NPT 1/4" NPT	G1" 1" NPT 3/4" NPT		
Assembly configuration	Stand alone				
Assembly position	Vertical				
Filter pore size	5 μm 20 μm 50 μm				
Max. bowl capacity (cm³)	15	78			
Condensation drain	Manual Automatic				

	Size						
Operational characteristics	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4	
	Manual condensation drain			Automatic condensation drain			
Maximum working pressure (bar)	20 (standard version)			16 (automatic drain version) 10 (reduced orifice automatic drain version)			
Minimum working pressure (bar)	/			0,5			
Working temperature (°C)	-50 -60 +8 -5 +	-30 +80 (standard version) 50 +80 (low temperature L version) +80 (low temperature version -60 °C Z) 5 +150 (lhigh temperature H version)40 +100 (EPDM-FDA version)				omatic drain SR version)	

Walahta		Size				
Weights	Size 2	Size 3	Size 4			
Standard version (g)	1088	1903	4655			
Automatic drain version / Reduced orifice automatic drain version (g)	1175	2070	4692			

Catalogue

Order codes

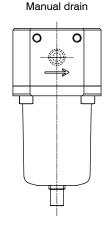


Example: SS172BFBSG

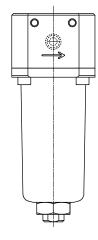
Size 2 filter, rough finishing, 3/8" NPT connection, filter pore size 20 μm - 316 stainless steel, automatic drain with pressure gauge connection port.

Design

Size 2 - Size 3 - Size 4



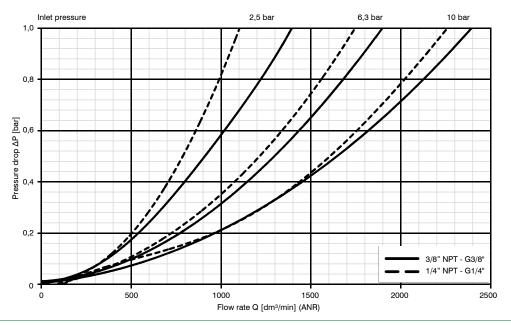
Size 2 - Size 3 - Size 4 Automatic drain





Characteristic curves



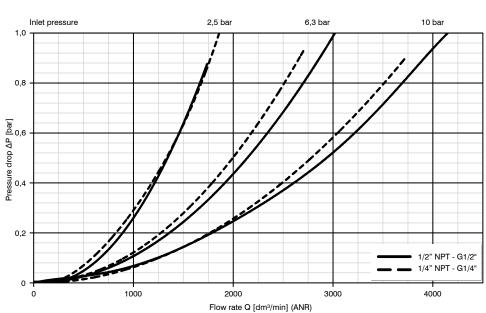


Air service units

Series 1700 Steel line

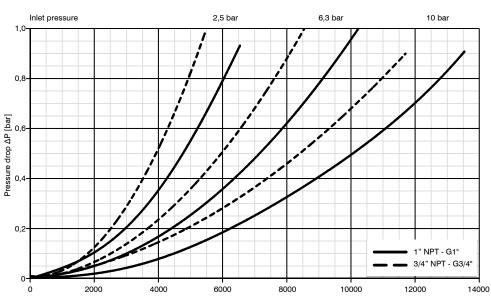
Size 2

Flow rate curves



Size 3

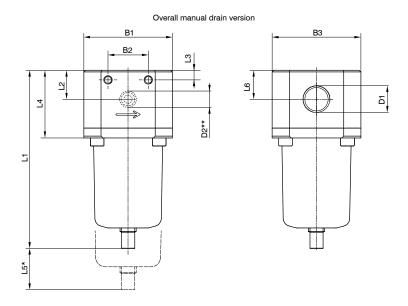
Flow rate curves



Flow rate Q [dm³/min] (ANR)

Size 4

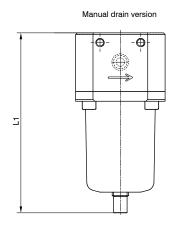
Dimensions

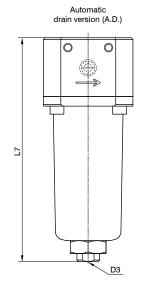


- * = BOWL REMOVAL MAXIMUM HEIGHT ** = ONLY FOR VERSION WITH PRESSURE GAUGE CONNECTION PORT

Model	B1	B2	В3	D1	D2	L1	L2	L3	L4	L5	L6
#172	55	25	55	G1/4" 1/4" NPT 3/8" NPT	1/8" NPT	111	18	6	42	45	18
#173	71	22	71	G1/2" 1/2" NPT 1/4" NPT	1/8" NPT	124	20	5,5	48	65	20
#174	92	36	92	G1" 1" NPT 3/4" NPT	1/8" NPT	198,5	32,5	10	73,5	80	32,5

Variable dimensions





Model	L1	L7	D3
#172	111	138	1/8" NPT
#172 #173	124	160	1/8" NPT
#174	198,5	207,5	1/8" NPT

Regulators









Pressure regulator diaphragm with over-pressure drain (Relieving)

Air service units

Series 1700 Steel line

-) Body, adjustment mechanism, back plate and caseback internal components in AISI 316L stainless steel
- AISI 316 stainless steel adjustment springs
- Fixing screws, adjustment screw and locking nut in inox A4 (AISI 316)
- Clean profile versions available
- Low hysteresis rolling diaphragm
-) Balanced system
- ATEX certification (II 2G or II 2D), SIL, EAC



Note

The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended.

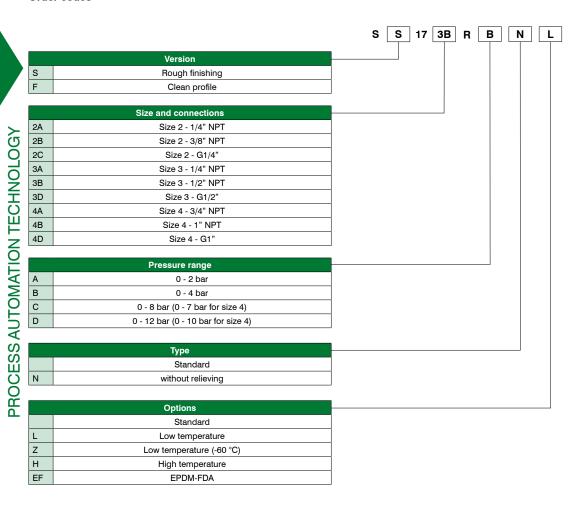
Technical characteristics	Size				
lechnical characteristics	Size 2	Size 3	Size 4		
Туре	Rough finishing Clean profile (Back plate and adjustment mechanism)				
IN / OUT connections	1/4" NPT 1/4" NPT 3/6" NPT 1/2" NPT G1/4" G1/2"		3/4" NPT 1" NPT G1"		
Assembly configuration	Stand alone				
Assembly position	Indifferent				
Pressure range (bar)	0-2 0-4 0-8 0-12				
Regulation	Manual				
Pressure measurement	1/8" NPT pressure gauge connection port				

Operational characteristics	Size					
Operational characteristics	Size 2	Size 3	Size 4			
Maximum working pressure (bar)	20					
Minimum working pressure (bar)	0,5 -30 +80 (standard version) -50 +80 (low temperature L version) -60 +80 (low temperature version -60 °C Z) -5 +150 (lhigh temperature H version) -40 +400 (EPDM-FDA version)					
Working temperature (C°)						

Weighte		Size					
Weights	Size 2	Size 3	Size 4				
	Weight (g)	1283	2270	5400			



Order codes

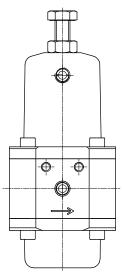


Example: SS173BRBNL

Size 3 regulator, rough finishing, 1/2" NPT connection, pressure range 0 - 4 bar, without relieving, low temperature version.

Design

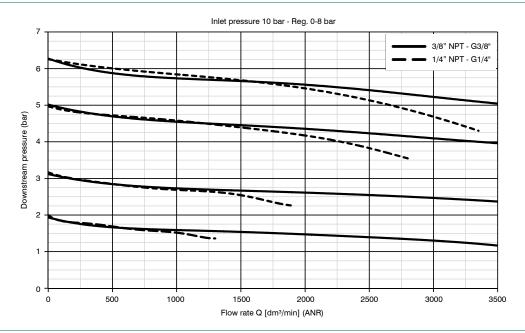
Size 2 - Size 3 - Size 4





Characteristic curves

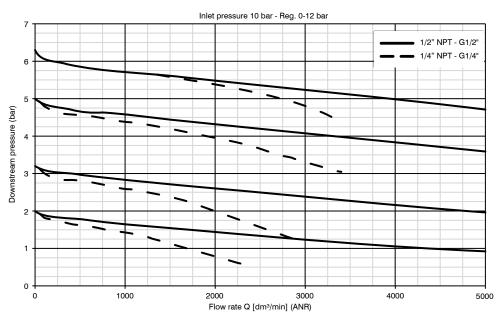




Air service units Series 1700 Steel line

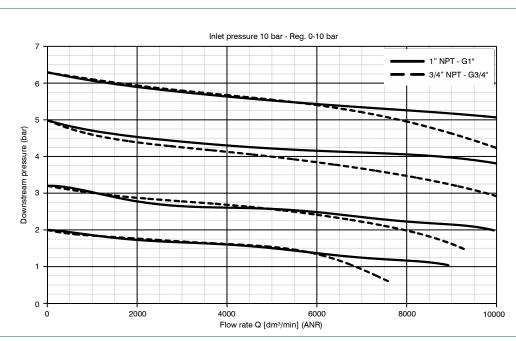
Size 2

Flow rate curves



Size 3

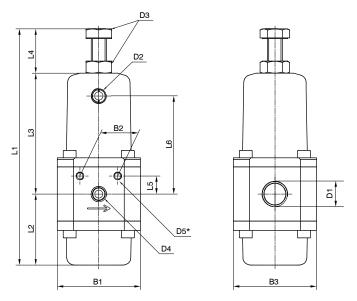
Flow rate curves



Size 4



Dimensions



*THREADED HOLES ON BOTH SIDES

Model	B1	B2	В3	D1	D2	D3	D4	D5	Lt	L2	L3	L4	L5	L6
#172	55	25	55	1/4" NPT 3/8" NPT G1/4"	1/8" NPT	Ch.17	1/8" NPT	M5 2 front holes 2 rear holes	156,5	47	80	29,5	12	65
#173	71	22	71	1/4" NPT 1/2" NPT G1/2"	1/8" NPT	Ch.17	1/8" NPT	M6 2 front holes 2 rear holes	172,5	53	91	28,5	14,5	76,5
#174	92	36	92	3/4" NPT 1" NPT G1"	1/8" NPT	Ch.19	1/8" NPT	M8 2 front holes 2 rear holes	260,5	74	147	39,5	22,5	128

Air service units Series 1700 Steel line



Filter regulators

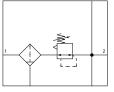


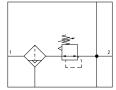






- Filter-pressure regulator diaphragm with over-pressure drain (Relieving)
-) Body, adjustment mechanism, back plate and caseback internal components in AISI 316L stainless steel
- AISI 316 stainless steel adjustment springs
- Fixing screws, adjustment screw and locking nut in inox A4 (AISI 316)
- Clean profile versions available
- Filter cartridge available in AISI 316 stainless steel or HDPE
- Low hysteresis rolling diaphragm
- Balanced system
- Manual or automatic drain
- ATEX certification (II 2G or II 2D), SIL, EAC





Note

The pressure must be always regulating while increasing. For a more precise regulation and higher sensibility, the use of a regulator with a pressure range as close as possible to the regulated pressure is recommended.

		Size						
Technical characteristics	Size 2	Size 3	Size 4					
Туре	Rough finishing Clean profile (Bowl and adjustment mechanism)							
IN / OUT connections	1/4" NPT 3/8" NPT G1/4"	1/4" NPT 1/2" NPT G1/2"	3/4" NPT 1" NPT G1"					
Assembly configuration		Stand alone						
Assembly position	Vertical							
Filter pore size		5 µm 20 µm 50 µm						
Pressure range (bar)	0	-2 -4 -8 12	0-2 0-4 0-7 0-10					
Max. bowl capacity (cm³)	34	68	90					
Condensation drain	Manual Automatic							
Regulation	Manual							
Pressure measurement	1/8" NPT pressure gauge connection port							

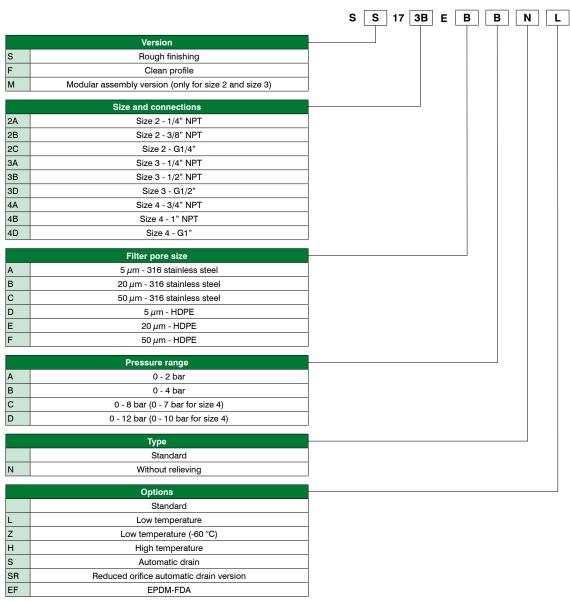
	Size											
Operational characteristics	Size 2	Size 3	Size 4	Size 2	Size 4							
	M	anual condensation dra	iin	Au	tomatic condensation d	rain						
Maximum working pressure (bar)		20 (standard version)		16 (automatic drain version) 10 (reduced orifice automatic drain version)								
Minimum working pressure (bar)		1		0,5								
Working temperature (C°)	-50 -60 +6 -5	30 +80 (standard version . +80 (low temperature L ve 30 (low temperature version -150 (lhigh temperature H vo 0 +100 (EPDM-FDA version	rsion) -60 °C Z) ersion)	-5 +70 (automatic dr	ain S version and reduced c version)	rifice automatic drain SR						

Mainh	Size						
Weight	Size 2	Size 3	Size 4				
Standard version (g)	1492	2557	6253				
Automatic drain version / Reduced orifice automatic drain version (g)	1579	2723	6290				



Catalogue

Order codes

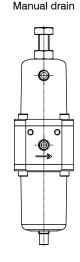


Example: SS173BEBBNL

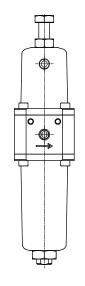
Size 3 filter regulator, rough finishing, 1/2" NPT connection, filter pore size 20 µm - 316 stainless steel, pressure range 0 - 4 bar, without relieving, low temperature version.

Design

Size 2 - Size 3 - Size 4



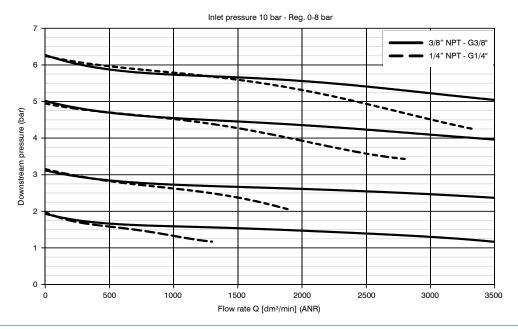
Size 2 - Size 3 - Size 4 Automatic drain





Characteristic curves

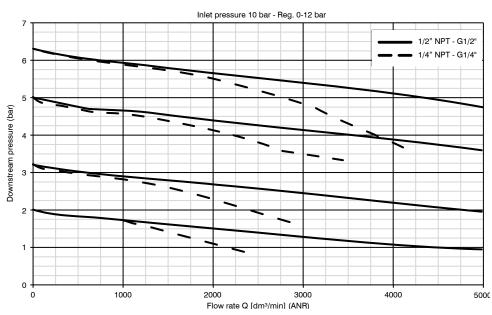




Air service units Series 1700 Steel line

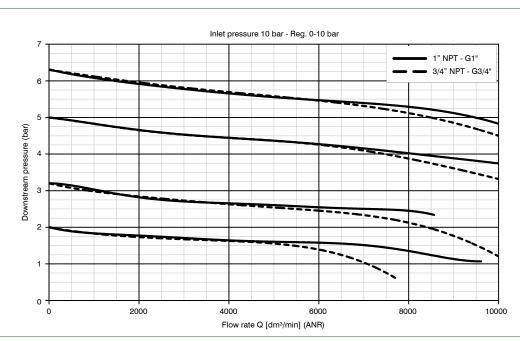
Size 2

Flow rate curves





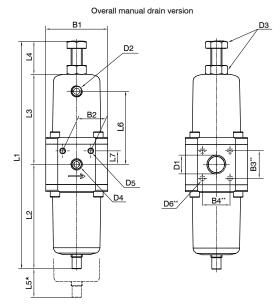
Flow rate curves



Size 4



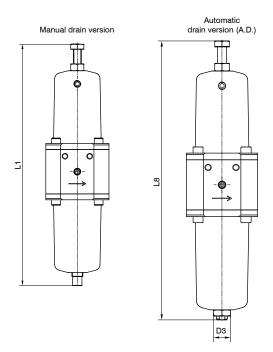
Dimensions



- * = BOWL REMOVAL MAXIMUM HEIGHT ** = ONLY FOR M VERSION

Model	B1	B2	Вз	В4	D1	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	L7
#172	55	25	25	25	1/4" NPT 3/8" NPT G1/4"	1/8" NPT	Ch.17	1/8" NPT	M5 2 front holes 2 rear holes	M4 4 holes IN side 4 holes OUT side	202,5	93	80	29,5	45	65	12
#173	71	22	31,5	31,5	1/4" NPT 1/2" NPT G1/2"	1/8" NPT	Ch.17	1/8" NPT	M6 2 front holes 2 rear holes	M5 4 holes IN side 4 holes OUT side	223,5	104	91	28,5	65	76	14,5
#174	92	36	/	/	3/4" NPT 1" NPT G1"	1/8" NPT	Ch.19	1/8" NPT	M8 2 front holes 2 rear holes	/	352,5	166	147	39,5	80	128	22,5

Variable dimensions



Model	Li	L8	D3
#172	202,5	229,5	1/8" NPT
#172 #173	223,5	259,5	1/8" NPT
#174	352,5	361	1/8" NPT

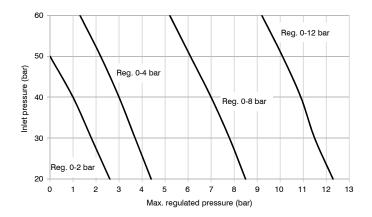


Inlet pressure notes

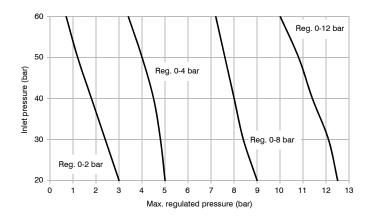
Pressure regulator Stainless steel line have been designed to withstand a 60 bar maximum inlet pressure. Maximum regulated outlet pressure is 20 bar. For performance details please refer to diagram alongside.

Air service units

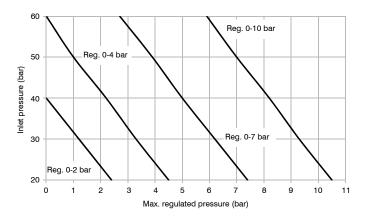
Series 1700 Steel line



Size 2



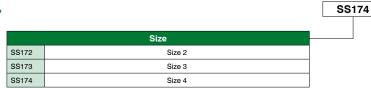
Size 3



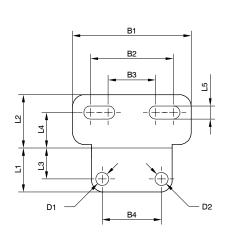
Size 4

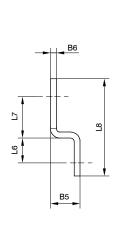
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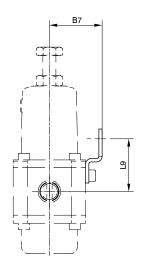
Fixing bracket









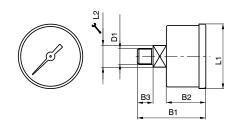


Model	B1	B2	В3	B4	B5	В6	В7	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	L9
SS17250	50	35	20	25	12,5	2,5	40	Ø5,5	Ø5,5	18,5	22,5	13	15	5,5	10,5	17,5	41	40
SS17350	60	45	20	22	14,5	3	50	Ø6,5	Ø6,5	14	24,5	/	16,5	6,5	11	19,5	44,5	45
SS17450	80	60	40	36	16	4	62	Ø8,5	Ø8,5	24	31	/	/	8,5	11	25	55	58,5

Pressure gauge

Scale
A 0 - 4 bar
B 0 - 12 bar





Model	B1	B2	B3	D1	L1	L2
SS17070AA SS17070AB	40	25	10	1/8" NPT	42,5	11



Tamper-proof kit

SS174

SS172 Size 2 - Size 3

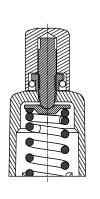
Size 4

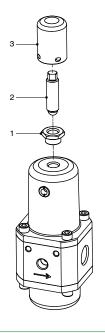


Air service units

Series 1700 Steel line

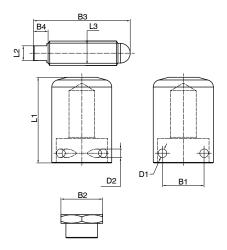






To use, replace the standard adjustment screw and nut with the screw and nut supplied in the kit. Assemble the screw and nut as shown (see adjacent drawing), adjust until the desired P_2 value is reached, lock the nut and insert the cap that can be locked with wire or padlock.

	Tamper-proof kit								
1	Adjustment screw								
2	Locking nut								
3	Tamper-proof cap								



Model	B1	B2	В3	B4	D1	D2	L1	L2	L3
SS17255	17	Ch.17	39,5	6	Ø3,5	Ø3,5	35	Ch. 6	M10x1,5
SS17455	19	Ch. 20	56,5	6,5	Ø3,5	Ø3,5	45	Ch. 7	M12x1,75

Series Flowplus



General

The **Pneumax** Flowplus range of high-capacity volume boosters are available in both Aluminium or Stainless Steel with the option of a standard version or a version with a built in filter (stainless steel). The Flowplus range has been designed to meet the needs of those more demanding applications within the Oil & Gas industry, applications which require high performance in tough environment conditions. With a high flow exhaust ratio, the **Pneumax** Flowplus volume boosters offer high performance and reliability for process and industrial automation applications.

Both stainless steel and aluminum versions are corrosion and wear resistant, due to the same stainless steel trim type selection, with a wide range of sealing materials for extended operating temperature applications (to extreme low temperature up to high temperature application).

The **Pneumax** booster operates with a 1:1 signal to output relay, capable to provide fast response, delivering high air volume for fast actuator movement and increased stroking speed for both control and on/off valves actuators.

As a standard, an adjustable integrated by-pass valve device is available, to reduce or avoid (thru fully closed position in case of on-off application) excessive actuator overshoot or over-damping.

In addition, in order to precisely adjust actuator travel speed, the **Pneumax** booster can be supplied with integral flow regulators, controlling the air supply, exhaust or both. The stainless steel version is also available with a built in filter (5, 20 & 50 μ m) with either HDPE or stainless steel filter element. These filter elements can be regenerated by cleaning with a suitable detergent.

Operating principle

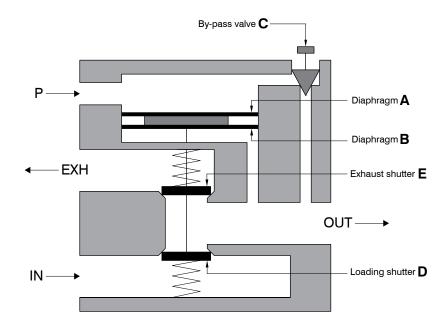
The device is pneumatic operated thru inlet port. When a pressure signal from 2 to 8 bar is applied to the pilot port **P**, the main valve assembly opens the loading shutter **D** to allow the passage of a high volumetric flow from the inlet port to the outlet port. When the system detects that the outlet pressure is equal to the pilot signal pressure, and consequently the forces acting on the membranes **A** and **B** are equivalent, the main valve moves to the de-energized position, i.e. with the shutters **D** and **E** closed.

This condition is maintained until there is a change in signal pressure or a change in outlet pressure value. If the outlet pressure figure is higher than the pilot signal pressure, the main valve group opens the shutter of drain **E** to exhaust. If the system detects an outlet pressure lower than the pilot signal, the main valve opens to restore the outlet at correct pressure.

The signal input and output ports are connected by an integrated and adjustable by-pass valve C.

The adjustment, in addition to control the sensitivity of the system to changes in the pilot signal, ensures the exact equalization between the input signal and the supply occurs output.

This allows that low volume signal provide a output high volume with a signal to output pressure ratio of 1:1.



PREUMA

Volume booster









) Available in 2 sizes with connections from 1/4" NPT to 1" NPT

Volume booster

Series Flowplus

- Available in aluminium with epoxy coating paint or in stainless steel AISI 316L
-) Stainless steel AISI 316L versions according to NACE MR0175 ISO15156/1
-) Compact and linear design
- Robust and reliable construction
- Double hysteresis rolling membrane system
- High stability and repeatability
- High flow rate performances
-) Wide temperature range application
-) 1:1 ratio between pilot pressure and outlet pressure
- Integrated by-pass valve for reliable adjustment of the system sensitivity
-) Uni and bi-directional flow regulators available
- Atex certification II 2GD, SIL3 and CU-TR 012









Technical characteristics	Si	ze				
recriffical characteristics	Size 3	Size 4				
Туре	Aluminium with e _l Stainless ste					
IN / OUT / EXH connections	1/4" NPT - 1/2" NPT 3/4" NPT - 1" NPT					
Pilot connection	1/4" NPT					

Out and the second selection	Size				
Operational characteristics	Size 3	Size 4			
Fluid	Dry and clean air Inert gas Natural gas				
Maximum working pressure	13 bar				
Minimum working pressure	2 bar				
Maximum signal pressure	8 bar				
Minimum signal pressure	2 bar				
Working temperature and seals	-30°C +80°C - NBR seals (Standard version) -50°C +80°C - NBR LT seals (L version) -60°C +80°C - PUR - SILICONE seals (Z version) -5°C +150°C - FPM - HNBR seals (H version) -40°C +100°C - EPDM-FDA seals (EF version)				
Signal pressure / outlet pressure ratio	1:1 ± 5%				
Assembly configuration	Stand alone With fixing bracket				
Assembly positions	Indifferent				

		Size											
Flow capacity Cv table	Siz	e 3	Size 4										
	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT									
Output	2,5	4,2	7	9,4									
Exhaust	2,5	4,2	7	9,4									

	Size										
Weights	Siz	ze 3	Size 4								
	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT							
Aluminium version without flow regulators	2040 g	2010 g	4470 g	4380 g							
Aluminium version with uni-directional flow control regulator	2098 g	2070 g	4478 g	4394 g							
Aluminium version with bi-directional flow control regulators	2122 g	2094 g	4515 g	4433 g							
Stainless steel AISI 316L version without flow regulators	5460 g	5344 g	11532 g	11308 g							
Stainless steel AISI 316L with uni-directional flow control regulator	5476 g	5360 g	11560 g	11336 g							
Stainless steel AISI 316L with bi-directional flow control regulators	5491 g	5375 g	11574 g	11350 g							

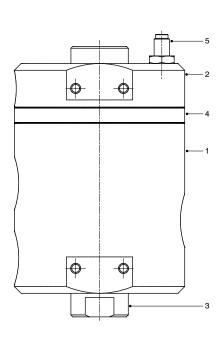
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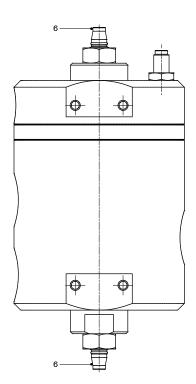
Catalogue

Materials

The Pneumax volume booster is manufactured in two versions, one being aluminium, which is epoxy coated and the other being AISI 316L stainless steel. Both are highly restistant to corrosion and wear. The integral components which come into contact with the media are manufactured in 316L stainless steel.



Process automation technology



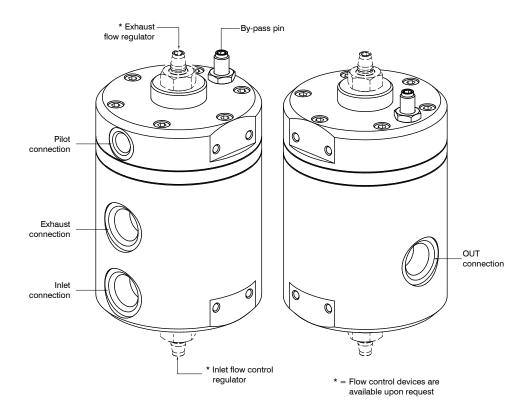
	Volume bo	oster
1	Body	Aluminium with epoxy coating paint Stainless steel AISI 316L
2	Piloting operator	Aluminium with epoxy coating paint Stainless steel AISI 316L
3	Rear end cap	Aluminium with epoxy coating paint Stainless steel AISI 316L
4	Intermediate body	Aluminium with epoxy coating paint Stainless steel AISI 316L
5	By-pass valve	Stainless steel AISI 316L
6	Adjusting pins	Stainless steel AISI 316L
7	Springs	Stainless steel AISI 316
8	Fixing screws and nuts	Stainless steel A4-70
9	Diaphragm and seals	NBR NBR-LT HNBR FPM SILICONE

Design

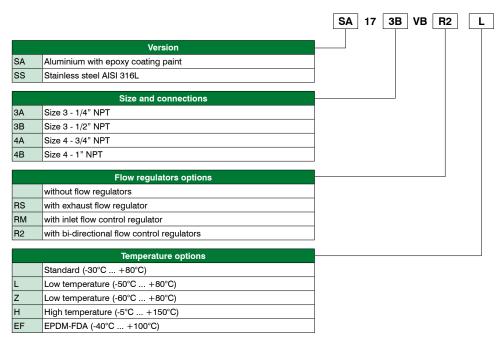
The Pneumax volume booster is fitted with a by-pass valve as standard and can be supplied with or without a flow regulator. The flow regulator can be either Uni-directional or Bi-directional.

Volume booster

Series Flowplus

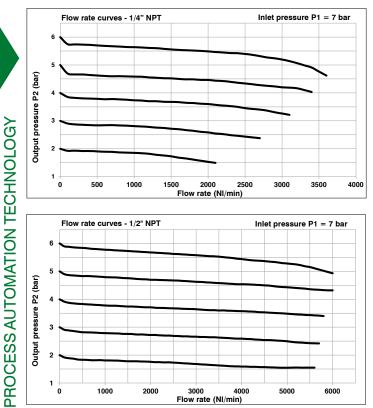


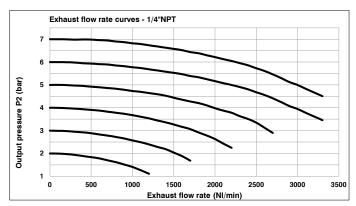
Order codes

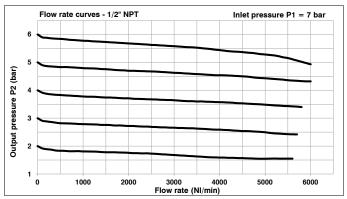


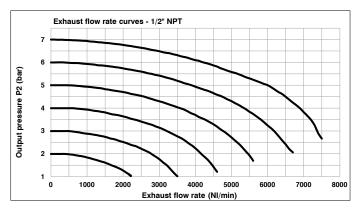
Example: SA173BVBR2L: Size 3 Volume booster, 1/2"NPT ports, Bi-directional flow control regulator, suitable for low temperature.

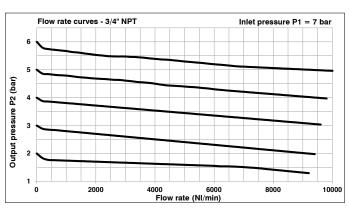
Characteristic curves (without flow regulators)

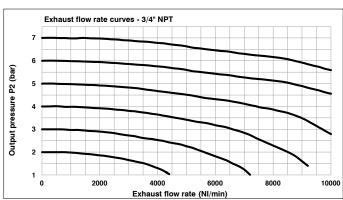


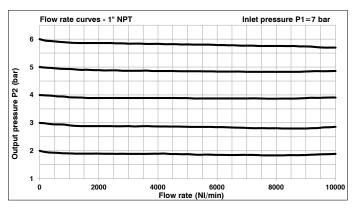


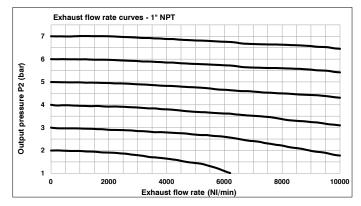




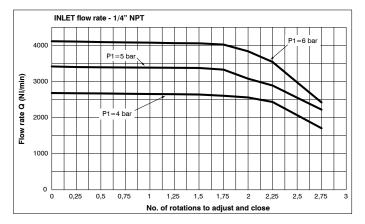


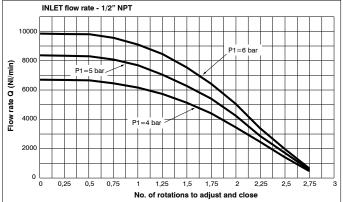


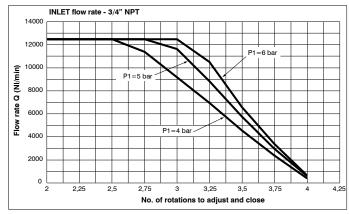


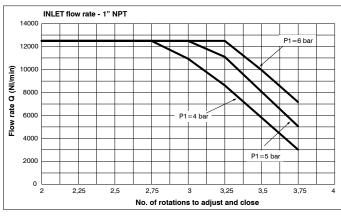


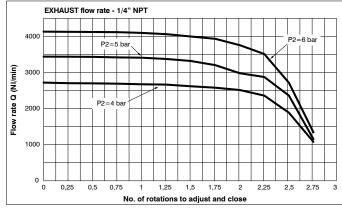
Characteristic curves (with flow regulators)

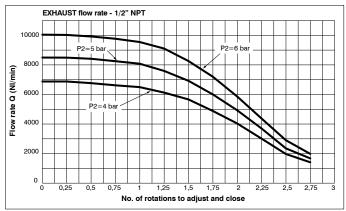


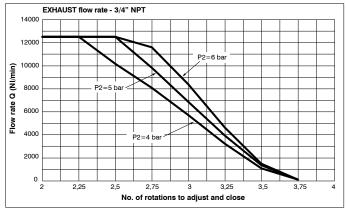


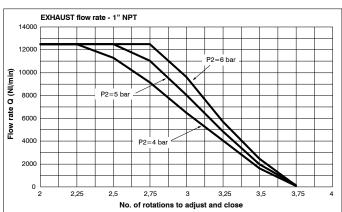






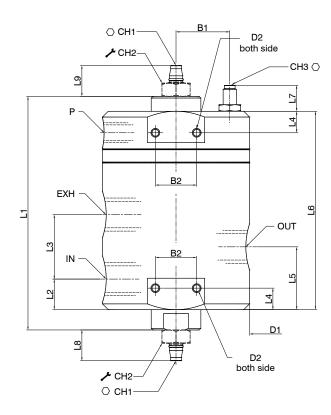






Process automation technology

Dimensions



Model	B1	B2	D1	D2 (both side)	Lı	L2	L3	L4	L5	L6	L7	L8	L9	IN - OUT - EXH	Р	CH1 O	CH2	СН3 О
SA173	32,5											,	,					
SS173	33,5	25	89	M5	141,5	18.5	39	13	38	120	15,5	/	_ ′	1/4" NPT			17	
SA173R#	32,5	25	89	CIVI	141,5	18,5	39	13	38	120	15,5	19	9 19	1/2" NPT			'′	
SS173R#	33,5											19	19		1/4" NPT	4		
SA174	41											,	,		1/4 INF1	4		4
SS174	43	22	109	M6	205	07.5	60.5	14	59.5	175	15.5	_ ′	_ ′	3/4" NPT			10	
SA174R#	41	22	109	IVIO	205	27,5	63,5	14	59,5	1/5	15,5	24,5	26,5	1" NPT			19	
SS174R#	43]										24,5	20,5					

Volume filter booster







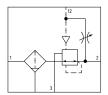


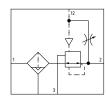
Available in 2 sizes with connections from 1/4" NPT to 1" NPT

Volume booster

Series Flowplus

- Available in stainless steel AISI 316
- In compliance with NACE standard MR0175 ISO15156/1
- Compact and linear design
- Robust and reliable construction
- Double hysteresis rolling membrane system
- High stability and repeatability
- High flow rate performances
- Wide temperature range application
- 1:1 ratio between pilot pressure and outlet pressure
- Integrated by-pass valve for reliable adjustment of the system sensitivity
-) 5 20 50 μm filter cartridge available in AISI 316 stainless steel or HDPE
- Manual or automatic drain
- Atex certification II 2GD, SIL3 and CU-TR 012





Technical characteristics	Si	ze						
lechnical characteristics	Size 3	Size 4						
Туре	Stainless ste	eel AISI 316L						
IN / OUT / EXH connections	1/4" NPT - 1/2" NPT	3/4" NPT - 1" NPT						
Pilot connection	1/4" NPT							

Pilot connection	1/4" N	NPI								
On a waking all allows allowing tion	Siz	ze								
Operational characteristics	Size 3	Size 4								
Fluid	Compres Inert g: Natural :	ases								
Maximum working pressure	13 b	par								
Minimum working pressure	2 ba	ar								
Maximum pressure range	8 ba	ar								
Minimum pressure range	2 ba	ar								
Operating temperature and seals	-30°C +80°C - Seals N -50°C +80°C - Seals -60°C +80°C - Seals PU -5°C +150°C - Seals FI -5°C +70°C Automa -40°C +100°C - EPDM-	s NBR LT (L Version) R - SILICONE (Z Version) PM - HNBR (H Version) titc drain (S Version)								
Signal pressure / outlet pressure ratio	1:1 ±	5%								
Assembly configuration	Stand a With fixing									
Assembly positions	Vertical	I ± 5°								
Filter pore size	20 µm Stainless steel AISI 316 or H	5 µm Stainless steel AISI 316 or HDPE (High density polyethylene) 20 µm Stainless steel AISI 316 or HDPE (High density polyethylene) 50 µm Stainless steel AISI 316 or HDPE (High density polyethylene)								
Max. bowl capacity	25 cm ³	78 cm ³								
Condensation drain	Manu Autom									

		Size										
Flow capacity Cv table	Filter pore size	Siz	ze 3	Size 4								
		1/4" NPT	1/2" NPT	3/4" NPT	1" NPT							
	5 μm	2,12	3,6	5,9	8							
Output	20 μm	2,18	3,75	6,15	8,3							
	50 μm	2,25	3,83	6,3	8,5							
	5 μm											
Exhaust	20 μm	2,5	4,2	7	9,4							
	50 μm											

		Si	ze				
Weights	Siz	e 3	Size 4				
	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT			
AISI 316L stainless steel version without flow regulators	6460 g	6344 g	12532 g	12308 g			

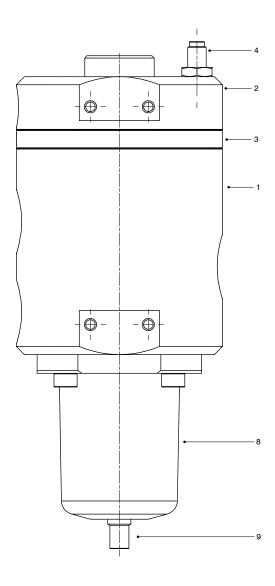


Catalogue

Process automation technology

Materials

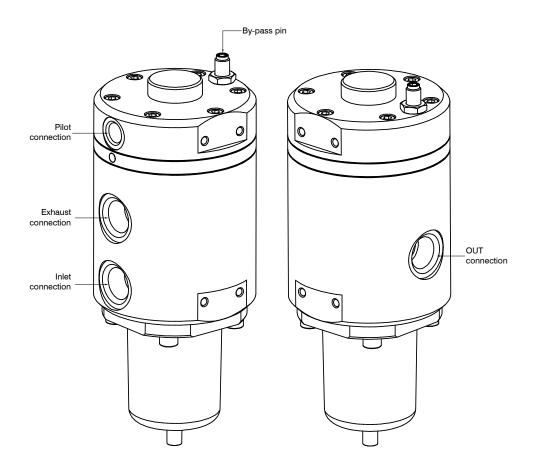
The Volume filter booster is only available in 316L stainless steel. The integral components which come into contact with the media are manufactured in 316L stainless steel. The filter elements are available in both HDPE and 316 stainless steel.



	Volume filter	booster				
1	Body	Stainless steel AISI 316L				
2	Piloting operator	Stainless steel AISI 316L				
3	Intermediate body	Stainless steel AISI 316L				
4	By-pass valve	Stainless steel AISI 316L				
5	Springs	Stainless steel AISI 316				
6	Fixing screws and nuts	Stainless steel A4-70				
7	Diaphragm and seals	NBR NBR-LT HNBR FPM SILICONE				
8	Bowl	Stainless steel AISI 316L				
	Manual drain	Stainless steel AISI 316L				
9	Automatic drain	POM NBR Brass Stainless steel AISI 316L				

Design

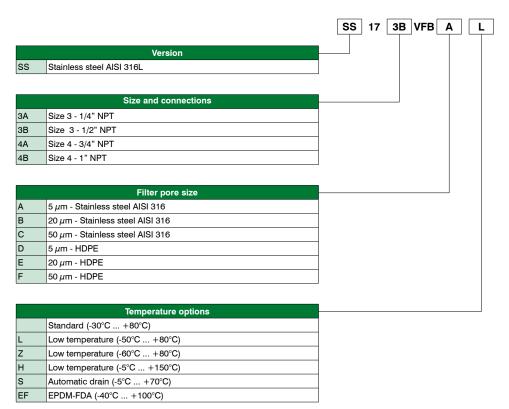
The Volume filter booster is fitted with the by-pass valve as standard. Flow regulators are not available.



Volume booster

Series Flowplus

Order codes

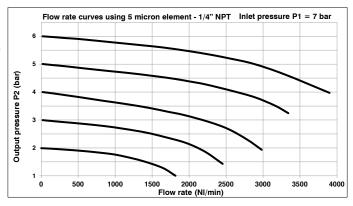


Example: SS173BVFBAL: Size 3 Volume filter booster, 1/2"NPT, 5 μ m element, low temperature and manual drain.

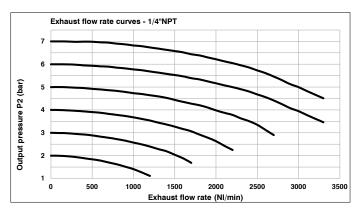


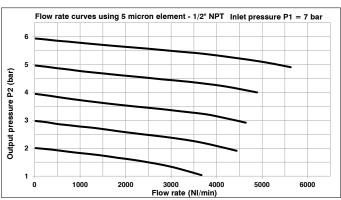
Characteristic curves (without flow regulators)

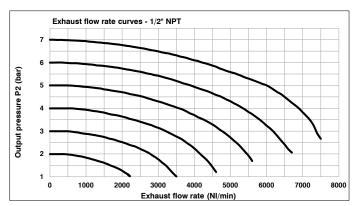
Catalogue

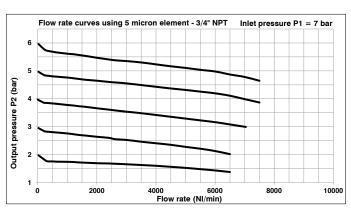


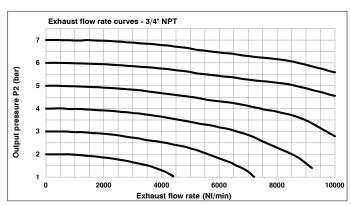
Process automation technology

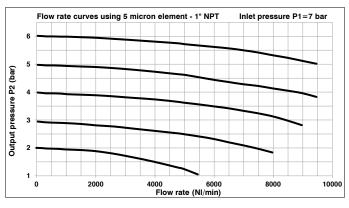


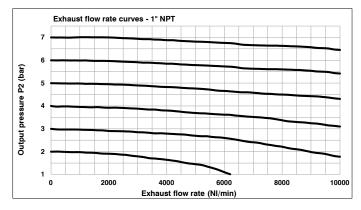






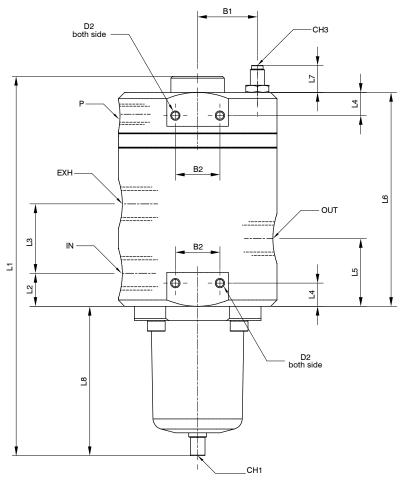








Dimensions

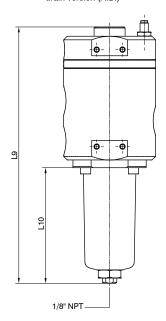


Volume booster

Series Flowplus

Model	B1	B2	D1	D2 (both side)	Lí	L2	L3	L4	L5	L6	L7	L8	IN - OUT - EXH	Р	CH1	СНЗ
SS173	33,5	25	89	M5	213	18,5	39	13	38	120	15,5	84	1/4" NPT 1/2" NPT	4/4" NIDT	5	4
SS174	43	22	109	M6	323,5	27,5	63,5	14	59,5	175	15,5	133,5	3/4" NPT 1" NPT	1/4" NPT	8	4

Automatic drain version (A.D.)



Model	L9	L10
SS173	248,5	119,5
SS174	332,5	142,5

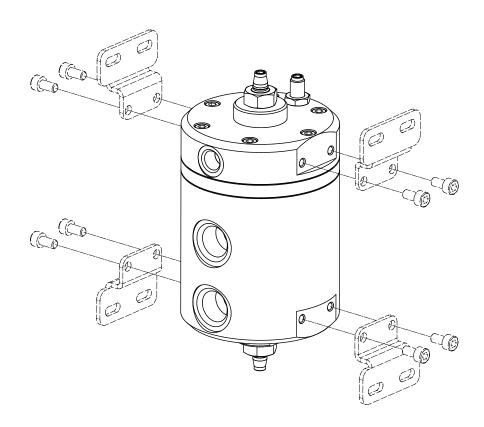


Accessories and fixing

Catalogue

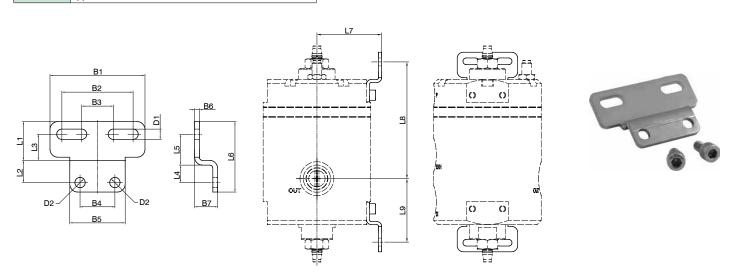
Special fixing brackets made of AISI 316L stainless steel are provided upon request. Fixing position for every need is confirmed by using one or two brackets.

Process automation technology





SS17250 applicable to model SS173... and SA173...
SS17350 applicable to model SS174... and SA174...



SS17250

Model	L1	L2	L3	L4	L5	L6	L7	L8	L9	B1	B2	В3	B4	B5	В6	В7	D1	D2	Weight (g)
SS17250	22,5	13	15	10,5	17,5	41	53,5	96,5	52,5	50	35	20	25	34	2,5	12,5	5,5	5,5	39
SS17350	24,5	14	16,5	11	19,5	44,5	65,5	132	76	60	45	20	22	35	3	14,5	6,5	6,5	57



Valves 1/4" NPT series Steel line

PNEUMAX has wide experience and know-how to develop application-oriented solutions for the process industry, as well as a range of highperformance products aimed to improve the effciency, productivity and quality of the process itself. Each item passed thru internal long-ride severe test procedure and after validated through years of experience. All certifications and relevant approvals are available.

Valves, 1/4" NPT

Series Steel line

Thanks to a global presence worldwide **PNEUMAX** can provide prompt assistance to any customer's specific needs. Our complete product range includes large number of products for day-by-day business. At Pneumax the focus is always on customer satisfaction.

General

Stainless steel brand series have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

Applications for actuation:

- ESDV (emergency shut-down valve)
- HIPPS (high-integrity pressure protection system)
- High pressure turbine control
- Water service application
- Control for gas/fluid
- On-Off valve and control valve

Applications:

- Severe service operations
- Low and high temperature application
- Fire control system
- Hazardous area
- Offshore
- Refineries

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

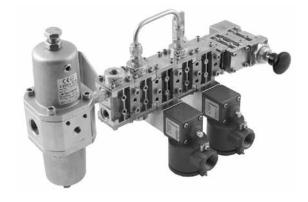
The range includes 3 and 5 way function valves, with the following functions available: pneumatic-spring valve, pneumatic-pneumatic valve, 2 position push-pull valve, push button-spring valve, push button-pneumatic return valve, tappet-spring valve, roller lever-spring valve, pneumatic valve with self-locking manual reset, pneumatic valve with self-locking manual reset inverted, key-spring valve.

Accessories which include: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

Blocks dividers or shunts.

Modularity

1/4" size connection components minimum flow rate from 1000NI/min. Thanks to customized body design configuration, Pneumax can provide pneumatic manifold solution, with compact design and easy installation operation.



Example: Module with redundants solenoids valves

Construction characteristics

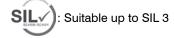
Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	FPM (Fluoroelastomer)
	NBR for low temperatures (-50°C) standard

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature (for low temperature version L)	-50°C +70°C
Operating temperature (for high temperature version H)	-10°C +150°C
Maximum operating pressure	12 bar

Certifications available:







Pneumatic-spring valve



Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

Ø5.2 0 Exhaust 3 Piloting 12 1/8" NPT



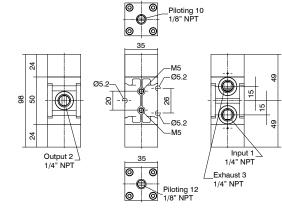
	Ordering code
	SS1432C1101 ⊕
Ī	TYPE
	L= Low temperature version
	H= High temperature version
	EX SILV
	EHL Ex

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	500	1,02	15,15

Pneumatic-pneumatic valve



Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).





	2	
 Î,	T 3	

		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	660	1,02	15,15

2 position push-pull valve



Operating force 55N.

Ø34		Es. 30 M24x1.5
(S) (O)	35 M5	28
90 131	05.2	ğ <u> </u>
Output 2	35 M5	Input 1 1/4" NPT Exhaust 3
2		1/4" NPT

	Ordering code
	SS1432C0802
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX EH[Ex

Fluid:			
Filtered	d air.	No	lubrica

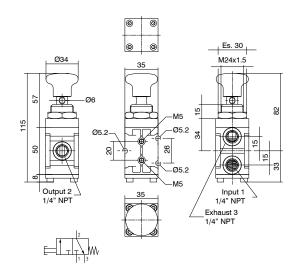
Filtered air. No lubrication needed, if applied it shall be continuous.
nert Gas.
Sweet gas (natural)

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	620	1,02	15,15

Push button-spring valve



Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



	Ordering code
	Ordering code
	SS1432C0801
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX EX

Operating force at 2 bar= 55N Operating force at 12 bar= 105N

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	12 1000		470	1,02	15,15

Push button-pneumatic return valve



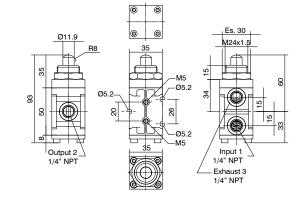
Minimum piloting pressure 2,5 bar Fluid: Flued air. No lubrication needed, if applied it shall be continuous. Inert Gas.
Sweet gas (natural).

	Ordering code						
	SS1432C0811 ⊕						
	TYPE						
O	L= Low temperature version						
	H= High temperature version						
	EX EAL Ex						

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	600	1,02	15,15

Tappet-spring valve





	Ordering code				
	SS1432C0001				
Ì	TYPE				
١	L= Low temperature version				
l	_	H= High temperature version			
		EX SILV			

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



Operating force at 2 bar= 55N Operating force at 12 bar= 105N

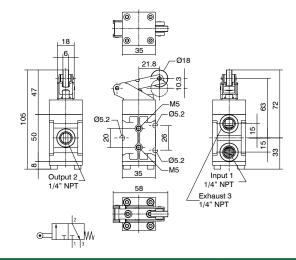
Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) 12 1000		Connections	Weight (g)	Cv	kv	
		1/4" NPT	450	1,02	15,15	



Roller lever-spring valve



Filtered air. No lubrication needed, if applied it shall be continuous.



	Ordering code				
	SS1432C0401 ⊕				
	TYPE				
O	L= Low temperature version				
Ĺ	H= High temperature version				
	EX SILY EN[Ex				

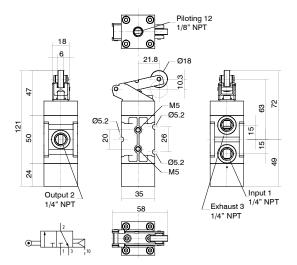
Operating force at 2 bar= 55N Operating force at 12 bar= 105N

Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with $\Delta p=1$ (NI/min) Connections Weight (g) Cv kv						
12	1000	1/4" NPT	480	1,02	15,15	

Roller lever-pneumatic valve



Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



Ordering code SS1432C04111 TYPE O L= Low temperature version H= High temperature version

Minimum piloting pressure 2,5 bar

Ordering code SS1432C11140

H= High temperature version

TYPE

Operational characteristics						
	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
	12 1000		1/4" NPT	480	1,02	15,15

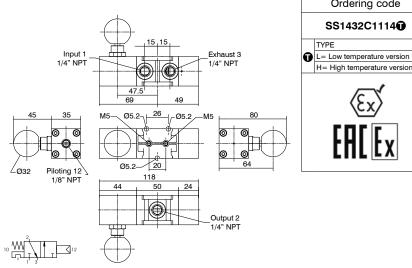
Pneumatic valve with self-locking manual reset



Minimum piloting pressure 2,5 bar

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

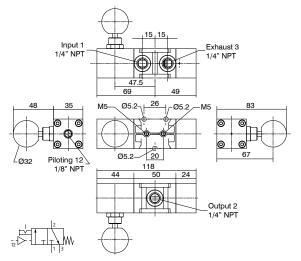
Sweet gas (natural).

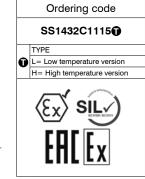


omoor gao (natara).	3 (
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1/8" NPT	860	1,02	15,15	



Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



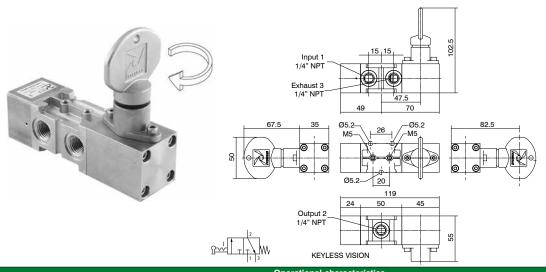


Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	860	1,02	15,15

Valves 3/2, 1/4" NPT

Series Steel line

Key-spring valve stable



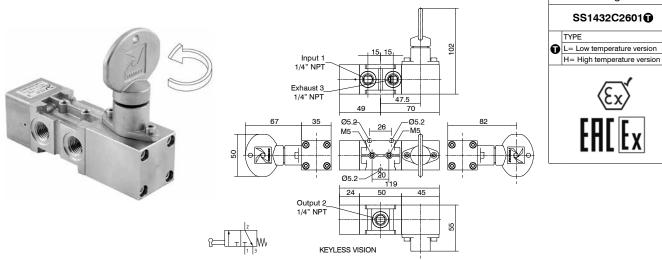
	Ordering code					
	SS1432C1601					
	TYPE					
Ū	L= Low temperature version					
	H= High temperature version					
	EX EAL Ex					

Ordering code SS1432C26011

TYPE

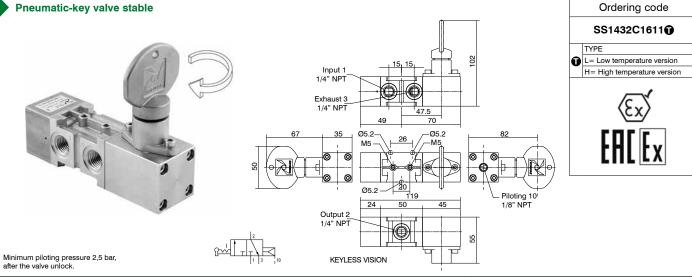
Operational characteristics						
	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
	12 1000		1/4" NPT	1020	1,02	15,15

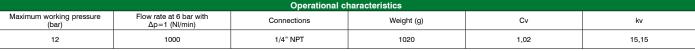
Key-spring valve instable

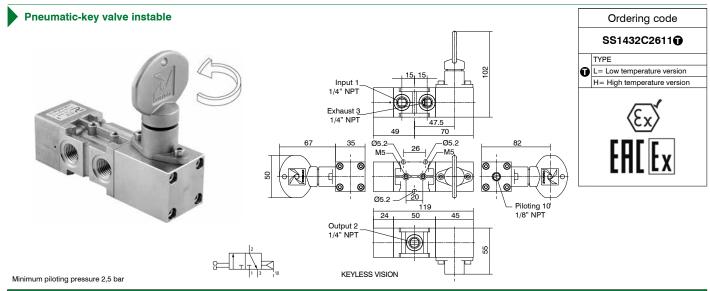


	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1020	1,02	15,15	









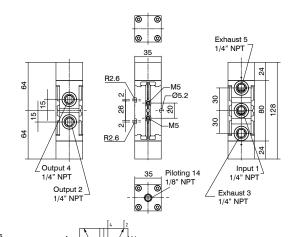
	Operational characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1020	1,02	15,15



Pneumatic-spring valve

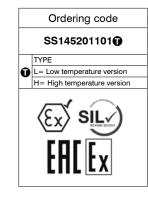


Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



Valves 5/2 - 5/3, 1/4" NPT

Series Steel line



	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	820	1,02	15,15

Pneumatic-pneumatic valve



Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed,

Piloting 12 1/8" NPT Exhaust 5 1/4" NPT R2.6 8 Ş 88 28 Output 4
1/4" NPT Input 1 1/4" NPT Piloting 14 1/8" NPT Output 2 1/4" NPT Exhaust 3 1/4" NPT

	Oudering
	Ordering code
	SS145201111
	TYPE
O	L= Low temperature version
	H= High temperature version
	EX SILV

ert Gas.	14 T 12 T 12
veet gas (natural).	(2.1, 12

	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	820	1,02	15,15

Pneumatic-pneumatic closed centers valve



Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

	Piloting 12	
	⊚ ⊚ 35 ,	Exhaust 5 √1/4" NPT
51	2.6 M5 P5.2 P8	
Output 4 1/4" NPT Output 2 1/4" NPT	35 Piloting 14 1/8" NPT	Input 1 1/4" NPT Exhaust 3 1/4" NPT

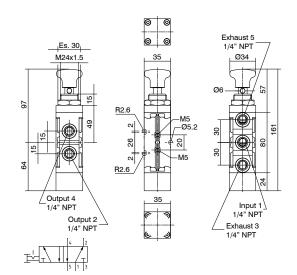
		Ordering code
		SS145311111 ①
ľ		TYPE
١	O	L= Low temperature version
	_	H= High temperature version
		ENC Ex

0 (,						
		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	931	1,02	15,15

2 position push-pull valve



Operating force 55N.
Fluid:
Filtered air. No lubrication needed, if applied it shall be continuous.
Inert Gas.
Sweet gas (natural).



SS145200802 TYPE L= Low temperature version H= High temperature version		Ordering code
L= Low temperature version H= High temperature version		SS145200802 ①
H= High temperature version		TYPE
€x ∕	0	L= Low temperature version
EX EHL Ex		H= High temperature version
		ENCEX

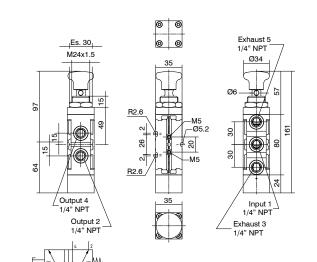
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	770	1,02	15,15

Push button-spring valve



Operating force 90N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).



	Ordering code
	SS145200801
	TYPE
O	L= Low temperature version
ľ	H= High temperature version
	EH[Ex

Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g)					kv	
12	1000	1/4" NPT	780	1,02	15,15	

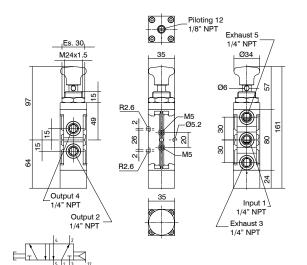
Push button-pneumatic return valve



Minimum piloting pressure 2,5 bar

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).



Ordering code						
SS145200811	SS145200811					
TYPE						
L= Low temperature version						
H= High temperature version						
EAL Ex						

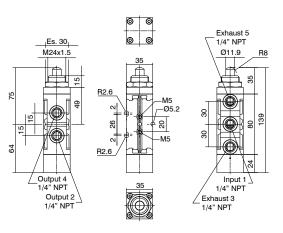
	Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1/8" NPT	780	1,02	15,15	

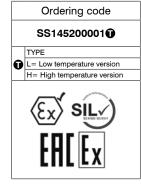
Valves 5/2, 1/4" NPT Series Steel line

Tappet-spring valve



Operating force 90N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).







	Operational characteristics						
Maximum working pressure (bar)					kv		
12	1000	1/4" NPT	770	1,02	15,15		

Roller lever-spring valve



Operating force 90N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

Exhaust 5 1/4" NPT Output 4 1/4" NPT 8 R2.6 Output 2 1/4" NPT Input 1 1/4" NPT Exhaust 3 1/4" NPT

	Ordering code
	SS145200401
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX SILY

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	800	1,02	15,15	

Roller lever-pneumatic valve

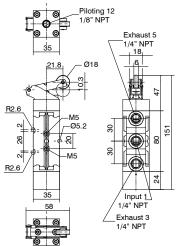


Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

Output 4	
78 78	<u>R</u>
15	
69	R
Output 2 \\ 1/4" NPT	
● T	12



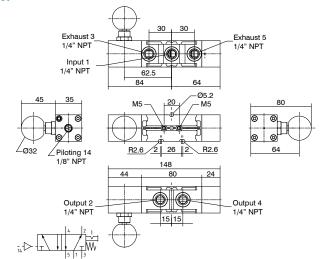
	Ordering code
	SS145200411 ①
	TYPE
0	L= Low temperature version
Ĺ	H= High temperature version
	EX SILY EHLEX

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Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	800	1,02	15,15	

Pneumatic valve with self-locking manual reset



Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.
Sweet gas (natural).



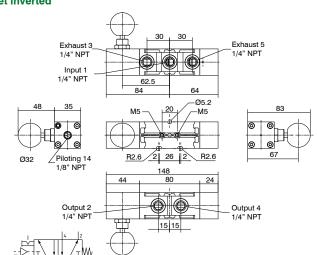


Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1/8" NPT	1020	1,02	15,15	

Pneumatic valve with self-locking manual reset inverted

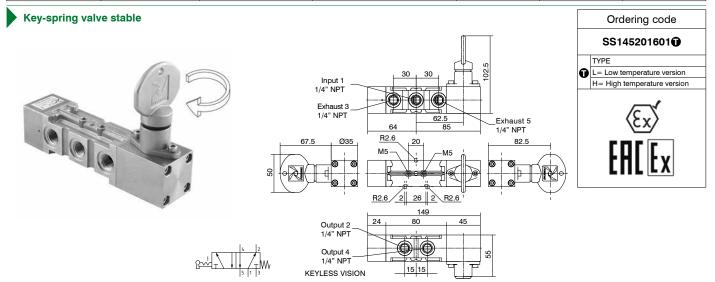


Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.
Sweet gas (natural).





Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	1020	1,02	15,15



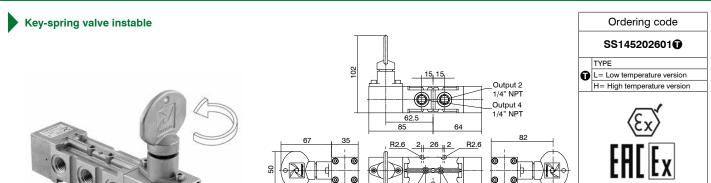
Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv						
12	1000	1/4" NPT	1180	1,02	15,15	

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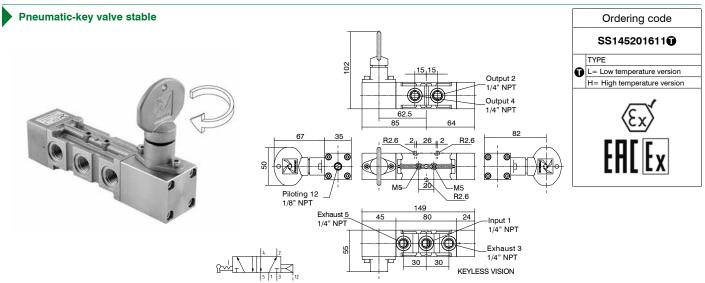
-Input 1 1/4" NPT

Exhaust 3 1/4" NPT KEYLESS VISION

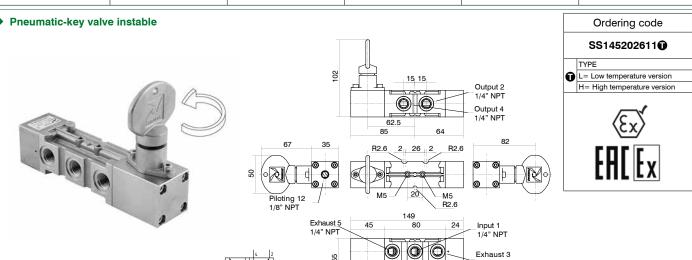


Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
12	1000	1/4" NPT	1180	1,02	15,15		

Exhaust 5 1/4" NPT



Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
12	1000	1/4" NPT	1180	1,02	15,15		



Operational characteristics							
Maximum working pressure (bar)							
12	1000	1/4" NPT	1180	1,02	15,15		

30 30

KEYLESS VISION



Process automation technology Catalogue

Solenoid valves 1/4" NPT series Steel line

Stainless steel solenoid valves, complete with 30mm solenoid coil and **C** • marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid-solenoid valve.

Pneumax solenoid valves have 1/4" NPT connections with 1000NI/min maximum flowrate.

Pneumax solenoid valve utmost adaptability represent one of the main features to provide customized solution and module assembly solution, since both single mounting and integrated module design are available; thanks to distinctive Pneumax valve body design.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	FPM (Fluoroelastomer)
	NBR for low temperatures (available on request)

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.			
	Inert Gas.			
	Sweet gas (natural).			
Operating temperature	-10°C +130°C			
Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless				
of the type of seals used in the valve spool.				
Maximum operating pressure	10 bar			

Electrical (Electropilot) construction characteristics

Cores	Ferromagnetic stainless steel	
Guide tube	Stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
	NBR (available on request)	
Incorporation	PA reiforced fibreglass	
Wire insulation	F (Class H available on request)	
Nominal voltage	24 V DC	
	24, 110, 220/230 V AC	
Power consumption DC	10W	
Power consumption AC	15VA	
Electrical connection	According to DIN43650 A	
IP Rating	IP65	
Tolerance on voltage supply	±10%	
ED continuous service	100%	

Certifications available:

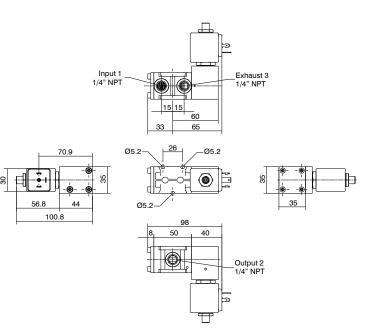
Non ATEX marked product





Solenoid-spring valve





Ordering code SS1432C2**10**01H TENSION 0= 12 V DC 1= 24 V DC B= 24 V AC (50/60 Hz) E= 230 V AC (50/60 Hz)

Ordering code

Minimum piloting pressure 2,5 bar Fluid:

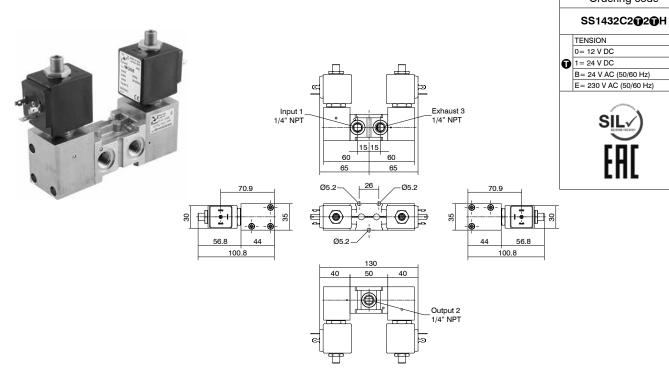
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	900	1,02	15,15		





Minimum piloting pressure 2,5 bar Fluid:

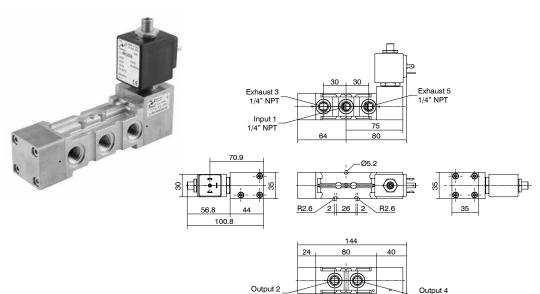
Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

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	Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
10	1000	1/4" NPT	1400	1,02	15,15			

Solenoid-spring valve



1/4" NPT

Ordering code SS145202**⊕**01H TENSION 0= 12 V DC 1= 24 V DC B= 24 V AC (50/60 Hz) E= 230 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar

Filtered air. No lubrication needed, if applied it shall be continuous.

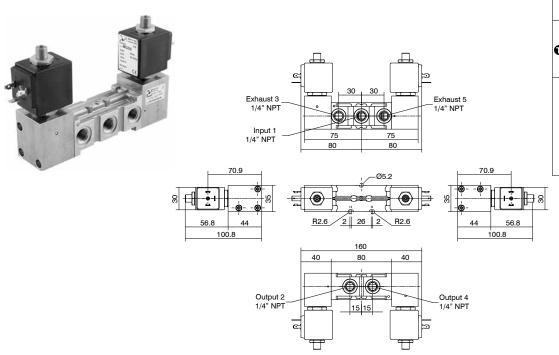
Inert Gas. Sweet gas (natural).

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	/-	J.w
5	1	3

15 15

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1200	1,02	15,15	





Ordering code SS145202020H TENSION 0= 12 V DC 1= 24 V DC B= 24 V AC (50/60 Hz) E= 230 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

4		2	
ļ	/-	-	$\triangleleft \lor$
5	1	3	

Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
10	1000	1/4" NPT	1600	1,02	15,15			

Solenoid valves 1/4" NPT series Steel line - For safe area with IP66 stainless steel housing

Stainless steel solenoid valves, complete with IP66 rated solenoid coil in a stainless steel housing and (marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset, solenoid valve with self-locking manual reset inverted.

Pneumax solenoid valves have 1/4" NPT connections with 1000NI/min maximum flow rate.

Pneumax solenoid valve utmost adaptability represent one of the main features to provide customized solution and module assembly solution, since both single mounting and integrated module design are available; thanks to distinctive Pneumax valve body design.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	FPM (Fluoroelastomer) (available on request)

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature	-20°C +70°C
Note: The suitable operating temperature is limited by the most re	estrictive component, which is the pilot, regardless
of the type of seals used in the valve spool.	
Maximum operating pressure	10 bar

Electrical (Electropilot) construction characteristics

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Housing	304 stainless steel with epoxy paint	
Armour / Cores	Ferromagnetic stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
Incorporation	PBT 30% glass load	
Wire insulation	Н	
Nominal voltage	24 V DC	
	24, 110, 220 V AC	
Power consumption DC	2,4W	
Power consumption AC	10VA (Inrush), 5VA (Running)	
Connection for cable entry	M20x1.5 (1/2" NPT available on request)	
Electrical connection	Screw terminals 2 Poles 2.5 mm	
IP Rating	IP66	
Tolerance on voltage supply	±10%	
ED continuous service	100%	

Certifications available:

Non ATEX marked product



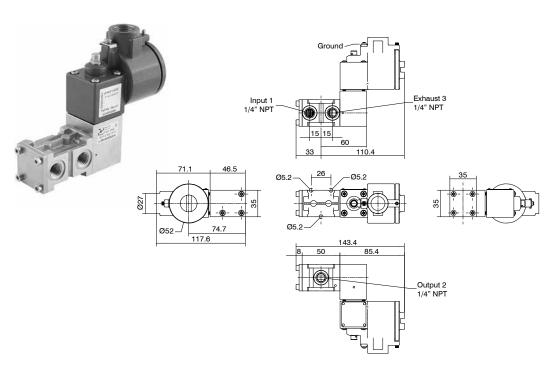




Solenoid-spring valve

Catalogue

Process automation technology





Minimum piloting pressure 2,5 bar

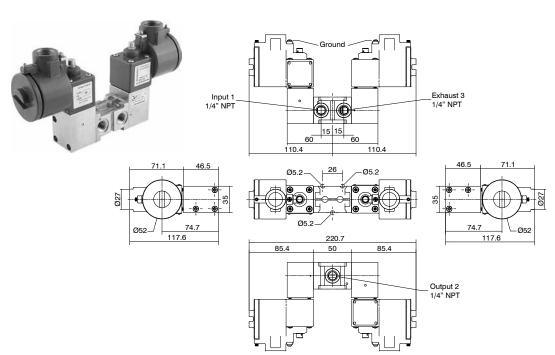
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

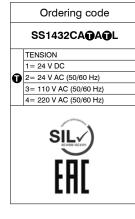
Sweet gas (natural).

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Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1500	1,02	15,15	



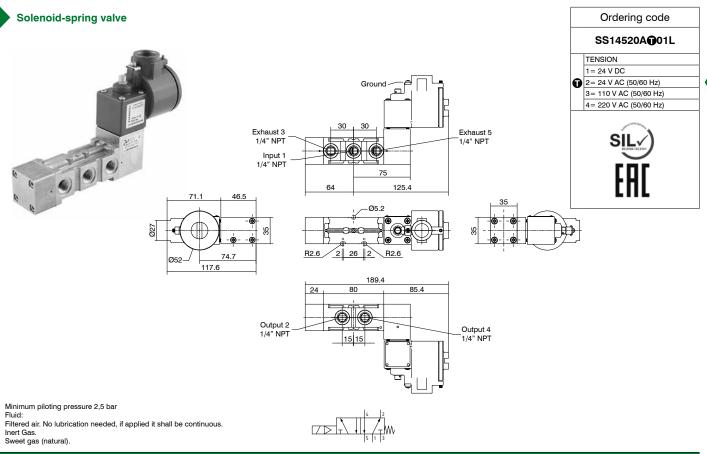




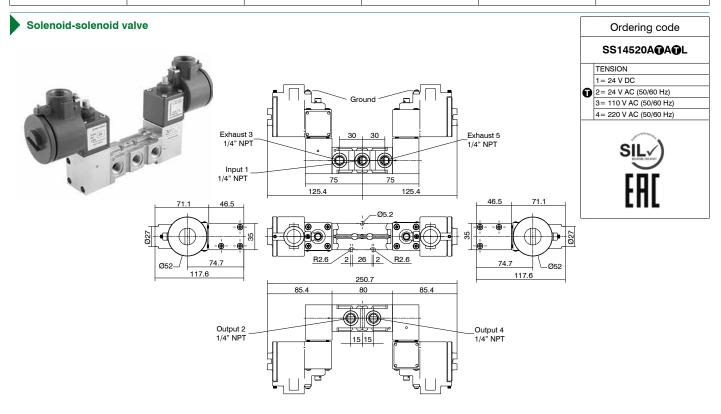
Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

	Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv						kv	
	10	1000	1/4" NPT	2600	1,02	15,15	



Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1800	1,02	15,15	



Minimum piloting pressure 2,5 bar

Fluid:

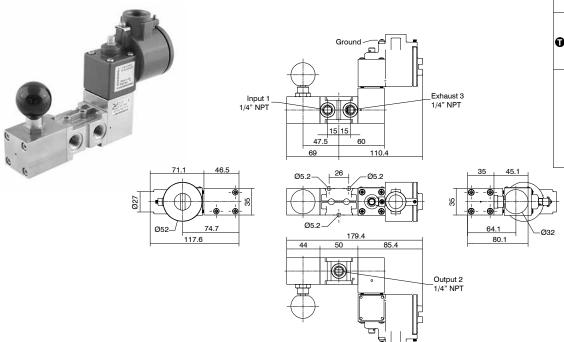
Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	2750	1,02	15,15

Process automation technology Catalogue

Solenoid valve with self-locking manual reset



Ordering code SS1432CA114L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar

PROCESS AUTOMATION TECHNOLOGY

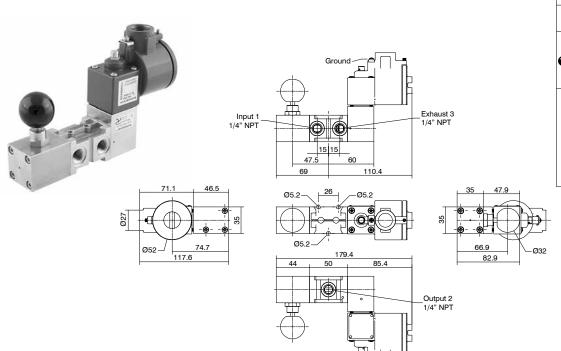
Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

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	Operational characteristics						
				Weight (g)	Weight (g) Cv kv		
	10	1000	1/4" NPT	1850	1,02	15,15	

Solenoid valve with self-locking manual reset inverted



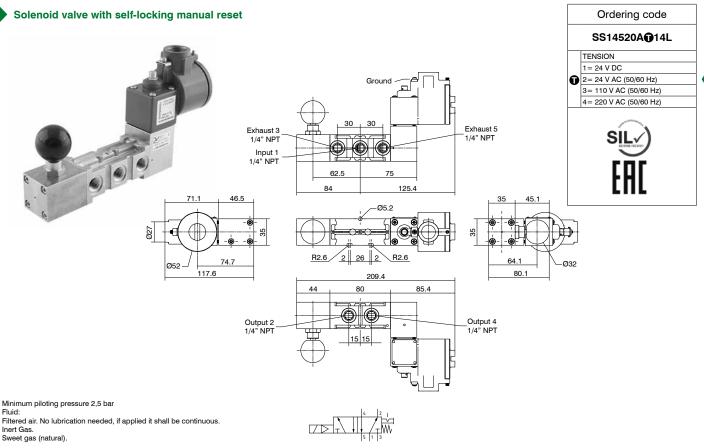
Ordering code SS1432CA115L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

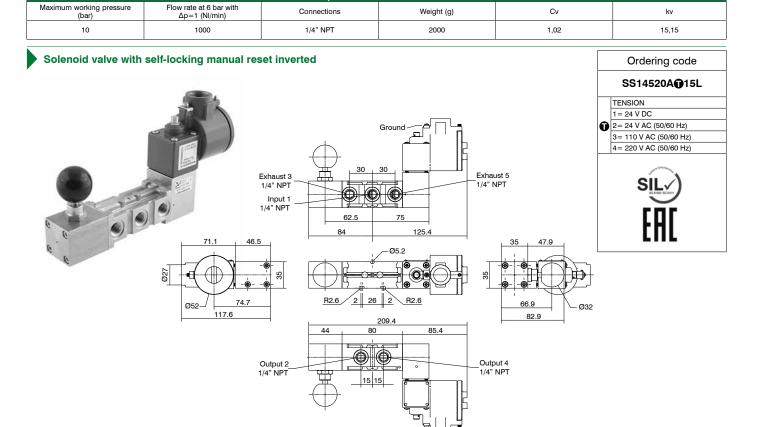
Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressur (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1850	1,02	15,15





Minimum piloting pressure 2,5 bar

Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	2000	1,02	15,15



Catalogue

Solenoid valves 1/4" NPT series Steel line - IP66 Exd Explosion protection

Process automation technology

Stainless steel solenoid valves, complete with IP66 Exd Explosion protection rated solenoid coil in a stainless steel housing and **((** marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset, solenoid valve with self-locking manual reset inverted.

Pneumax solenoid valves have 1/4" NPT connections with 1000NI/min maximum flow rate.

Pneumax solenoid valve utmost adaptability represent one of the main features to provide customized solution and module assembly solution, since both single mounting and integrated module design are available; thanks to distinctive Pneumax valve body design.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	FPM (Fluoroelastomer) (available on request)

Operating range

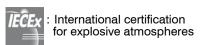
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature for DC version	-50°C +70°C
Operating temperature for AC version	-50°C +55°C
Maximum operating pressure	10 bar

Electrical (Electropilot) construction characteristics

Housing	304 stainless steel with epoxy paint			
Armour / Cores	Ferromagnetic stainless steel			
Springs	Stainless steel			
Seals	FPM (Fluoroelastomer)			
Incorporation	PBT 30% glass load			
Wire insulation	Н			
Nominal voltage	24 V DC			
	24, 110, 220/230 V AC			
Power consumption DC	3W			
Power consumption AC	10VA (Inrush), 5VA (Running)			
Connection for cable entry	M20x1.5 (1/2" NPT available on request)			
Electrical connection	Screw terminals 2 Poles 2.5 mm			
IP Rating	IP66			
Tolerance on voltage supply	±10%			
ED continuous service	100%			

Certifications available:





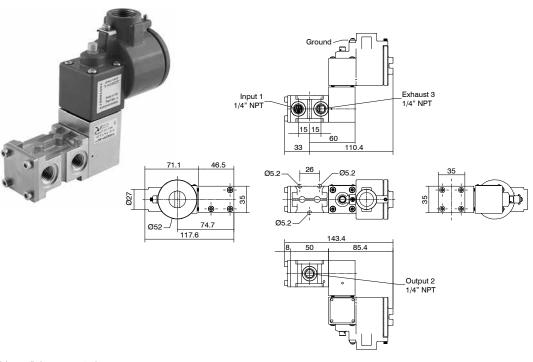






ATEX, SIL and EAC Ex: refer to products in the various sections to the catalogues. **IECEx and NEPSI:** refer to Pneumatrol pilots installed upon each valve.

Solenoid-spring valve



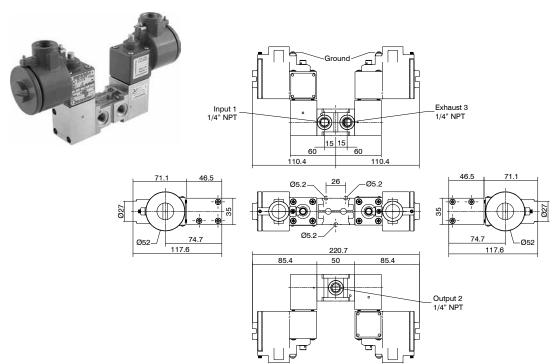
Ordering code SS1432CB**0**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1500	1,02	15,15

Solenoid-solenoid valve



	Ordering code							
	SS1432CB ⊕ B ⊕ L							
	TENSION							
	1 = 24 V DC							
O	2= 24 V AC (50/60 Hz)							
	3= 110 V AC (50/60 Hz)							
	4= 220 V AC (50/60 Hz)							
	EHLEX							
	IECEX Ex							

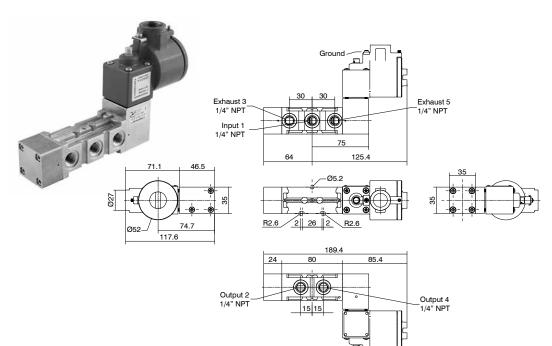
Minimum piloting pressure 2,5 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	2600	1,02	15,15

Solenoid-spring valve



Ordering code SS14520B**⊕**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

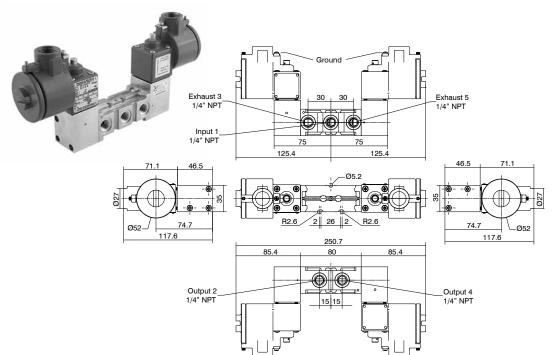
Minimum piloting pressure 2,5 bar

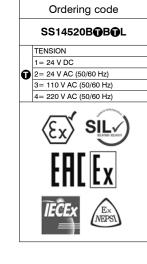
Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1800	1,02	15,15







Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

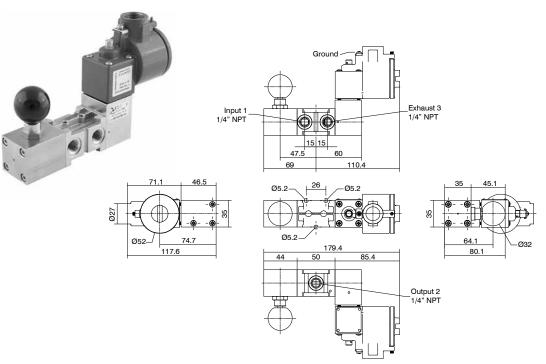
Sweet gas (natural).

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Operational characteristics					
10	1000	1/4" NPT	2750	1,02	15,15

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Solenoid valve with self-locking manual reset

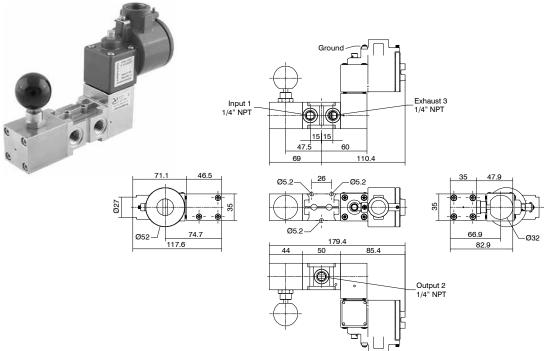


Ordering code SS1432CB**1**14L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

	Operational characteristics					
Maximum working pressure (bar)						
10	1000	1/4" NPT	1850	1,02	15,15	

Solenoid valve with self-locking manual reset inverted



	Ordering code
	SS1432CB ⊕ 15L
	TENSION
	1 = 24 V DC
O	2= 24 V AC (50/60 Hz)
	3= 110 V AC (50/60 Hz)
	4= 220 V AC (50/60 Hz)
	EHL EX

Minimum piloting pressure 2,5 bar

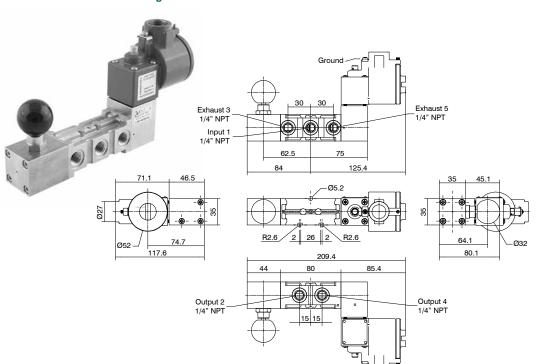
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

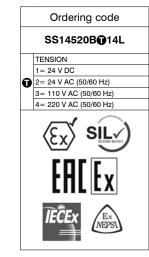
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		Operational c	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1850	1,02	15,15

Process automation technology Catalogue

Solenoid valve with self-locking manual reset





Minimum piloting pressure 2,5 bar

PROCESS AUTOMATION TECHNOLOGY

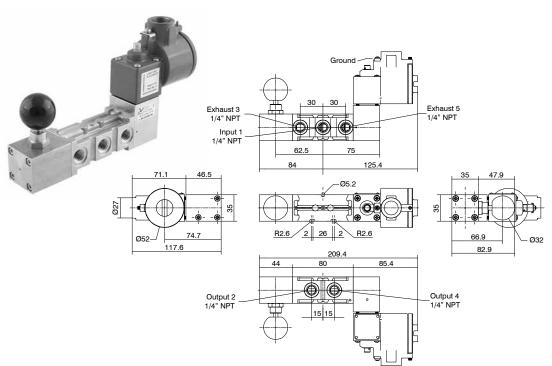
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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	Operational characteristics				
10	1000	1/4" NPT	2000	1,02	15,15





	Ordering code
	SS14520B ⊕ 15L
	TENSION 1= 24 V DC
	2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz)
	4= 220 V AC (50/60 Hz)
	(C) (SIL)
	(EX) Silly
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Minimum piloting pressure 2,5 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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	Operational characteristics				
10	1000	1/4" NPT	2000	1,02	15,15

Solenoid valves 1/4" NPT series Steel line - Intrinsically safe Exia

Stainless steel solenoid valves, complete with intrinsically safe Exia rated solenoid coil in and $\zeta \in \mathbb{R}$ marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset, solenoid valve with self-locking manual reset inverted.

Pneumax solenoid valves have 1/4" NPT connections with 1000NI/min maximum flow rate.

Pneumax solenoid valve utmost adaptability represent one of the main features to provide customized solution and module assembly solution, since both single mounting and integrated module design are available; thanks to distinctive Pneumax valve body design.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	FPM (Fluoroelastomer) (available on request)

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature	-40°C +65°C

Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless of the type of seals used in the valve spool.

Maximum operating pressure 10 bar

Electrical (Electropilot) construction characteristics

Housing	Zinc alloy with epoxy paint
Armour / Cores	Ferromagnetic stainless steel
Springs	Stainless steel
Seals	FPM (Fluoroelastomer)
Incorporation	PBT 30% glass load
Wire insulation	Н
Guide tube	Stainless steel
Resistance	370 Ohms
Nominal voltage	24 V DC
Power consumption DC	0,4 W (Running)
Connection for cable entry	M20x1.5
Electrical connection	Screw terminals 2 Poles 2.5 mm
IP Rating	IP65
Tolerance on voltage supply	±10%
ED continuous service	100%

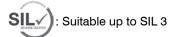
Electrical specifications for intrinsically safe

Umax: in	31 V DC
Imax:	0,67 A
Wmax: in	2,98 W

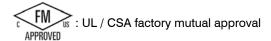
Certifications available:







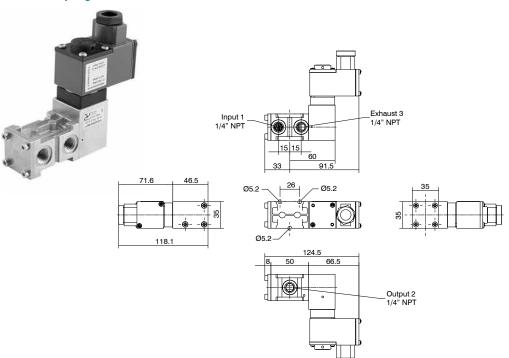




ATEX, SIL and EAC Ex: refer to products in the various sections to the catalogues. IECEx and FM: refer to Pneumatrol pilots installed upon each valve.

Process automation technology Catalogue

Solenoid-spring valve





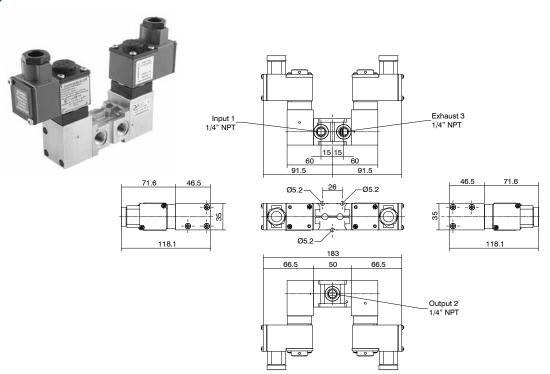
PROCESS AUTOMATION TECHNOLOGY

Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1200	1,02	15,15	

Solenoid-solenoid valve



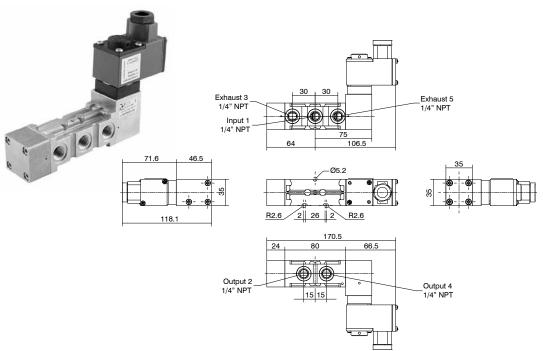


Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	Operational characteristics						
	10 1000		1/4" NPT	2300	1,02	15,15	

Solenoid-spring valve

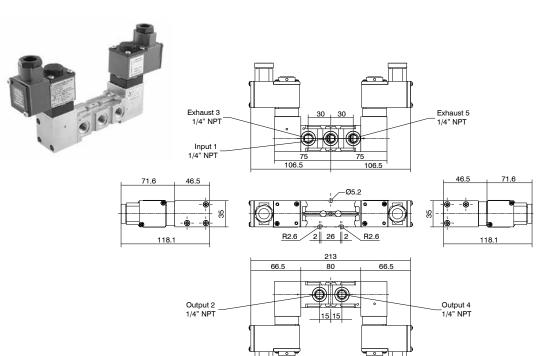


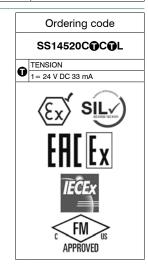


Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1500	1,02	15,15	

Solenoid-solenoid valve





Minimum piloting pressure 2,5 bar

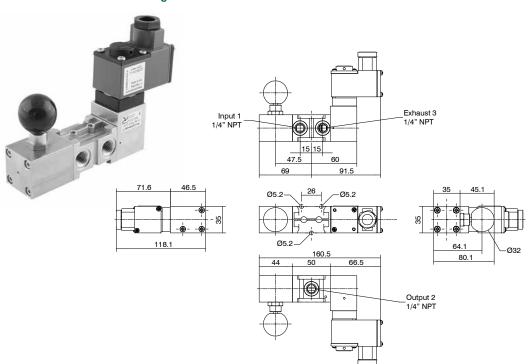
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	Operational characteristics							
10	1000	1/4" NPT	2150	1,02	15,15			

Process automation technology Catalogue

Solenoid valve with self-locking manual reset





Minimum piloting pressure 2,5 bar

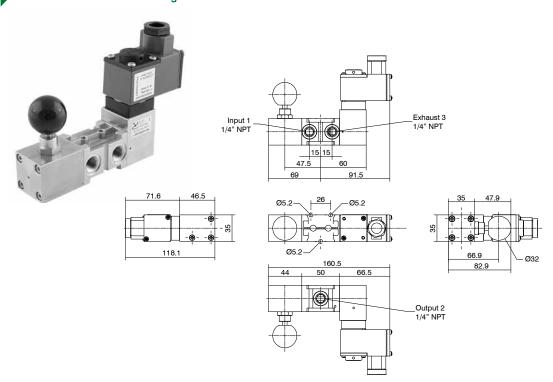
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

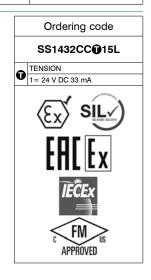
Sweet gas (natural).

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1550	1,02	15,15

Solenoid valve with self-locking manual reset inverted



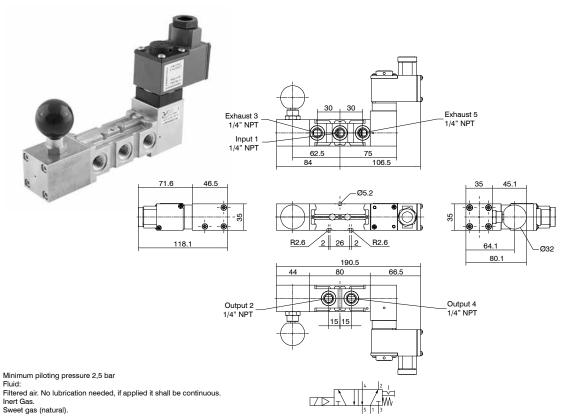


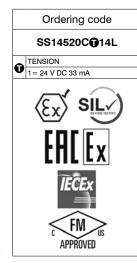
Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1550	1,02	15,15

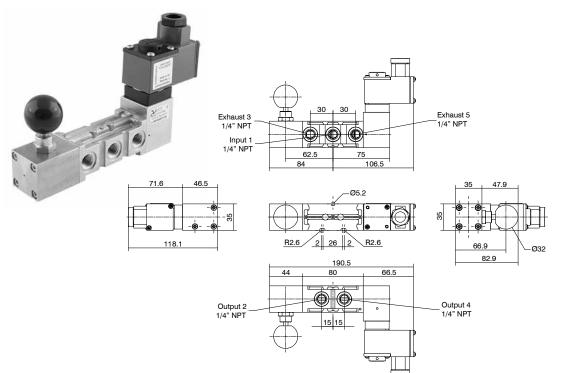






Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1700	1,02	15,15

Solenoid valve with self-locking manual reset inverted



Ordering code
SS14520C ⊕ 15L
ENSION = 24 V DC 33 mA
EX SILV ENECEX PPROVED

Minimum piloting pressure 2,5 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	1000	1/4" NPT	1700	1,02	15,15



Process automation technology Catalogue

Solenoid valves 1/4" NPT series Steel line - Intrinsically safe Exia with IP66 steel housing

Stainless steel solenoid valves, complete with intrinsically safe Exia rated solenoid coil in and $\zeta \in \mathbb{R}$ marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset, solenoid valve with self-locking manual reset inverted.

Pneumax solenoid valves have 1/4" NPT connections with 1000NI/min maximum flow rate.

Pneumax solenoid valve utmost adaptability represent one of the main features to provide customized solution and module assembly solution, since both single mounting and integrated module design are available; thanks to distinctive Pneumax valve body design.

Construction characteristics

	FPM (Fluoroelastomer) (available on request)
Seals	NBR for low temperatures
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Spring	AISI 316 stainless steel
Spool	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Body	AISI 316L stainless steel

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.		
	Inert Gas.		
	Sweet gas (natural).		
Operating temperature	-40°C +65°C		

Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless of the type of seals used in the valve spool.

Maximum operating pressure 10 bar

Electrical (Electropilot) construction characteristics

Housing	304 stainless steel with epoxy paint
Armour / Cores	Ferromagnetic stainless steel
Springs	Stainless steel
Seals	FPM (Fluoroelastomer)
Incorporation	PBT 30% glass load
Wire insulation	Н
Guide tube	Stainless steel
Resistance	370 Ohms
Nominal voltage	24 V DC
Power consumption DC	0,4 W (Running)
Connection for cable entry	M20x1.5
Electrical connection	Screw terminals 2 Poles 2.5 mm
IP Rating	IP66
Tolerance on voltage supply	±10%
ED continuous service	100%

Electrical specifications for intrinsically safe

Umax: in	31 V DC
lmax:	0,67 A
Wmax: in	2,98 W

Certifications available:



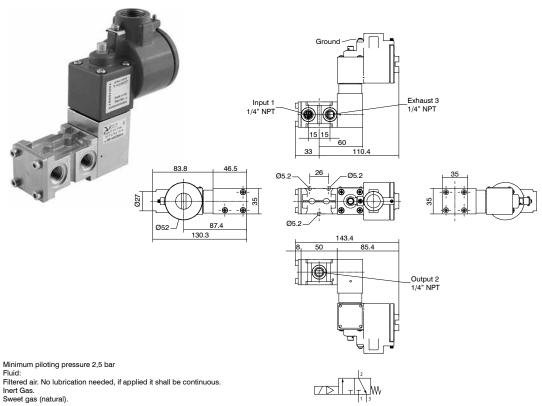


II 2G Ex h IIC T6...T4 Gb X II 2D Ex h IIIB T135°C Db X





Solenoid-spring valve

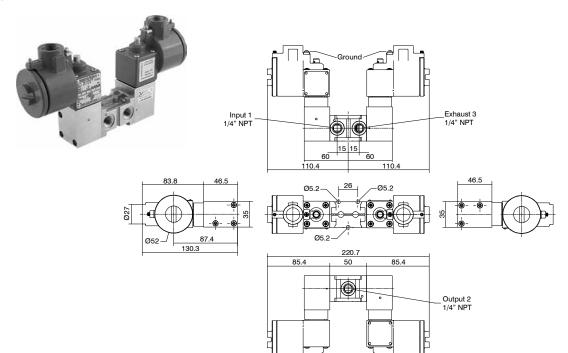


Ordering code SS1432CM101L

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Operational cl	naracteristics		
ections	Weight (g)	Cv	kv

Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connec 1/4" NPT 1500 1,02 15,15





Ordering code SS1432CM1M1L

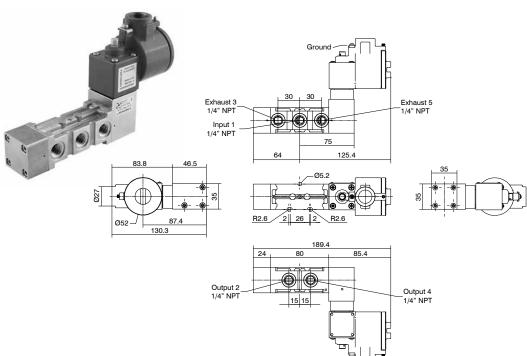
Minimum piloting pressure 2,5 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	1	3	

Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	2600	1,02	15,15		

Solenoid-spring valve



Ordering code SS14520M101L

Minimum piloting pressure 2,5 bar Fluid:

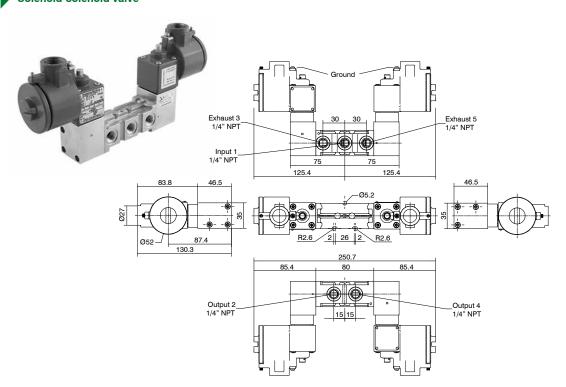
PROCESS AUTOMATION TECHNOLOGY

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
10	1000	1/4" NPT	1800	1.02	15.15			





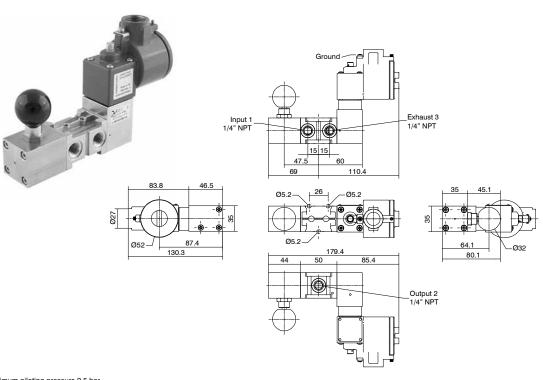
Ordering code SS14520M1M1L

Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	2750	1,02	15,15		

Solenoid valve with self-locking manual reset

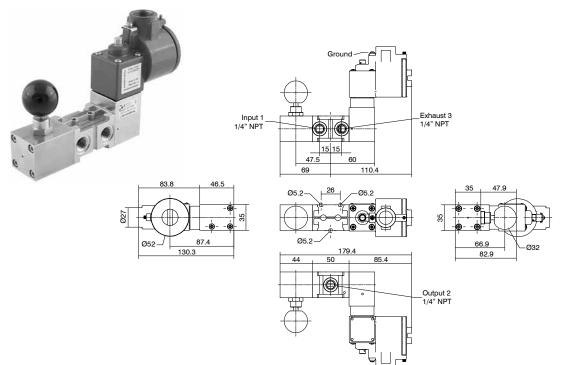




Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Innert Gas. Sweet gas (natural).

oweet gas (natural).							
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	1850	1,02	15,15		

Solenoid valve with self-locking manual reset inverted



Ordering code SS1432CM115L

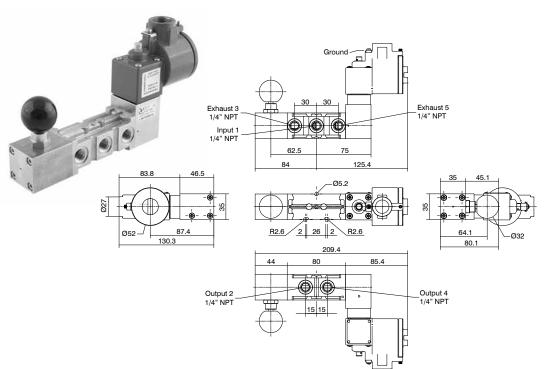
Minimum piloting pressure 2,5 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	1850	1,02	15,15		

Solenoid valve with self-locking manual reset



Ordering code SS14520M114L

Minimum piloting pressure 2,5 bar

PROCESS AUTOMATION TECHNOLOGY

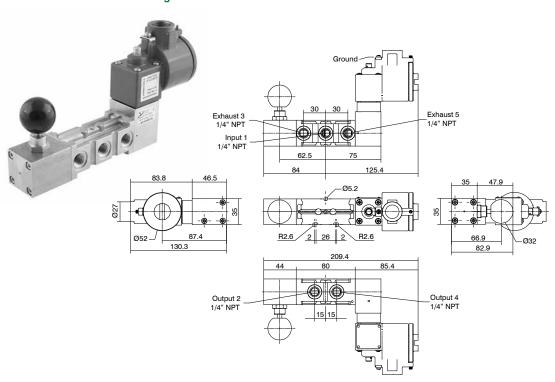
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	2000	1,02	15,15		

Solenoid valve with self-locking manual reset inverted



Ordering code SS14520M115L

Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

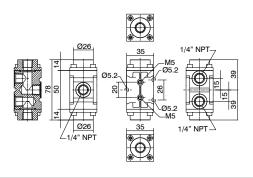
4		2
ļ	/-	\mathbb{R}
5	1	3

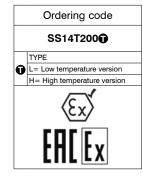
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	2000	1,02	15,15		

Flow divider, 2 outputs



Different types of dividers available on request.



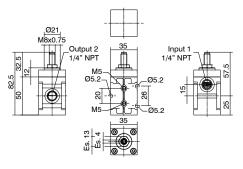


	Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
12	1700	1/4" NPT	390	1,73	25,75			

Flow regulator 1/4" NPT







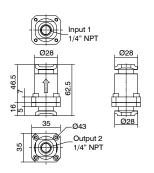
	Ordering code
	SS14RF@
	FUNCTION
0	U= Unidirectional
_	B= Bidirectional
	TYPE
ø	L= Low temperature version
	H= High temperature version
	EX EHL Ex

		Operational cl	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	500	1,02	15,15

Double seal non return valve







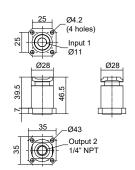
	Ordering code				
	SS14VUS ①				
r	TYPE				
16	L= Low temperature version				
L	H= High temperature version				
	(£x)				
	EHL Ex				

		Operational c	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1400	1/4" NPT	220	1,42	21,21

Double seal non return valve for group







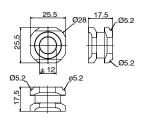
	Ordering code				
	SS14VUG ⊕				
	TYPE				
0	L= Low temperature version				
	H= High temperature version				
	(Ex)				
	EHI Ex				

		Operational cl	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1400	1/4" NPT	150	1,42	21,21



Adapter for 90°





Ordering code

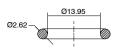
SS1490

Operational characteristics Weight (g)

Seal OR 2,62 x 13,95



100-pieces pack



Ordering code SS14D0 TYPE

- 10	D)	L= Low temperature version		
		H= High temperature version		
Operational characteristics				

Weight (g) 0,38

Mounting kit "A"



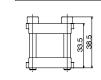
Kit includes: Nr. 1 Front flange Nr. 1 Thareaded rear flange Nr. 2 Screw M5x35 AISI 316

Weight (g)



Ordering code

SS14A

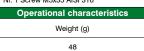




Mounting kit "B"



Kit includes: Nr. 1 Front flange Nr. 1 Thareaded rear flange Nr. 1 Screw M5x35 AISI 316











Single deployment flange



Kit includes: Nr. 1 Single deployment flange Nr. 3 Screws M5x40 AISI 316 Nr. 2 Screws M5x8 AISI 316

Weight (g)

Ordering code

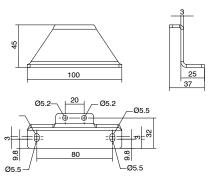
SS14C

Fixing bracket



Kit includes: Nr. 2 Screws M5x8 AISI 316 Nr. 1 Flange

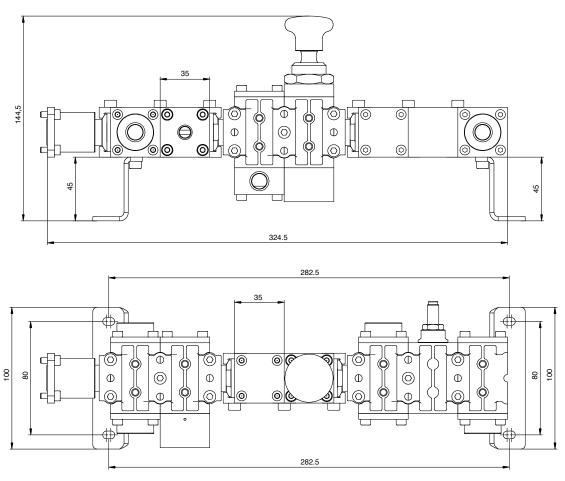
Operational characteristics	
Weight (g)	
125	



Ordering code

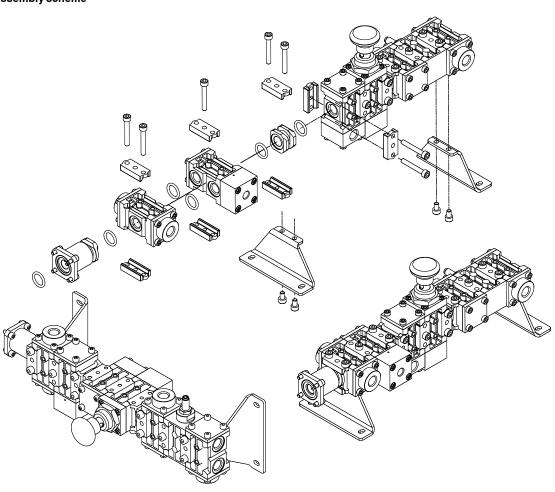
SS14M5

Example: manifold system



Accessories for valves Series Steel line

Example: group assembly scheme





Process automation technology Catalogue

Valves 1/2" NPT series Steel line

Stainless steel brand series have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes 3 and 5 ways valves, designed according to the following configuration: pneumatic-spring valve, pneumatic-pneumatic valve, 2 position push-pull valve, push button-spring valve, push button-pneumatic return valve, pneumatic valve with self-locking manual reset (only in a 3 way function), pneumatic valve with self-locking manual reset inverted (only in a 3 way function). Accessories: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

Pneumax valves have 1/2" NPT connections with 3500 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

Body	AISI 316L stainless steel		
Operators	AISI 316L stainless steel		
Spool	AISI 316L stainless steel		
Spring	AISI 316 stainless steel		
Screws	AISI 316 stainless steel (A4-70 stainless steel)		
Seals	FPM (Fluoroelastomer)		
	NBR and PU (Polyurethane) for low temperatures (-50°C) standard		

Operating range

- p	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature (for low temperature version L)	-50°C +70°C
Operating temperature (for high temperature version H)	-10°C +150°C
Maximum operating pressure	12 bar

Certifications available:

ATEX **(€ (E)** II 2 GD c IIC





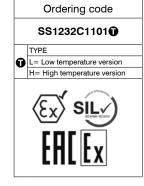


Pneumatic-spring valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

Ø6.5 Ø6.5 135.5 45 73 Output 2 1/2" NPT Exhaust 3 Piloting 12 1/8" NPT



Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	1992	3,55	53,03

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

12 To 10

	58 40 Piloting 10 1/8" NPT	
000 200 200 200 200 200 200 200 200 200	Ø6.5 Ø6.5 Ø7 Ø6.5	1/2" NPT
1/2" NPT	Piloting 12 1/8" NPT	Exhaust 3

	Ordering code
	SS1232C11111
	TYPE
O	L= Low temperature version
	H= High temperature version
	FALLY FALLY

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	2001	3,55	53,03

2 position push-pull valve



Operating force 55N. Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

© © Es. 40	
044 42 M30x1.5 06.5 06.5 06.5 06.5 07 06.5 07 07 09 1/2" NPT	NPT t 3

TYPE L= Low temperature version H= High temperature version			Ordering code
L= Low temperature version H= High temperature version			SS1232C0802
H= High temperature version	Ì		· · · =
(Ex)		Ū	
			EX EAL Ex

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o (,						
	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	2027	3,55	53,03	



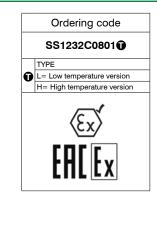
Push button-spring valve



Operating force 200N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

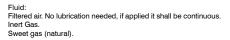
M30x1.5 45 Input 1 Output 2 1/2" NPT Exhaust 3 1/2" NPT

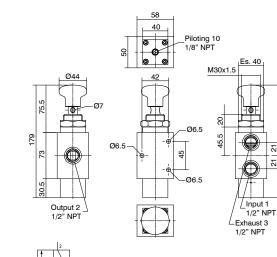


	Operational characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	2000	3,55	53,03

Push button-pneumatic return valve







	Ordering code
	SS1232C08111
	TYPE
ø	L= Low temperature version
	H= High temperature version
	⟨ と χ⟩
	EHL Ex

	1 3 10			
Ор	erational characteristics			
s	Pilot connections	Weight (a)	Cv	

Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections 1/8" NPT 3500 1/2" NPT 2012 3,55 53,03

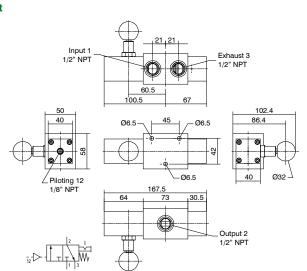
Pneumatic valve with self-locking manual reset

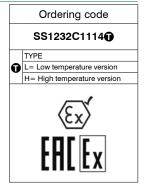


Minimum piloting pressure 3 bar

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

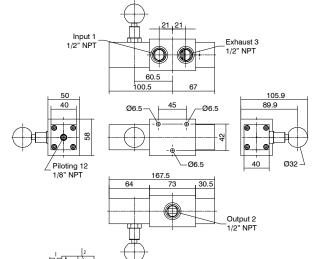


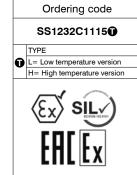


			'				
	Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	1/8" NPT	2409	3,55	53,03	









Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

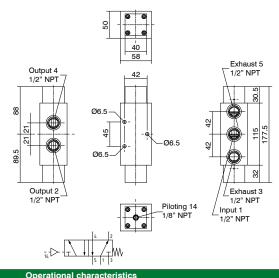
	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	2408	3,55	53,03



Pneumatic-spring valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Intert Gas. Sweet gas (natural).



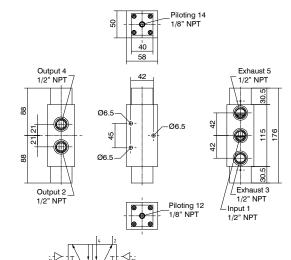
	Ordering code				
	SS125201101 ①				
	TYPE				
O	L= Low temperature version				
Ĺ	H= High temperature version				
	EX SILY EHLEX				

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	2744	3,55	53,03	

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.



	Ordering code					
	SS125201111 ①					
	TYPE					
O	L= Low temperature version					
	H= High temperature version					
	EX SILY ENERY					

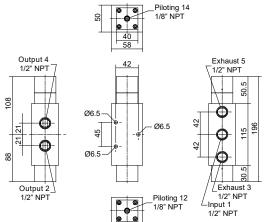
Sweet gas (natural).			5 1 3					
Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv			

1/2" NPT 12 3500 1/8" NPT 2790 3,55 53,03

Pneumatic-pneumatic closed centers valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



	Ø6.5	4 90.5
Output 2 \	Piloting 12 1/8" NPT	/_Exhaust 3 1/2" NPT _Input 1 1/2" NPT

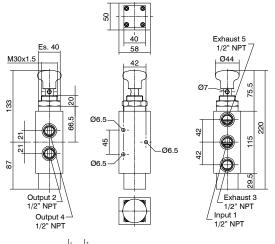
	Ordering code						
	SS125311111 ①						
	TYPE						
0	L= Low temperature version						
1	H= High temperature version						
	ENC Ex						

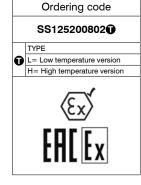
ı	Operational characteristics								
ĺ	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv		
	12	3500	1/2" NPT	1/8" NPT	3019	3,55	53,03		

2 position push-pull valve



Operating force 55N.
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.
Inert Gas.
Sweet gas (natural).





Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	2757	3,55	53,03	

Push button-spring valve



Operating force 200N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

	20	
Es. 40	40 58	Exhaust 5 1/2" NPT 7
M30x1.5	42	Ø44 /
<u>88</u>		Ø7
25.88	Ø6.5	115
21 21	Ø6.5 — — — — — — — — — — — — — — — — — — —	4
Output 2		Exhaust 3
1/2" NPT Output 4 1/2" NPT		1/2" NPT _Input 1 1/2" NPT

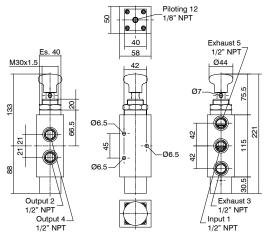
SS125200801 ①	
L= Low temperature version	o
H= High temperature version	
EHL Ex	

Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	2730	3,55	53,03	

Push button-pneumatic return valve



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.
Sweet gas (natural).



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Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	1/8" NPT	2780	3,55	53,03	



Process automation technology Catalogue

Solenoid valves 1/2" NPT series Steel line - For safe area with IP66 stainless steel housing

Stainless steel solenoid valves, complete with IP66 rated solenoid coil in a stainless steel housing and (marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive cases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset (only in a 3 way function), solenoid valve with self-locking manual reset inverted (only in a 3 way function).

Pneumax solenoid valves have 1/2" NPT connections with 3500 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	FPM (Fluoroelastomer) (available on request)

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.			
	Inert Gas.			
	Sweet gas (natural).			
Operating temperature	-20°C +70°C			
Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless				
of the type of seals used in the valve spool.				
Maximum operating pressure	10 bar			

Electrical (Electropilot) construction characteristics

Housing	304 stainless steel with epoxy paint	
Armour / Cores	Ferromagnetic stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
Incorporation	PBT 30% glass load	
Wire insulation	Н	
Nominal voltage	24 V DC	
	24, 110, 220 V AC	
Power consumption DC	2,4W	
Power consumption AC	10VA (Inrush), 5VA (Running)	
Connection for cable entry	M20x1.5 (1/2" NPT available on request)	-
Electrical connection	Screw terminals 2 Poles 2.5 mm	
IP Rating	IP66	
Tolerance on voltage supply	±10%	
ED continuous service	100%	

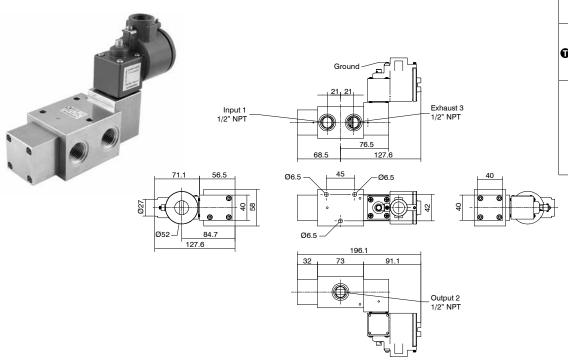
Certifications available:

Non ATEX marked product





Solenoid-spring valve



Ordering code SS1232CA **1**01L TENSION

1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz)

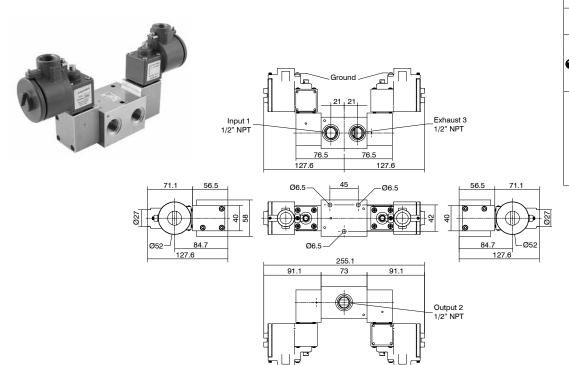
4= 220 V AC (50/60 Hz)

Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	2776	3,55	53,03

Solenoid-solenoid valve



Ordering code

SS1232CATATL

TENSION

1 = 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz)

4= 220 V AC (50/60 Hz)

Minimum piloting pressure 3 bar

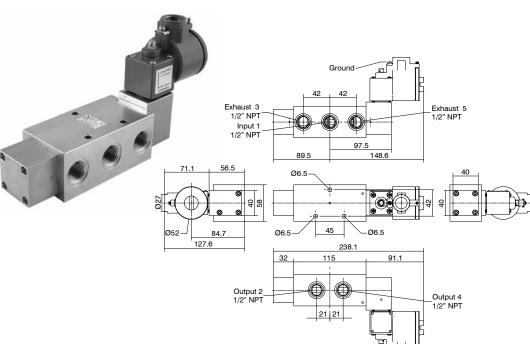
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

2	
_ T T	
1	3

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3909	3,55	53,03

Process automation technology Catalogue





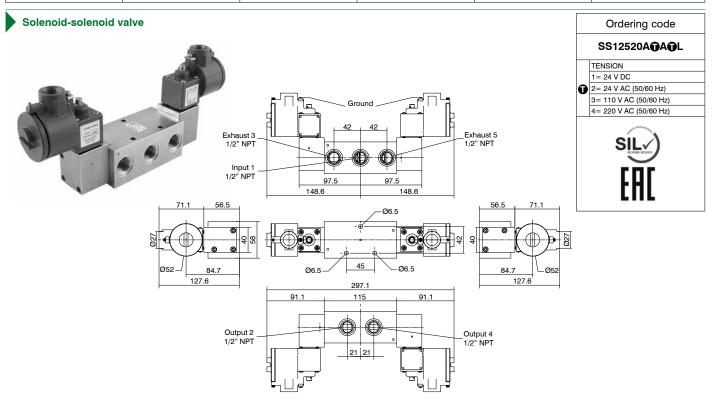
Ordering code SS12520A 101L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Minimum piloting pressure 3 bar

Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3679	3,55	53,03



Minimum piloting pressure 3 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

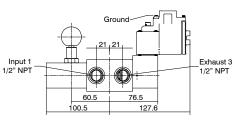
Sweet gas (natural).

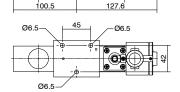
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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	4678	3,55	53,03

Solenoid valve with self-locking manual reset







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Output 2 1/2" NPT



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Ordering code SS1232CA114L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

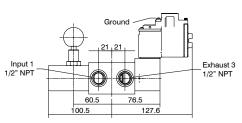
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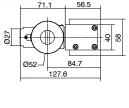
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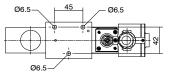
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3358	3,55	53,03

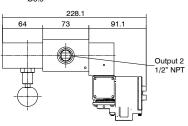
Solenoid valve with self-locking manual reset inverted











Ordering code	
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SS1232CA 15L

TENSION 1= 24 V DC

2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)



Minimum piloting pressure 3 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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		Operational cl	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3360	3,55	53,03



Process automation technology Catalogue

Solenoid valves 1/2" NPT series Steel line - IP66 Exd Explosion protection

Stainless steel solenoid valves, complete with IP66 Exd Explosion protection rated solenoid coil in a stainless steel housing and (marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset (only in a 3 way function), solenoid valve with self-locking manual reset inverted (only in a 3 way function).

Pneumax solenoid valves have 1/2" NPT connections with 3500 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

Operating range	
	FPM (Fluoroelastomer) (available on request)
Seals	NBR for low temperatures
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Spring	AISI 316 stainless steel
Spool	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Body	AISI 316L stainless steel

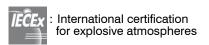
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature for DC version	-50°C +70°C
Operating temperature for AC version	-50°C +55°C
Maximum operating pressure	10 bar

Electrical (Electropilot) construction characteristics

Housing	304 stainless steel with epoxy paint		
Armour / Cores	Ferromagnetic stainless steel		
Springs	Stainless steel	Stainless steel	
Seals	FPM (Fluoroelastomer)		
Incorporation	PBT 30% glass load		
Wire insulation	Н		
Nominal voltage	24 V DC		
	24, 110, 220/230 V AC		
Power consumption DC	3W		
Power consumption AC	10VA (Inrush), 5VA (Running)		
Connection for cable entry	M20x1.5 (1/2" NPT available on request)		
Electrical connection	Screw terminals 2 Poles 2.5 mm		
IP Rating	IP66		
Tolerance on voltage supply	±10%		
ED continuous service	100%		

Certifications available:





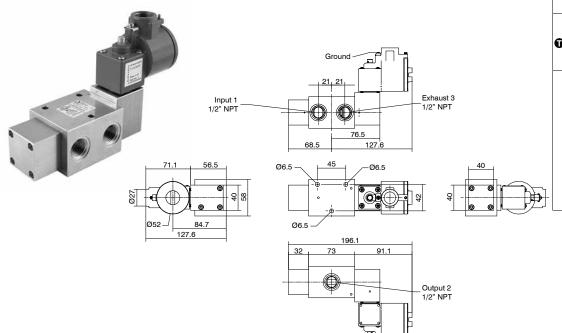






ATEX, SIL and EAC Ex: refer to products in the various sections to the catalogues. IECEx and NEPSI: refer to Pneumatrol pilots installed upon each valve.





SS1232CB**0**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

Ordering code









Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

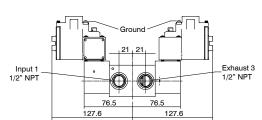
Inert Gas. Sweet gas (natural).

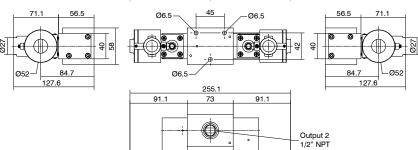
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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	2776	3,55	53,03

Solenoid-solenoid valve







Ordering code SS1232CB OBOL TENSION 1 = 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

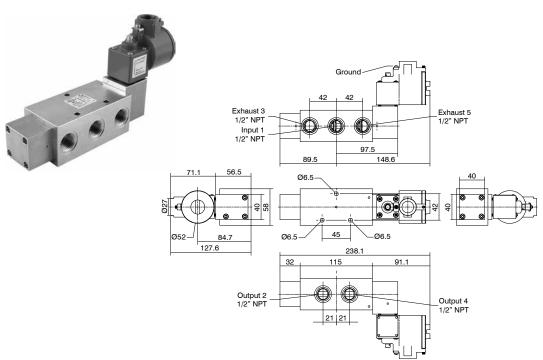
Minimum piloting pressure 3 bar

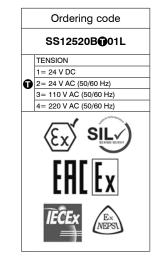
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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		Operational c	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3909	3,55	53,03







Minimum piloting pressure 3 bar

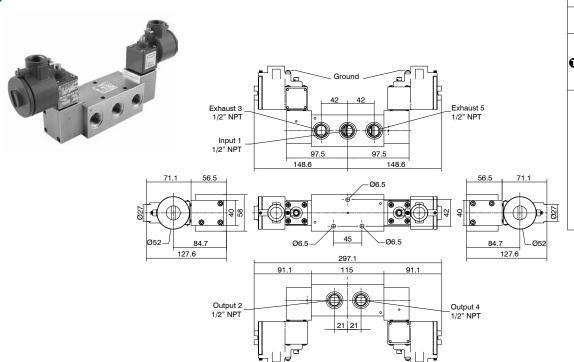
Filtered air. No lubrication needed, if applied it shall be continuous.

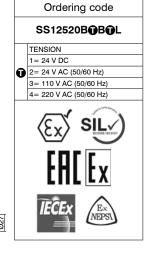
Inert Gas. Sweet gas (natural).

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3679	3,55	53,03







Minimum piloting pressure 3 bar Fluid:

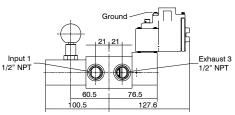
Filtered air. No lubrication needed, if applied it shall be continuous.

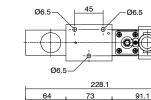
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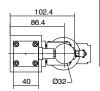
Operational characteristics						
	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
ĺ	10	3500	1/2" NPT	4678	3,55	53,03

Solenoid valve with self-locking manual reset









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Output 2 1/2" NPT



Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

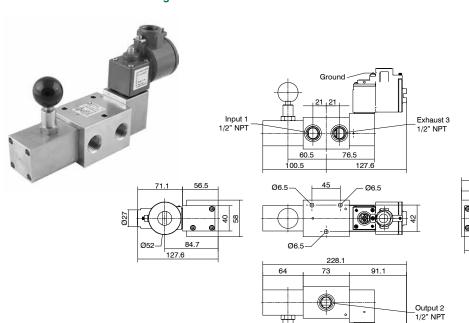
Inert Gas. Sweet gas (natural).

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Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv						
10	3500	1/2" NPT	3358	3,55	53,03	

Solenoid valve with self-locking manual reset inverted



	Ordering code
	SS1232CB ⊕ 15L
	TENSION
	1 = 24 V DC
Ū	2= 24 V AC (50/60 Hz)
	3= 110 V AC (50/60 Hz)
	4= 220 V AC (50/60 Hz)
	EX SILV EALEX
	IECEX (Ex. NEPS)

Minimum piloting pressure 3 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3360	3,55	53,03



Process automation technology Catalogue

Solenoid valves 1/2" NPT series Steel line - Intrinsically safe Exia

Stainless steel solenoid valves, complete with intrinsically safe Exia rated solenoid coil in and (marked have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid-solenoid valve, solenoid valve with self-locking manual reset, solenoid valve with self-locking manual reset inverted.

Pneumax solenoid valves have 1/2" NPT connections with 3500 NI/min maximum flow rate.

This version only provides single mounting.

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Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	FPM (Fluoroelastomer) (available on request)
Operating range	

Fluid Filtered air. No lubrication needed, if applied it shall be continuous.					
	Inert Gas.				
	Sweet gas (natural).				
Operating temperature	-40°C +65°C				
Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless					

of the type of seals used in the valve spool. Maximum operating pressure 10 bar

Electrical (Electropilot) construction characteristics

Housing	Zinc alloy with epoxy paint	
Armour / Cores	Ferromagnetic stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
Incorporation	PBT 30% glass load	
Wire insulation	Н	
Guide tube	Stainless steel	
Resistance	370 Ohms	
Nominal voltage	24 V DC	
Power consumption DC	0,4 W (Running)	
Connection for cable entry	M20x1.5	
Electrical connection	Screw terminals 2 Poles 2.5 mm	
IP Rating	IP65	
Tolerance on voltage supply	±10%	
ED continuous service	100%	

Flectrical specifications for intrinsically safe

Electrical opecinications for main	ordany date	
Umax: in	31 V DC	
lmax:	0,67 A	
Wmax: in	2,98 W	

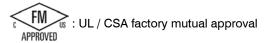
Certifications available:





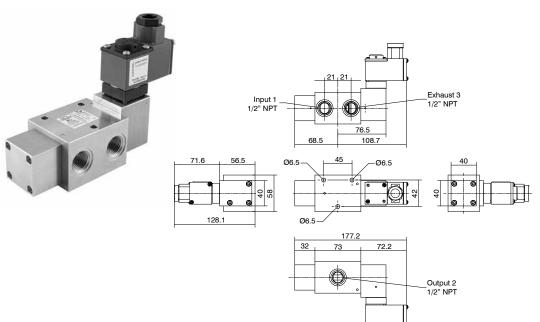






ATEX, SIL and EAC Ex: refer to products in the various sections to the catalogues. IECEx and FM: refer to Pneumatrol pilots installed upon each valve.

Solenoid-spring valve



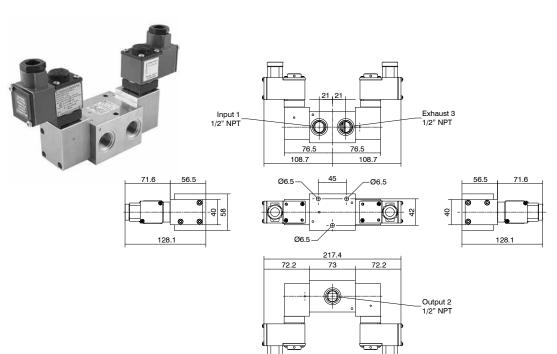


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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Operational characteristics						
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv						
10	3500	1/2" NPT	2437	3,55	53,03	

Solenoid-solenoid valve





Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

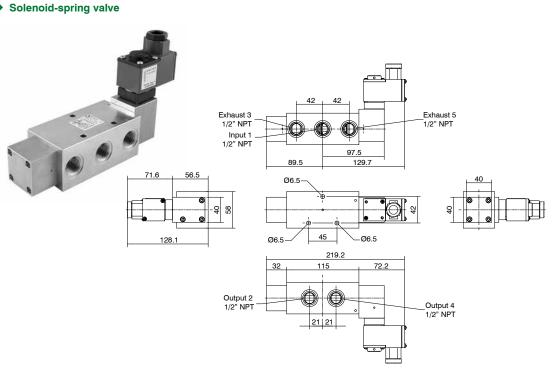
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	Operational characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3228	3,55	53,03



Catalogue

Process automation technology





Minimum piloting pressure 3 bar Fluid:

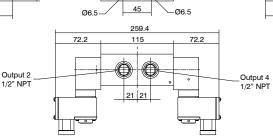
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3349	3,55	53,03



Exhaust 3 1/2" NPT Exhaust 5 1/2" NPT Input 1 1/2" NPT 97.5 97.5 56.5 58 8





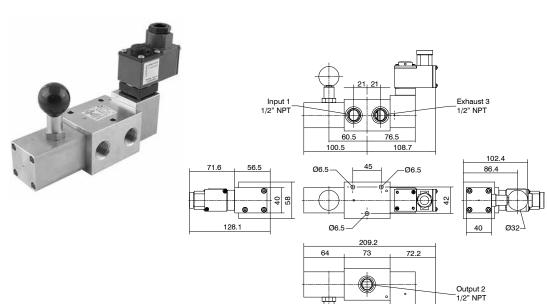
Minimum piloting pressure 3 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3749	3,55	53,03

Solenoid valve with self-locking manual reset



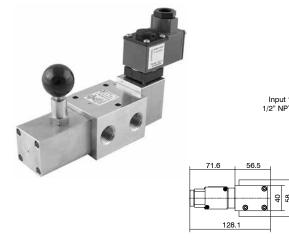


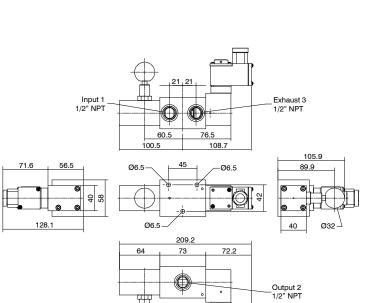
Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3020	3,55	53,03

Solenoid valve with self-locking manual reset inverted







Minimum piloting pressure 3 bar

Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	3500	1/2" NPT	3015	3,55	53,03	



Process automation technology Catalogue

Solenoid valves 1/2" NPT series Steel line - Intrinsically safe Exia with IP66 steel housing

Stainless steel solenoid valves, complete with IP66 intrinsically safe Exia protection rated solenoid coil in a stainless steel housing (a) have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 and 5 ways functions, complete with self feeding solenoids, designed according to the following configuration: solenoid-spring valve, solenoid valve, solenoid valve with self-locking manual reset (only in a 3 way function), solenoid valve with self-locking manual reset inverted (only in a 3 way function).

Pneumax solenoid valves have 1/2" NPT connections with 3500 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

Operating range	
	FPM (Fluoroelastomer) (available on request)
Seals	NBR for low temperatures
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Spring	AISI 316 stainless steel
Spool	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Body	AISI 316L stainless steel

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.		
	Inert Gas.		
	Sweet gas (natural).		
Operating temperature for DC version	-50°C +70°C		
Operating temperature for AC version	-50°C +55°C		
Maximum operating pressure	10 bar		

Electrical (Electropilot) construction characteristics

Housing	304 stainless steel with epoxy paint	
Armour / Cores	Ferromagnetic stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
Incorporation	PBT 30% glass load	
Wire insulation	Н	
Nominal voltage	24 V DC	
	24, 110, 220/230 V AC	
Power consumption DC	3W	
Power consumption AC	10VA (Inrush), 5VA (Running)	
Connection for cable entry	M20x1.5 (1/2" NPT available on request)	
Electrical connection	Screw terminals 2 Poles 2.5 mm	
IP Rating	IP66	
Tolerance on voltage supply	±10%	
ED continuous service	100%	

Certifications available:



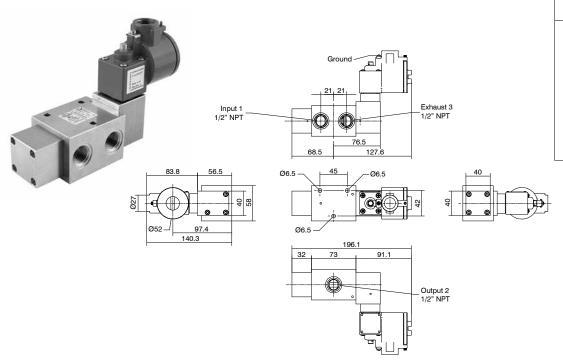


II 2G Ex h IIC T6...T4 Gb X II 2D Ex h IIIB T135°C Db X





Solenoid-spring valve



Ordering code SS1232CM101L







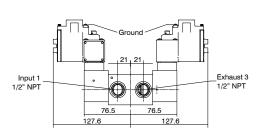
Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

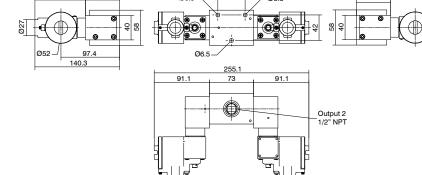


Operational characteristics						
Maximum working pressure (bar)						
10	3500	1/2" NPT	2776	3,55	53,03	

Solenoid-solenoid valve







SS1232CM1M1L

Ordering code



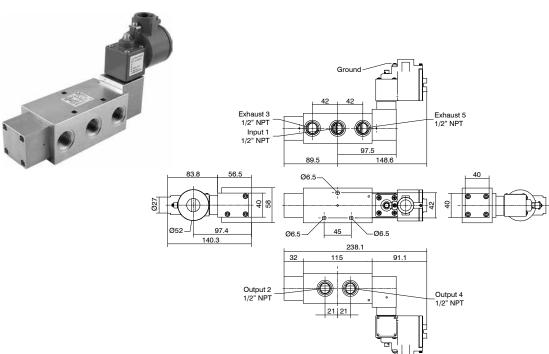


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics						
Maximum working pressure (bar)						
10	3500	1/2" NPT	3909	3,55	53,03	

Solenoid-spring valve



Ordering code SS12520M101L

Minimum piloting pressure 3 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

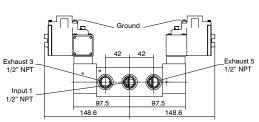
Sweet gas (natural).

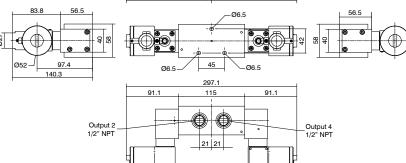
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Operational characteristics					
Maximum working pressure (bar) Flow rate at 6 bar with $\Delta p=1$ (NI/min) Connections Weight (g) Cv kv					
10	3500	1/2" NPT	3679	3,55	53,03

Solenoid-solenoid valve







Ordering code SS12520M1M1L



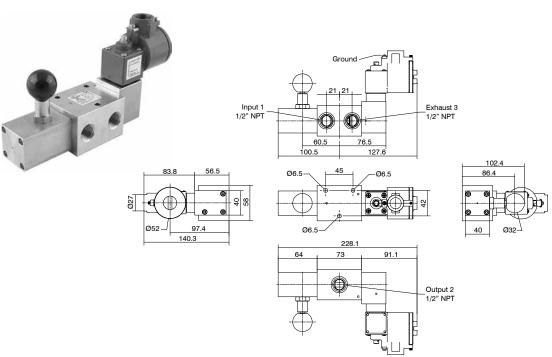


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv					
10	3500	1/2" NPT	4678	3,55	53,03

Solenoid valve with self-locking manual reset



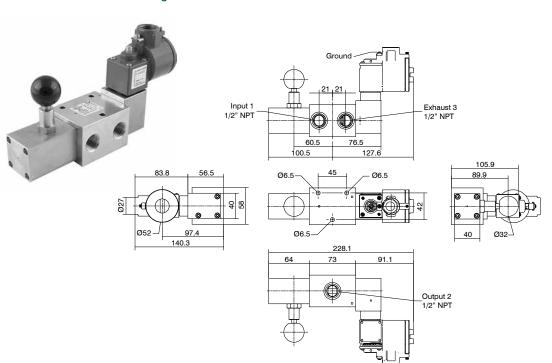


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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Operational characteristics					
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min) Connections Weight (g) Cv kv					
10	3500	1/2" NPT	3358	3,55	53,03

Solenoid valve with self-locking manual reset inverted



Ordering code SS1232CM115L
EXX (C)

Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3360	3,55	53,03

Process automation technology Catalogue

Valves 3/4" NPT series Steel line

Stainless steel brand series have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes 3 and 5 ways valves, designed according to the following configuration: pneumatic-spring valve, pneumatic-pneumatic valve. Accessories: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

Pneumax valves have 3/4" NPT connections with 10000 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

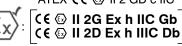
PROCESS AUTOMATION TECHNOLOGY

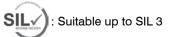
Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	FPM (Fluoroelastomer)
	NBR and PU (Polyurethane) for low temperatures (-50°C) standard
Operating range	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature (for low temperature version L)	-50°C +70°C
Operating temperature (for high temperature version H)	-10°C +150°C

12 bar

Certifications available:

Maximum operating pressure





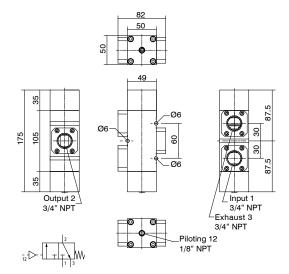
Pneumatic-spring valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).



	Ordering code				
	SS3432C1101 ①				
	TYPE				
O	L= Low temperature version				
Ĺ	H= High temperature version				
	EX SILV				

		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	10000	3/4" NPT	1/8" NPT	3190	10,16	151,51

Valves 3/2 - 5/2, 3/4" NPT

Series Steel line

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

82 50 Piloting 10 1/8" NPT
Output 2 3/4" NPT Piloting 12 1/8" NPT Exhaust 3 3/4" NPT

	Ordering code
	SS3432C11111
	TYPE
ø	L= Low temperature version
	H= High temperature version
	(Ex) SILV

Sweet gas (natural).						
		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	10000	3/4" NPT	1/8" NPT	3165	10,16	151,51

Pneumatic-spring valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.

Output 4	82 50	Exhaust 5
3/4" NPT 7	<u>49</u>	√3/4" NPT
9:211 9:00	06 06 06 06 06 06 06 06 06 06 06 06 06 0	99 99 99 99 99 99 99 99 99 99 99 99 99
-14	□<u></u> □ 	3/4" NPT

	Ordering code
	SS345201101 ①
	TYPE
O	L= Low temperature version
Ĺ	H= High temperature version
	(Ex) SILV

		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	10000	3/4" NPT	1/8" NPT	4345	10,16	151,51

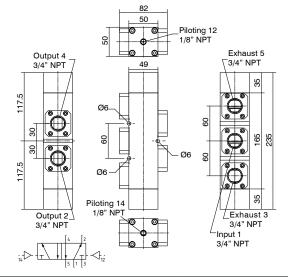
Process automation technology Catalogue

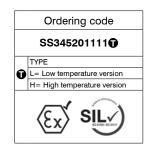
Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

PROCESS AUTOMATION TECHNOLOGY





		Op	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	10000	3/4" NPT	1/8" NPT	4325	10,16	151,51

Valves 1" NPT series Steel line

Stainless steel brand series have been engineered and developed to meet process automation and Oil & Gas severe service requirements, where material performances, product reliability and health and safety issues are critical elements. As a result, Pneumax products are perfectly suitable to work with sweet gas media and corrosive / aggressive gases.

Valves 1" NPT

Series Steel line

All external and internal parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes 3 and 5 ways valves, designed according to the following configuration: pneumatic-spring valve, pneumatic-pneumatic valve. Accessories: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

Pneumax valves have 1" NPT connections with 13500 NI/min maximum flow rate.

This version only provides single mounting.

Construction characteristics

Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	FPM (Fluoroelastomer)
	NBR and PU (Polyurethane) for low temperatures (-50°C) standard
Operating range	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature (for low temperature version L)	-50°C +70°C

-10°C ... +150°C

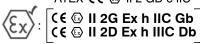
12 bar

Certifications available:

Maximum operating pressure

ATEX **(€** ⓑ II 2 GD c IIC

Operating temperature (for high temperature version H)







Pneumatic-spring valve

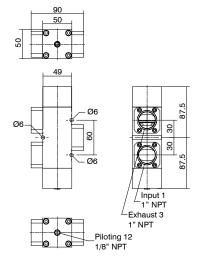


Minimum piloting pressure 3 bar

Maximum piloting pressure 8 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Output 2

105



	Ordering code
	SS1132C1101 ⊕
	TYPE
ø	L= Low temperature version
	H= High temperature version
	EX SILV

Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv			
12	13500	1" NPT	1/8" NPT	3180	13,72	204,54			

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar

Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural)

90	Ordering code
Piloting 10 1/8" NPT	SS1132C11111
	TYPE
49	L= Low temperature version
40	H= High temperature version
Output 2 1" NPT	€x siL√
Piloting 12 1/8" NPT	
r_{12} r_{1} r_{1} r_{1} r_{1} r_{1} r_{1} r_{1} r_{2}	

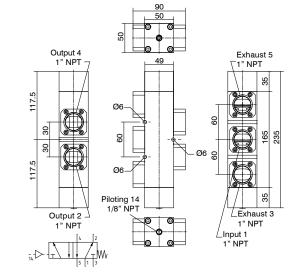
Owect gas (nataral).	wood gas (natural).									
Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv				
12	13500	1" NPT	1/8" NPT	3155	13,72	204,54				

Pneumatic-spring valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid:

Filtered air. No lubrication needed, if applied it shall be continuous.



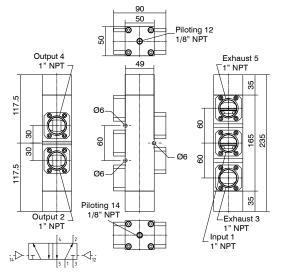
SS115201101 TYPE L= Low temperature version H= High temperature version		Ordering code				
L= Low temperature version		SS115201101				
<u> </u>		TYPE				
H= High temperature version	L= Low temperature version					
EX SILV	Ĺ	H= High temperature version				
		Ex Silver				

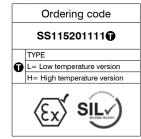
Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv			
12	13500	1" NPT	1/8" NPT	4325	13,72	204,54			

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure 8 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



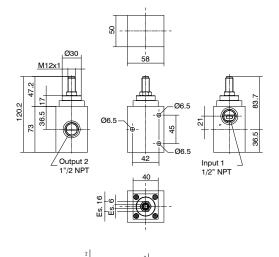


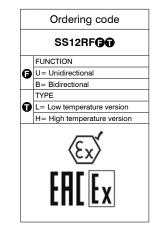
	Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv				
12	13500	1" NPT	1/8" NPT	4305	13,72	204,54				



Flow regulator 1/2" NPT





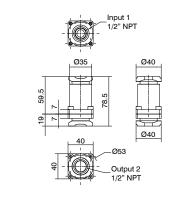


Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered air. No lubrication needed, if applied it shall be continuous.

	Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv			
12	3500	1/2" NPT	1641	3,55	53,03			

Double seal non return valve





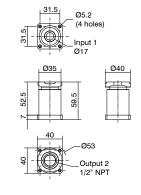
Ordering code SS12VUS TYPE L= Low temperature version H= High temperature version

Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered air. No lubrication needed, if applied it shall be continuous.

Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv			
12	3500	1/2" NPT	444	3,55	53,03			

Double seal non return valve for group





	<u>'</u>					
	Ordering code					
	SS12VUG ⊕					
	TYPE					
o	L= Low temperature version					
Ĺ	H= High temperature version					
	EN Ex					

Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered air. No lubrication needed, if applied it shall be continuous.

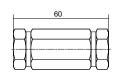
	Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv				
12	3500	1/2" NPT	296	3,55	53,03				

Non return valve 1/4" NPT-F/F AISI 316L HT

Ordering code
SS14VU03SV4N

On request are available versions with temperature range: -55°C ... +150°C







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	Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv
210	680	0,2	0,2	-25 +205	107	0,69	10,30

Non return valve 3/8" NPT-F/F AISI 316L HT

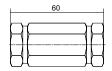
Ordering code





On request are available versions with temperature range: -55°C ... +150°C



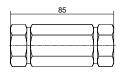




		Operati	onal characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv
210	2020	0,2	0,2	-25 +205	253	2,05	30,60

Non return valve 1/2" NPT-F/F AISI 316L HT







Ordering code	
SS12VU03SV8N	
EX	

On request are available versions with temperature range: -55°C ... +150°C

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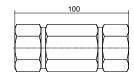
		Operati	onal characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv
210	2650	0,2	0,2	-25 +205	380	2,69	40,15

PROCESS AUTOMATION TECHNOLOGY

Process automation technology Catalogue

Non return valve 3/4" NPT-F/F AISI 316L HT







Ordering code

SS34VU03SV12N

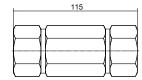


On request are available versions with temperature range: -55°C ... +150°C

		Operation	onal characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv
210	4030	0,2	0,2	-25 +205	577	4,09	61,06

Non return valve 1" NPT-F/F AISI 316L HT







Ordering code	
SS11VU03SV16N	



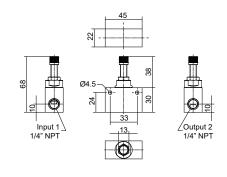
On request are available versions with temperature range: -55° C ... $+150^{\circ}$ C

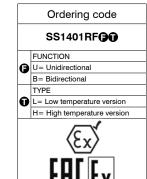
		Operati	onal characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv
210	5500	0,2	0,2	-25 +205	774	5,59	83,33

Flow regulator 1/4" NPT single use







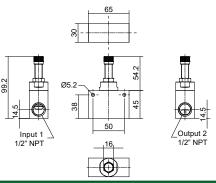


		Operational cl	naracteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Temper	ature °C	Cv	kv
12	700	1/4" NPT	219	-50 +70 (version L)	-10 +150 (version H)	0,71	10,60

Flow regulator 1/2" NPT single use







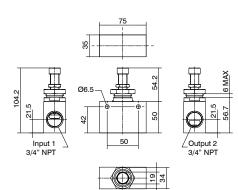
	Ordering code
	SS1201RF@@
	FUNCTION
(3)	U= Unidirectional
_	B= Bidirectional
	TYPE
ø	L= Low temperature version
	H= High temperature version
	EX EH[Ex

		Operational c	haracteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Temper	ature °C	Cv	kv
12	2000	1/2" NPT	634,5	-50 +70 (version L)	-10 +150 (version H)	2,03	30,30

Flow regulator 3/4" NPT single use







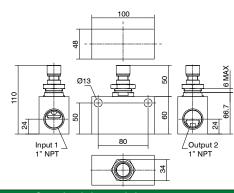
	Ordering code
	SS3401RF @
	FUNCTION
0	U= Unidirectional
	B= Bidirectional
	TYPE
0	L= Low temperature version
	H= High temperature version
	EAL EX

		Operational cl	haracteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Temper	ature °C	Cv	kv
12	2800	3/4" NPT	925	-50 +70 (version L)	-10 +150 (version H)	2,84	42,42

Flow regulator 1" NPT single use







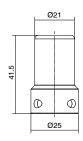
		Operational cl	naracteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Temper	ature °C	Cv	kv
12	3300	1" NPT	2000	-50 +70 (version L)	-10 +150 (version H)	3,35	50

Process automation technology Catalogue

Flow regulator system 1/4" NPT tamper-proof system

Ordering code
SS14RFK



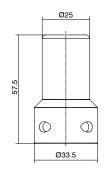


Note: Available for 1/4" NPT flow regulator We suggest using a long shackle padlock: Shackle diameter \leq 4mm The padlock is not supplied with the product. Weicht 40 o

Flow regulator system 1/2" NPT tamper-proof system

Ordering code
SS12RFK

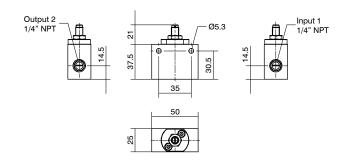


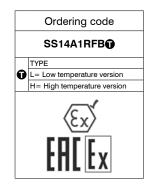


Note: Available for 1/2" NPT flow regulator We suggest using a long shackle padlock: Shackle diameter \leq 5mm The padlock is not supplied with the product. Weight 75 g

Bidirectional flow regulator 1/4" NPT high flow rate







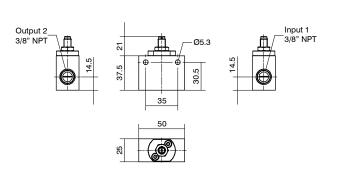
Flow rate with the needle in the fully closed position \sim 20 NI/min

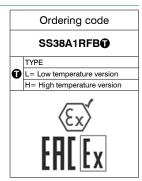


	Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv				
12	2200	1/4" NPT	400	2,23	33,33				

Bidirectional flow regulator 3/8" NPT high flow rate







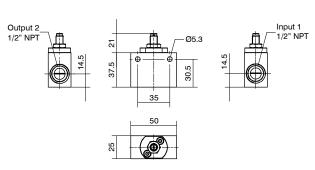
Flow rate with the needle in the fully closed position \sim 20 NI/min

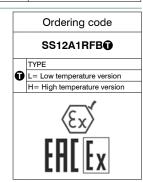


		Operational ch	naracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv
12	3200	3/8" NPT	380	3,25	48,48

Bidirectional flow regulator 1/2" NPT high flow rate







Flow rate with the needle in the fully closed position \sim 20 Nl/min

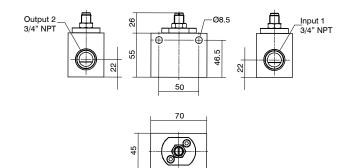


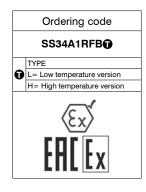
		Operational c	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	6500	1/2" NPT	360	6,60	98,48

Process automation technology Catalogue

Bidirectional flow regulator 3/4" NPT high flow rate







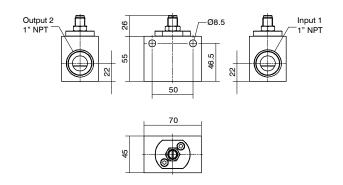
Flow rate with the needle in the fully closed position \sim 40 NI/min

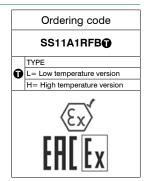


Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv			
12	15000	3/4" NPT	1300	15,24	227,27			

Bidirectional Flow regulator 1" NPT high flow rate







Flow rate with the needle in the fully closed position \sim 70 NI/min

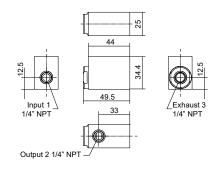


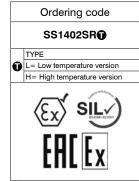
		Operational cl	haracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	16500	1" NPT	1150	16,76	250

Quick exhaust valve 1/4" NPT







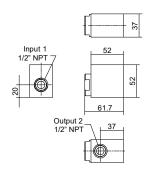


				Operational charac	teristi	cs				
Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Connections	Temper	ature °C	Weight (g)
12	700	0,71	10,60	2700	2,74	40,9	1/4" NPT	-50 +70 (version L)	-10 +150 (version H)	250

Quick exhaust valve 1/2" NPT







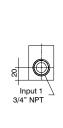
	Ordering code
	SS1202SR ⊕
	TYPE
ø	L= Low temperature version
Ĺ	H= High temperature version
	EX SILY

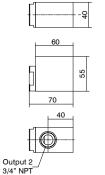
Operational characteristics										
Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Connections	Temper	ature °C	Weight (g)
12	2000	2,03	30,30	7150	7,26	108,33	1/2" NPT	-50 +70 (version L)	-10 +150 (version H)	617,5

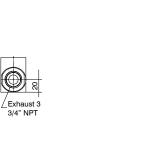
Quick exhaust valve 3/4" NPT











Exhaust 3 1/2" NPT

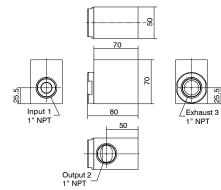
	Ordering code
	SS3402SR ⊕
	TYPE
ø	L= Low temperature version
	H= High temperature version
	EX SILY EHLEX

Operational characteristics										
Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)					Weight (g)				
12	3000	3,04	45,45	10000	10,16	151,51	3/4" NPT	-50 +70 (version L)	-10 +150 (version H)	745

Quick exhaust valve 1" NPT







	0.1.1
	Ordering code
	SS1102SR ⊕
	TYPE
ø	L= Low temperature version
	H= High temperature version
	EX SILY EHLEX

Operational characteristics											
	Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Connections	Temper	ature °C	Weight (g)
	12	5000	5,08	75,75	18000	18,29	272,72	1" NPT	-50 +70 (version L)	-10 +150 (version H)	1365



Series SA - aluminium

PREUMAX Catalogue

Process automation technology

PNEUMAX, worldwide recognized leader in industrial automation, provide a wide range of solutions and components for the process automation industry. Application oriented production and long-term experience in wide range applications makes Pneumax a reliable partner capable to assist the customers since the very beginning of project execution.

General

Brand aluminum valve series has been developed in compliance with the latest and most technologically advance testing and prototyping methodologies, to secure top performances and reliability. The widest product selection and configuration makes Pneumax aluminum valve a proper selection for both Grass Roots Plants execution and Plant retrofiting / upgrading.

Main industries served are Chemical, Petrochemical, Power Generation and Oil & Gas.

All external and internal parts are aluminum material.

The range includes balanced spool valves with 3 and 5 way function valves, with the following functions available: pneumatic-spring valve, pneumatic-pneumatic valve, 2 position push-pull valve (only for 1/4" NPT version), push button-spring valve (only for 1/4" NPT version), push button-pneumatic return valve (only for 1/4" NPT version).

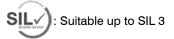
Accessories which include: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

1/8" NPT pilot connection.

Working port size	Flow at 6 bar with $\Delta p=1$ (NI/min)
1/4" NPT	1360
1/2" NPT	2500
1" NPT	6500
Construction characteristics	
Body	Aluminium
Operators	Aluminium
Spacers	Aluminium
Spool	AISI 303 stainless steel
Spring	AISI 302 stainless steel
Screws	Stainless steel
Seals	NBR for low temperature (-30°C)
Operating range	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
	Inert Gas.
	Sweet gas (natural).
Operating temperature	-30°C +70°C
Maximum operating pressure	12 bar

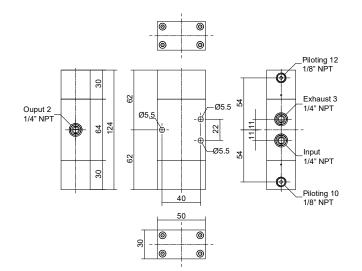
Certifications available:





Pneumatic-Pneumatic





Ordering code
SA1432C1111L

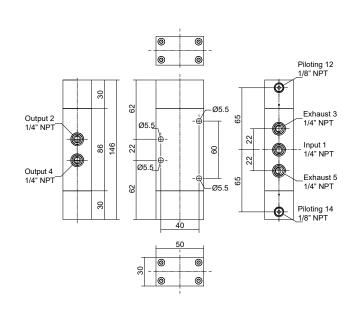


Minimum piloting pressure 2 bar

			haracteristics						
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	470	1,38	20,60

Pneumatic-Pneumatic





Ordering code

SA145201111L



Minimum piloting pressure 2 bar

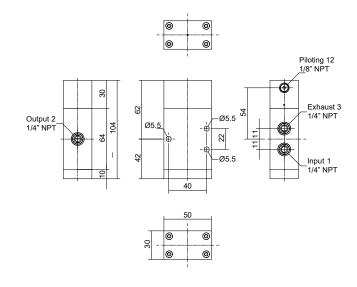
Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	550	1,38	20,60



Pneumatic-Spring







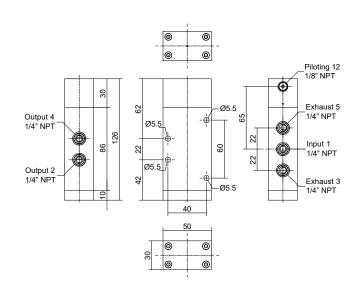
-12 W

Minimum piloting pressure 2,5 bar

Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	394	1,38	20,60

Pneumatic-Spring





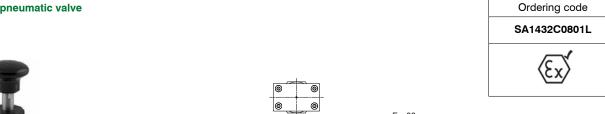




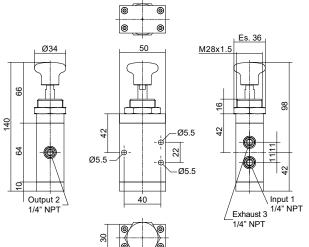
Minimum piloting pressure 2,5 bar

Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	475	1,38	20,60

Push button-pneumatic valve







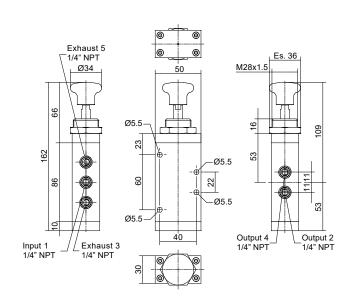


Operating force 71,5N

			teristics						
Fluid Maximum Temperature °C working pressure (bar)			Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Weight (g)	Cv	kv	
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	405	1,38	20,60	

Push button-pneumatic valve





Ordering code	
SA145200801L	
⟨£x⟩	



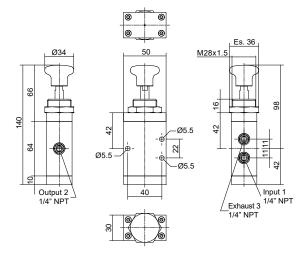
Operating force 71,5N

Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	487	1,38	20,60



Bistable push button valve





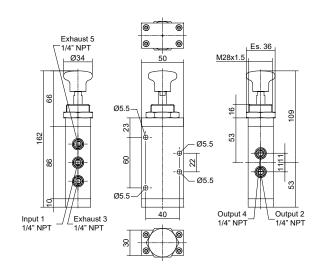
Ordering code
SA1432C0803L

Operating force 105N

Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Temperature °C Flow rate at 6 bar with Δp=1 (NI/min) Orifice size (mm)			Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	395	1,38	20,60

Bistable push button valve





Ordering code
SA145200803L

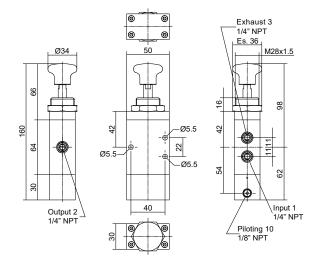


Operating force 105N

	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Weight (g)	Cv	kv	
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	483	1,38	20,60	

Push button-pneumatic valve





Ordering code
SA1432C0811L

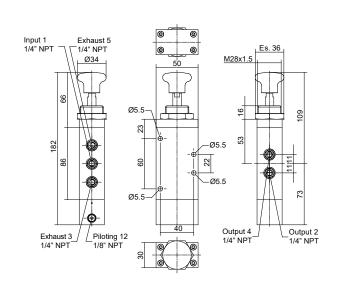


Minimum piloting pressure 2 bar

			Operational cl	naracteristics					
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	481	2,54	37,88

Push button-pneumatic valve





Ordering code
SA145200811L

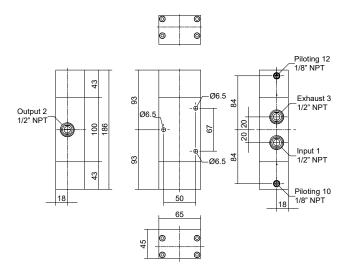


Minimum piloting pressure 2 bar

	Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv	
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	561	2,54	37,88	

Pneumatic-Pneumatic





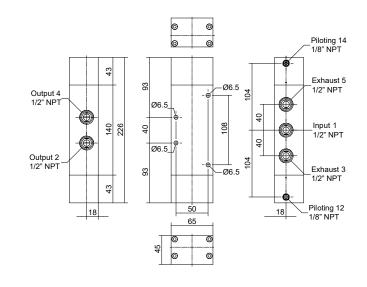
Ordering code SA1232C1111L

Minimum piloting pressure 2 bar

	Operational characteristics										
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv		
Filtered and lubricated air	12	-30 +70	2500	15	1/2" NPT	1/8" NPT	1360	2,54	37,88		

Pneumatic-Pneumatic





Ordering code SA125201111L

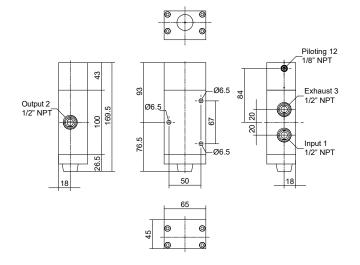


Minimum piloting pressure 2 bar

	Operational characteristics									
Fluid	Fluid Maximum Working pressure (bar) Temperature °C Flow rate at 6 bar with Δp=1 (NI/min) Orifice size (mm) Working port size Pilot connections Weight (g) Cv kv									
Filtered and lubricated air	12	-30 +70	2500	15	1/2" NPT	1/8" NPT	1660	2,54	37,88	

Pneumatic-Spring





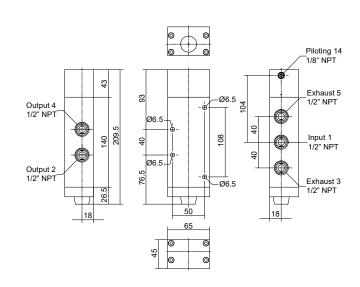
Ordering code
SA1232C1101L

Minimum piloting pressure 2,5 bar

	Operational characteristics Operational characteristics									
F	·luid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
	red and cated air	12	-30 +70	2500	15	1/2 NPT	1/8" NPT	1135	2,54	37,88

Pneumatic-Spring





Ordering code
SA125201101L

EX
SILV

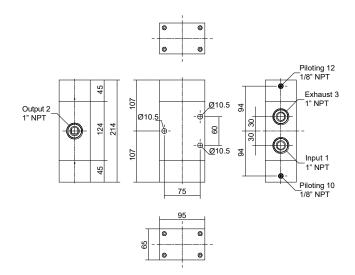


Minimum piloting pressure 2,5 bar

	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	2500	15	1/2" NPT	1/8" NPT	1430	2,54	37,88

Pneumatic-Pneumatic





Ordering code

SA1132C1111L

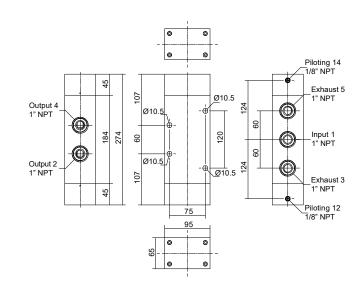


Minimum piloting pressure 2 bar

	Operational characteristics											
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv			
Filtered and lubricated air	12	-30 +70	6500	20	1" NPT	1/8" NPT	3315	6,60	98,48			

Pneumatic-Pneumatic







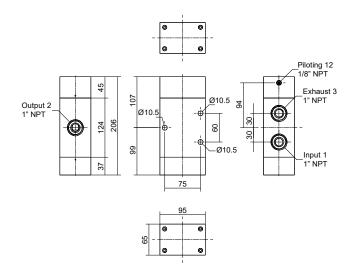


Minimum piloting pressure 2 bar

	Operational characteristics									
Fluid	Fluid Maximum Temperature °C Flow rate at 6 bar working pressure (bar) Temperature °C with Δp=1 (NI/min) Orifice size (mm) Working port size Pilot connections Weight (g) Cv kv									
Filtered and lubricated air	12	-30 +70	6500	20	1" NPT	1/8" NPT	4220	6,60	98,48	

Pneumatic-Spring







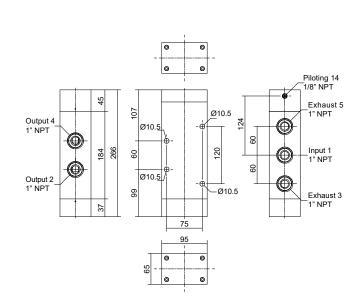
12 T 1 3 W

Minimum piloting pressure 2,5 bar

			Operational c	Operational characteristics										
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv					
Filtered and lubricated air	12	-30 +70	6500	20	1" NPT	1/8" NPT	3225	6,60	98,48					

Pneumatic-Spring





Ordering code
SA115201101L







Minimum piloting pressure 2,5 bar

	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	6500	20	1" NPT	1/8" NPT	4130	6,60	98,48

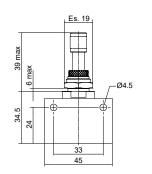
Flow regulator 1/4" NPT

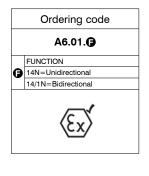
Catalogue





Process automation technology





		Operationa	l characteristics				
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv
Filtered air	12	900	7	-30 +70	102	0,91	13,63

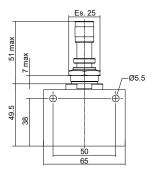
Flow regulator 1/2" NPT

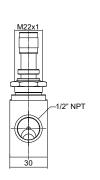
PROCESS AUTOMATION TECHNOLOGY











M16x1.5

-1/4" NPT

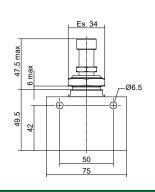
	Ordering code						
A6.01. (3							
Ð	FUNCTION 12N=Unidirectional						
	12/1N=Bidirectional						

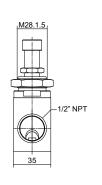
Operational characteristics										
Fluid Maximum working pressure (bar)		Flow rate at 6 bar with $\Delta p = 1$ (NI/min) Orifice size (mm)		Temperature °C	Weight (g)	Cv	kv			
Filtered air	12	2000	12	-30 +70	276	2,03	30,30			

Flow regulator 3/4" NPT - Unidirectional









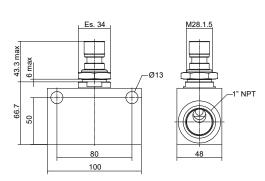
Ordering code	
A6.01.34	
(Ex)	

	Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv		
Filtered air	12	2800	12	-30 +70	482	2,84	42,42		

Flow regulator 1" NPT - Unidirectional





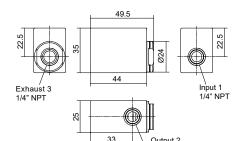


Ordering code
A6.01.11
⟨£x⟩

Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv	
Filtered air	12	3300	14	-30 +70	874	3,35	50	

Quick exhaust valve 1/4" NPT





Out de la carda							
Ordering code							
A6.02.14							
⟨£x⟩							

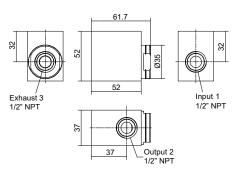


	Operational characteristics								
Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Temperature °C	Weight (g)
Filtered air	0,5 10	500	0.50	0.75	2500	2,54	37,87	-30 +70	112

Quick exhaust valve 1/2" NPT







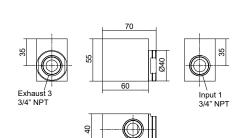
Ordering code
A6.02.12
⟨£x⟩

Operational characteristics									
Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Temperature °C	Weight (g)
Filtered air	0,5 10	1500	1,52	22,72	6000	6,10	90,90	-30 +70	310

Quick exhaust valve 3/4" NPT







_Output 2 3/4" NPT

Ordering code
A6.02.34
(EX)

Operational characteristics									
Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Temperature °C	Weight (g)
Filtered air	0,5 10	3000	3,04	45,45	10000	10,16	151,51	-30 +70	400

Quick exhaust valve 1" NPT





	80	
Exhaust 3 1" NPT	70 Input 1 1" NPT	

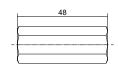
Ordering code
A6.02.11
⟨£x⟩

Operational characteristics									
Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Temperature °C	Weight (g)
Filtered air	0,5 10	5000	5,08	75,75	18000	18,29	272,72	-30 +70	670



Non return valve 1/4" NPT







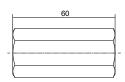
Ordering code	
A6.07.14	



Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Temperature °C	Weight (g)	Cv	kv		
Filtered and lubricated air	12	1450	-30 +70	59	1,47	21,97		

Non return valve 1/2" NPT







Ordering code
Grading code
A6.07.12
⟨£x⟩



Operational characteristics							
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Temperature °C	Weight (g)	Cv	kv	
Filtered and lubricated air	12	3500	-30 +70	139	3,55	53,03	

Non return valve 3/4" NPT







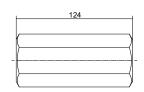
Ordering code
A6.07.34
⟨£x⟩

Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Temperature °C	Weight (g)	Cv	kv		
Filtered and lubricated air	12	6250	-30 +70	564	6,35	94,69		

Non return valve 1" NPT









Ordering code
A6.07.11
⟨£x⟩

Operational characteristics							
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Temperature °C	Weight (g)	Cv	kv	
Filtered and lubricated air	12	9500	-30 +70	1502	9,65	143,94	

Valves poppet system 1/2" NPT - 3/4" NPT - 1" NPT 1 1/2" NPT series SA - aluminium

Pneumax poppet valves are excellent solution for application that requires high flow rates figures. Engineered and designed 3/2 configuration, normally closed and normally open, pneumatic-spring return execution. When used for compressed air, functionality is similar to spool valves.

Construction characteristics

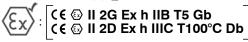
Body	Aluminium	
End covers	Aluminium	
Actuators	NBR	
Pistons	POM	
Actuator rod	Stainless steel	
Springs	Stainless steel	
Seals	NBR	

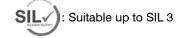
Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas (natural).
Operating temperature	-30°C +70°C
Maximum operating pressure	12 bar

Certifications available:

ATEX **(€ ⓑ** II 2 GD c IIB T5 T100°C

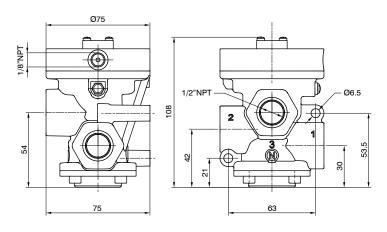




PNEUNAX

Pneumatic-Spring - 1/2" NPT





Ordering code

SA772321101

FUNCTION

C= Normally Closed

A= Normally Open

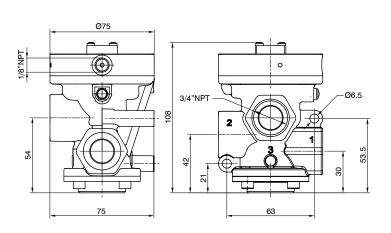
Normally closed Minimum piloting pressure 2,5 bar



Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	4800	15	1/2" NPT	1/8" NPT	4,88	72,72	1100

Pneumatic-Spring - 3/4" NPT





	Ordering code					
	SA773321101 @					
	FUNCTION					
0	C= Normally Closed					
	A= Normally Open					
	EX SILY					

Normally closed Minimum piloting pressure 2,5 bar

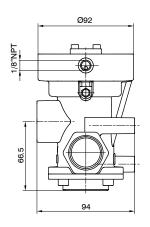


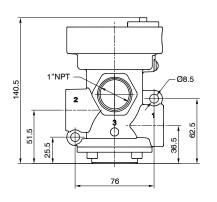


Operational characteristics									
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	6100	20	3/4" NPT	1/8" NPT	6,20	92,42	1050

Pneumatic-Spring - 1" NPT

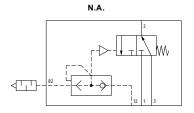








N.C.

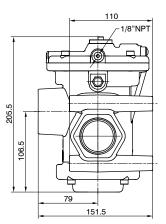


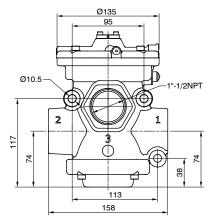
Normally closed Minimum piloting pressure 2,5 bar

			Operational cl	naracteristics					
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	12000	25	1" NPT	1/8" NPT	12,19	181,81	1050

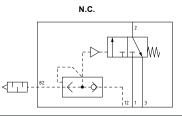
Pneumatic-Spring - 1 1/2" NPT

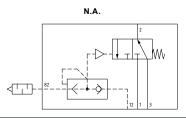






	Ordering code		
SAN77632110			
	FUNCTION		
0	1 = Normally Closed		
	1A= Normally Open		
	€x siL√		





Normally closed Minimum piloting pressure 3 bar

	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	33500	38	1 1/2" NPT	1/8" NPT	34,04	507,57	3550

Valves and solenoid valves with "Namur" interface series 514 High Performance

General

The valves 514 series are designed with interface connections in compliance with NAMUR standards.

The range includes 5/2 and 4/2 versions with pneumatic or electric actuation and with NPT or BSPT connections.

This series is classified for use in potentially explosive atmospheres (Directive 2014/34/EU).

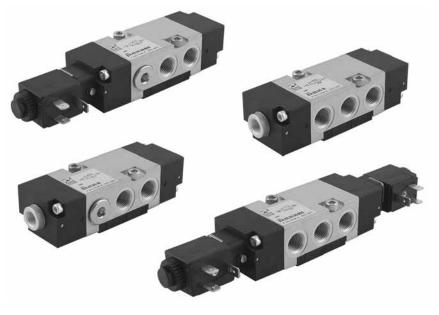
NAMUR valves have been designed to guarantee flexibility and an increased flow rate capacity exceeding that of traditional spool valves. Innovative materials guarantee high performances also in critical environment conditions.

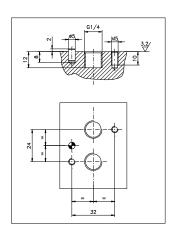
The solenoid valves are available with protection classes for zones 2-22, 1-21 solenoids Ex nA, Ex mb, Ex ia, international approvals IECEx, FM and CSA

Note:

"Although accurately described, the 4/2 valve actually functions as a 3/2 normally closed valve and should be used as such."

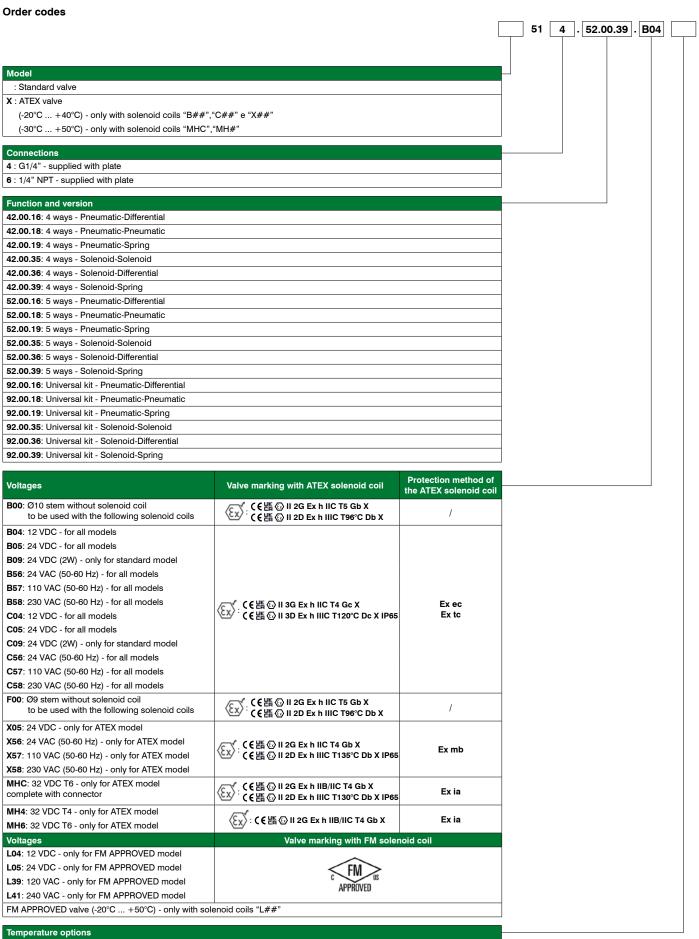
NAMUR interface dimensions: according to standard (VDI/VDE 3847 July 2003)





Construction characteristics

Body	Aluminium
Spacers	Technopolymer
Seals	Nitrile rubber
Springs	Stainless steel Stainless steel
Operators	Technopolymer
Spools	Steel
Screws	Zinc coated steel / Stainless steel



Example: 514.52.00.39.B04: Standard valve, G1/4" connections supplied with plate, solenoid-spring 5 ways, 12 VDC solenoid coil

: Standard valve (-10°C ... +50°C) LT: Low temperature (-30°C ... +50°C)

Pneumatic-Differential

Operational characteristics				
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.			
Maximum working pressure (bar)	10	-		
Temperature °C	See order codes page			
Flow rate at 6 bar with Δp=1 (NI/min)	1100			
Orifice size (mm)	8	L		
Working port size	G 1/4" - 1/4" NPT			
Cv	1,11	1		
kv	16,66			

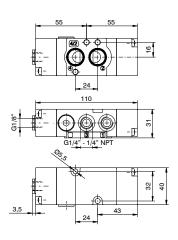
Ordering code: **Ø**51**⊚**.**⊕**.00.16**⊚**

		MODEL
	Ø	= Standard valves
		X = ATEX valves
		CONNECTIONS
_	Θ	4 = G1/4"
7		6 = 1/4" NPT
		FUNCTION
_	•	42 = 4 ways
		52 = 5 ways
		TEMPERATURE OPTION

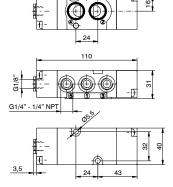
See order codes page

Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m



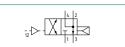








Weight 240 g



Ø51**@**.52.00.16**⊚**

Weight 235 g



Pneumatic-Pneumatic

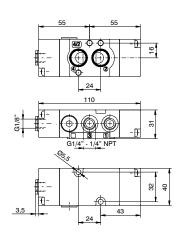
Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be continuous.		
Maximum working pressure (bar)	10	
Temperature °C	See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100	
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

Ordering code: **Ø**51**⊚**.**₽**.00.18**⊚**

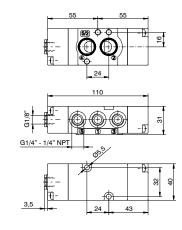
		MODEL
	0	= Standard valves
		X = ATEX valves
		CONNECTIONS
	Θ	4 = G1/4"
		6 = 1/4"NPT
		FUNCTION
	•	42 = 4 ways
		52 = 5 ways
		TEMPERATURE OPTION
		See order codes page

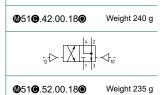
Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m













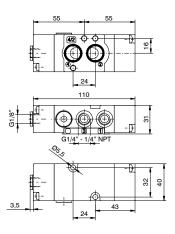
Pneumatic-Spring

Catalogue

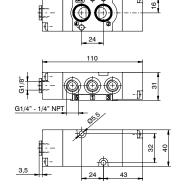
Operational characteristics			MODEL
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.	0	= Standard valves
Maximum working pressure (bar)	10		X = ATEX valves
Temperature °C	See order codes page		CONNECTIONS
Flow rate at 6 bar with Δp=1 (NI/min)	1100	Θ	4 = G1/4"
Orifice size (mm)	8		6 = 1/4"NPT
Working port size	G 1/4" - 1/4" NPT		FUNCTION
Cv	1,11	•	42 = 4 ways
kv	16,66		52 = 5 ways
		•	TEMPERATURE OPTION
			See order codes page



Process automation technology

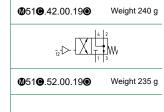






Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m

Ordering code: **Ø**51**⑤**.**②**.00.19**③**



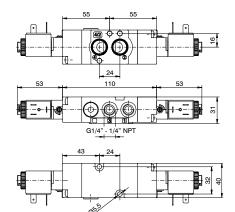


Solenoid-Solenoid

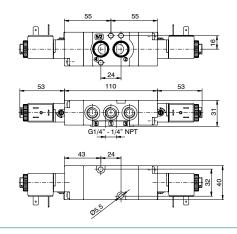
,		
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.	
Maximum working pressure (bar)	10	
Temperature °C	See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100	
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16.66	

Ordering code: **10.00.35.00**

		MODEL	
	Ø	= Standard valves	
		X = ATEX valves	
		CONNECTIONS	
	Θ	4 = G1/4"	
		6 = 1/4"NPT	
		FUNCTION	
	•	42 = 4 ways	
	1	52 = 5 ways	
		VOLTAGE	
	v	See order codes page	
	•	TEMPERATURE OPTION	
		See order codes page	
	Minin	num nilot pressure 2.5 har	







Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m



№51**©**.52.00.35.**1©** Weight 405 g



Solenoid-Differential

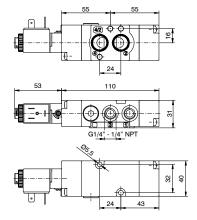
Operational characteristics		
Filtered air. No lubrication needed, if applied it shall be continuous.		
10		
See order codes page		
1100		
8		
G 1/4" - 1/4" NPT		
1,11		
16,66		
	Filtered air. No lubrication needed, if applied it shall be continuous. 10 See order codes page 1100 8 6 G 1/4" - 1/4" NPT 1,11	

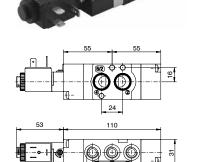


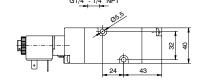
		MODEL	
	(= Standard valves	
		X = ATEX valves	
		CONNECTIONS	
_	Θ	4 = G1/4"	
7		6 = 1/4" NPT	
		FUNCTION	
	•	42 = 4 ways	
		52 = 5 ways	
	a	VOLTAGE	
	v	See order codes page	
		TEMPERATURE OPTION See order codes page	
	•		

Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m

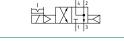










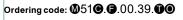


№51**©**.52.00.36.**1©** Weight 325 g



Pneumatic-Spring

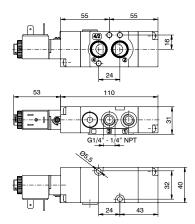
Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.	
Maximum working pressure (bar)	10	
Temperature °C	See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100	
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	



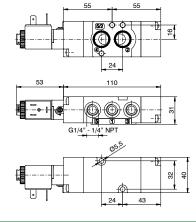
		MODEL	
	0	= Standard valves	
		X = ATEX valves	
		CONNECTIONS	
	Θ	4 = G1/4"	
		6 = 1/4" NPT	
		FUNCTION	
	•	42 = 4 ways	
		52 = 5 ways	
	_	VOLTAGE	
	Ū	See order codes page	
		TEMPERATURE OPTION	
	•	See order codes page	
	Minin	imum pilot pressure 2,5 bar	

Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m











№51**©**.52.00.39.**1⊚** Weight 325 g



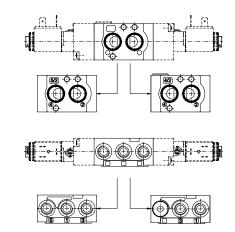


Process automation technology Catalogue

Universal kit

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.	
Maximum working pressure (bar)	10	
Temperature °C	See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100	
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	





Ordering code: **0**51**6**.92.00.**0**.**10**

		MODEL	
	0	= Standard valves	
		X = ATEX valves	
		CONNECTIONS	
_	Θ	4 = G1/4"	
		6 = 1/4"NPT	
		VERSION	
		16 = Pneumatic - Differential	
		18 = Pneumatic - Pneumatic	
	Ø	19 = Pneumatic-Spring	
		35 = Solenoid - Solenoid	
		36 = Solenoid - Differential	
		39 = Solenoid - Spring	
	0	VOLTAGE	
	U	See order codes page	
	•	TEMPERATURE OPTION	
	•	See order codes page	
	Minin	num pilot pressure 2.5 bar	

Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m

To change a 5/2 valve into a 4/2: Simply replace the bottom plate with the one included in the universal kit (cod. 514.92...) and by plugging port 5

Ø51**②**.92.00.**② ● ③** Weight 405 g



Valves and solenoid valves with "Namur" interface series 515 High Performance

General

The valves 515 series are designed with interface connections in compliance with **NAMUR** standards.

The range includes 5/2 version with pneumatic or electric actuation and with NPT or BSPT connections.

This series is classified for use in potentially explosive atmospheres (Directive 2014/34/EU).

NAMUR valves have been designed to guarantee flexibility and an increased flow rate capacity exceeding that of traditional spool valves. Innovative materials guarantee high performances also in critical environment conditions.

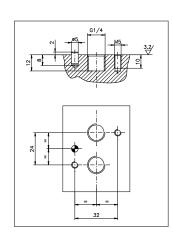
The solenoid valves are available with protection classes for zones 2-22, 1-21 solenoids Ex ec, Ex mb, Ex ia, international approvals IECEx, FM and CSA.

ATTENTION:

It differs from version 514 because it is supplied without plate.

NAMUR interface dimensions: according to standard (VDI/VDE 3847 July 2003)

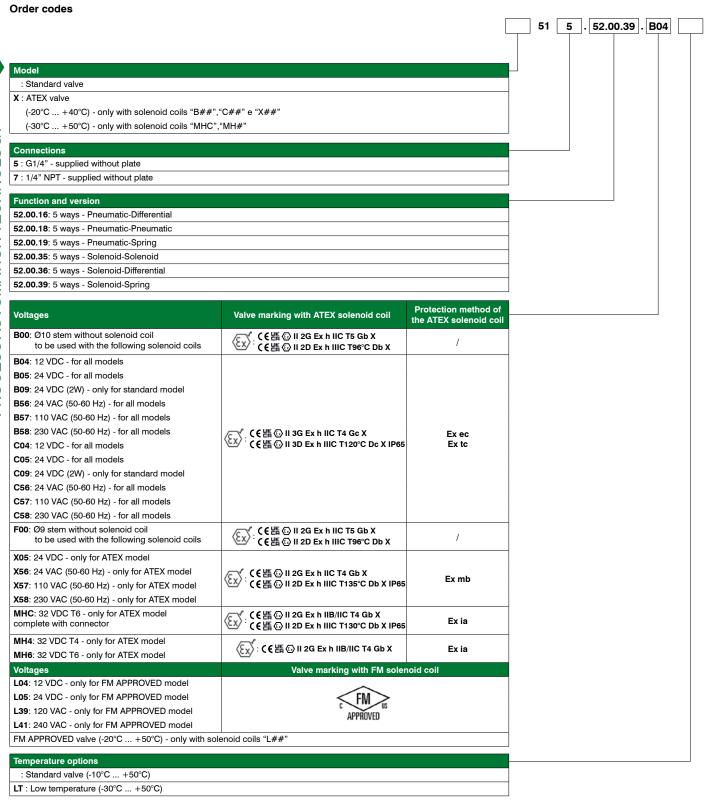




Construction characteristics

Body	Aluminium
Spacers	Technopolymer
Seals	Nitrile rubber
Springs	Stainless steel
Operators	Technopolymer
Spools	Steel
Screws	Zinc coated steel / Stainless steel





Example: 515.52.00.39.B04: Standard valve, G1/4" connections supplied without plate, solenoid-spring 5 ways, 12 VDC solenoid coil

Pneumatic-Differential

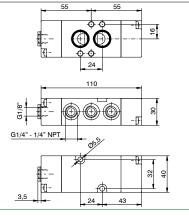
Operational characteristics	
Fluid Filtered air. No lubrication needed, if applied it shall be continuous.	
Maximum working pressure (bar)	10
Temperature °C See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100
Orifice size (mm)	8
Working port size	G 1/4" - 1/4" NPT
Cv 1,11	
kv	16,66

	0	MODEL
		= Standard valves
		X = ATEX valves
		CONNECTIONS
	•	5 = G1/4"
		7 = 1/4" NPT
	•	TEMPERATURE OPTION
		See order codes page

Ordering code: $\$51 \bigcirc .52.00.16 \bigcirc$



Weight 245 g Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m





Pneumatic-Pneumatic

Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be continuous.		
Maximum working pressure (bar)	10	
Temperature °C	See order codes page	
Flow rate at 6 bar with Δp=1 (NI/min)	1100	
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

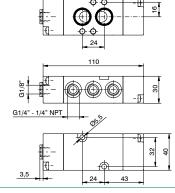
Ø	MODEL
	= Standard valves
	X = ATEX valves
	CONNECTIONS

Ordering code: $\bigcirc 51\bigcirc .52.00.18\bigcirc$

5 = G1/4* 7 = 1/4" NPT TEMPERATURE OPTION See order codes page



Weight 245 g Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m





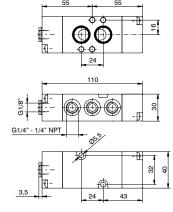
Pneumatic-Spring

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
Maximum working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (NI/min)	1100
Orifice size (mm)	8
Working port size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

Ordering code: 1 51 6 .52.00.19			
		MODEL	
1	Ø	= Standard valves	
7		X = ATEX valves	
1		CONNECTIONS	
1	•	5 = G1/4"	
7		7 = 1/4" NPT	
	0	TEMPERATURE OPTION	
	•	See order codes page	



Weight 245 g Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m







Process automation technology Catalogue

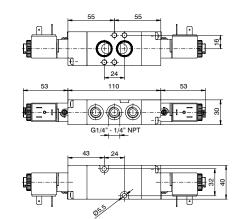
Solenoid-Solenoid

Ordering code: **Ø**51**©**.52.00.35**©**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
Maximum working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with ∆p=1 (NI/min)	1100
Orifice size (mm)	8
Working port size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

	•	MODEL
		= Standard valves
7		X = ATEX valves
٦		CONNECTIONS
	Θ	5 = G1/4"
7		7 = 1/4" NPT
	Û	VOLTAGE
	U	See order codes page
		TEMPERATURE OPTION
	•	See order codes page





Weight 415 g Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m

Ordering code: $\$051 \bigcirc .52.00.36$

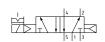
Solenoid-Differential

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
Maximum working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with ∆p=1 (NI/min)	1100
Orifice size (mm)	8
Working port size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

Ø	MODEL
	= Standard valves
	X = ATEX valves
	CONNECTIONS
•	5 = G1/4"
	7 = 1/4" NPT
Ū	VOLTAGE
	See order codes page
•	TEMPERATURE OPTION
	See order codes page



Weight 330 g
Minimum pilot pressure 2,5 bar
Maximum fittings torque 9 N/m



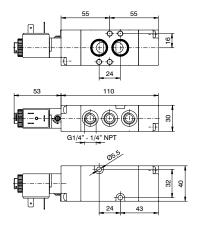
Solenoid-Spring

Operational characteristics		
Fluid Filtered air. No lubrication needed, if applied it shall be continuous.		
Maximum working pressure (bar)	10	
Temperature °C See order codes page		
Flow rate at 6 bar with Δp=1 (NI/min) 1100		
Orifice size (mm)	8	
Working port size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv 16,66		

	Ordering code: Ø 51 © .52.00.39 € ©			
		MODEL		
	Ø	= Standard valves		
\neg		X = ATEX valves		
		CONNECTIONS		
	Θ	5 = G1/4"		
		7 = 1/4" NPT		
	Ū	VOLTAGE		
		See order codes page		
		TEMPERATURE OPTION		

See order codes page





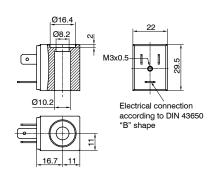
Weight 330 g Minimum pilot pressure 2,5 bar Maximum fittings torque 9 N/m



PREUNAX

Solenoid coil 22 mm Ø10, type MB





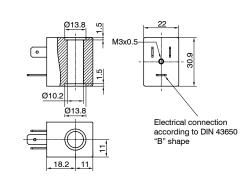
	Ordering code		
MB⊕			
	VOLTAGE		
	4= 12 VDC		
	5= 24 VDC		
ø	9= 24 VDC (2W)		
	56= 24 VAC (50-60 Hz)		
	57= 110 VAC (50-60 Hz)		
	58= 230 VAC (50-60 Hz)		
	EAC		

Operational characteristics				
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)
F	±10%	IP65	DIN43650 B industrial	53

Solenoid coil 22 mm Ø10, type XMB



((: G II 3 G Ex ec IIC Gc ((: G II 3 D Ex tc IIIC Dc IP65

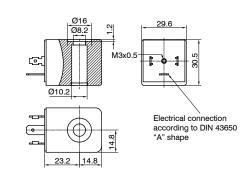


Ordering code				
XMB❶				
	VOLTAGE			
	4= 12 VDC			
0	5= 24 VDC			
v	56= 24 VAC (50-60 Hz)			
	57= 110 VAC (50-60 Hz)			
	58= 230 VAC (50-60 Hz)			
	€X EH[

Operational characteristics					
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)	
F	±10%	IP65	DIN43650 B industrial	54	

Solenoid coil 30 mm Ø10, type MC



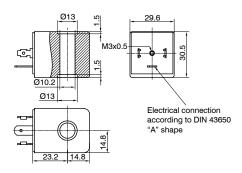


	MCT
	VOLTAGE
	4= 12 VDC
	5= 24 VDC
Ū	9= 24 VDC (2W)
	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)
	ERE

Operational characteristics				
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)
F	±10%	IP65	DIN43650 A	113

Solenoid coil 30 mm Ø10, type XMC





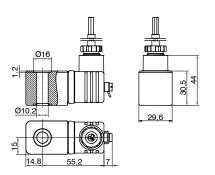
	Ordering code
	XMC ⊕
	VOLTAGE
	4= 12 VDC
ø	5= 24 VDC
U	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)
	EX EHI

Operational characteristics					
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)	
F	±10%	IP65	DIN43650 A	117	

Solenoid coil 30 mm Ø10, type XME



((器 ⑤ II 2 G Ex mb IIC T4 Gb ((器 ⑥ II 2 D Ex mb IIIC T135°C Db IP65



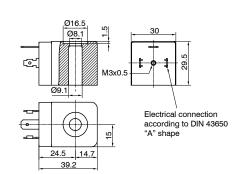
	Ordering code				
	XME ⊕ -3				
	VOLTAGE				
	5= 24 VDC				
Û	56= 24 VAC (50-60 Hz)				
	57= 110 VAC (50-60 Hz)				
	58= 230 VAC (50-60 Hz)				
	Ex IECEX				

Operational characteristics				
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)
Н	±10%	IP65	Cavo 3 mt.	325

Solenoid coil 30 mm Ø9, type XMHB EX ia



C € 器 ⑤ II 2 G Ex ia IIB/IIC T6/T4 Ga



29.5

30

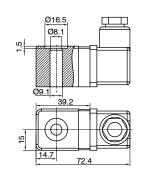
Ordering code				
ХМНВФ				
	VOLTAGE			
0	4= 32 VDC T4			
	6= 32 VDC T6			



Operational characteristics					
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)	
F	±10%	IP65	DIN43650 A	111	

Solenoid coil 30 mm Ø9, type XMHC EX ia 32 VDC T6





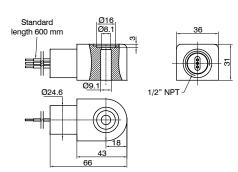
Ordering code
хмнс
⟨£x⟩

Operational characteristics						
Class of insulation	Tolerance on voltage	IP Rating	Weight (g)			
F	±10%	IP65	136			

Solenoid coil 36 mm Ø9, type ML FM APPROVED



Class I, Division 2, Groups A, B, C, D, T4, Ta=60°C Suitable for Class II, III, Division 2, Groups E, F, G, T4, Ta=60°C hazardous (classified) locations.

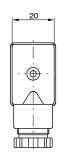


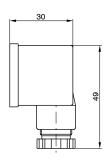
	Ordering code
	ML
	VOLTAGE
Û	4= 12 VDC
	5= 24 VDC
	39= 120 VAC
	41= 240 VAC
	C FM us APPROVED

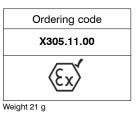
Operational characteristics				
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection (mm)	Weight (g)
Н	±10%	IP65	600	150

Connector 22 mm ATEX DIN43650 B industrial



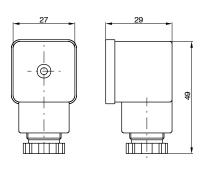


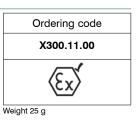




Connector 30 mm ATEX DIN43650 A

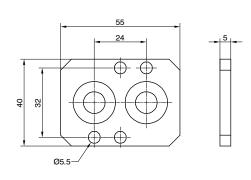






30 mm solenoid base adaptor





Ordering code

514.05

Weight 25 g



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