



PROCESS AUTOMATION TECHNOLOGY

CATALOGUE



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 **26 companies**, with **over 850 employees worldwide**.

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

The desire to provide the service and specific application skills has led to the creation of 3 business units, dedicated to Industrial Automation, Process Automation and Automotive sector.



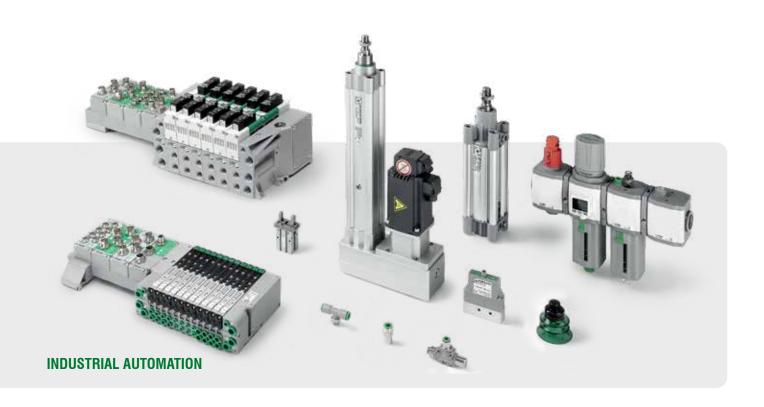
Pneumatic technology

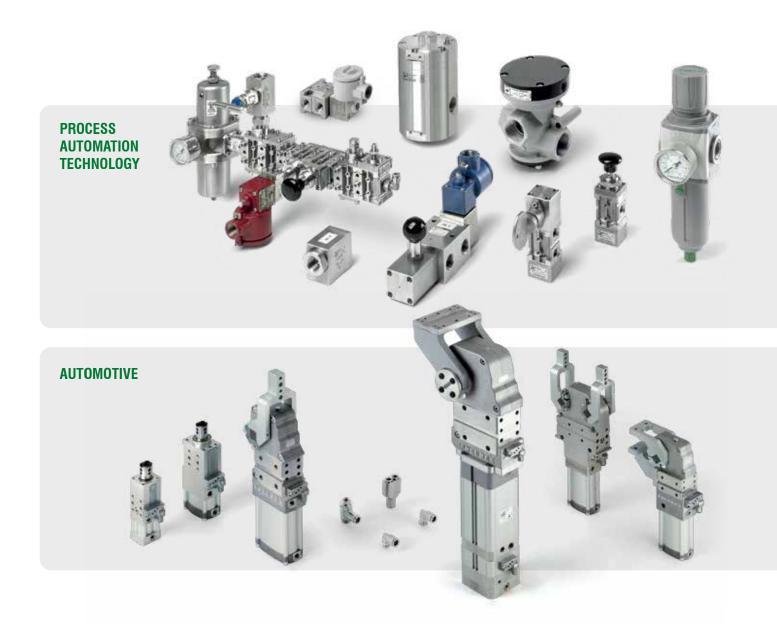


Electric actuation



Fluid control





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.

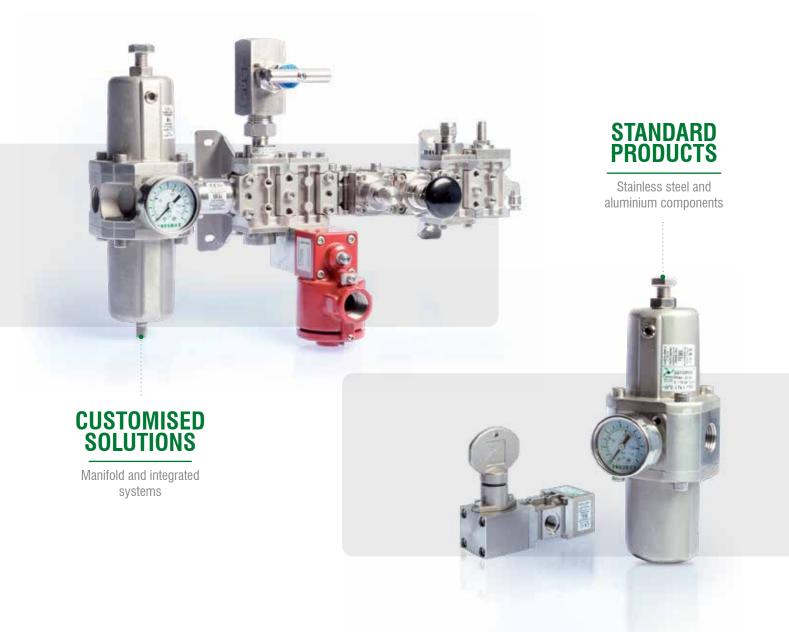


Process automation technology

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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Process automation technology

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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 CE 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

whether pulsing inlet pressure occur.

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

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.



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

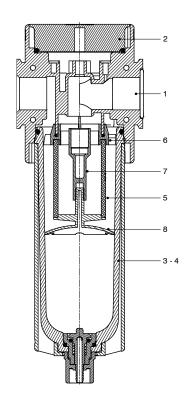
In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6mm fitting and tube.

	Technical characteristics								
5	Size	Size 2	Size 2 Size 3						
Body and connecti	ions 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	S	Vertical ±5°							
Filter pore size		$5\mu{ m m}$ 20 $\mu{ m m}$ 50 $\mu{ m m}$							
Bowl capacity		34 cm ³	68 cm ³	90 cm ³					
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	al	Automatic				
Maximum working pressure	20 ba	ar (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	-30°C +8	+50°C (technopolymer b 30°C (only for P version and 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

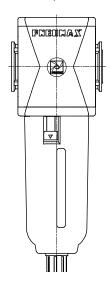
Materials



	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

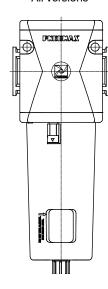
Size 2 - Size 3 Protection / Metal bowl



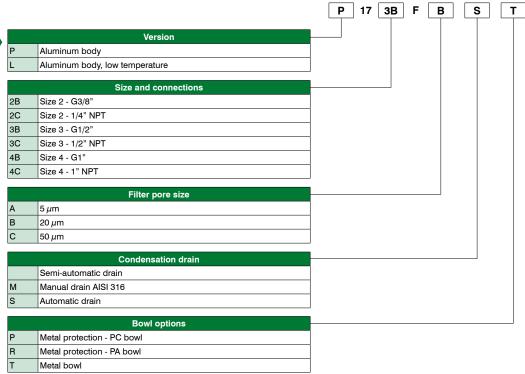
Size 4 All versions

Air service units

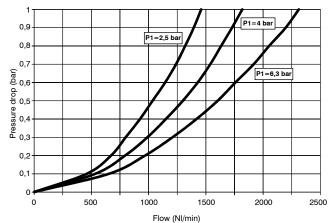
Series Airplus - aluminium

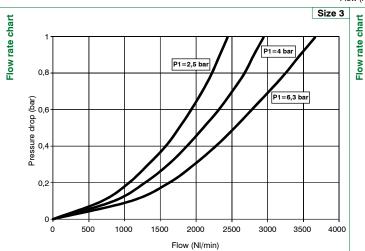


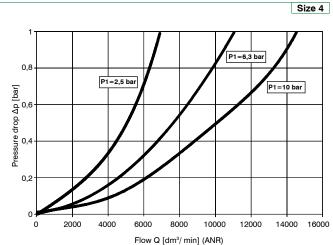
Order codes



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

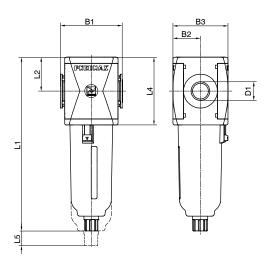




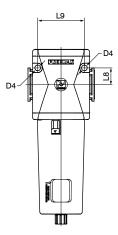


Dimensions

Semi-automatic drain version



Fixing holes dimension detail (only for size 4)



Model	D4	B4 B0 B0 B4			L1 - Bowl material		10			L8		
Model	B1	B2	В3	D1	D4	Technopolymer	Metal	L2	L4	L5	Lö	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

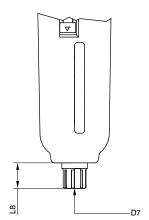
^{* =} With manual metal drain

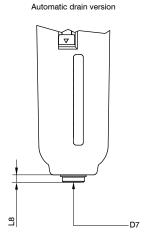
PROCESS AUTOMATION TECHNOLOGY

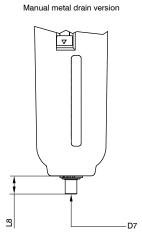
Process automation technology Catalogue

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

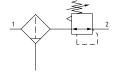
Air service units Series Airplus - aluminium

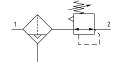
Filter regulators (E)





- 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
- 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





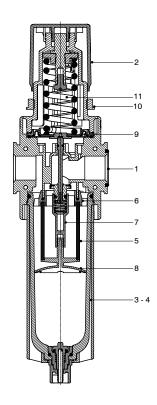
For installations where a more accurate and constant pressure is required, the unit should be installed as close as possible to the point of use. In order to ensure that any fluid discharged by the auto drain assembly is adequately drained away, it is recommended you use a 6mm fitting and tube.

	Technical characteristics								
5	ize	Size 2	Size 2 Size 3						
Body and connecti	ons type		Aluminium body, integrated aluminium connections						
Protection and boy	vl 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 m With fixin	Panel mounted						
Assembly positions	.	Vertical ±5°							
Filter pore size		5 μm 20 μm 50 μm							
Pressure range		0-2 bar 0-4 bar 0-8 bar 0-12 bar							
Bowl capacity		34 cm ³	68 cm ³	90 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	ssure gauge connection port (only for versions with IN / O	UT NPT connections)					
Max. fittings torque IN / OUT connection		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 met	al	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	-30°C +8	C +50°C (technopolymer b 80°C (only for P version and i 80°C (only for L version and i	metal bowl)		-5°C +50°C		

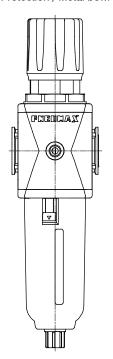
Weights							
Size	Size 2	Size 3	Size 4				
Aluminium body version, aluminium bowl protection and technopolymer bowl	510 g	730 g	1600 g				
Aluminium body version and aluminium bowl	560 g	790 g	1620 g				

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

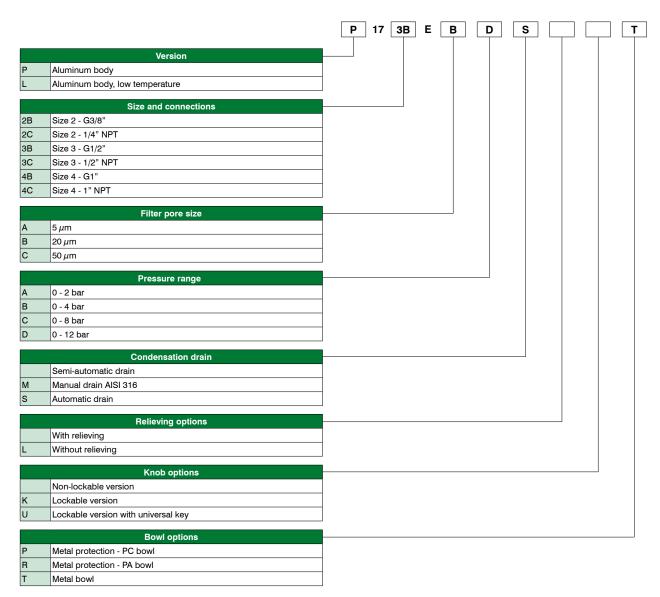


All versions FCIEDCIAX

Size 4



Order codes



Air service units

Series Airplus - aluminium

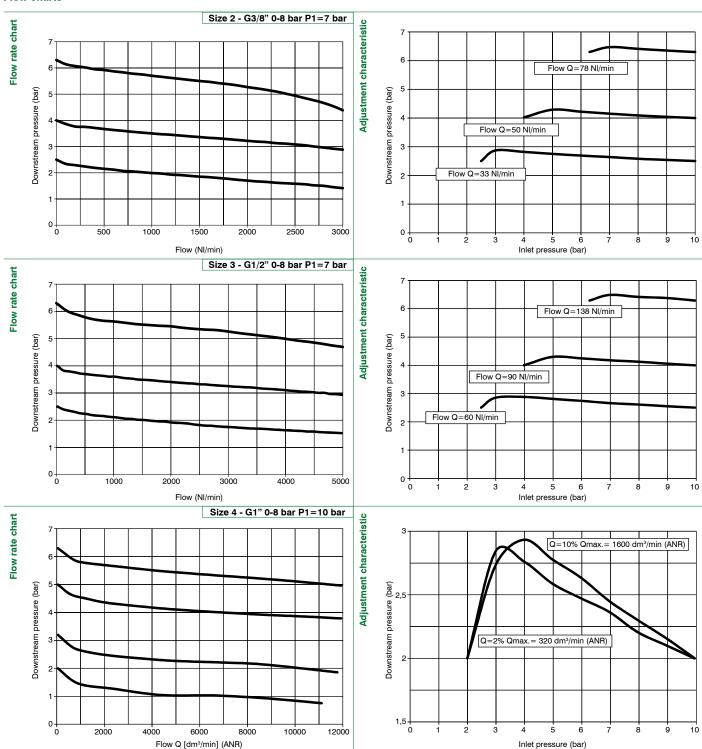
Example: P173BEBDST: Size 3 filter regulator G1/2" 20 μ m 0 - 12 bar, automatic drain and metal bowl



Catalogue

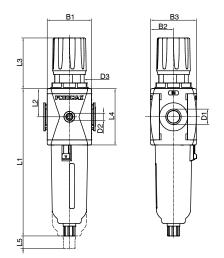
Process automation technology

Flow charts

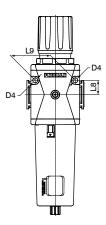


Dimensions

Semi-automatic drain version



Fixing holes dimension detail (only for size 4)

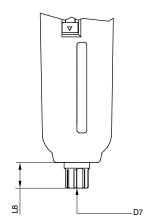


	D.	Do.	Do	D.4	Do.	Do.	D.4	L1 - Bowl	l material						L9
Model	B1	B2	В3	D1	D2	D3	D4	Technopolymer	Metal	L2	L3	L4	L5	L8	
#172	62	28,5	57	G3/8" 1/4" NPT	G1/8" 1/8" NPT	M42x1,5	1	169,5 - 164,5*	171,5 - 166,5*	34	71,8	68	50	/	/
#173	73	32,5	65	G1/2" 1/2" NPT	G1/8" 1/8" NPT	M42x1,5	1	207,5 - 202,5*	209,5 - 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

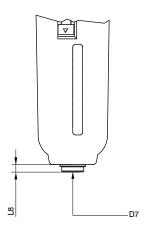
^{* =} With manual metal drain

Variable dimensions

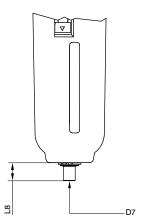








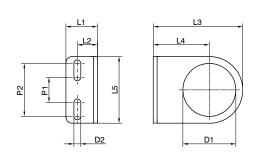
Manual metal drain version



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



Note

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.

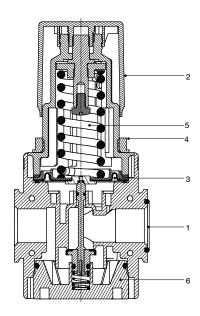
		Techni	cal characteristics					
s	ize	Size 2	Size 3	Size 4				
Body and connection	ons type		Aluminium body, integrated aluminium connections					
IN / OUT connections	P and L version	G3/8" - 1/4" NPT G1/2" - 1/2" NPT		G1" - 1" NPT				
Assembly configuration		Stand Panel m With fixin	Panel mounted					
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	sure 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 g	560 g	1260 a

PREUMA

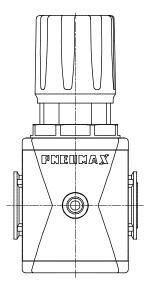
Materials



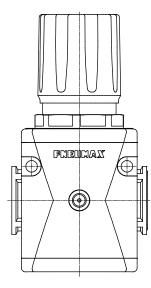
	Regulator										
1	Body	Polyamide Die-cast aluminium									
2	Adjusting knob	Polyamide									
3	Diaphragm	NBR									
4	Panel mounting locking ring	Polyamide									
5	Adjusting spring	Steel									
6	Rear end cap	Polyamide / Die-cast aluminium									

Design

Size 2 - Size 3

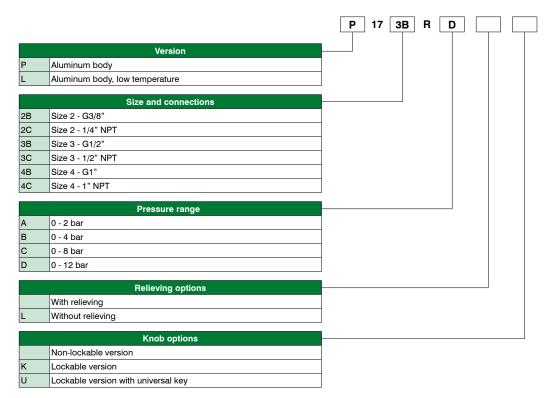


Size 4 All versions





Order codes



Air service units

Series Airplus - aluminium

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

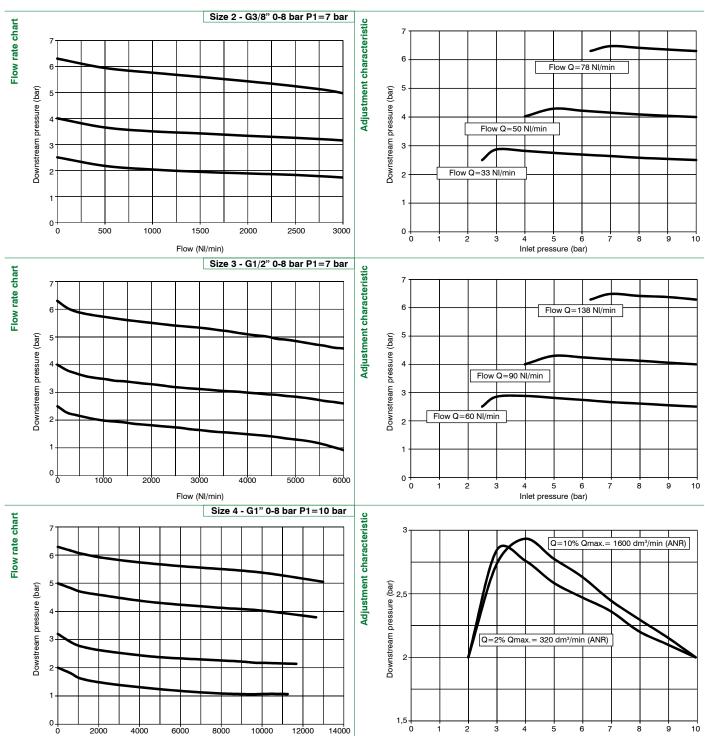


Catalogue

Process automation technology

Flow Q [dm³/min] (ANR)

Flow charts

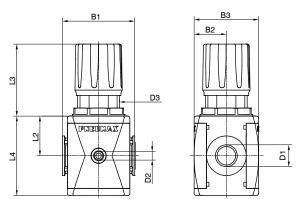


Inlet pressure (bar)

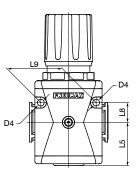


Dimensions

Pressure gauge connection port version



Fixing holes dimension detail (only for size 4)



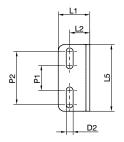
Model	B1	B2	В3	D1	D2	D3	D4	L2	L3	L4	L5	L8	L9
#172	62	28,5	57	G3/8" 1/4" NPT	G1/8" 1/8" NPT	M42x1,5	/	34	71,8	68	/	/	/
#173	73	32,5	65	G1/2" 1/2" NPT	G1/8" 1/8" NPT	M42x1,5	/	40	72,8	80	/	1	/
#174	99	44	88	G1" 1" NPT	G1/8" 1/8" NPT	M54x1,5	8,5	52,5	87,5	105	54,5	25	70

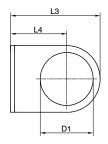
Air service units

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

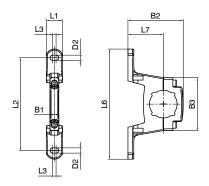
Flange Y



Process automation technology

Flange X









Model	B1	B2	В3	D2	L1	L2	L3	L4	L5	L6	L7
N172Y	0.7	64,6	64,6	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.

	Construction and	l operational characteristics					
Size	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	AISI 316L stainless steel or HDPE (High density polyethylene)					
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	В	Brass, stainless steel AISI 304 and AISI 302, sintered bronze Acetal resin, NBR, FPM					

Operating range											
Size	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) -35 +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



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



(€ UK (Ex) | II 2G Ex h | IIC T5...T3 Gb X | II 2D Ex h | IIIC T100°C...T200°C Db X













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

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

Important note for automatic drain

For inlet pressure from 0 to 10 bar use the reduced automatic drain (SR version) For inlet pressure from 10 to 16 bar use the STD automatic drain (S version)

Technical characteristics						
Size	Size 2	Size 4				
Туре	Rough finishing Clean profile (bowl)					
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 25 78					
Condensation drain	Manual Automatic					

Operational characteristics							
Size	Size 2	Size 3	Size 4	Size 2	Size 3	Size 4	
Condensation drain	N	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)		1		0,5			
Working temperature (°C)	-50 -60 +8 -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 +100 (EPDM-FDA version)		-35 +70 (automatic drain S version and reduced orifice automatic		omatic drain SR version)	

Weights				
Size	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

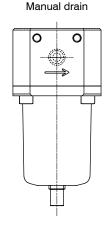


Example: SS172BFBSG

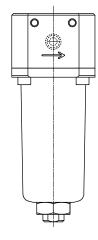
Size 2 filter, rough finishing, 3/8" NPT connection, filter pore size 20 μm - 316 stainless steel, automatic drain with pressure gauge connection port.

Design

Size 2 - Size 3 - Size 4



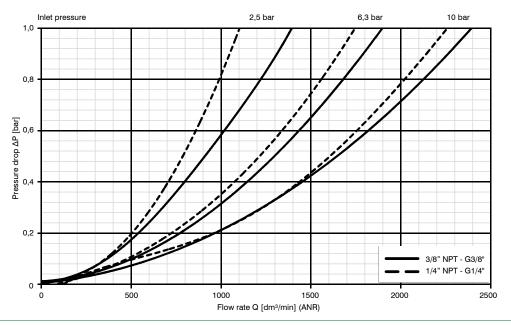
Size 2 - Size 3 - Size 4 Automatic drain





Characteristic curves



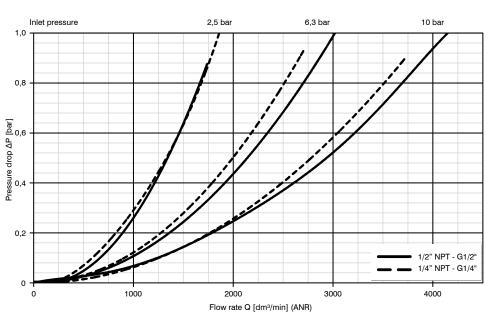


Air service units

Series 1700 Steel line

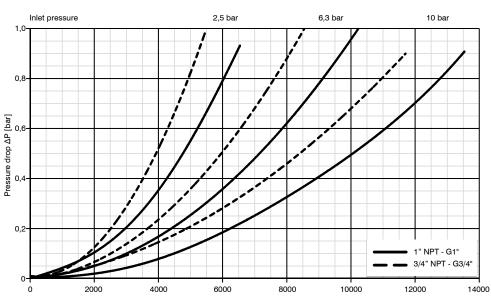
Size 2

Flow rate curves



Size 3

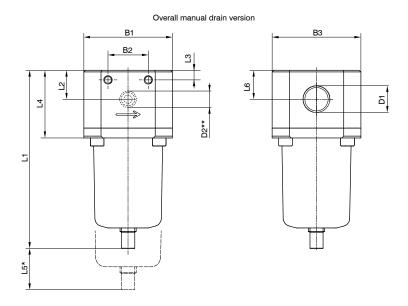
Flow rate curves



Flow rate Q [dm³/min] (ANR)

Size 4

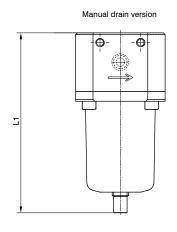
Dimensions

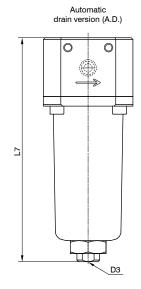


- * = BOWL REMOVAL MAXIMUM HEIGHT ** = ONLY FOR VERSION WITH PRESSURE GAUGE CONNECTION PORT

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

Air service units Series 1700 Steel line



Regulators











- 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
- 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

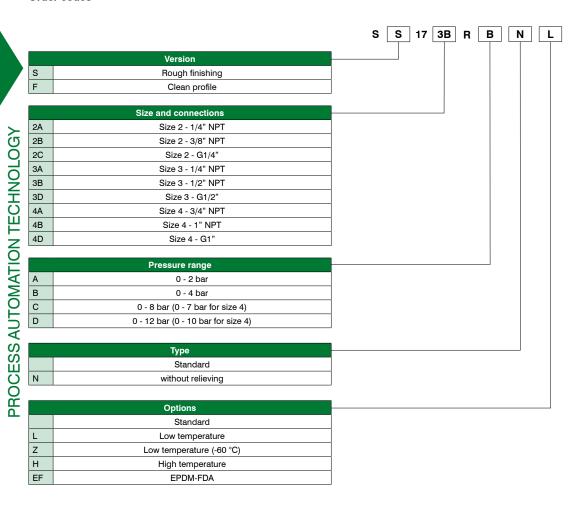
Technical characteristics						
Size	Size 2	Size 3	Size 4			
Туре	Rough finishing Clean profile (Back plate and adjustment mechanism)					
IN / OUT connections	1/4" NPT 3/8" NPT G1/4"	1/4" NPT 1/2" NPT G1/2"	3/4" NPT 1" NPT G1"			
Assembly configuration		Stand alone				
Assembly position		Indifferent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

Operational characteristics						
SizeSize 2Size 3Size 4						
Maximum working pressure (bar)	20					
Minimum working pressure (bar)	0,5					
Working temperature (°C)	-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 +100 (EPDM-FDA version)					

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



Order codes

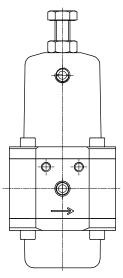


Example: SS173BRBNL

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

Design

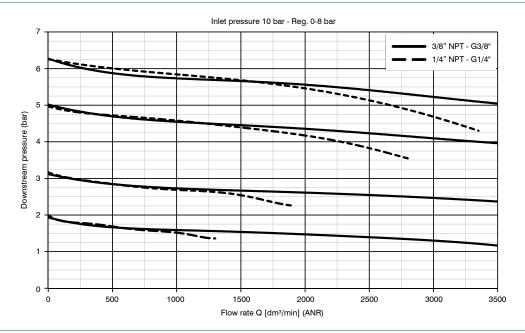
Size 2 - Size 3 - Size 4





Characteristic curves

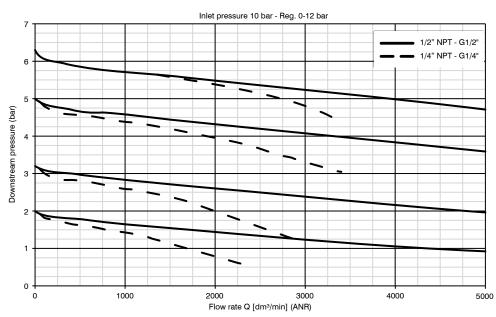




Air service units Series 1700 Steel line

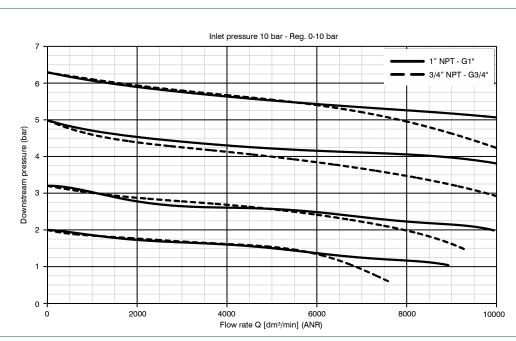
Size 2

Flow rate curves



Size 3

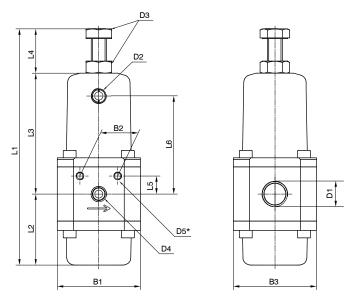
Flow rate curves



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

Series 1700 Steel line







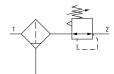


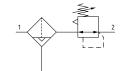
Filter regulators

Filter-pressure regulator diaphragm with over-pressure drain (Relieving)

Air service units

-) 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





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.

Important note for automatic drain

For inlet pressure from 0 to 10 bar use the reduced automatic drain (SR version) For inlet pressure from 10 to 16 bar use the STD automatic drain (S version)

	Technic	al characteristics						
Size	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 0-4 0-8 -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							

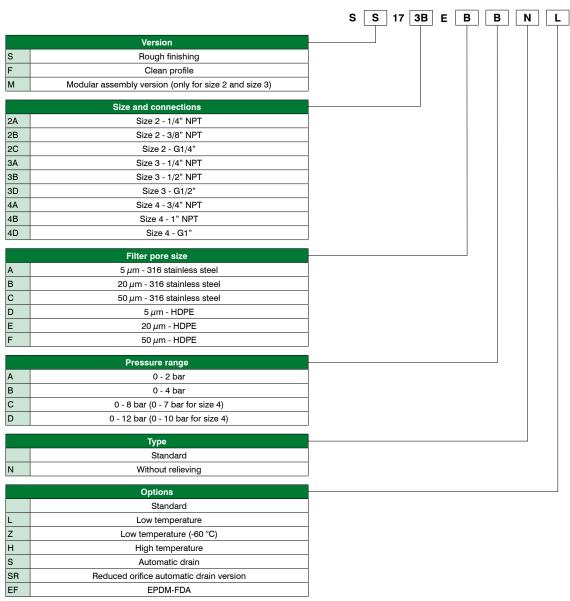
	Operational characteristics												
Size	Size 2	Size 3	Size 4	Size 2 Size 3 Size 4									
Condensation drain	M	anual condensation dra	in	Automatic condensation drain									
Maximum working pressure (bar)		20 (standard version)		16 (automatic drain version) 10 (reduced orifice automatic drain version)									
Minimum working pressure (bar)		/		0,5									
Working temperature (C°)	-50 -60 +8 -5	30 +80 (standard version) . +80 (low temperature L version) 30 (low temperature version) 150 (high temperature H version) 150 (EPDM-FDA version)	sion) -60 °C Z) rsion)	-35 +70 (automatic dr	ain S version and reduced version)	orifice automatic drain SR							

Weight										
Size	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

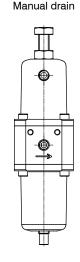


Example: SS173BEBBNL

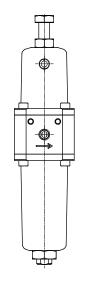
Size 3 filter regulator, rough finishing, 1/2" NPT connection, filter pore size 20 µm - 316 stainless steel, pressure range 0 - 4 bar, without relieving, low temperature version.

Design

Size 2 - Size 3 - Size 4



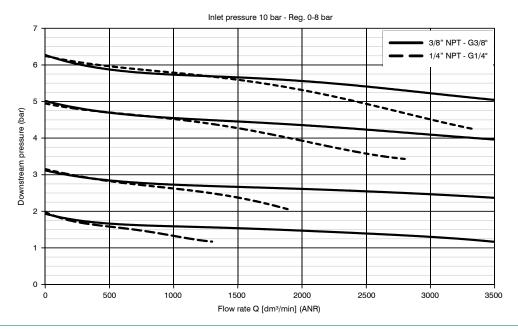
Size 2 - Size 3 - Size 4 Automatic drain





Characteristic curves

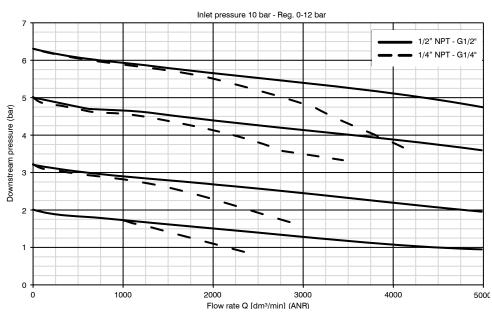




Air service units Series 1700 Steel line

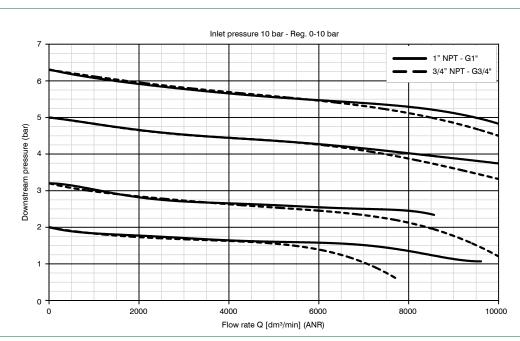
Size 2

Flow rate curves





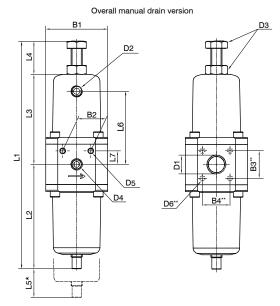
Flow rate curves



Size 4



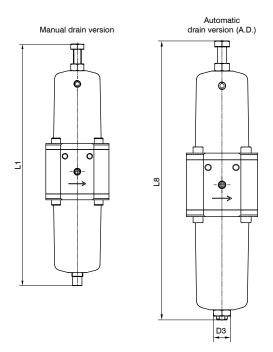
Dimensions



- * = 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

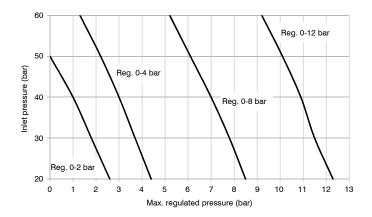


Inlet pressure notes

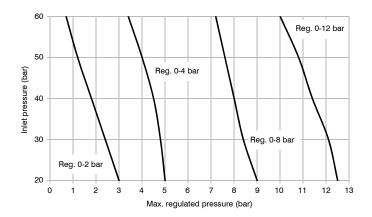
Pressure regulator Stainless steel line have been designed to withstand a 60 bar maximum inlet pressure. Maximum regulated outlet pressure is 20 bar. For performance details please refer to diagram alongside.

Air service units

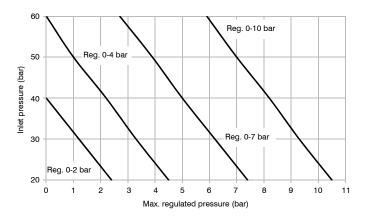
Series 1700 Steel line



Size 2



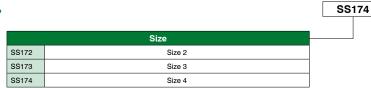
Size 3



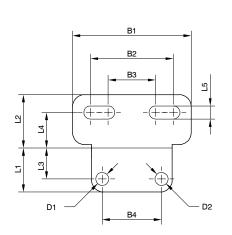
Size 4

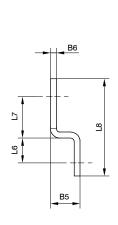
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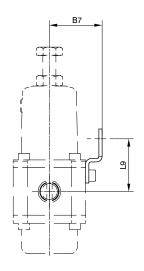
Fixing bracket









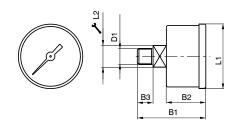


Model	B1	B2	В3	B4	B5	В6	В7	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	L9
SS17250	50	35	20	25	12,5	2,5	40	Ø5,5	Ø5,5	18,5	22,5	13	15	5,5	10,5	17,5	41	40
SS17350	60	45	20	22	14,5	3	50	Ø6,5	Ø6,5	14	24,5	/	16,5	6,5	11	19,5	44,5	45
SS17450	80	60	40	36	16	4	62	Ø8,5	Ø8,5	24	31	/	/	8,5	11	25	55	58,5

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

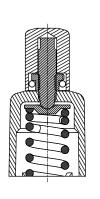
Size 4

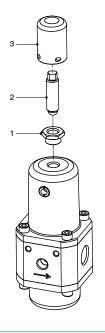


Air service units

Series 1700 Steel line

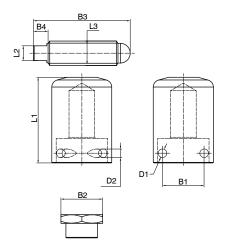






To use, replace the standard adjustment screw and nut with the screw and nut supplied in the kit. Assemble the screw and nut as shown (see adjacent drawing), adjust until the desired P_2 value is reached, lock the nut and insert the cap that can be locked with wire or padlock.

	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

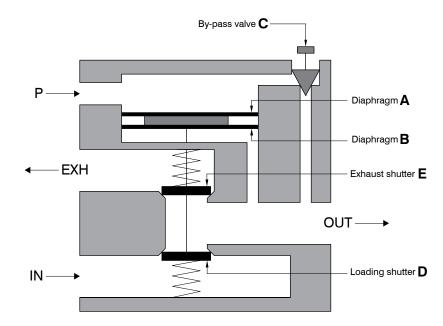
The device is pneumatic operated thru inlet port. When a pressure signal from 2 to 8 bar is applied to the pilot port **P**, the main valve assembly opens the loading shutter **D** to allow the passage of a high volumetric flow from the inlet port to the outlet port. When the system detects that the 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.



PNEUMA

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										
Size	Size 3 Size 4										
Туре	Aluminium with epoxy coating paint Stainless steel AISI 316L										
IN / OUT / EXH connections	1/4" NPT - 1/2" NPT 3/4" NPT - 1" NPT										
Pilot connection	1/4" NPT										

	Operational characteristics					
Size	Size 3	Size 4				
Fluid	Dry and clean air Inert gas Natural gas					
Maximum working pressure	13	bar				
Minimum working pressure	21	bar				
Maximum signal pressure	8 bar					
Minimum signal pressure	2 bar					
Working temperature and seals	-50°C +80°C - NB -60°C +80°C - PUR - S -5°C +150°C - FPM -	eals (Standard version) R LT seals (L version) ILICONE seals (Z version) HNBR seals (H version) A-FDA seals (EF version)				
Signal pressure / outlet pressure ratio	1:1 ± 5%					
Assembly configuration	Stand alone With fixing bracket					
Assembly positions	Indifferent					

Flow capacity Cv table												
Size	Siz	:e 3	Size 4									
Connessione	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								

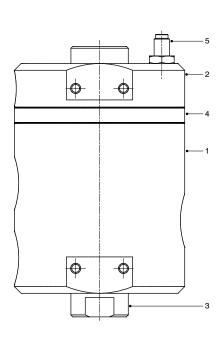
Weights												
Size	Siz	te 3	Siz	e 4								
Connessione	1/4" NPT	1/2" NPT	3/4" NPT	1" NPT								
Aluminium version without flow regulators	2040 g	2010 g	4470 g	4380 g								
Aluminium version with uni-directional flow control regulator	2098 g	2070 g	4478 g	4394 g								
Aluminium version with 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								



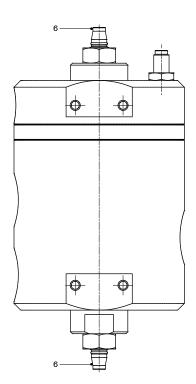
Catalogue

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



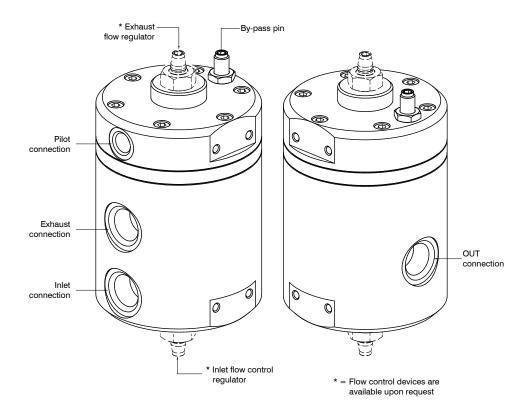
	Volume bo	oster
1	Body	Aluminium with epoxy coating paint Stainless steel AISI 316L
2	Piloting operator	Aluminium with epoxy coating paint Stainless steel AISI 316L
3	Rear end cap	Aluminium with epoxy coating paint Stainless steel AISI 316L
4	Intermediate body	Aluminium with epoxy coating paint Stainless 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

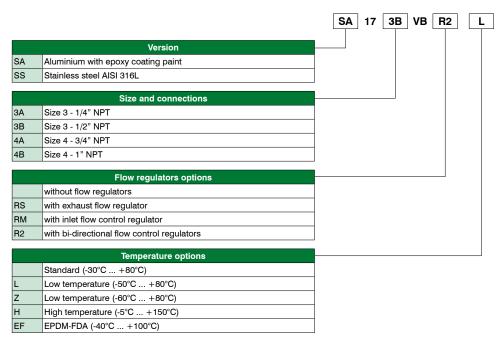
The Pneumax volume booster is fitted with a by-pass valve as standard and can be supplied with or without a flow regulator. The flow regulator can be either Uni-directional or Bi-directional.

Volume booster

Series Flowplus

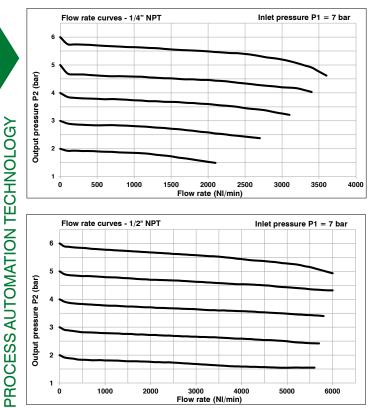


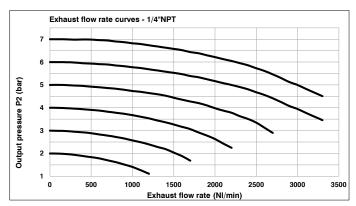
Order codes

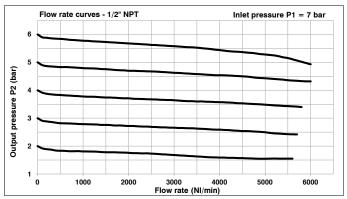


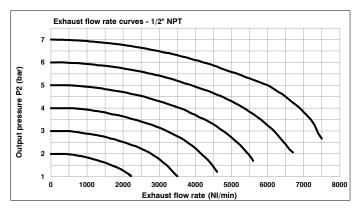
Example: SA173BVBR2L: Size 3 Volume booster, 1/2"NPT ports, Bi-directional flow control regulator, suitable for low temperature.

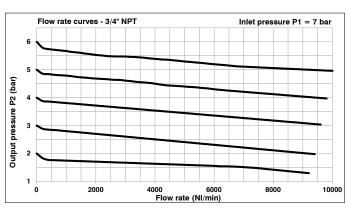
Characteristic curves (without flow regulators)

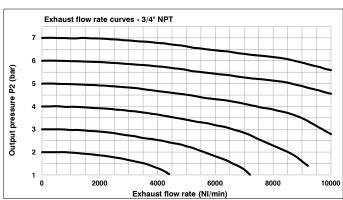


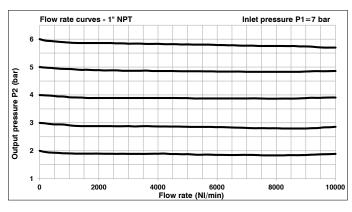


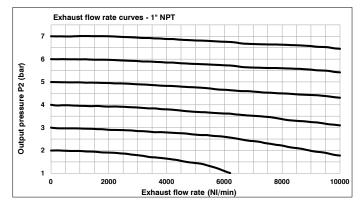




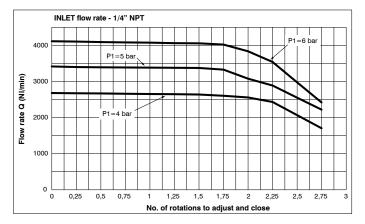


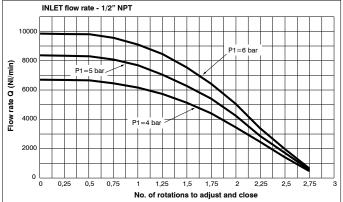


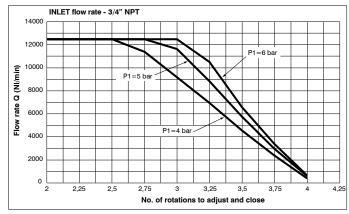


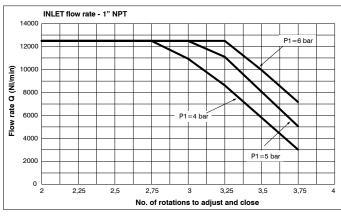


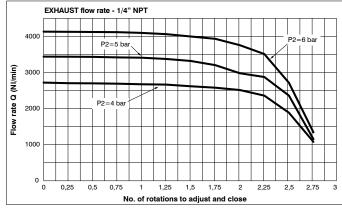
Characteristic curves (with flow regulators)

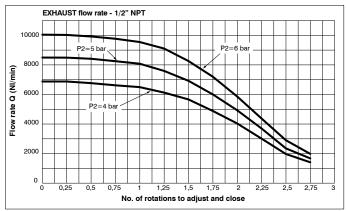


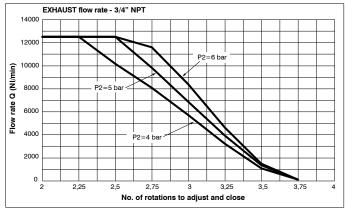


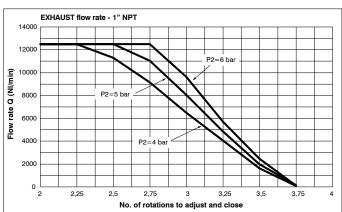






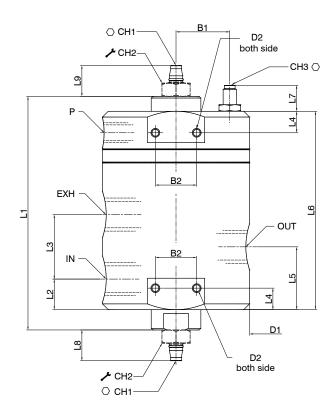






Process automation technology

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	19	1/2" NPT			17	
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







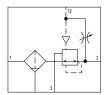


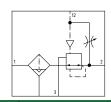
Available in 2 sizes with connections from 1/4" NPT to 1" NPT

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





Operational characteristics	Si	ze								
Operational 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" [NP1										
One westigment also we association	Siz	ze										
Operational characteristics	Size 3	Size 4										
Fluid	Compres Inert g Natural	pases										
Maximum working pressure	13 b	par										
Minimum working pressure	2 bar											
Maximum pressure range	8 bar											
Minimum pressure range	2 bar											
Operating temperature and seals	-30°C +80°C - Seals N -50°C +80°C - Seals PU -60°C +80°C - Seals PU -5°C +150°C - Seals F -5°C +70°C Autome -40°C +100°C - EPDM	s NBR LT (L Version) R - SILICONE (Z Version) PM - HNBR (H Version) atic drain (S Version)										
Signal pressure / outlet pressure ratio	1:1 ±	5%										
Assembly configuration	Stand With fixing											
Assembly positions	Vertica	l ± 5°										
Filter pore size	20 μm Stainless steel AISI 316 or F	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	Man Auton											

		Size									
Flow capacity Cv table	Filter pore size	Siz	re 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			

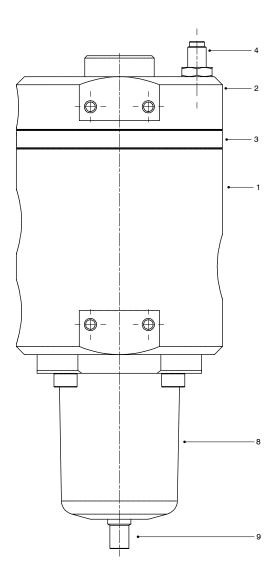


Catalogue

Process automation technology

Materials

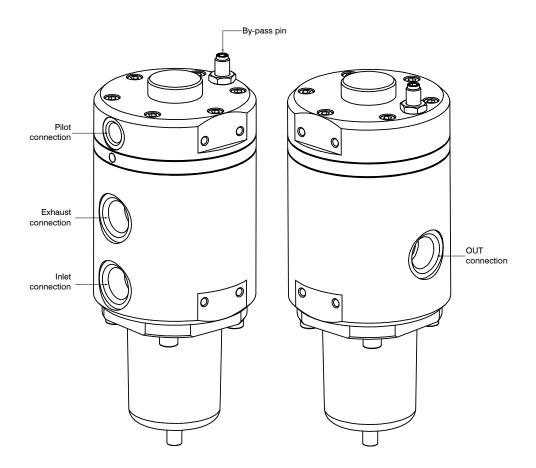
The Volume filter booster is only available in 316L stainless steel. The integral components which come into contact with the media are manufactured in 316L stainless steel. The filter elements are available in both HDPE and 316 stainless steel.



	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

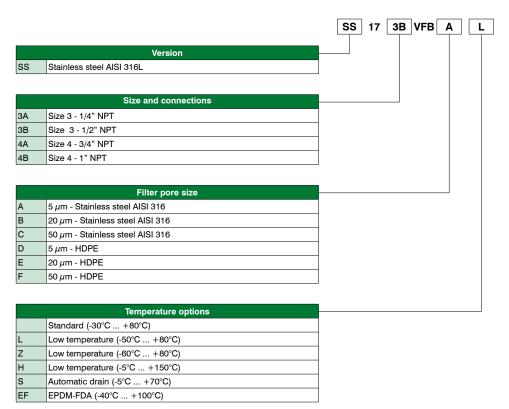
The Volume filter booster is fitted with the by-pass valve as standard. Flow regulators are not available.



Volume booster

Series Flowplus

Order codes

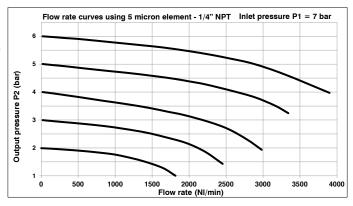


Example: SS173BVFBAL: Size 3 Volume filter booster, 1/2"NPT, 5 μ m element, low temperature and manual drain.

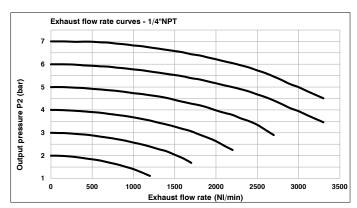


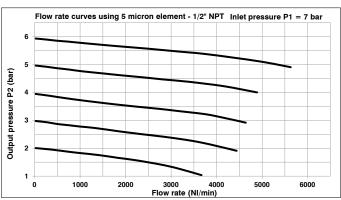
Characteristic curves (without flow regulators)

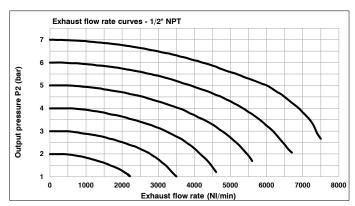
Catalogue

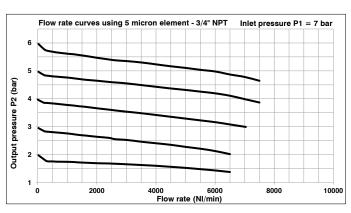


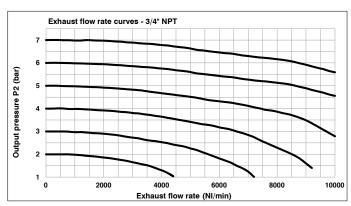
Process automation technology

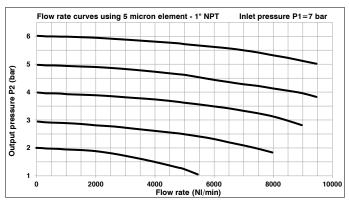


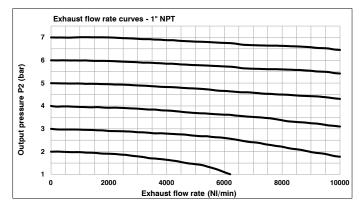






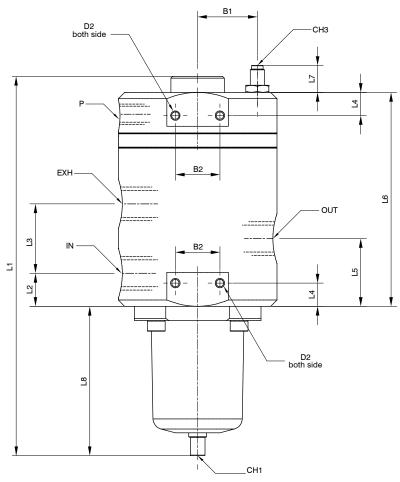








Dimensions

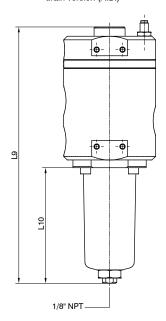


Volume booster

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

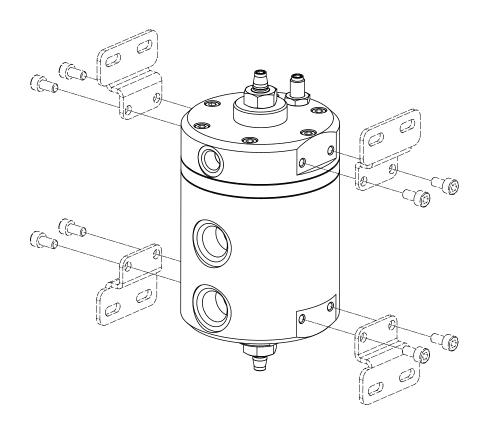


Accessories and fixing

Catalogue

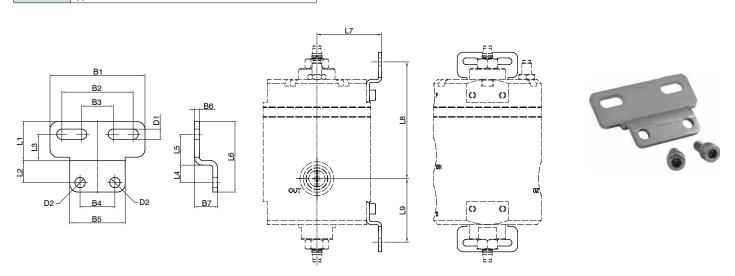
Special fixing brackets made of AISI 316L stainless steel are provided upon request. Fixing position for every need is confirmed by using one or two brackets.

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.

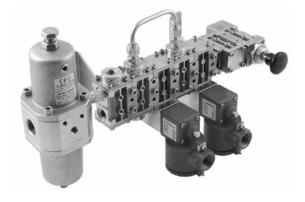
The range includes 3 and 5 way function valves, with the following functions available: pneumatic-spring valve, pneumatic-pneumatic valve, 2 position push-pull valve, push button-spring valve, push button-pneumatic return valve, tappet-spring valve, roller lever-spring valve, pneumatic valve with self-locking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

- p-: ug	
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



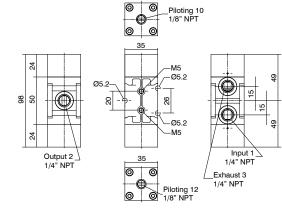
	Ordering code
	SS1432C1101 ⊕
Ī	TYPE
	L= Low temperature version
	H= High temperature version
	EX SILV
	EHLEx

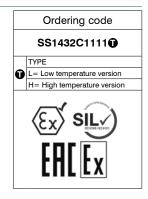
Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	1000	1/4" NPT	1/8" NPT	500	1,02	15,15

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

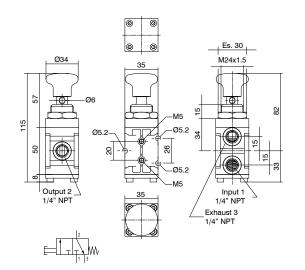
Filtered air. No lubrication needed, if applied it shall be continuous.
nert Gas.
Sweet gas (natural)

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	1000	1/4" NPT	470	1,02	15,15	

Push button-pneumatic return valve



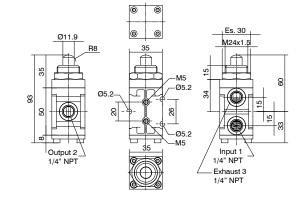
Minimum piloting pressure 2,5 bar Fluid: Flued air. No lubrication needed, if applied it shall be continuous. Inert Gas.
Sweet gas (natural).

	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					
	SS1432C00011					
Ì	TYPE					
١	O	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)	Connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	450	1,02	15,15	

PROCESS AUTOMATION TECHNOLOGY

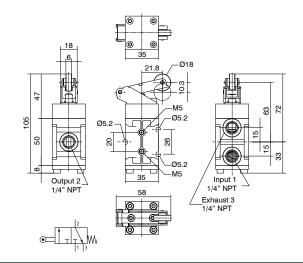
Roller lever-spring valve

Catalogue

Process automation technology



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



Ordering code SS1432C04011 TYPE L= Low temperature version H= High temperature version

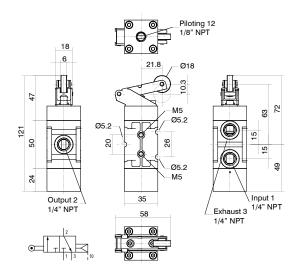
Operating force at 2 bar= 55N Operating force at 12 bar= 105N

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

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	

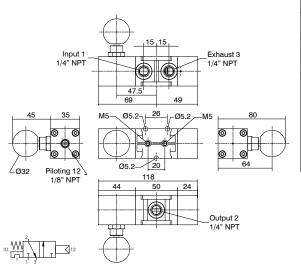
Pneumatic valve with self-locking manual reset



Minimum piloting pressure 2,5 bar

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

Sweet gas (natural).



TYPE L= Low temperature version H= High temperature version EXX SILVERIFY EXX S		Ordering code						
L= Low temperature version H= High temperature version		SS1432C1114 ①						
H= High temperature version		TYPE						
(Ex) SILV	O							
ГПГГ		H= High temperature version						
		FMF F						

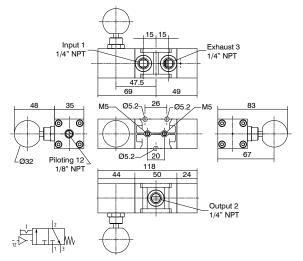
	Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv			
12	1000	1/4" NPT	1/8" NPT	860	1,02	15,15			

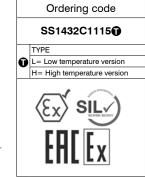
Process automation technology Catalogue

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).

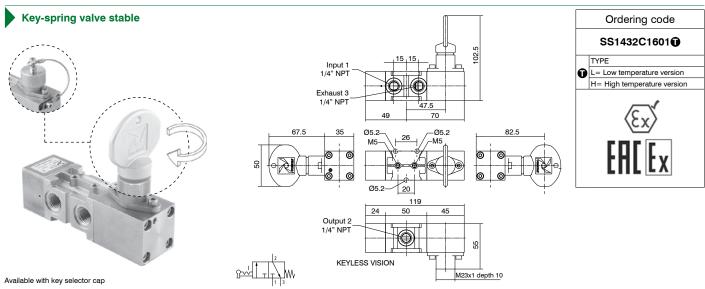




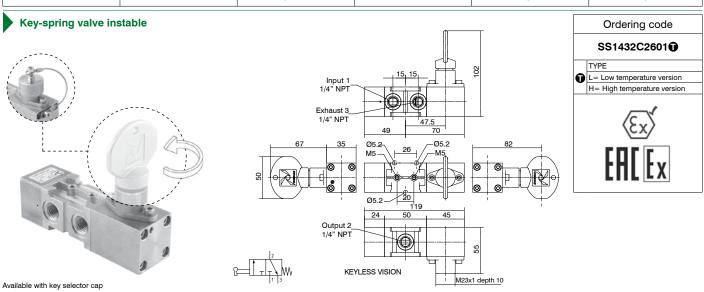
	Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv		
12	1000	1/4" NPT	1/8" NPT	860	1,02	15,15		

Valves 3/2, 1/4" NPT

Series Steel line

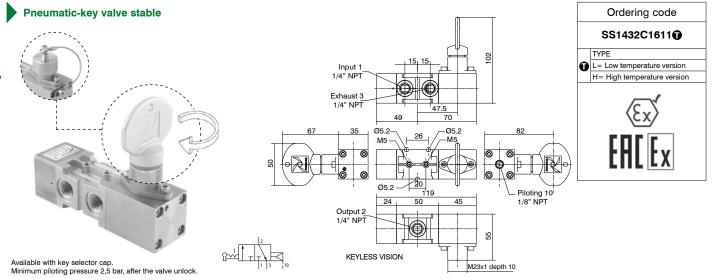


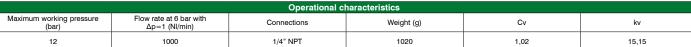
Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1020	1,02	15,15	

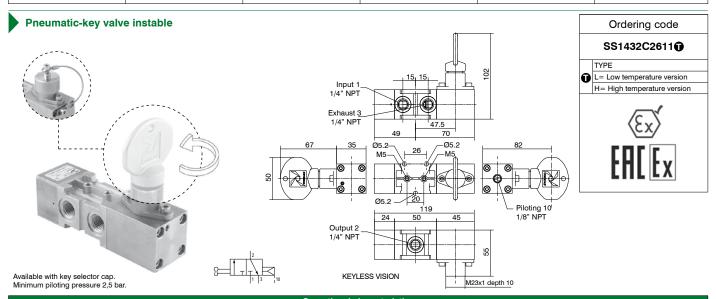


1	Operational characteristics					
	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
	12	1000	1/4" NPT	1020	1,02	15,15









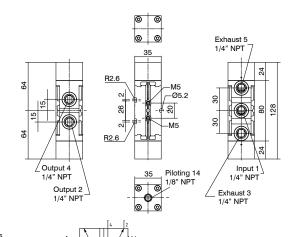
	Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
12	1000	1/4" NPT	1020	1,02	15,15			



Pneumatic-spring valve

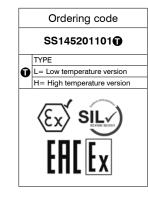


Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



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 15 11 3 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

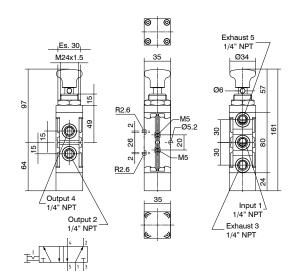
		Ordering code					
	SS145311111 ①						
ľ		TYPE					
١	O	L= Low temperature version					
	_	H= High temperature version					
		ENC Ex					

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

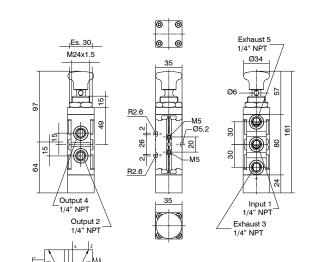
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
12	1000	1/4" NPT	770	1,02	15,15		

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)	Cv	kv		
12	1000	1/4" NPT	780	1,02	15,15		

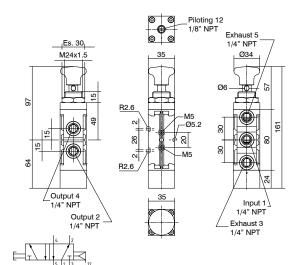
Push button-pneumatic return valve



Minimum piloting pressure 2,5 bar

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

Sweet gas (natural).



Ordering code						
SS1452008111						
TYPE						
L= Low temperature version						
H= High temperature version						
EAL Ex						

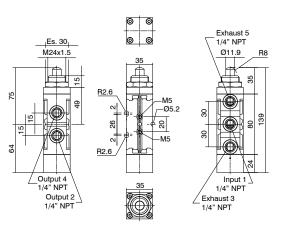
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1/8" NPT	780	1,02	15,15	

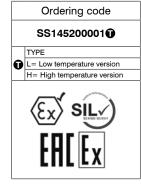
Valves 5/2, 1/4" NPT Series Steel line

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)	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			

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

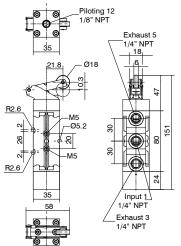


Minimum piloting pressure 2,5 bar Fluid:

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						

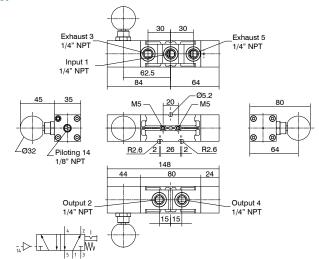
3 . ()								
Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv			
12	1000	1/4" NPT	800	1,02	15,15			

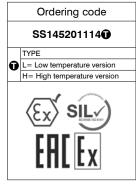
Catalogue

Pneumatic valve with self-locking manual reset



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



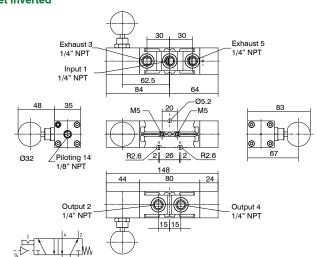


Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv	
12	1000	1/4" NPT	1/8" NPT	1020	1,02	15,15	

Pneumatic valve with self-locking manual reset inverted

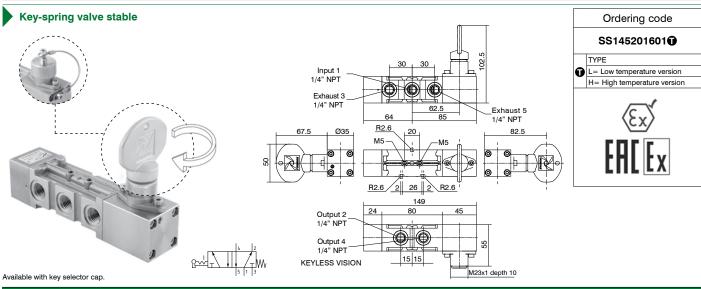


Minimum piloting pressure 2,5 bar Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

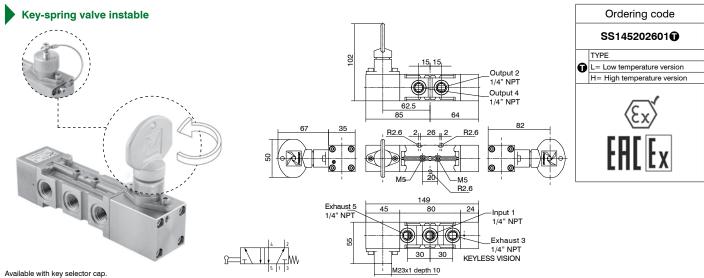


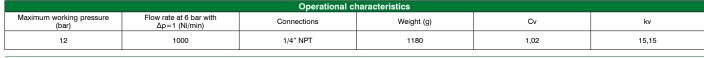
	Ordering code
	SS145201115 ①
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX SILY ENER

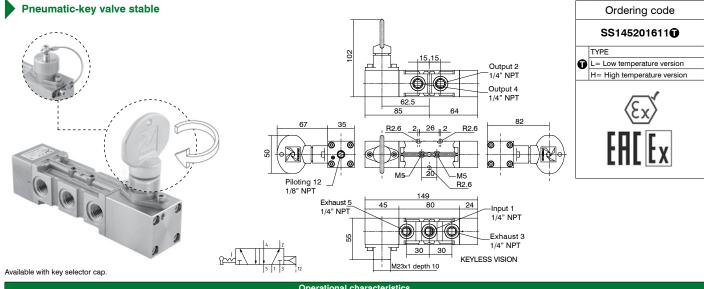
Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv		
12	1000	1/4" NPT	1/8" NPT	1020	1,02	15,15		



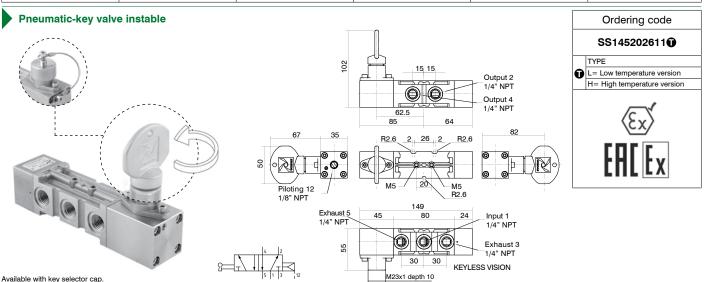
Operational characteristics								
Maximum working pressure (bar)								
12	1000	1/4" NPT	1180	1,02	15,15			







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



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



Solenoid valves 1/4" NPT series Steel line

Catalogue

Process automation technology

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 r	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

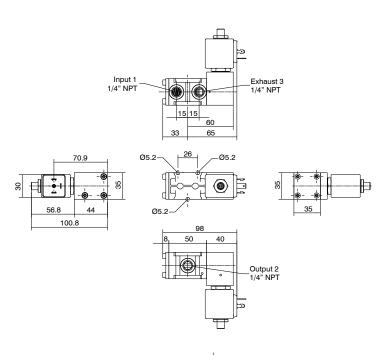
Cores	Ferromagnetic stainless steel	
Guide tube	Stainless steel	
Springs	Stainless steel	
Seals	FPM (Fluoroelastomer)	
	NBR (available on request)	
Incorporation	PA reiforced fibreglass	
Wire insulation	F (Class H available on request)	
Nominal voltage	12, 24 V DC	
	24, 110, 220/230 V AC	
Power consumption 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 SS1432C2**1**2**1**H

Minimum piloting pressure 2,5 bar Fluid:

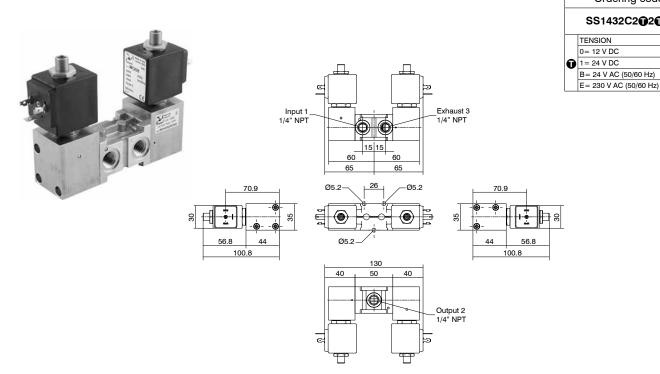
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

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

Solenoid-solenoid valve



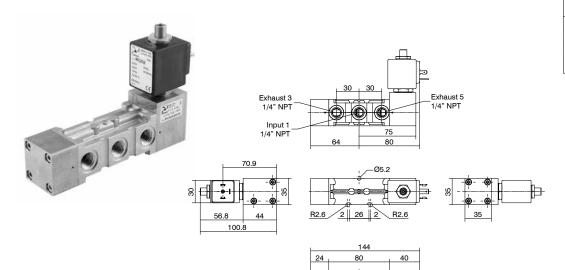
Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be or

Inert Gas. Sweet gas (natural).

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continuous.	

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



Output 2

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)

Ordering code SS145202020H

Minimum piloting pressure 2,5 bar

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

Inert Gas. Sweet gas (natural).

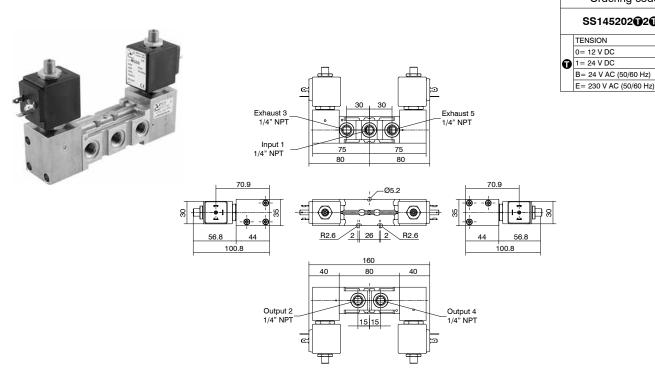
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Output 4

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.

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	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-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

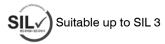
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.			
	Inert Gas.			
	Sweet gas (natural).			
Operating temperature	-20°C +70°C			
Note: The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless				
of the type of seals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

Electrical (Electropilot) construction characteristics

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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

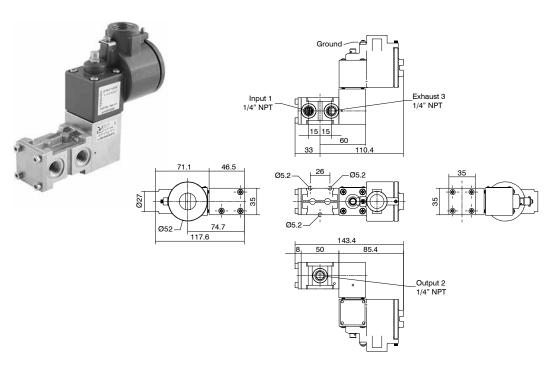




Solenoid-spring valve

Catalogue

Process automation technology



Ordering code SS1432CA**⊕**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

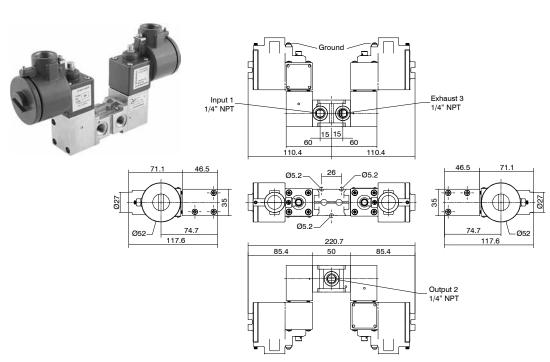
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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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





Ordering code SS1432CATATL 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)

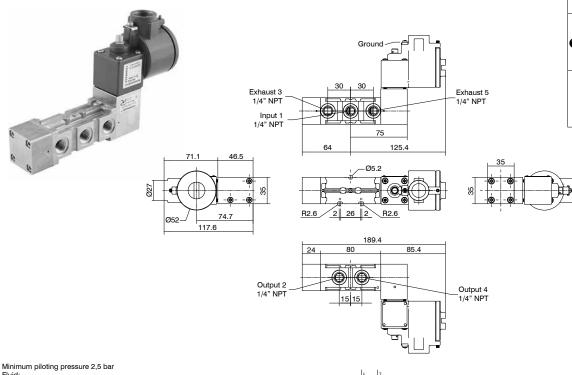
Minimum piloting pressure 2,5 bar Fluid:

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

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





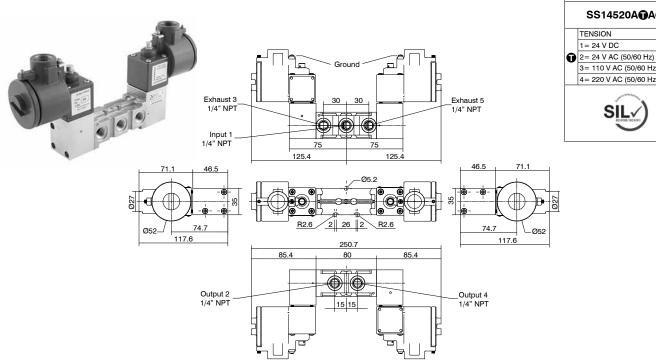
Ordering code SS14520A**⊕**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 220 V AC (50/60 Hz)

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



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

Inert Gas. Sweet gas (natural).



TENSION 1= 24 V DC

Ordering code SS14520A A A A

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

Minimum piloting pressure 2,5 bar

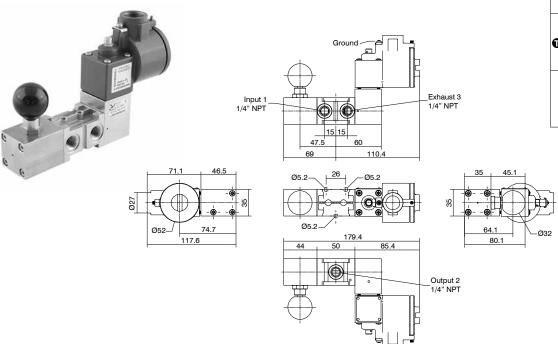
Filtered air. No lubrication needed, if applied it shall be continuous.

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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

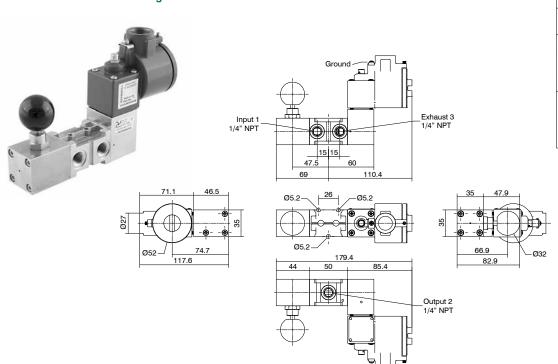
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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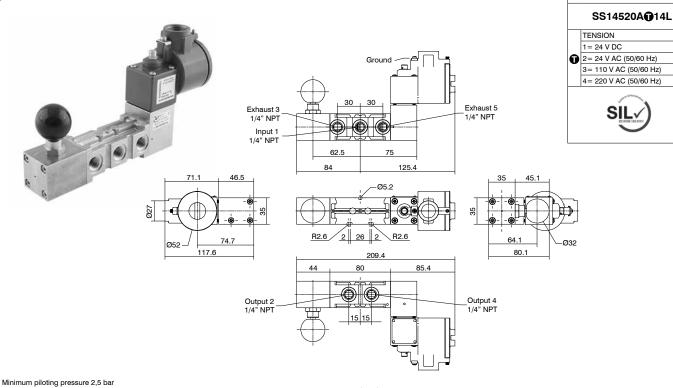
Operational characteristics							
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv		
10	1000	1/4" NPT	1850	1,02	15,15		

Ordering code

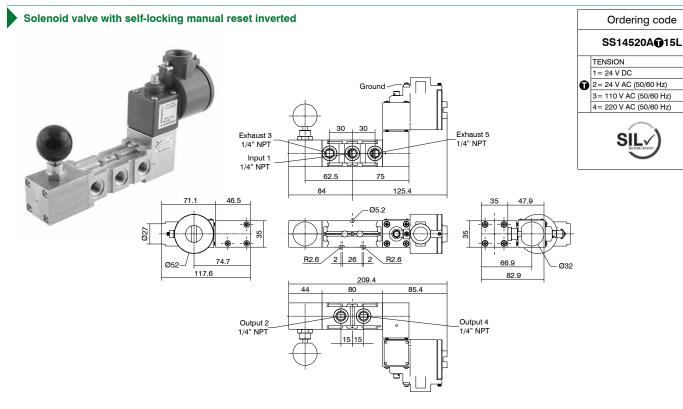
Solenoid valve with self-locking manual reset

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

Inert Gas. Sweet gas (natural).



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



Minimum piloting pressure 2,5 bar

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	



Process automation technology Catalogue

Solenoid valves 1/4" 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, 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:





II 2G Ex h IIC T6...T3 Gb X II 2D Ex h IIIC T85°C...T200°C Db X



: Suitable up to SIL 3



: International certification for explosive atmospheres



: China Compulsory Certificate

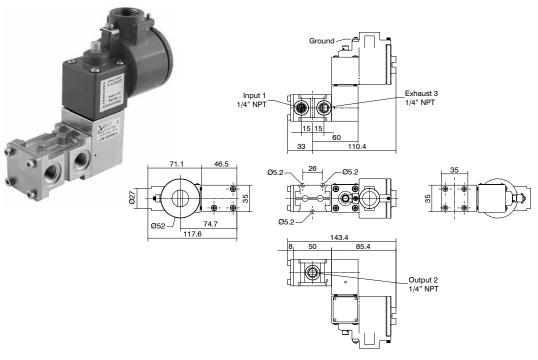
Coil marking:



II 2G Ex db IIC T6...T3 Gb II 2D Ex tb IIIC T85°C...T200°C Db

ATEX and SIL: refer to products in the various sections to the catalogues. **IECEx and CCC:** 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= 240 V AC (50/60 Hz)





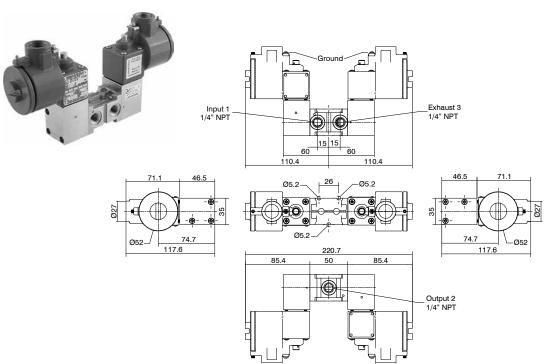
Minimum piloting pressure 2,5 bar Fluid: Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

erational characteristics	

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 OBOL TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

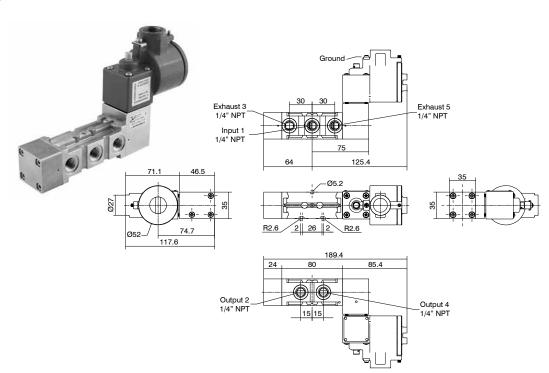
Minimum piloting pressure 2,5 bar

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

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		Operational 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	2600	1,02	15,15

Solenoid-spring valve



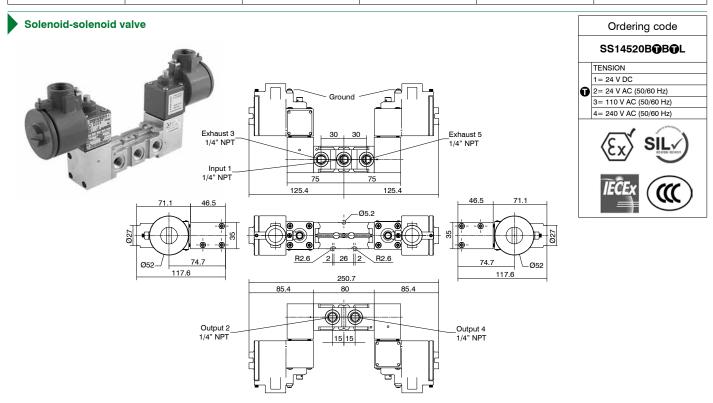
Ordering code SS14520B**⊕**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

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:

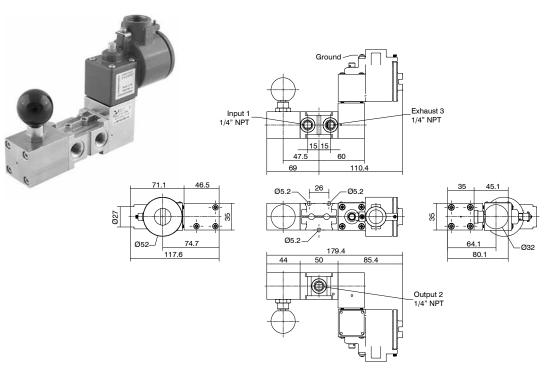
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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Operational characteristics					
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



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= 240 V AC (50/60 Hz)



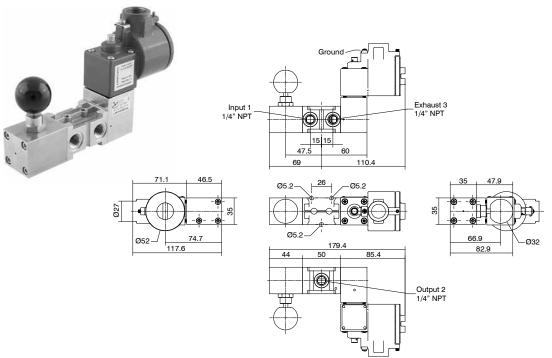


Minimum piloting pressure 2,5 bar Fluid: Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	1850	1,02	15,15

Solenoid valve with self-locking manual reset inverted



Ordering code SS1432CB 15L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

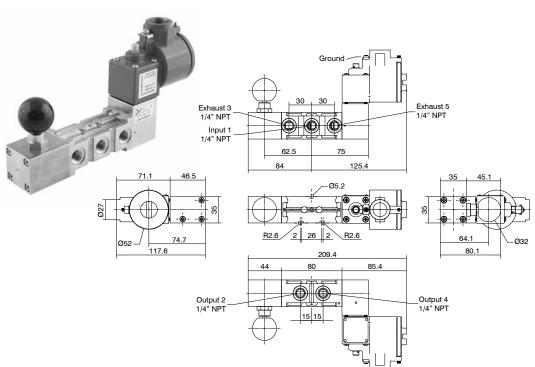
Minimum piloting pressure 2,5 bar

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

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		Operational 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

Solenoid valve with self-locking manual reset



Ordering code SS14520B@14L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

Minimum piloting pressure 2,5 bar

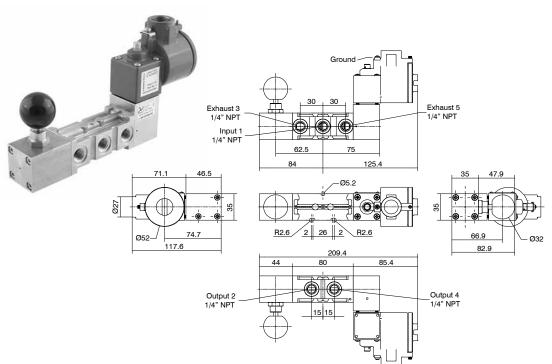
Filtered air. No lubrication needed, if applied it shall be continuous.

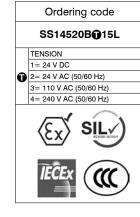
Inert Gas. Sweet gas (natural).

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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







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 pressur (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 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

Armour / Cores Ferromagnetic stainless steel Springs Stainless steel Seals FPM (Fluoroelastomer) Incorporation PBT 30% glass load Wire insulation H 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%	Housing	Zinc alloy with epoxy paint
Seals FPM (Fluoroelastomer) Incorporation PBT 30% glass load Wire insulation H 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%	Armour / Cores	Ferromagnetic stainless steel
Incorporation PBT 30% glass load Wire insulation H 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%	Springs	Stainless steel
Wire insulation H 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%	Seals	FPM (Fluoroelastomer)
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%	Incorporation	PBT 30% glass load
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%	Wire insulation	Н
Nominal voltage24 V DCPower consumption DC0,4 W (Running)Connection for cable entryM20x1.5Electrical connectionScrew terminals 2 Poles 2.5 mmIP RatingIP65Tolerance on voltage supply±10%	Guide tube	Stainless steel
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%	Resistance	370 Ohms
Connection for cable entry Electrical connection Screw terminals 2 Poles 2.5 mm IP Rating IP65 Tolerance on voltage supply ### 10%	Nominal voltage	24 V DC
Electrical connection Screw terminals 2 Poles 2.5 mm IP Rating IP65 Tolerance on voltage supply ±10%	Power consumption DC	0,4 W (Running)
IP Rating IP65 Tolerance on voltage supply ±10%	Connection for cable entry	M20x1.5
Tolerance on voltage supply ±10%	Electrical connection	Screw terminals 2 Poles 2.5 mm
	IP Rating	IP65
	Tolerance on voltage supply	±10%
ED continuous service 100%	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:





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



: Suitable up to SIL 3



: International certification for explosive atmospheres

Coil marking:



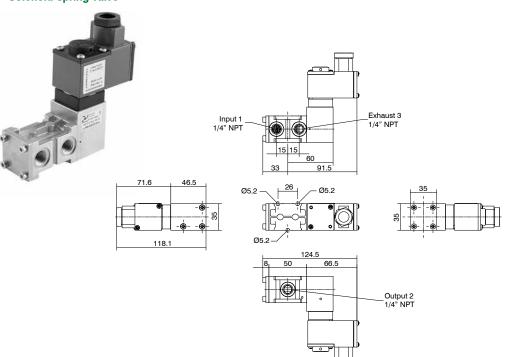
ATEX and SIL: refer to products in the various sections to the catalogues.

IECEx: refer to Pneumatrol pilots installed upon each valve.

FM Approval: available on request on Pneumatrol pilots

Process automation technology Catalogue

Solenoid-spring valve





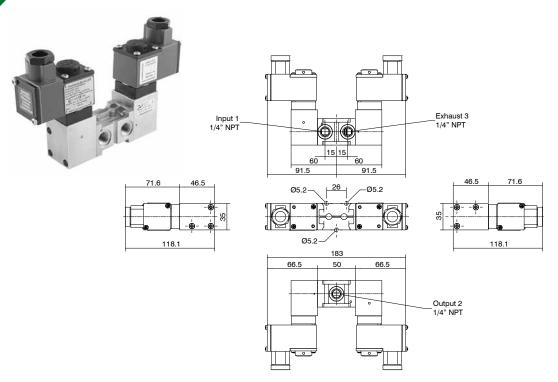
PROCESS AUTOMATION TECHNOLOGY

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		





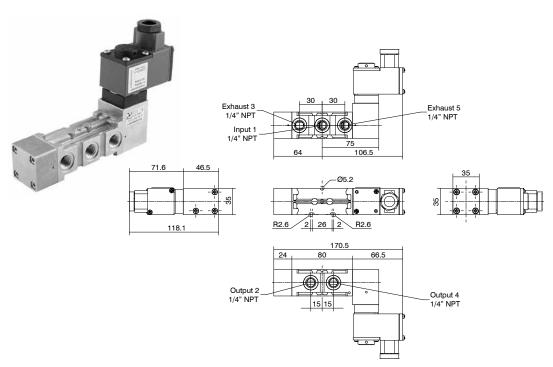
	Ordering code				
SS1432CCOCOL					
	TENSION				
v	1= 24 V DC 33 mA				
	EX SILY				

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	2300	1,02	15,15		

Solenoid-spring valve

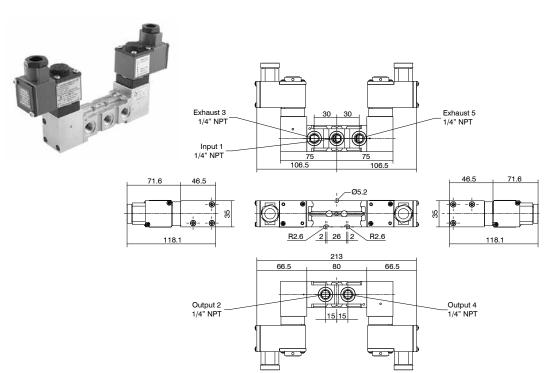




Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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



Ordering code SS14520C@C@L TENSION
1 = 24 V DC 33 mA

Minimum piloting pressure 2,5 bar

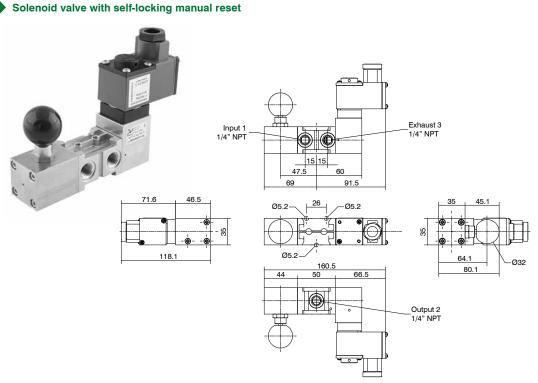
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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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	2150	1,02	15,15		

Catalogue

Process automation technology



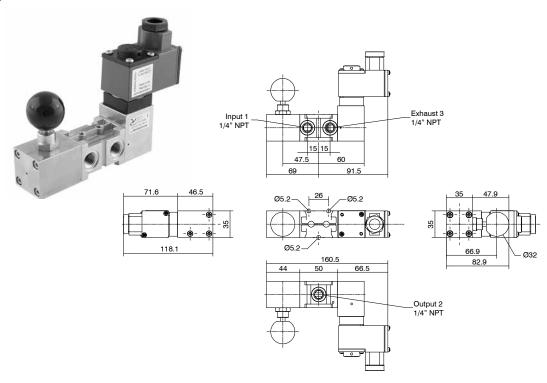
Ordering code SS1432CC**1**14L TENSION **O** 1= 24 V DC 33 mA

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	1550	1,02	15,15		

Solenoid valve with self-locking manual reset inverted



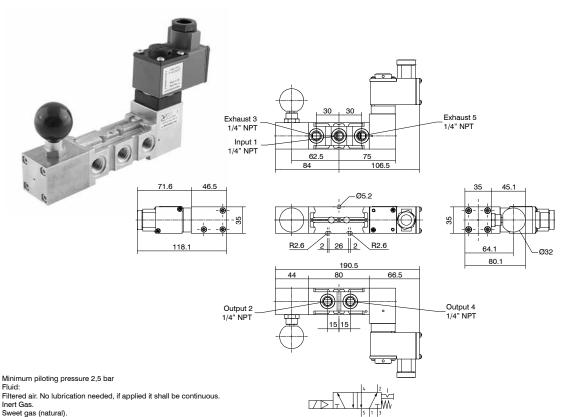
Ordering code SS1432CC@15L TENSION 1 1= 24 V DC 33 mA

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	1550	1,02	15,15		

Solenoid valve with self-locking manual reset



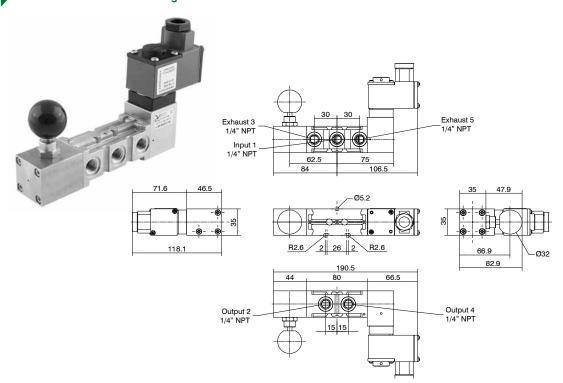


 Operational characteristics

 Maximum working pressure (bar)
 Flow rate at 6 bar with Δp=1 (Nl/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

TENSION
1= 24 V DC 33 mA

EXX

SIL

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)	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 (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	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



: Suitable up to SIL 3



: International certification for explosive atmospheres



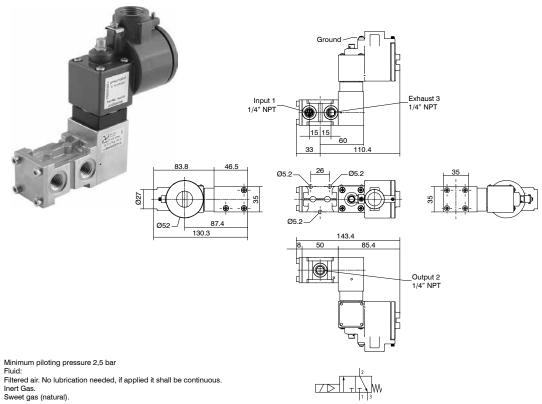
: China Compulsory Certificate

Coil marking:



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

Solenoid-spring valve



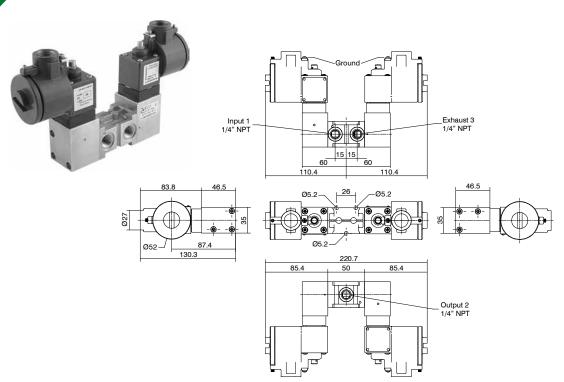
Ordering code SS1432CM101L

> Ordering code SS1432CM1M1L

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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			





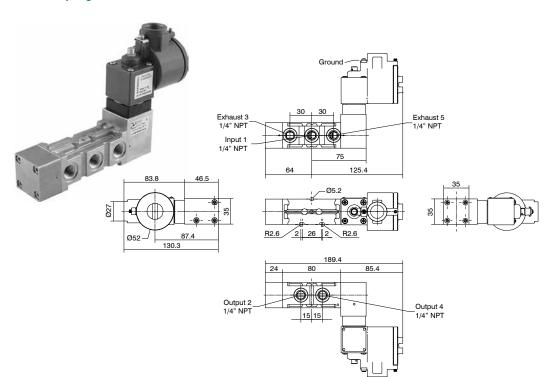
Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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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			

Process automation technology Catalogue

Solenoid-spring valve



Ordering code SS14520M101L

Minimum piloting pressure 2,5 bar Fluid:

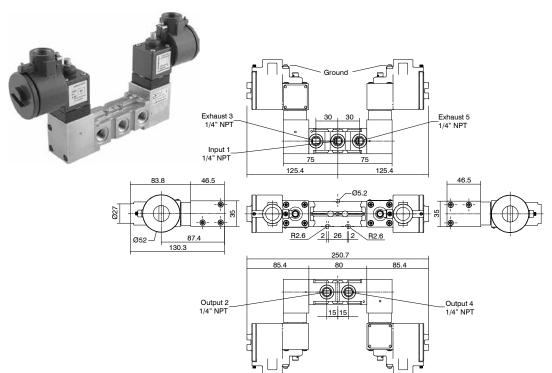
PROCESS AUTOMATION TECHNOLOGY

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			





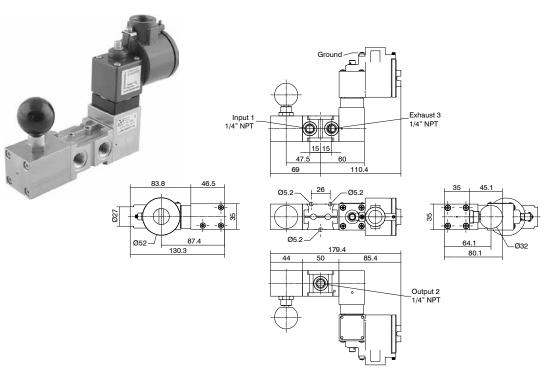
Ordering code SS14520M1M1L

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

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Operational characteristics						
Maximum working pressure (bar)						
10	1000	1/4" NPT	2750	1,02	15,15	

Solenoid valve with self-locking manual reset

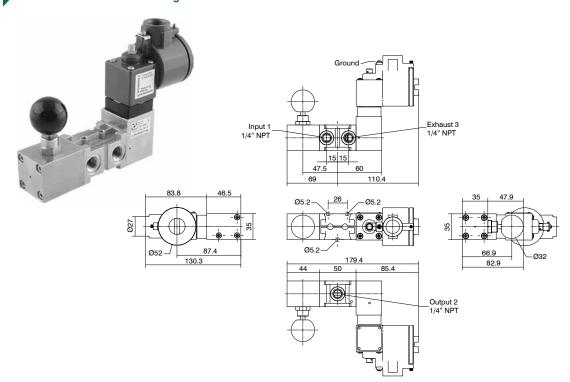




Minimum piloting pressure 2,5 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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	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.

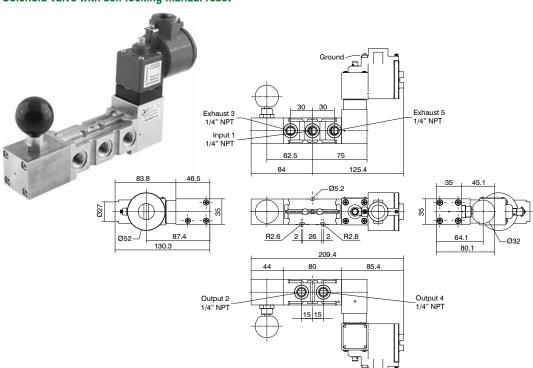
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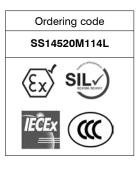
	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	1000	1/4" NPT	1850	1,02	15,15	

Process automation technology Catalogue

Series Steel line

Solenoid valve with self-locking manual reset





Minimum piloting pressure 2,5 bar

PROCESS AUTOMATION TECHNOLOGY

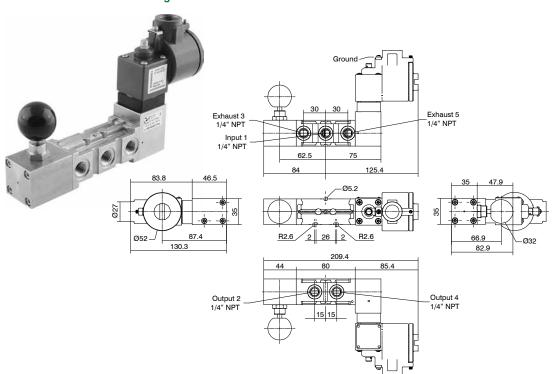
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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Operational characteristics					
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.

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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	

1/4" NPT universal function solenoid valves - Stand alone direct acting

The 3/2 direct acting solenoid valve 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 parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 ways functions, normally open, normally closed, selector and diverter designed according to the following configuration: solenoid-spring valve, solenoid spring valve with manual override and solenoid valve with manuale reset.

Pneumax solenoid valves have 1/4" NPT connections with 480 NI/min maximum flow rate.

This version is designed for single mounting only. Any fittings must be installed using medium-strength thread sealant on the threaded connections.

Construction characteristics

Body	AISI 316L stainless steel	
Spool	AISI 303 stainless steel	
Spacers	AISI 303 stainless steel	
Spring	AISI 302 stainless steel	
Screws	AISI 316 stainless steel (A4-70 stainless steel)	
Seals	NBR for low temperatures	
	Silicone	

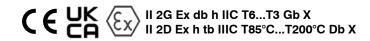
Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.
	Inert Gas.
	Sweet gas and liquid (natural).
Operating temperature (for low temperature version L)	-30°C+80°C (DC version) & -30°C+55°C (AC version)
Operating temperature (for low temperature version S)	-50°C+80°C (DC version) & -50°C+55°C (AC version)
Maximum operating pressure	10 bar

Electrical (Electropilot) construction characteristics

Housing	Stainless steel with epoxy paint	
Core	Ferromagnetic stainless steel	
Springs	AISI 302 stainless steel	
Seals	Silicone	
Wire insulation	Н	
Guide tube	Stainless steel	
Nominal voltage	24 V DC / 24 V AC / 110 V AC /220 V AC	
Power consumption DC	3 W	
Power consumption AC	9,5 VA	
Connection for cable entry	M20x1.5 / 1/2" NPT	
Electrical connection	Screw terminals 2 Poles 2.5 mm	
IP Rating	IP66	
Tolerance on voltage supply	-5% +10%	
ED continuous service	100%	

Certifications available:







Coil marking



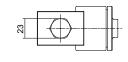


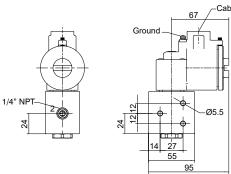
Solenoid valve direct acting

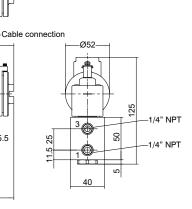
Catalogue

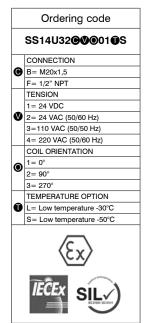
Process automation technology















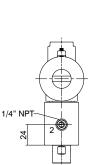


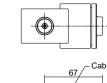


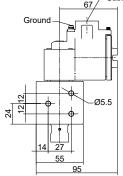
Operational characteristics					
Maximum working pressure (bar) Flow rate at 6 bar with $\Delta p=1$ (NI/min) Connections Weight (g) Cv kv					
10	480	1/4" NPT	1550	0,49	7,27

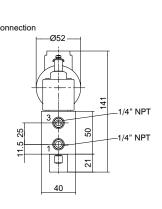
Solenoid valve direct acting with manual override











	Ordering code				
	SS14U32 @♥⊚ P1 ① S				
	CONNECTION				
Θ	B= M20x1,5				
	F= 1/2" NPT				
	TENSION				
_	1= 24 VDC				
V	2= 24 VAC (50/60 Hz)				
	3=110 VAC (50/50 Hz)				
	4= 220 VAC (50/60 Hz)				
	COIL ORIENTATION				
•	1 = 0°				
•	2= 90°				
	3= 270°				
	TEMPERATURE OPTION				
O	L= Low temperature -30°C				
	S= Low temperature -50°C				
	EX SILV				









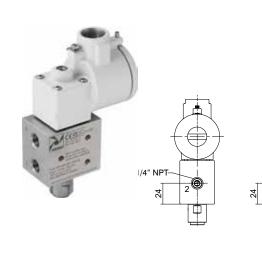
Operational characteristics							
Maximum working pressure (bar)							
10	480	1/4" NPT	1550	0,49	7,27		

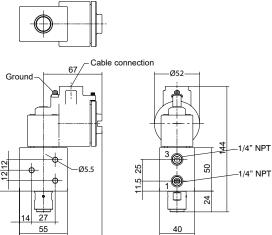
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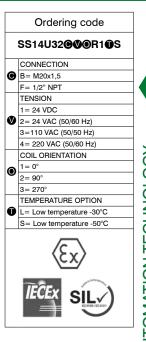
Solenoid valve direct acting with manual reset

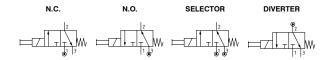
TAMPER PROOF SYSTEM

The MANUAL RESET version requires the valve to be energised and at the same time manually actuated before it can be operated.



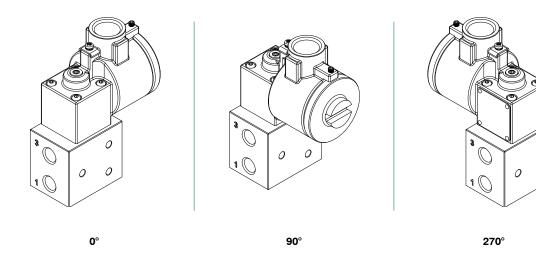






Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	480	1/4" NPT	1550	0,49	7,27

Coil orientation



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Process automation technology Catalogue

1/4" NPT universal function solenoid valves - Manifold direct acting

The 3/2 direct acting solenoid valve 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 parts are AISI 316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

The range includes solenoid valves with 3 ways functions, normally open, normally closed, selector and diverter designed according to the following configuration: solenoid-spring valve, solenoid spring valve with manual override and solenoid valve with manuale reset.

Pneumax solenoid valves have 1/4" NPT connections with 480 NI/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.

In the case of single installation, any fittings must be installed using medium-strength thread sealant on the threaded connections.

Construction characteristics

Body	AISI 316L stainless steel
Spool	AISI 303 stainless steel
Spacers	AISI 303 stainless steel
Spring	AISI 302 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	NBR for low temperatures
	Silicone

Operating range

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous.		
	Inert Gas.		
	Sweet gas and liquid (natural).		
Operating temperature (for low temperature version L)	-30°C+80°C (DC version) & -30°C+55°C (AC version)		
Operating temperature (for low temperature version S)	-50°C+80°C (DC version) & -50°C+55°C (AC version)		
Maximum operating pressure	10 bar		

Electrical (Electropilot) construction characteristics

Housing Stainless steel with epoxy paint			
Core	Ferromagnetic stainless steel		
Springs	AISI 302 stainless steel		
Seals	Silicone		
Wire insulation	Н		
Guide tube	Stainless steel		
Nominal voltage	24 V DC / 24 V AC / 110 V AC /220 V AC		
Power consumption DC	3 W		
Power consumption AC	9,5 VA		
Connection for cable entry	M20x1.5 / 1/2" NPT		
Electrical connection	Screw terminals 2 Poles 2.5 mm		
IP Rating	IP66		
Tolerance on voltage supply	-5% +10%		
ED continuous service	100%		

Certifications available:





II 2G Ex db h IIC T6...T3 Gb X
II 2D Ex h tb IIIC T85°C...T200°C Db X



Ex db h IIC T6...T3 Gb Ex h tb IIIC T85°C...T200°C Db



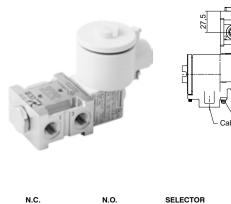
: Suitable up to SIL 3

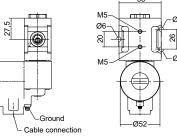
Coil marking

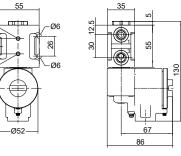


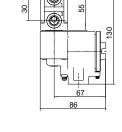
II 2G Ex db IIC T6...T3 Gb II 2D Ex tb IIIC T85°C...T200°C Db

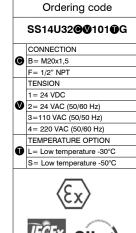
Solenoid valve direct acting















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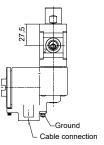


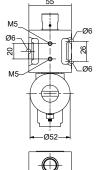
DIVERTER

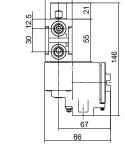
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	480	1/4" NPT	1450	0,49	7,27

Solenoid valve direct acting with manual override









	Ordering code
	SS14U32 @Ø 1P1 @ G
	CONNECTION B= M20x1,5
Θ	B= M20x1,5
	F= 1/2" NPT
	TENSION

- 1= 24 VDC 2= 24 VAC (50/60 Hz) 3=110 VAC (50/50 Hz)
- 4= 220 VAC (50/60 Hz) TEMPERATURE OPTION L= Low temperature -30°C

S= Low temperature -50°C







Ħ.	2 1 3

N.C.







Operational cl	haracteristics	
Connections	Moight (g)	

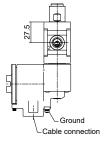
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	480	1/4" NPT	1450	0,49	7,27

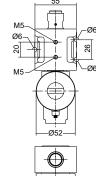
Solenoid valve direct acting with manual reset

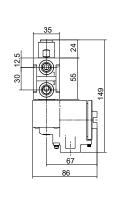
TAMPER PROOF SYSTEM

The MANUAL RESET version requires the valve to be energised and at the same time manually actuated before it can be operated.









Θ	CONNECTION B= M20x1,5
•	F= 1/2" NPT
	TENSION
	1 = 24 VDC
V	2= 24 VAC (50/60 Hz)
	3=110 VAC (50/50 Hz)
	4= 220 VAC (50/60 Hz)
	TEMPERATURE OPTION
O	L= Low temperature -30°C
	S= Low temperature -50°C





N.C.	N.O.	SELECTOR	DIVERTER
2 1 3	2 1 1 3	1 3 W	P 2

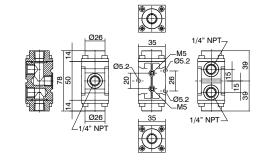
1	Operational characteristics					
	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
	10	480	1/4" NPT	1450	0,49	7,27

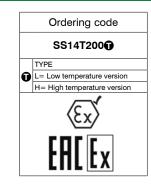
Flow divider, 2 outputs



Different types of dividers available on request.

PROCESS AUTOMATION TECHNOLOGY





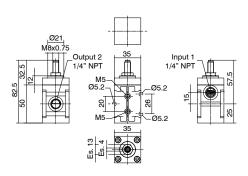
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	1700	1/4" NPT	390	1,73	25,75

Flow regulator 1/4" NPT









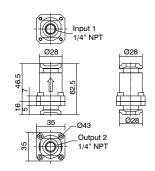
	Ordering code				
	SS14RF@				
	FUNCTION				
0	U= Unidirectional				
_	B= Bidirectional				
	TYPE				
O	L= Low temperature version				
	H= High temperature version				
	EAL Ex				

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

Double seal non return valve







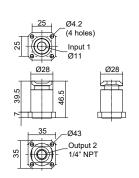
	Ordering code					
	SS14VUS					
	TYPE					
ø	L= Low temperature version					
	H= High temperature version					
	(Ex)					
	EHI Ex					

Operational characteristics					
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







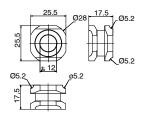
	Ordering code					
	SS14VUG ⊕					
	TYPE					
L= Low temperature version						
	H= High temperature version					
⟨£x⟩						
	EH[Ex					

Operational characteristics					
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





Weight 0,45 g



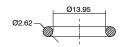
Ordering code

SS1490

Seal OR 2,62 x 13,95

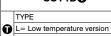


Weight 0,38 g 100-pieces pack





H= High temperature version



Mounting kit "A"







Mounting kit "B"







Ordering code





Weight 55 g Kit includes:

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

Single deployment flange



Ordering code

Ordering code

SS14A

SS14C

Fixing bracket

Weight 48 g Kit includes:



Weight 125 g Kit includes: Nr. 2 Screws M5x8 AISI 316

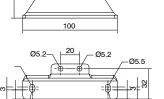
Nr. 1 Flange

Nr. 1 Front flange Nr. 1 Thareaded rear flange Nr. 1 Screw M5x35 AISI 316



Ordering code SS14M5

25



Weight 55 g Kit includes: Nr. 1 Single deployement flange Nr. 3 Screws M5x40 AISI 316

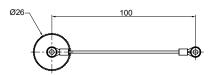
Nr. 2 Screws M5x8 AISI 316

Key selector cap



Weight 32 g Kit includes: Nr. 1 Screw M4x8 AISI 316



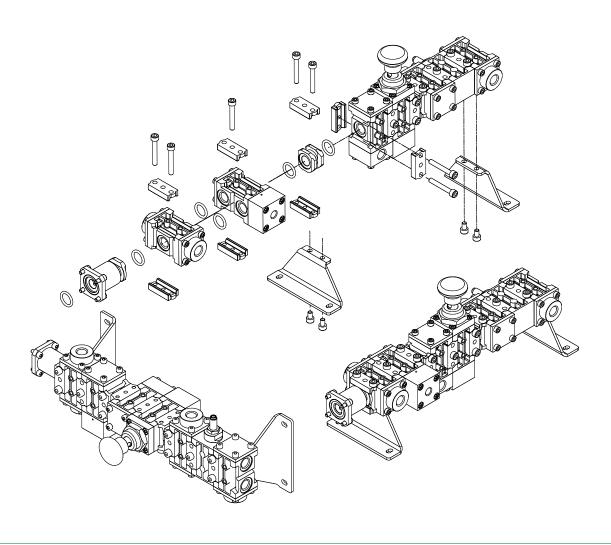


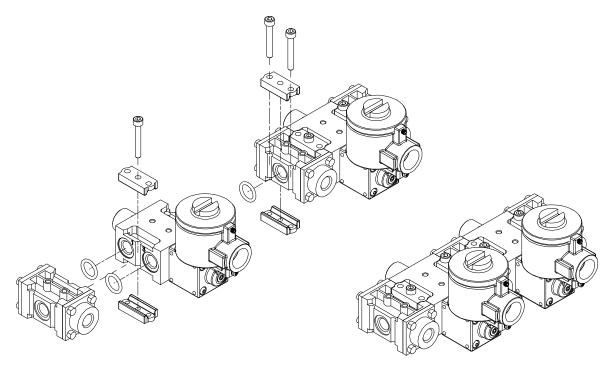
Ordering code

-Ø5.5

SS14TC

Example: group assembly scheme





ATTENTION:

The operating characteristics of the unit may change depending on its composition. Consider the technical and operating characteristics with reference to the individual elements that will make up the unit.



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.

Valves, 1/2" 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, 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

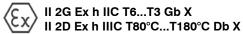
Body	AISI 316L stainless steel
Operators	AISI 316L stainless steel
Spool	AISI 316L stainless steel
Spring	AISI 316 stainless steel
Screws	AISI 316 stainless steel (A4-70 stainless steel)
Seals	FPM (Fluoroelastomer)
	NBR and PU (Polyurethane) for low temperatures (-50°C) standard

Operating range

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:







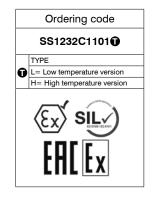


Pneumatic-spring valve



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

Ø6.5 Ø6.5 135.5 73 45 Output 2 1/2" NPT 1/2" NPT Exhaust 3 1/2" NPT 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 Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas. Sweet gas (natural).

Piloting 10 1/8" NPT Ø6.5 134 ____ _Input 1 _ 1/2" NPT Output 2 1/2" NPT Exhaust 3 1/2" NPT Piloting 12 1/8" NPT

SS1232C11111 TYPE L= Low temperature version H= High temperature version		Ordering code
L= Low temperature version		SS1232C1111 ⊕
9		TYPE
H= High temperature version	ø	L= Low temperature version
		H= High temperature version

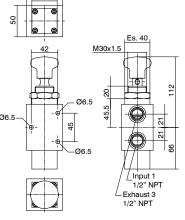
	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	2001	3,55	53,03

2 position push-pull valve



Operating force 55N. Fluid:

			~		
	75.5			14	-Ø7
178	73				-
	29.5	Oı	ıtpu	12	
		1/2	2" N	PT 2	



	Ordering code					
	SS1232C0802					
	TYPE					
O	L= Low temperature version					
	H= High temperature version					
	EHL Ex					

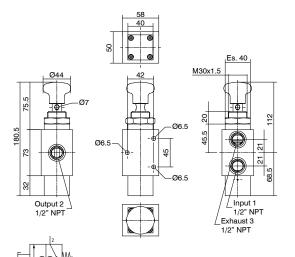
Filtered air. No lubrication neede Inert Gas. Sweet gas (natural).	d, if applied it shall be continuous.	T 1 3		
		Operational ch	aracteristics	
	F1 1 1 0 1 111			

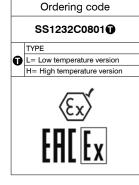
	Operational characteristics					
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (NI/min)		Connections	Weight (g)	Cv	kv	
12	3500	1/2" NPT	2027	3,55	53,03	

Push button-spring valve



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



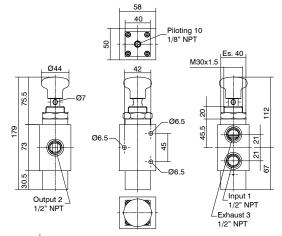


	Operational characteristics				
Maximum working pressure (bar) Flow rate at 6 bar with Δp=1 (Nl/min) Connections Weight (g)				Cv	kv
12	3500	1/2" NPT	2000	3,55	53,03

Push button-pneumatic return valve



Fluid: Filtere Inert C Sweet



	Ordering code
	SS1232C08111
	TYPE
O	L= Low temperature version
	H= High temperature version
	EX EH[Ex

prication needed, if applied it shall be continuous		2	
incation needed, if applied it shall be continuous	· _ 	$\overline{}$	
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al).		1	3

ered air. No lubrication needed, if applied it shall be continuous. rt Gas. eet gas (natural).	Ţ	1	3
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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	2012	3,55	53,03

Pneumatic 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).

t	
Input 1 1/2" NPT	Exhaust 3 1/2" NPT 60.5 67
50 40 80 80 80 80 80 80 80 80 80 80 80 80 80	06.5 45 06.5 102.4 86.4 86.4 86.4 06.5 06.5
1/8" NPT	167.5 64 73 30.5 Output 2
	1/2" NPT

	Ordering code
	SS1232C1114
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX SILY EHIEX

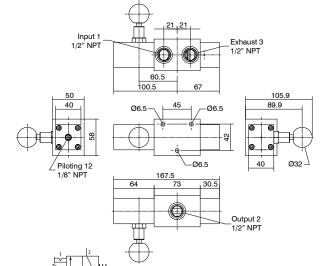
		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	2409	3,55	53,03

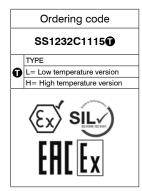
Pneumatic valve with self-locking manual reset inverted

Process automation technology



Catalogue





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

40 Exhaust 5 1/2" NPT Output 4 1/2" NPT 30 Ø6.5 115 45 39.5 32 Output 2 1/2" NPT 1/2" NPT Piloting 14 1/8" NPT Input 1 1/2" NPT

Ordering code SS1252011010 TYPE L= Low temperature version H= High temperature version

Ordering code

SS1252011111

L= Low temperature version

H= High temperature version

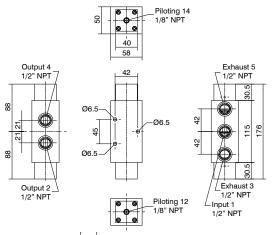
TYPE Ū

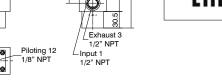
		Operational ci	naracteristics		
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	2744	3,55	53,03

Pneumatic-pneumatic valve



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



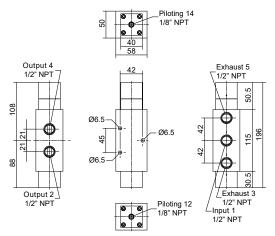


		Ор	erational characteristics			
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	3500	1/2" NPT	1/8" NPT	2790	3,55	53,03

Pneumatic-pneumatic closed centers valve

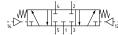


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).



	TYPE
O	L= Low temperature version
	H= High temperature version
	EAL Ex

Ordering code



		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	3500	1/2" NPT	1/8" NPT	3019	3,55	53,03

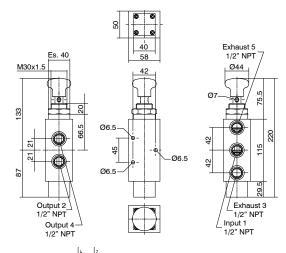
2 position push-pull valve

Catalogue



Process automation technology

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



	Ordering code
	SS125200802
	TYPE
ø	L= Low temperature version
_	H= High temperature version
	EHLEX

		Operational ch	aracteristics		
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



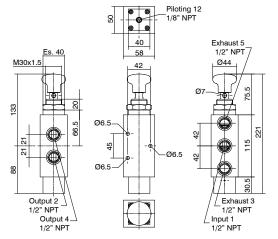
Operating force 200N Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

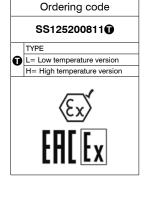
Push button-pneumatic return valve

Output 2 Exhaust 3 1/2" NPT Input 1 1/2" NPT Input 1 1/2" NPT Input 1 Input 1

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

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





4	
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5	Ī

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

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 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.

_			
('Anei	truction	charac	teristics

AISI 316L stainless steel
AISI 316L stainless steel
AISI 316 stainless steel
AISI 316 stainless steel (A4-70 stainless steel)
NBR for low temperatures
FPM (Fluoroelastomer) (available on request)
_

Operating range

Tiulu	Filtered air. No lubrication needed, it 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

Liectrical (Liectrophot) construction che		
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%	

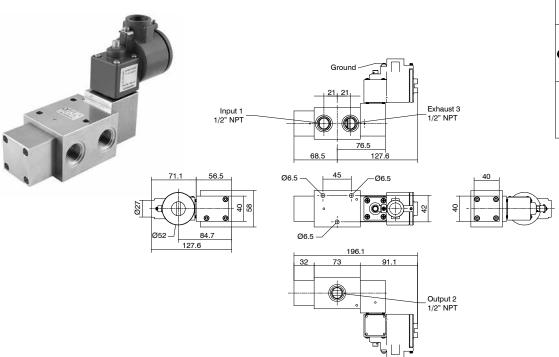
Certifications available:

Non ATEX marked product



Process automation technology Catalogue

Solenoid-spring valve



Ordering code SS1232CA**⊕**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

PROCESS AUTOMATION TECHNOLOGY

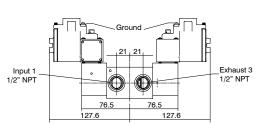
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

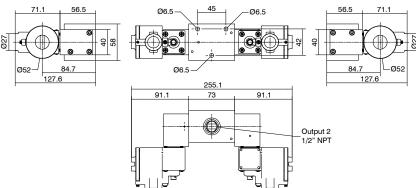
Sweet gas (natural).

Operational characteristics						
10	3500	1/2" NPT	2776	3,55	53,03	

Solenoid-solenoid valve







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 SS1232CATATL

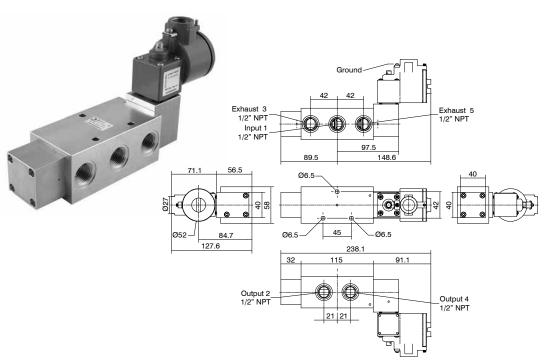
Minimum piloting pressure 3 bar Fluid:

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	3909	3,55	53,03

Solenoid-spring valve



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)

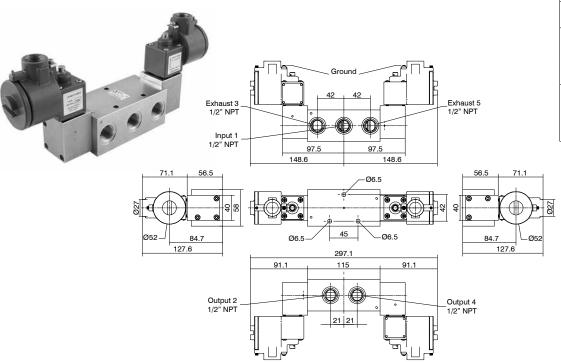
Minimum piloting pressure 3 bar Fluid:

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	3679	3,55	53,03





Ordering code SS12520A (A)A(I)L 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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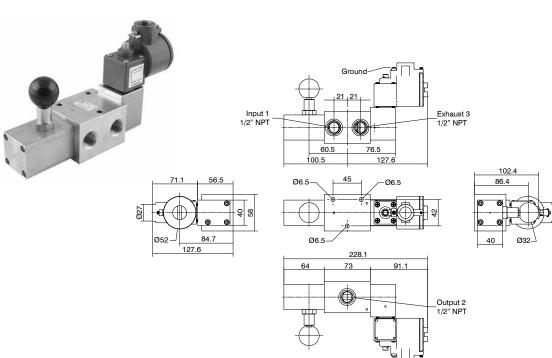
	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	3500	1/2" NPT	4678	3,55	53,03	



Solenoid valve with self-locking manual reset

Catalogue

Process automation technology



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

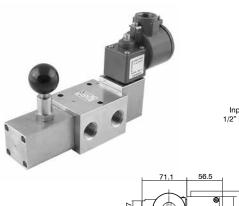
Filtered air. No lubrication needed, if applied it shall be continuous.

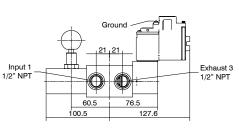
Inert Gas. Sweet gas (natural).

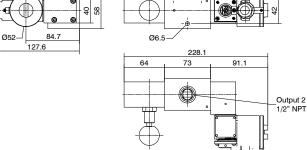
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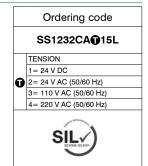
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3358	3,55	53,03

Solenoid valve with self-locking manual reset inverted









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Minimum piloting pressure 3 bar	
Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.	T f
Inert Gas. Sweet gas (natural).	
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	3360	3,55	53,03	

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-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

Spring Spring	AISI 316L stainless steel AISI 316 stainless steel	
Screws	AISI 316 stainless steel 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:





II 2G Ex h IIC T6...T3 Gb X II 2D Ex h IIIC T85°C...T200°C Db X



: Suitable up to SIL 3



International certification for explosive atmospheres



: China Compulsory Certificate

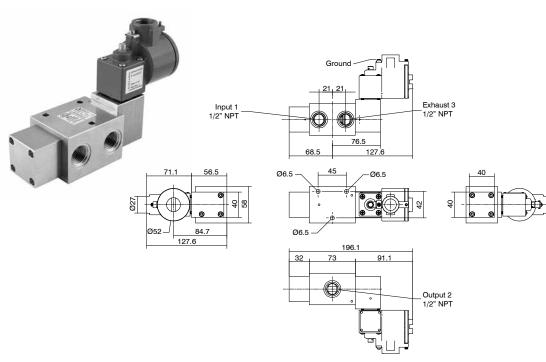
Coil marking:



II 2G Ex db IIC T6...T3 Gb II 2D Ex tb IIIC T85°C...T200°C Db

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

Solenoid-spring valve



Ordering code SS1232CB**⊕**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

Minimum piloting pressure 3 bar

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

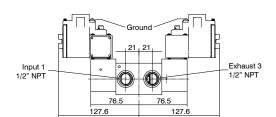
Inert Gas. Sweet gas (natural).

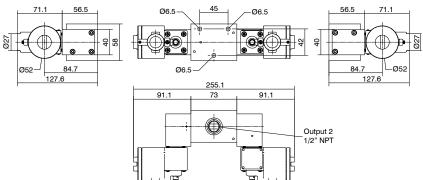
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Operational characteristics						
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv	
10	3500	1/2" NPT	2776	3,55	53,03	

Solenoid-solenoid valve







Ordering code SS1232CBOBOL TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

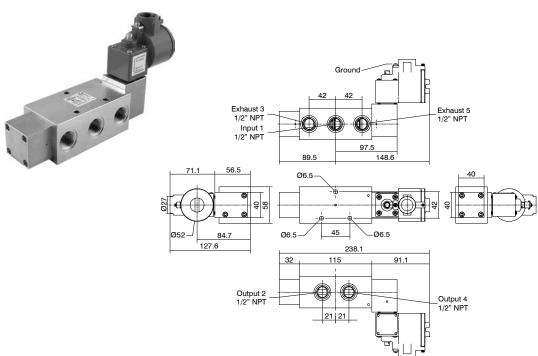
Minimum piloting pressure 3 bar Fluid:

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

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	Operational 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

Solenoid-spring valve



Ordering code SS12520B**⊕**01L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)





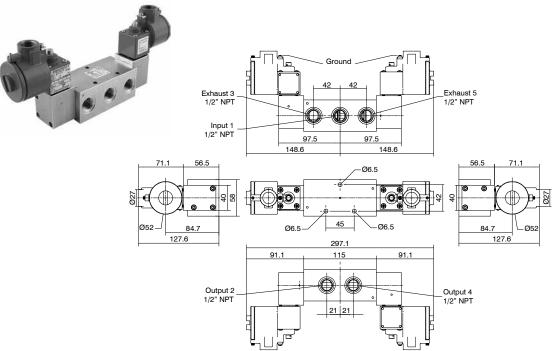
Minimum piloting pressure 3 bar Fluid: Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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	3679	3,55	53,03





Ordering code SS12520B B B CL TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)



Minimum piloting pressure 3 bar

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

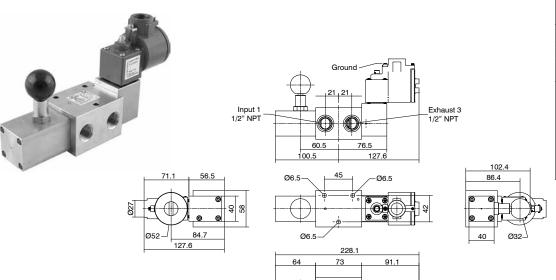
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	Operational characteristics				
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	4678	3,55	53,03

Output 2 1/2" NPT

Process automation technology Catalogue

Solenoid valve with self-locking manual reset



Ordering code SS1232CB €14L TENSION 1= 24 V DC 2= 24 V AC (50/60 Hz) 3= 110 V AC (50/60 Hz) 4= 240 V AC (50/60 Hz)

Minimum piloting pressure 3 bar Fluid:

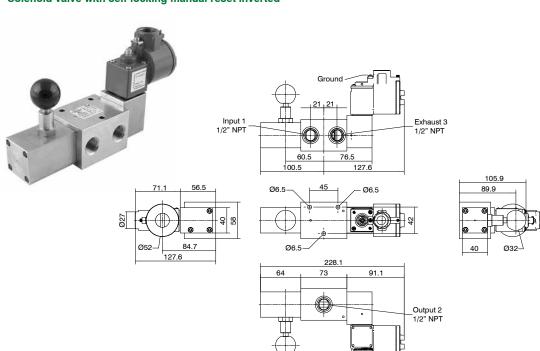
PROCESS AUTOMATION TECHNOLOGY

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	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			
ø	2= 24 V AC (50/60 Hz)			
	3= 110 V AC (50/60 Hz)			
	4= 240 V AC (50/60 Hz)			
	Ex SIL			
	IECEX (((

Minimum piloting pressure 3 bar Fluid:

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

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	Operational characteristics					
Ма	aximum 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

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.

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 exitable expection terminate in limited by the most vertical in accompany which is the wilst representation					

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
lmax:	0,67 A
Wmax: in	2,98 W

Certifications available:





II 2D Ex h IIIB T135°C Db X



: Suitable up to SIL 3



International certification for explosive atmospheres

Coil marking:



ATEX and SIL: refer to products in the various sections to the catalogues.

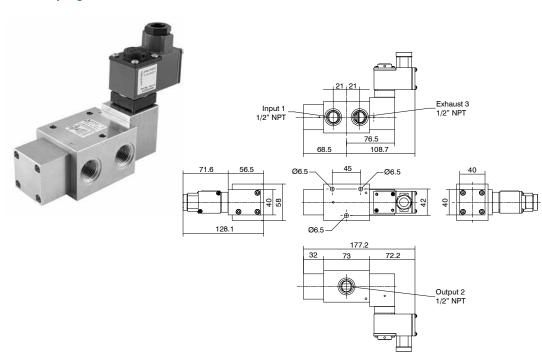
IECEx: refer to Pneumatrol pilots installed upon each valve.

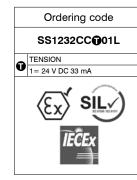
FM Approval: available on request on Pneumatrol pilots

Solenoid-spring valve

Catalogue

Process automation technology





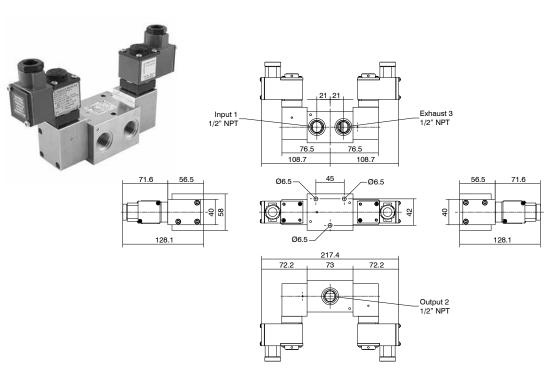
Minimum piloting pressure 3 bar Fluid:

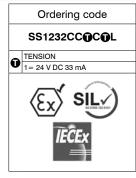
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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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





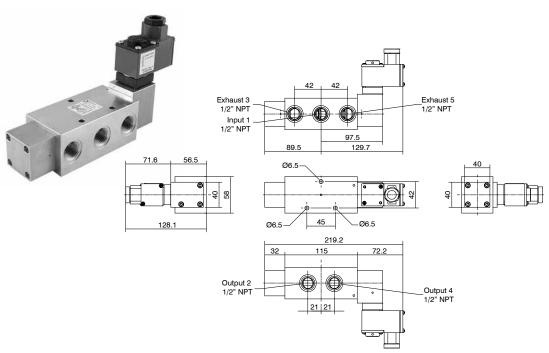


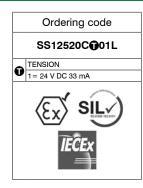
Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous.

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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

Solenoid-spring valve



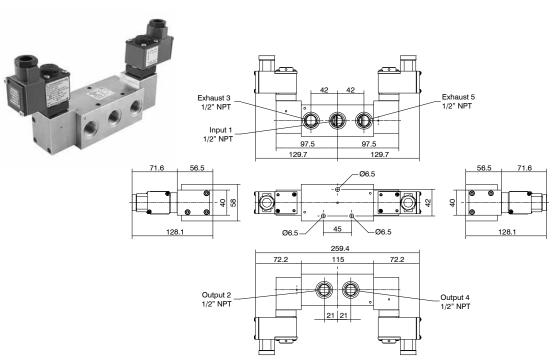


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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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	3349	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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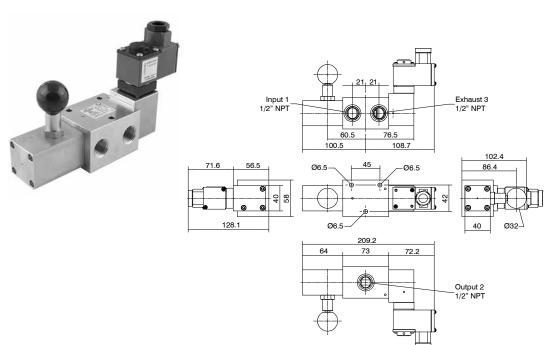
Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv
10	3500	1/2" NPT	3749	3,55	53,03



Catalogue

Solenoid valve with self-locking manual reset

Process automation technology





Minimum piloting pressure 3 bar Fluid:

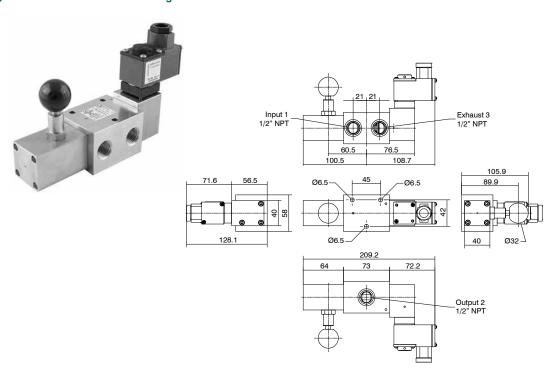
Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas.

Sweet gas (natural).

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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			

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 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

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%	

Flectrical enecifications for intrinsically safe

	any care	
Umax: in	31 V DC	
Imax:	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



: Suitable up to SIL 3



: International certification for explosive atmospheres



: China Compulsory Certificate

Coil marking:

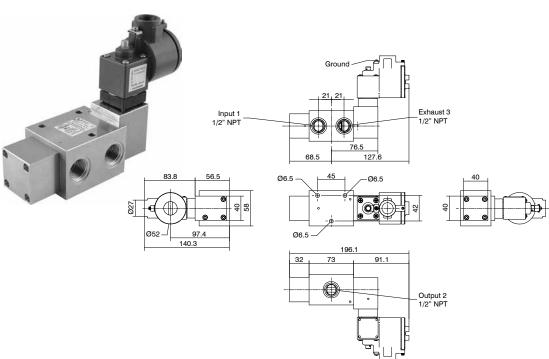


ATEX and SIL: refer to products in the various sections to the catalogues. **IECEx and CCC:** refer to Pneumatrol pilots installed upon each valve.



Process automation technology Catalogue





Ordering code SS1232CM101L

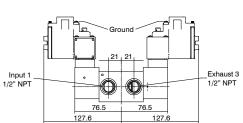
Minimum piloting pressure 3 bar Fluid: Fittered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

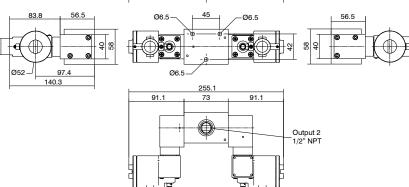
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Operational characteristics						
10	3500	1/2" NPT	2776	3,55	53,03	

Solenoid-solenoid valve







Ordering code SS1232CM1M1L







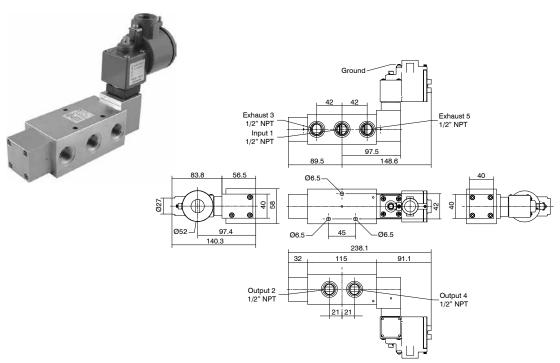


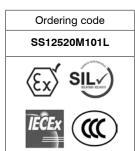
Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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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	3909	3,55	53,03	

Solenoid-spring valve



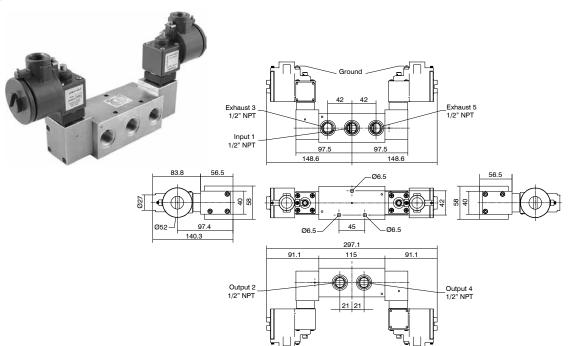


Minimum piloting pressure 3 bar Fluid: Filtered air. No lubrication needed, if applied it shall be continuous. Inert Gas. Sweet gas (natural).

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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	3679	3,55	53,03		





Ordering code SS12520M1M1L

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

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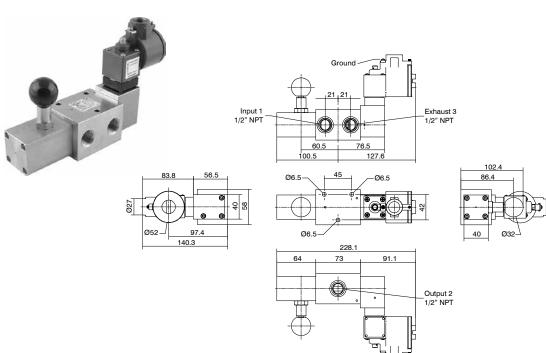
Operational characteristics							
Maximum working pressure (bar) Flow rate at 6 bar with (bar) Connections Weight (g) Cv							
10	3500	1/2" NPT	4678	3,55	53,03		



Catalogue

Process automation technology

Solenoid valve with self-locking manual reset



Ordering code SS1232CM114L

Minimum piloting pressure 3 bar Fluid:

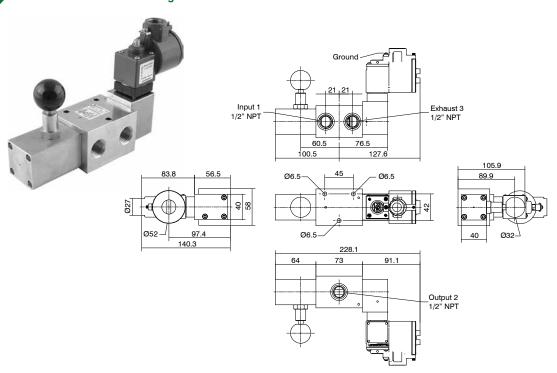
Filtered air. No lubrication needed, if applied it shall be continuous.

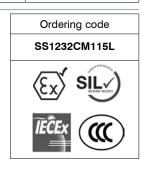
Inert Gas. Sweet gas (natural).

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		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	3358	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.

	2	1
t	TX	
۱,	- +`	∖ W
	1	3

	Operational characteristics						
10	3500	1/2" NPT	3360	3,55	53,03		



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.

Valves 3/4" 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 3/4" NPT connections with 10000 NI/min maximum flow rate.

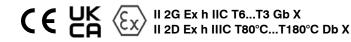
This version only provides single mounting.

Construction characteristics

D. J	AIOLOGO de la
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 Goo

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

Certifications available:









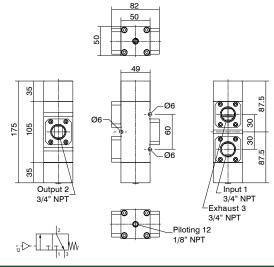
Pneumatic-spring valve



Minimum piloting pressure 3 bar

Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 8 bar.

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



	Ordering code					
	SS3432C1101					
	TYPE					
O	L= Low temperature version					
_	H= High temperature version					
	EX SILY EN[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	10000	3/4" NPT	1/8" NPT	3190	10,16	151,51	

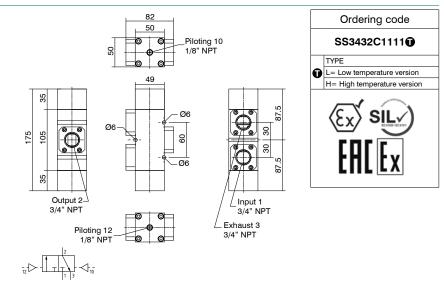
Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 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	10000	3/4" NPT	1/8" NPT	3165	10,16	151,51	

Pneumatic-spring valve

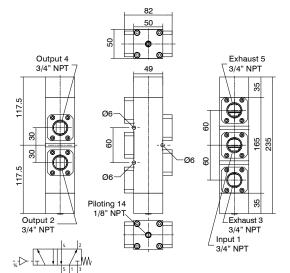


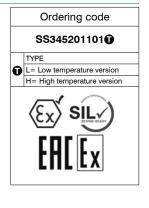
Minimum piloting pressure 3 bar

Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 8 bar.

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

Sweet gas (natural).



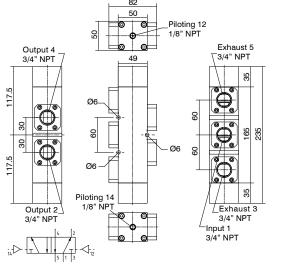


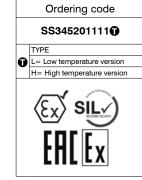
	Operational characteristics						
Maxin	num working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
	12	10000	3/4" NPT	1/8" NPT	4345	10,16	151,51

Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar
Maximum piloting pressure (for low temperature version L) 10 bar.
Maximum piloting pressure (for high temperature version H) 8 bar.
Fluid:
Flittered air. No lubrication needed, if applied it shall be continuous.
Inert Gas.
Sweet gas (natural).





			Oβ	erational characteristics			
N	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

Process automation technology Catalogue

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.

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.

Operating temperature (for high temperature version H)

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

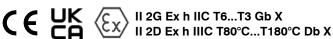
-10°C ... +150°C

12 bar

Certifications available:

Maximum operating pressure











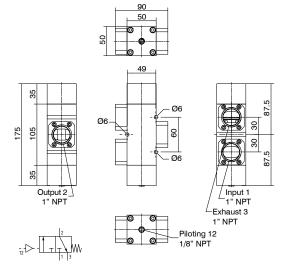
Pneumatic-spring valve

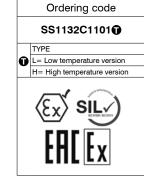


Minimum piloting pressure 3 bar Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 8 bar. Fluid:

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	3180	13,72	204,54

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

Series Steel line

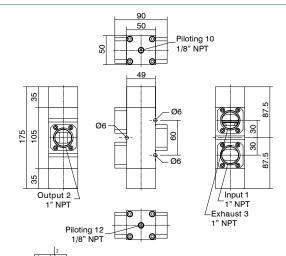
Pneumatic-pneumatic valve



Minimum piloting pressure 3 bar Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 8 bar. Fluid:
Filtered air. No lubrication needed, if applied it shall be continuous.

Inert Gas.

Sweet gas (natural)



Ordering code
SS1132C1111 ⊕
TYPE
L= Low temperature version
H= High temperature version
Ex silv EH[Ex

		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	13500	1" NPT	1/8" NPT	3155	13,72	204,54

Pneumatic-spring valve



Minimum piloting pressure 3 bar

Maximum piloting pressure (for low temperature version L) 10 bar. Maximum piloting pressure (for high temperature version H) 8 bar.

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

Sweet gas (natural).

Output 4 1" NPT 7	90 50	Exhaust 5 \(\nabla_1"\)\PT
Output 2	Piloting 14 1/8" NPT	Exhaust 3 1" NPT Input 1 1" NPT

	Ordering code
	SS115201101 ①
	TYPE
O	L= Low temperature version
Ĺ	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	4325	13,72	204,54

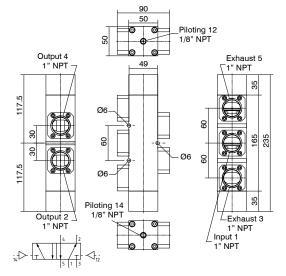
Pneumatic-pneumatic valve

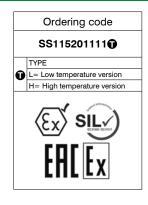
Catalogue

Process automation technology



Minimum piloting pressure 3 bar
Maximum piloting pressure (for low temperature version L) 10 bar.
Maximum piloting pressure (for high temperature version H) 8 bar.
Fluid:
Filtered air. No lubrication needed, if applied it shall be continuous.
Inert Gas.
Sweet gas (natural).

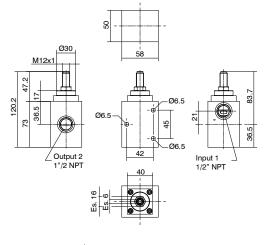


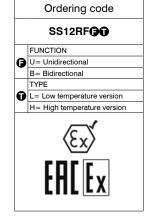


	Operational characteristics					
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Pilot connections	Weight (g)	Cv	kv
12	13500	1" NPT	1/8" NPT	4305	13,72	204,54

Flow regulator 1/2" NPT









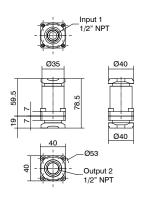


Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered air. No lubrication needed, if applied it shall be continuous.

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

Double seal non return valve





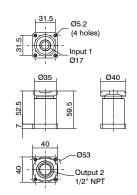
	Ordering code					
	SS12VUS					
	TYPE					
0	L= Low temperature version					
L	H= High temperature version					
	EX EHL Ex					

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	444	3,55	53,03			

Double seal non return valve for group





-		
		Ordering code
		SS12VUG ⊕
		TYPE
	O	L= Low temperature version
	-	H= High temperature version
		ENC 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





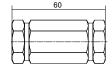




	Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv			
210	680	0,2	0,2	-25 +205	107	0,69	10,30			

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







Ordering code
SS38VU03SV6N
⟨£x⟩

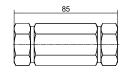
On request are available versions with temperature range: -55°C ... +150°C



	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	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	
\c.\\	

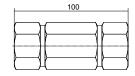
On request are available versions with temperature range: -55°C ... +150°C

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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	2650	0,2	0,2	-25 +205	380	2,69	40,15		

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







Ordering code

SS34VU03SV12N

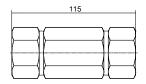


On request are available versions with temperature range: -55°C ... +150°C

Operational 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°C

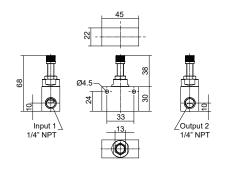
	Operational characteristics								
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Weight (g)	Cv	kv		
210	5500	0,2	0,2	-25 +205	774	5,59	83,33		

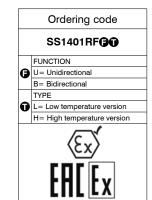










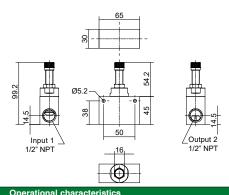


Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Temperature °C		Cv	kv		
12	700	1/4" NPT	219	-50 +70 (version L)	-10 +150 (version H)	0,71	10,60		

Flow regulator 1/2" NPT single use







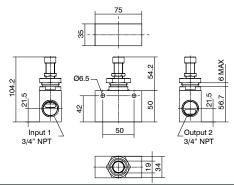
	Ordering code								
	SS1201RF @								
	FUNCTION								
0	U= Unidirectional								
	B= Bidirectional								
	TYPE								
ø	L= Low temperature version								
	EX EALEX								

	Operational characteristics											
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Temperature °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







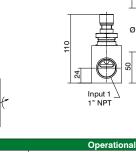
	Ordering code
	SS3401RF@@
	FUNCTION
0	U= Unidirectional
_	B= Bidirectional
	TYPE
ø	L= Low temperature version
_	H= High temperature version
	EAL Ex

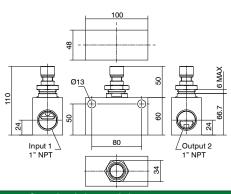
	Operational characteristics											
				ature °C	Cv	kv						
12	2800	3/4" NPT	925	-50 +70 (version L)	-10 +150 (version H)	2,84	42,42					

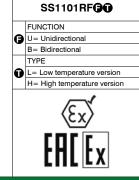
Flow regulator 1" NPT single use











Ordering code

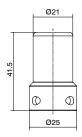
Operational characteristics									
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Temper	Cv	kv			
12	3300	1" NPT	2000	-50 +70 (version L)	-10 +150 (version H)	3,35	50		

PROCESS AUTOMATION TECHNOLOGY

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

Ordering code
SS14RFK





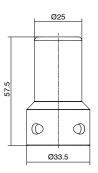
Note: Available for 1/4" NPT flow regulator We suggest using a long shackle padlock: Shackle diameter $\leq 4mm$ The padlock is not supplied with the product. Weight 40 g

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

Ordering code

SS12RFK





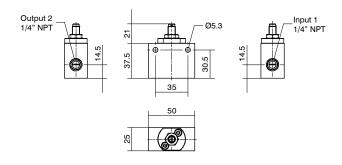
Note: Available for 1/2" NPT flow regulator We suggest using a long shackle padlock: Shackle diameter $\leq 5 mm$ The padlock is not supplied with the product. Weight 75 g

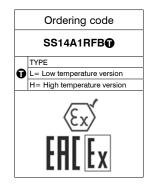
Bidirectional flow regulator 1/4" NPT high flow rate

Catalogue

Process automation technology







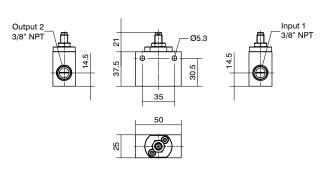
Flow rate with the needle in the fully closed position \sim 20 Nl/min

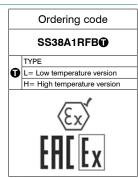


Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv					
12	2200	1/4" NPT	400	2,23	33,33					

Bidirectional flow regulator 3/8" NPT high flow rate







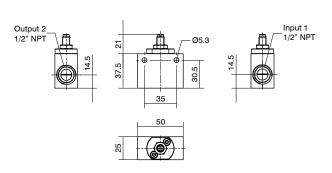
Flow rate with the needle in the fully closed position \sim 20 Nl/min



	Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=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





Ordering code

SS12A1RFB

TYPE

L= Low temperature version

H= High temperature version

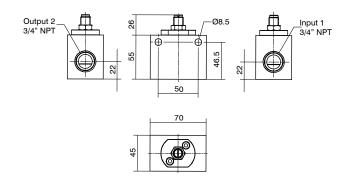
Flow rate with the needle in the fully closed position \sim 20 Nl/min

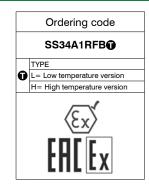


	Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv						
12	6500	1/2" NPT	360	6,60	98,48						

Bidirectional flow regulator 3/4" NPT high flow rate







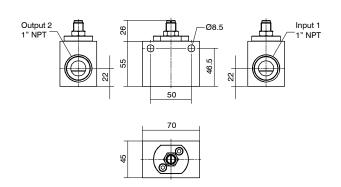
Flow rate with the needle in the fully closed position \sim 40 Nl/min

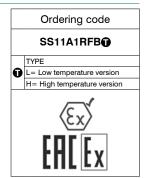


	Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Connections	Weight (g)	Cv	kv						
12	15000	3/4" NPT	1300	15,24	227,27						

Bidirectional Flow regulator 1" NPT high flow rate







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



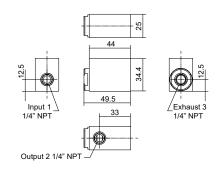
	Operational characteristics										
Maximum working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (g)	Cv	kv						
12	16500	1" NPT	1150	16,76	250						

Process automation technology Catalogue

Quick exhaust valve 1/4" NPT







	Ordering code									
	SS1402SR ⊕									
	TYPE									
O	L= Low temperature version									
Ĺ	H= High temperature version									
	EX SILY									

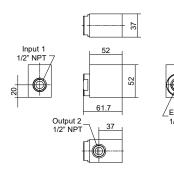
	Operational characteristics												
Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Connections	Temper	Weight (g)				
12	700	0,71	10,60	2700	2,74	40,9	1/4" NPT	-50 +70 (version L)	-10 +150 (version H)	250			

Quick exhaust valve 1/2" NPT



PROCESS AUTOMATION TECHNOLOGY





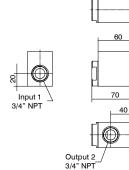
	1 100 (VC10101111) 200
	Ordering code
	SS1202SR ⊕
	TYPE
0	L= Low temperature version
	H= High temperature version
	EX SILY EH[Ex

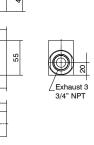
Operational characteristics										
Maximum working pressure (bar)	Inlet flow rate at 6 bar with Δp=1 (NI/min)	Cv	kv	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min)	Cv	kv	Connections	Temper	Weight (g)	
12	2000	2,03	30,30	7150	7,26	108,33	1/2" NPT	-50 +70 (version L)	-10 +150 (version H)	617,5

Quick exhaust valve 3/4" NPT









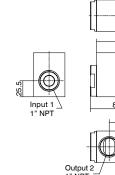
	Ordering code	
	SS3402SR ①	
	TYPE	
O	L= Low temperature version	
	H= High temperature version	
	EX SILY	

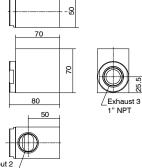
	Operational characteristics											
Maximum working pressure (bar) Inlet flow rate at 6 bar with Δp=1 (NI/min) Cv kv Flow rate from 2 to 3 at 6 bar on free exhaust (NI/min) Cv kv Connections Temperature °C								Weight (g)				
12	3000	3,04	45,45	10000	10,16	151,51	3/4" NPT	-50 +70 (version L)	-10 +150 (version H)	745		

Quick exhaust valve 1" NPT









	Ordering code
	SS1102SR ⊕
	TYPE
Ø	L= Low temperature version
	H= High temperature version
	EX SILV 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	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

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).

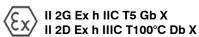
Accessories which include: non return valve, uni/bidirectional flow regulator and quick exhaust valve.

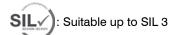
1/8" NPT pilot connection.

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:

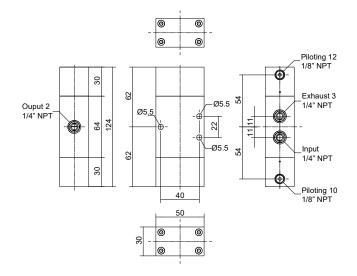






Pneumatic-Pneumatic





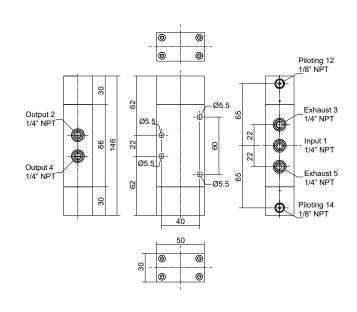
Ordering code SA1432C1111L

Minimum piloting pressure 2 bar

	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	470	1,38	20,60		

Pneumatic-Pneumatic





Ordering code SA145201111L

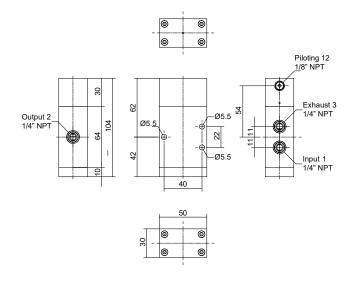


Minimum piloting pressure 2 bar

	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									kv
Filtered and lubricated air	12	-30 +70	1360	8	1/4" NPT	1/8" NPT	550	1,38	20,60

Pneumatic-Spring





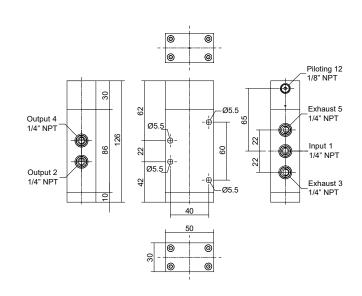
Ordering code
SA1432C1101L

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 $\Delta p = 1$ (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

Catalogue

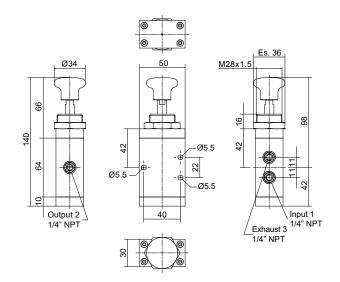
Process automation technology

Push button-pneumatic valve

Ordering code SA1432C0801L







Operating force 71,5N

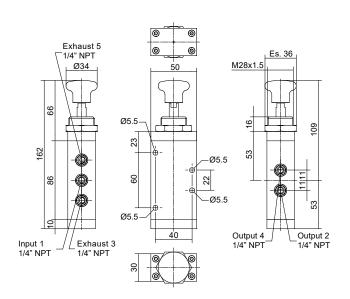
PROCESS AUTOMATION TECHNOLOGY

	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	405	1,38	20,60		

Push button-pneumatic valve







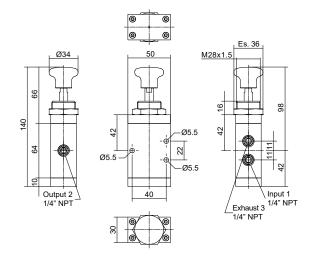


Operating force 71,5N

	Operational characteristics							
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	487	1,38	20,60

Bistable push button valve





Ordering code
SA1432C0803L

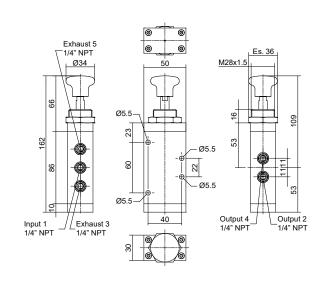


Operating force 105N

	Operational characteristics							
Fluid	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	395	1,38	20,60

Bistable push button valve





Ordering code
SA145200803L

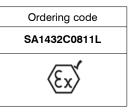


Operating force 105N

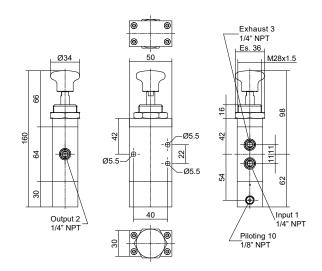
Operational characteristics								
Fluid	Fluid Maximum vorking pressure (bar) Ten Filtered and lubricated air 12		Flow rate at 6 bar with $\Delta p = 1$ (NI/min) Orifice size (mm)		Working port size	Weight (g)	Cv	kv
			1360	8	1/4" NPT	483	1,38	20,60



Push button-pneumatic valve







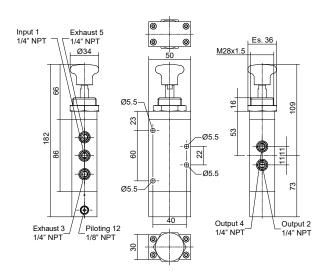
Minimum piloting pressure 2 bar

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	481	2,54	37,88

Push button-pneumatic valve







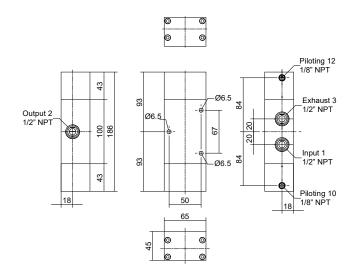


Minimum piloting pressure 2 bar

	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 Pilo	Pilot connections	Pilot connections Weight (g)		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

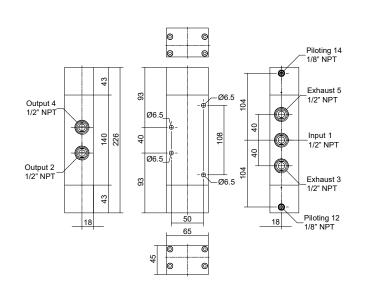


Minimum piloting pressure 2 bar

	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							
⟨Ex\ SIL√)							



Minimum piloting pressure 2 bar

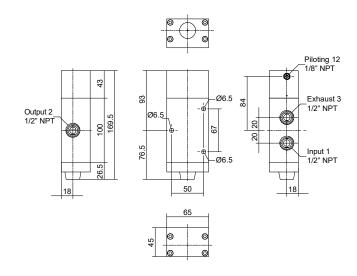
	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Weight (g)	Cv	kv
Filtered and lubricated air	12	-30 +70	2500	15	1/2" NPT	1/8" NPT	1660	2,54	37,88

PNEUMAX

Pneumatic-Spring





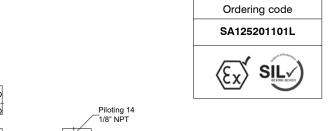


12 T T T M

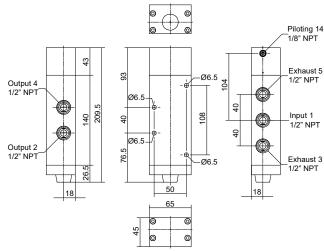
Minimum piloting pressure 2,5 bar

	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	1135	2,54	37,88

Pneumatic-Spring







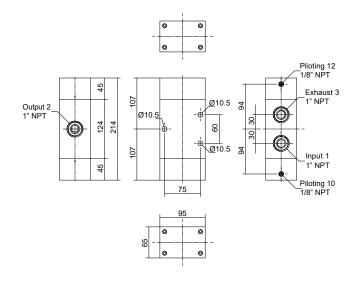


Minimum piloting pressure 2,5 bar

	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	2500	15	1/2" NPT	1/8" NPT	1430	2,54	37,88

Pneumatic-Pneumatic





Ordering code

SA1132C1111L

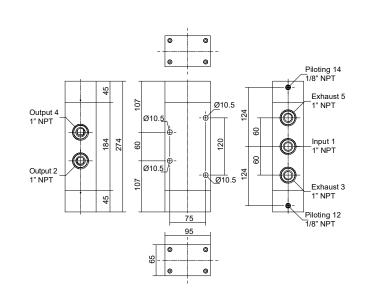
12 - 1₁₀

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









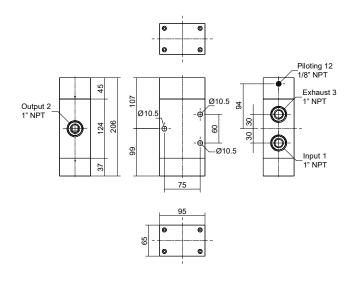
Minimum piloting pressure 2 bar

	Operational characteristics								
Fluid	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	4220	6,60	98,48

Pneumatic-Spring



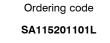




Minimum piloting pressure 2,5 bar

	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	6500	20	1" NPT	1/8" NPT	3225	6,60	98,48

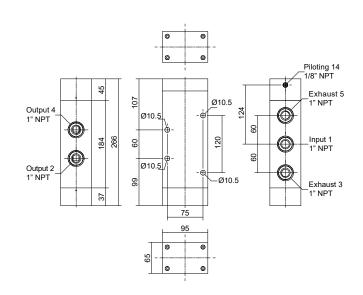
Pneumatic-Spring













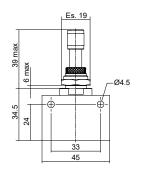
Minimum piloting pressure 2,5 bar

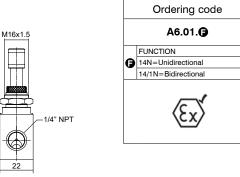
	Operational characteristics								
Fluid Maximum working pressure (bar) Temperature °C Flow rate at 6 bar with Δp=1 (NI/min) Orifice size (mm) Working port size Pilot connections Weight (g) Cv kx								kv	
Filtered and lubricated air	12	-30 +70	6500	20	1" NPT	1/8" NPT	4130	6,60	98,48

Flow regulator 1/4" NPT









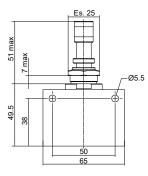
	Operational characteristics							
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv	
Filtered air	12	900	7	-30 +70	102	0,91	13,63	

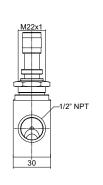
Flow regulator 1/2" NPT











	A6.01. ③
	FUNCTION
0	12N=Unidirectional
	12/1N=Bidirectional
	(EX)

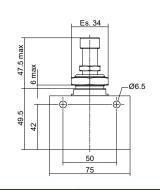
Ordering code

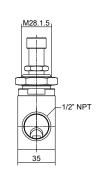
Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv	
Filtered air	12	2000	12	-30 +70	276	2,03	30,30	

Flow regulator 3/4" NPT - Unidirectional









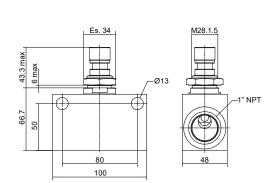
Ordering code
A6.01.34
⟨£x⟩

	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
F	Filtered air	12	2800	12	-30 +70	482	2,84	42,42

Flow regulator 1" NPT - Unidirectional







Ordering code
A6.01.11
⟨£x⟩

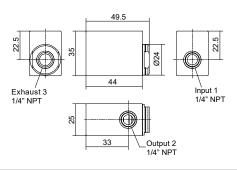
	Operational characteristics								
Fluid	Maximum working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Temperature °C	Weight (g)	Cv	kv		
Filtered air	12	3300	14	-30 +70	874	3,35	50		



Quick exhaust valve 1/4" NPT







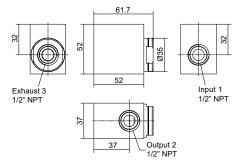
Ordering code	
A6.02.14	
⟨£x∕	

Operational characteristics									
		Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (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







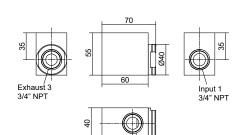
Ordering code	
A6.02.12	
€x∑	

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

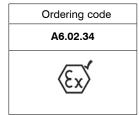






40

_Output 2 3/4" NPT



	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





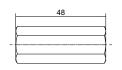
	80	
Exhaust 3 1" NPT	70 Output 2 1" NPT	Input 1 1" NPT

Ordering code
A6.02.11
Œx ∕

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







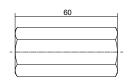
Ordering code	
A6.07.14	
⟨£x⟩	



		Operationa	l 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	1450	-30 +70	59	1,47	21,97

Non return valve 1/2" NPT







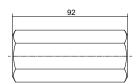
Ordering	g code
A6.07	'.12



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	3500	-30 +70	139	3,55	53,03

Non return valve 3/4" NPT





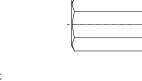


Ordering code	
A6.07.34	
⟨£x⟩	

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





l	49	1
		1" NPT

Ordering code
A6.07.11
⟨£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	9500	-30 +70	1502	9,65	143,94	



Process automation technology Catalogue

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

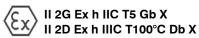
Body	Aluminium				
End covers	Aluminium				
Actuators	NBR				
Pistons	POM				
Actuator rod	Stainless steel				
Springs	Stainless steel				
Seals	NBR				
) —					

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:

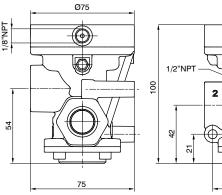


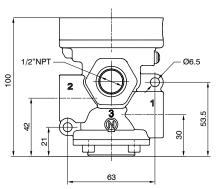


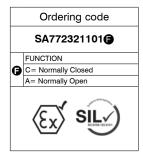


Pneumatic-Spring - 1/2" NPT









Normally closed Minimum piloting pressure 2,5 bar

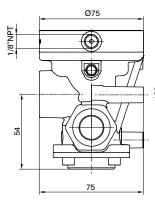


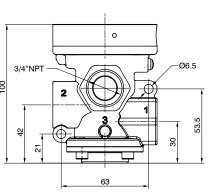


	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	4800	15	1/2" NPT	1/8" NPT	4,88	72,72	1100

Pneumatic-Spring - 3/4" NPT







	Ordering code					
	SA773321101					
	FUNCTION					
0	C= Normally Closed					
	A= Normally Open					
	(Ex) SILV					

Normally closed Minimum piloting pressure 2,5 bar



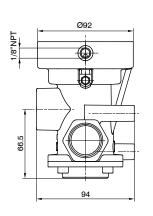


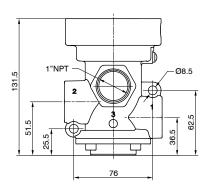
	Operational characteristics								
Fluid	Maximum working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv	Weight (g)
Filtered and lubricated air	12	-30 +70	6100	20	3/4" NPT	1/8" NPT	6,20	92,42	1050



Pneumatic-Spring - 1" NPT

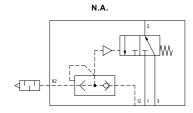








N.C.

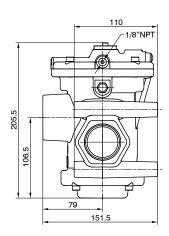


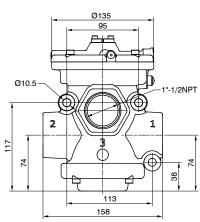
Normally closed Minimum piloting pressure 2,5 bar

	Operational 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	12000	25	1" NPT	1/8" NPT	12,19	181,81	1050

Pneumatic-Spring - 1 1/2" NPT

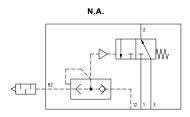








N.C.



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



Series 514 High Performance

NAMUR valves are 5/2, 4/2 and 3/2 valves and electrovalves, piloted electrically or pneumatically, utilised primarily to operate rotary actuators and wherever there is a NAMUR standard installation plan.

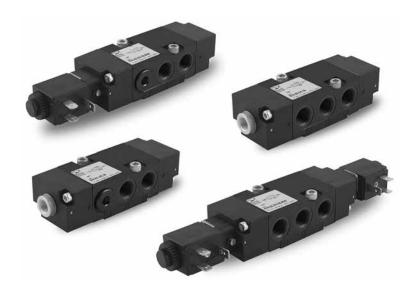
The product is classified for use in potentially explosive atmospheres (Directive 2014/34/EU).

NAMUR valves have been developed using the latest, technical design solutions which guarantee flexibility and an increased flow rate capacity exceeding that of traditional, spool valves.

 $Innovative\ material \ s\ quarantee\ high\ performances\ also\ in\ critical\ environment\ conditions.$

Available NPT and BSPT connections.

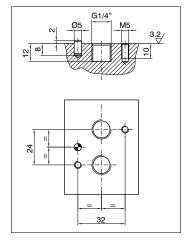
The solenoid valves are available with protection classes for zones 2-22, 1-21 solenoids Ex ec, Ex mb, Ex ia, international approvals IECEx, FM and CSA.



Construction characteristics

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

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



Certifications available





Order codes

Process automation technology Catalogue

51 4 . 52 . 00 . 39 . B04 : Standard valve X: ATEX valve (-20°C ... +40°C) - only with solenoid coils "B##","C##" e "X##" (-30°C ... +50°C) - only with solenoid coils "MHC", "MH#" Connections 4: G1/4" - supplied with plate 6: 1/4" NPT - supplied with plate Type 32: 3 ways, 2 positions 42: 4 ways, 2 positions 52: 5 ways, 2 positions 92: Universal kit version (4/2 and 5/2) 93: Universal kit version (3/2 and 5/2) 16: Pneumatic-Differential 18: Pneumatic-Pneumatic 19: Pneumatic-Spring 35: Solenoid-Solenoid 36: Solenoid-Differential 39: Solenoid-Spring Protection method of Voltages Valve marking with ATEX solenoid coil the ATEX solenoid coil B00: Ø10 stem without solenoid coil to be used with the following solenoid coils B04: 12 V DC - for all models B05: 24 V DC - for all models B09: 24 V DC (2W) - only for standard model B56: 24 V AC (50-60 Hz) - for all models B57: 110 V AC (50-60 Hz) - for all models B58: 230 V AC (50-60 Hz) - for all models (长龄) II 3G Ex h IIC T4 Gc X Ex ec Ex tc C04: 12 V DC - for all models C05: 24 V DC - for all models C09: 24 V DC (2W) - only for standard model C56: 24 V AC (50-60 Hz) - for all models C57: 110 V AC (50-60 Hz) - for all models C58: 230 V AC (50-60 Hz) - for all models F00: Ø9 stem without solenoid coil / to be used with the following solenoid coils X05: 24 V DC - only for ATEX model EX : C € EK II 2G Ex h IIC T4 Gb X X56: 24 V AC (50-60 Hz) - only for ATEX model Ex mb **X57**: 110 V AC (50-60 Hz) - only for ATEX model てらいる II 2D Ex h IIIC T135°C Db X IP65 X58: 230 V AC (50-60 Hz) - only for ATEX model MHC: 24 V DC T6 - only for ATEX model Ex ia complete with connector MH4: 24 V DC T4 - only for ATEX model Ex : C € Ex & II 2G Ex h IIB/IIC T4 Gb X Ex ia MH6: 24 V DC T6 - only for ATEX model Electrical specifications for intrinsically safety Group IIC Ui max= 28 V. li max= 115 mA. Pi max= 1.6 W Group IIB Ui max= 32 V, li max= 195 mA, Pi max= 1,6 W Voltages Solenoid coil marking L04: 12 V DC - only for FM APPROVED model L05: 24 V DC - only for FM APPROVED model L39: 120 V AC - only for FM APPROVED model L41: 240 V AC - only for FM APPROVED model FM APPROVED valve (-20°C ... +50°C) - only with solenoid coils "L##" Temperature options Standard valve (-10°C ... +50°C) LT : Low temperature (-30°C ... +50°C)

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

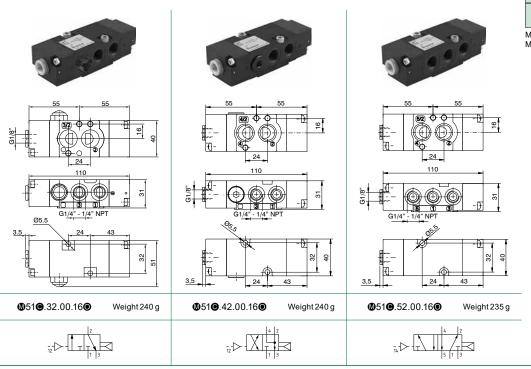
Pneumatic-Differential

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16 66	

CODING: Ø51**⊙**.**0**0.16**⊙**

ı		MODEL
11	Ø	= Standard valve
11		X = ATEX valve
1		CONNECTIONS
]	0	4 = G1/4"
		6 = 1/4" NPT
IJ		TYPE
IJ	Û	32 = 3 ways, 2 positions
IJ		42 = 4 ways, 2 positions
Į		52 = 5 ways, 2 positions
ĺ	0	TEMPERATURE OPTION
İ	•	SEE ORDER CODES PAGE

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



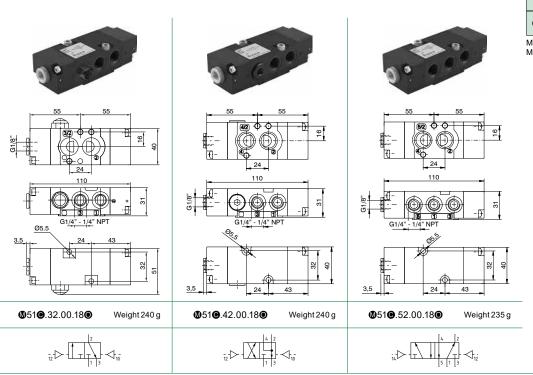
Pneumatic-Pneumatic

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

CODING: W5	51 0 .0	.00.18 ⊚
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7		MODEL
1	Ø	= Standard valve
1		X = ATEX valve
		CONNECTIONS
1	•	4 = G1/4"
		6 = 1/4" NPT
╝		TYPE
Į.	O	32 = 3 ways, 2 positions
╛	U	42 = 4 ways, 2 positions
		52 = 5 ways, 2 positions
	0	TEMPERATURE OPTION
	•	SEE ORDER CODES PAGE

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





Pneumatic-Spring

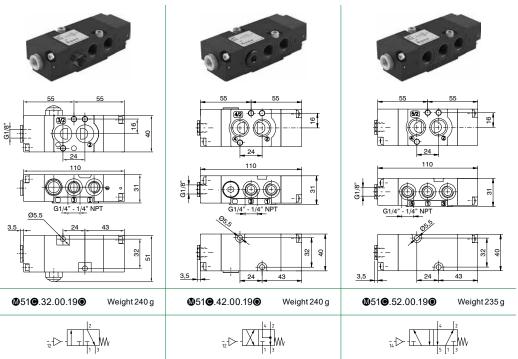
Catalogue

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

CODING: **1516**.**10**.00.19

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
•	4 = G1/4"
	6 = 1/4" NPT
	TYPE
0	32 = 3 ways, 2 positions
U	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

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



Solenoid-Solenoid

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

CODING: **∅**51**⊚**.**0**0.35.**◊⊚**

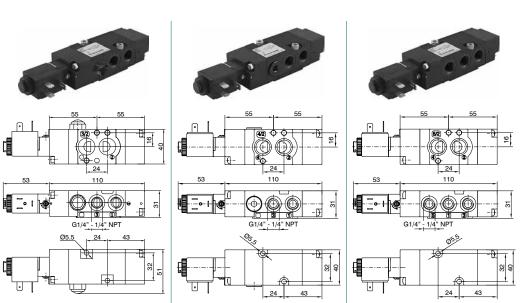
ı		MODEL
ı	(= Standard valve
		X = ATEX valve
		CONNECTIONS
	Θ	4 = G1/4"
		6 = 1/4" NPT
		TYPE
	•	32 = 3 ways, 2 positions
ı		42 = 4 ways, 2 positions
		52 = 5 ways, 2 positions
	•	VOLTAGE
	V	SEE ORDER CODES PAGE
	•	TEMPERATURE OPTION
	•	SEE ORDER CODES PAGE
Minimum pilot pressure 2,5 bar		

Maximum fitting torque 9 N/m

, 	ı	10,00
	600	M M
55 55 55 24 24	55 55 95 99	55 55 95 9
53 110 53 55 55 55 55 55 55 55 55 55 55 55 55	53 110 53 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53 110 53 55 55 55 55 55 55 55 55 55 55 55 55
05.5 24 43	43 24	43 24
Ø 51 ● .32.00.35. ♥● Weight 410 g	Ø 51 ⊚ .42.00.35. ♥⊚ Weight 410 g	Ø 51 ● .52.00.35. ♥● Weight 405 g
		T T T T T T T T T T T T T T T T T T T

Solenoid-Differential

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	



₩51@.52.00.36.♥◎

CODING: Ø51**©**.**0**0.36.**♥0**

ı		MODEL	
	0	= Standard valve	
I		X = ATEX valve	
		CONNECTIONS	
	Θ	4 = G1/4"	
		6 = 1/4" NPT	
		TYPE	
	O	32 = 3 ways, 2 positions	
	U	42 = 4 ways, 2 positions	
		52 = 5 ways, 2 positions	
	0	VOLTAGE	
	9	SEE ORDER CODES PAGE	
	0	TEMPERATURE OPTION	
	•	SEE ORDER CODES PAGE	
	14: 1 0.51		

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

Solenoid-Spring

Ø51**@**.32.00.36.**♥⊚**

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. 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 ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

₩51@.42.00.36.₩@

kv		16,66
	600	
55 55 55 24 24 110 5 53 110 5 53 55 55 55 55 55 55 55 55 55 55 55 5	55 55 55 55 55 55 55 55 55 55 55 55 55	55 55 56 56 56 56 56 56 56 56 56 56 56 56 56 5
95.5 24 43	24 43	24 43
Ø 51 © .32.00.39. ♥© Weight 330 g	Ø 51 © .42.00.39. ♥⊚ Weight 330	0 g ∅ 51 ⊚ .52.00.39. ♥⊚ Weight 325 g
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T 1 3 W

CODING: **Ø**51**©**.**①**.00.39.**♥◎**

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
Θ	4 = G1/4"
	6 = 1/4" NPT
	TYPE
A	32 = 3 ways, 2 positions
U	42 = 4 ways, 2 positions
	52 = 5 ways, 2 positions
•	VOLTAGE
V	SEE ORDER CODES PAGE
	TEMPERATURE OPTION
•	SEE ORDER CODES PAGE
	Ø••••

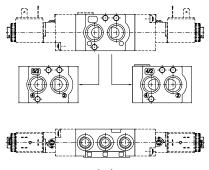
Minimum pilot pressure 2,5 bar Maximum fitting torque 9 N/m

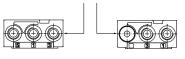


Universal kit version (4/2 and 5/2)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	







CODING: **4516**.92.00.**4**.**10**

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
•	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
O	VOLTAGE
J	SEE ORDER CODES PAGE
0	TEMPERATURE OPTION
•	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar
Maximum fitting 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. 51 • .92...) and by plugging
port 5

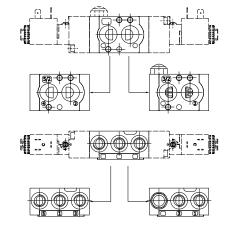
♦51**●**.92.00.**♦**.**♦●** Weight 405 g



Universal kit version (3/2 and 5/2)

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	





CODING: **∅**51**⊚**.93.00.**♥**.**む⊚**

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
•	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
0	TEMPERATURE OPTION
	SEE ORDER CODES PAGE

Minimum pilot pressure 2,5 bar Maximum fitting torque 9 N/m
To change a 5/2 valve into a 3/2: simply replace the bottom plate with the one included in the universal kit (cod. 51@ 93...) and by applying a silencer to connection 5

Ø51**⊚**.93.00.**♥.1⊙** Weight 405 g





Series 515 High Performance

NAMUR valves are 5/2 valves and electrovalves, piloted electrically or pneumatically, utilised primarily to operate rotary actuators and wherever there is a **NAMUR** standard installation plan.

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

NAMUR valves have been developed using the latest, technical design solutions which guarantee flexibility and an increased flow rate capacity exceeding that of traditional, spool valves.

In addition, they have been produced with innovative materials which guarantee increased performance.

IMPORTANT:

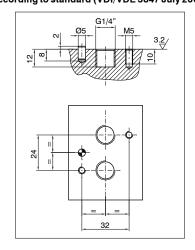
Differs from version 514 because it is supplied without a plate.



Construction characteristics

Technopolymer
recinopolymen
Nitrile rubber
Stainless Steel
Technopolymer
Steel
Zinc coated Steel / Stainless steel
-

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

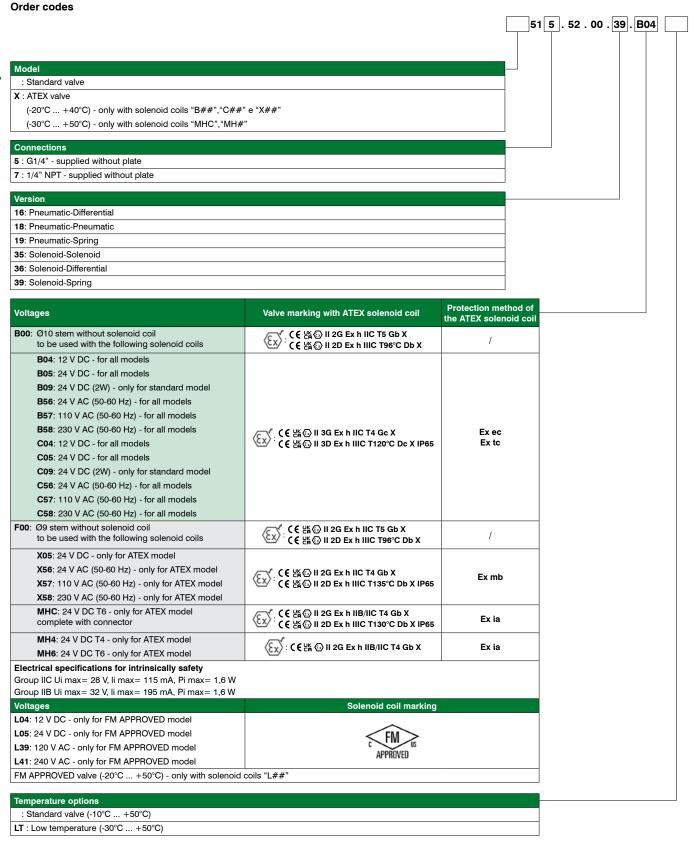


Certifications available





Process automation technology Catalogue



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	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

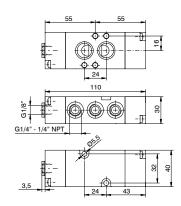
CODING: **Ø**51**©**.52.00.16**©**

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
•	5 = G1/4"
	7 = 1/4" NPT
0	TEMPERATURE OPTION
•	SEE ORDER CODES PAGE



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

₩51♥.52.00.16●





Pneumatic-Pneumatic

Operational characteristics		
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

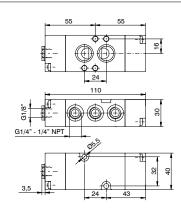
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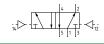
		MODEL
╛	•	= Standard valve
]		X = ATEX valve
4		CONNECTIONS
4	•	5 = G1/4"
4		7 = 1/4" NPT
4	0	TEMPERATURE OPTION
$\frac{1}{2}$	•	SEE ORDER CODES PAGE
-1		



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

₩51@.52.00.18@





CODING: **10**51**0**.52.00.19

Pneumatic-Spring

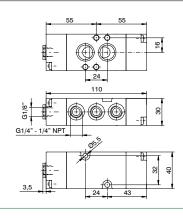
	Operational characteristics
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. working pressure (bar)	10
Temperature °C	See order codes page
Flow rate at 6 bar with Δp=1 (NI/min)	1100
Orifice size (mm)	8
Working ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

		MODEL
	Ø	= Standard valve
		X = ATEX valve
		CONNECTIONS
4	Θ	5 = G1/4"
4		7 = 1/4" NPT
4	0	TEMPERATURE OPTION
4		SEE ORDER CODES PAGE



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

Ø51**@**.52.00.19**@**







Solenoid-Solenoid

Operation	Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

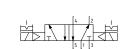
CODING: **(M**51**(G**.52.00.35.**1)(G**)

	MODEL
Ø	= Standard valve
	X = ATEX valve
	CONNECTIONS
Θ	5 = G1/4"
	7 = 1/4" NPT
0	VOLTAGE
U	SEE ORDER CODES PAGE
0	TEMPERATURE OPTION
	SEE ORDER CODES PAGE



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

₩51♥.52.00.35.��



Solenoid-Differential

	perational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous	
Max. 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 ports size	G 1/4" - 1/4" NPT	
Cv	1,11	
kv	16,66	

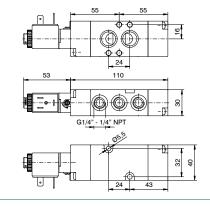
CODING: **0**51**6**.52.00.36.**10**

		MODEL
	0	= Standard valve
		X = ATEX valve
_		CONNECTIONS
4	Θ	5 = G1/4"
4		7 = 1/4" NPT
4	O	VOLTAGE
\exists	U	SEE ORDER CODES PAGE
_	0	TEMPERATURE OPTION
	•	SEE ORDER CODES PAGE



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

₩51♥.52.00.36.��





Solenoid-Spring

	Operational characteristics
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max. 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 ports size	G 1/4" - 1/4" NPT
Cv	1,11
kv	16,66

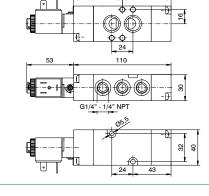
CODING: **10**51**0**.52.00.39.**10**

Į		MODEL
	(= Standard valve
1		X = ATEX valve
1		CONNECTIONS
1	Θ	5 = G1/4"
1		7 = 1/4" NPT
1	O	VOLTAGE
ł	U	SEE ORDER CODES PAGE
J	0	TEMPERATURE OPTION
	•	SEE ORDER CODES PAGE



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

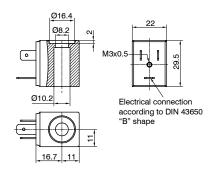
₩51@.52.00.39.00





Solenoid coil 22 mm Ø10, type MB





	Ordering code
	МВФ
	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)

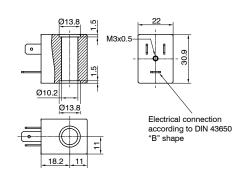
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Ľ	П	L

		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



(€語 ⑤ II 3G Ex ec IIC T5/T4 Gc (€語 ⑥ II 3D Ex tc IIIC T93°C...T116°C Dc

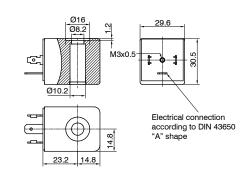


	VOLTAGE
	4= 12 VDC
o	5= 24 VDC
v	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)

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

Solenoid coil 30 mm Ø10, type MC





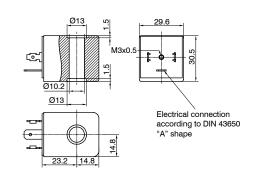
	Ordering code
	MC ⊕
	VOLTAGE
	4= 12 VDC
	5= 24 VDC
•	9= 24 VDC (2W)
	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)
	ERE

		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



((: G II 3G Ex ec IIC T5/T4 Gc ((: G II 3D Ex tc IIIC T93°C...T116°C Dc



	Ordering code
	XMC
	VOLTAGE
	4= 12 VDC
o	5= 24 VDC
v	56= 24 VAC (50-60 Hz)
	57= 110 VAC (50-60 Hz)
	58= 230 VAC (50-60 Hz)
	€xÿ E H[

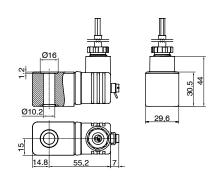
		Operational characteristics		
Class of insulation	Tolerance on voltage	IP Rating with connector	Electrical connection	Weight (g)
F	±10%	IP65	DIN43650 A	117

Process automation technology Catalogue

Solenoid coil 30 mm Ø10, type XME



(《器 ⑤ II 2G Ex mb IIC T6...T4 Gb (《器 ⑥ II 2D Ex mb IIIC T85°C...T135°C Db



	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



PROCESS AUTOMATION TECHNOLOGY

(€∰ ௵ II 2G Ex ia IIB/IIC T6/T4 Gb

Electrical specifications for intrinsically safety

Group IIC Ui max= 28 V, li max= 115 mA, Pi max= 1,6 W Group IIB Ui max= 32 V, li max= 195 mA, Pi max= 1,6 W

016.5 08.1 09.1 M3x0.5	30
24.5 14.7	Electrical connection according to DIN 43650 "A" shape

	Ordering code
	ХМНВ€
	VOLTAGE
O	4= 32 VDC T4
	6= 32 VDC T6
	Ex IECEX

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

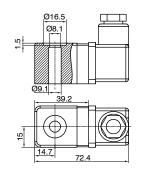
Solenoid coil 30 mm Ø9, type XMHC Ex ia 32 VDC T6



(€ 📉 🚳 II 2G Ex ia IIC/IIB T6/T4 Ga (€ 🕌 🚳 II 2D Ex tb IIIC T80°C/T130°C Db IP65

Electrical specifications for intrinsically safety

Group IIC Ui max= 28 V, li max= 115 mA, Pi max= 1,6 W Group IIB Ui max= 32 V, li max= 195 mA, Pi max= 1,6 W







29.5

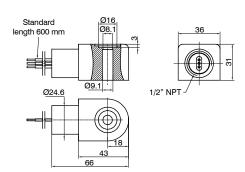


	Operational c	haracteristics	
Class of insulation	Tolerance on voltage	IP Rating	Weight (g)
F	±10%	IP65	136

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.

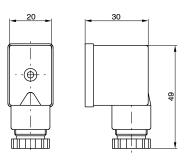


	Ordering code
	ML ⊕
	VOLTAGE
	4= 12 VDC
ø	5= 24 VDC
	39= 120 VAC
	41= 240 VAC
	C FM US APPROVED

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

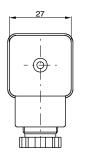


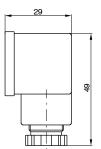




Connector 30 mm ATEX DIN43650 A







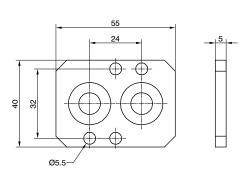
Ordering code X300.11.00





30 mm solenoid base adaptor





Ordering code

514.05

Weight 25 g





PNEUMAX S.p.A.

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