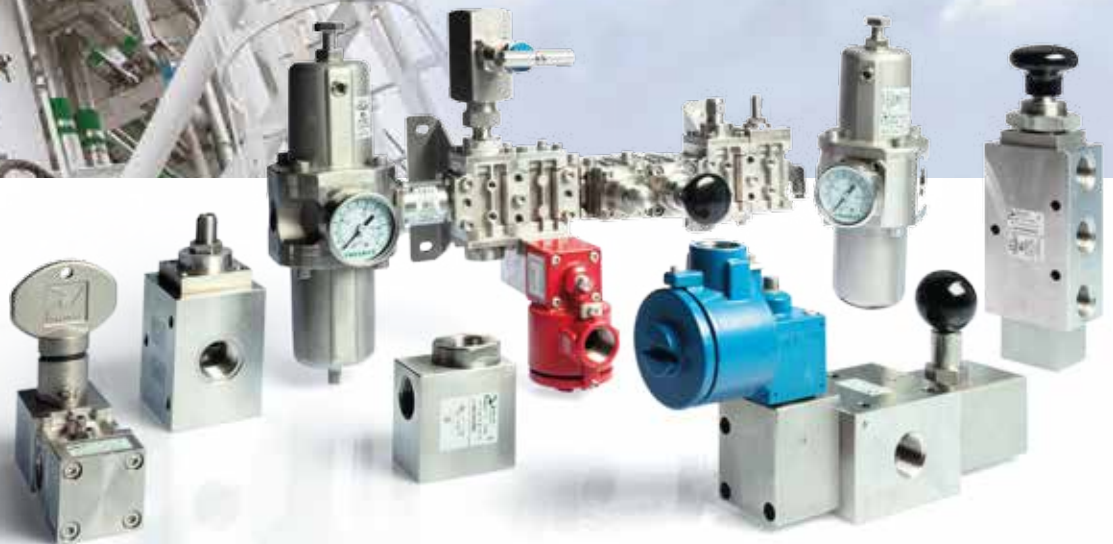




PNEUMAX



PROCESS AUTOMATION TECHNOLOGY

PNEUMATIC COMPONENTS AND INTEGRATED MANIFOLD SOLUTION



Index

Process Automation

Introduction.....	2
Process Automation.....	4
Catalogue index - Stainless steel and aluminium solutions.....	6

Pneumax S.p.A.

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 industrial automation. It is at the fore front of a group comprised of 23 companies, with over 660 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.



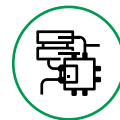


The ability to provide various technologies and solutions for each of our clients applications is the main objective of the Company, making **Pneumax** the ideal strategic partner.

What defines us is the “Pneumax Business Attitude”, born out of the capacity to combine industry sectors, technology and our application skills via client collaboration with our business specialists and product specialists. This represents the main **Pneumax** distinguishing factor.



**Pneumatic
technology**



**Electric
actuation**



**Fluid
control**

Process Automation

A wide range of standard components and customized solutions

Pneumax S.p.A. offer 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.



High quality processed to provide reliable products and services.

The process components are manufactured in both Stainless steel and Aluminum to meet a wide range of environmental and temperature applications.

Pneumax operates using an effective and comprehensive production management system - from the design and testing through to Production, our customers can

be reassured that the product is controlled at every step of the way.

Thanks to the dedicated warehouse area, **Pneumax** manages its material stock in real time, enabling us to provide our customers with a real time answers.



Where required, Pneumax can provide any required certification, as follows:



: International certification
for explosive atmospheres



: Nepsy approval - China



: Suitable up to SIL 3



: UL / CSA factory
mutual approval

Stainless steel



Air service units

General	9
Regulator - Filter - Filter-regulator size 2	10
Regulator - Filter - Filter-regulator size 3	14
Regulator - Filter - Filter-regulator size 4	18



Valves

Valves 1/4 NPT 3/2 - 5/2 - 5/3	23
--------------------------------------	----



Solenoid valves

Solenoid valves 1/4 NPT 3/2 - 5/2	35
Solenoid valves 1/4 NPT 3/2 - 5/2 - for safe area with IP66 stainless steel housing	38
Solenoid valves 1/4 NPT 3/2 - 5/2 - IP66 Exd Explosion protection	43
Solenoid valves 1/4 NPT 3/2 - 5/2 - Intrinsically safe Exia	48
Accessories - Valves and Solenoid valves 1/4 NPT	53



Valves

Valves 1/2 NPT 3/2 - 5/2 - 5/3	57
--------------------------------------	----



Solenoid valves

Solenoid valves 1/2 NPT 3/2 - 5/2 - for safe area with IP66 stainless steel housing	63
Solenoid valves 1/2 NPT 3/2 - 5/2 - IP66 Exd Explosion protection	67
Solenoid valves 1/2 NPT 3/2 - 5/2 - Intrinsically safe Exia	71
Accessories - Valves and Solenoid valves 1/2 NPT	75



Flow regulators 1/4 NPT - 1/2 NPT - 3/4 NPT - 1 NPT	78
Tamper proof system 1/4 NPT - 1/2 NPT	79
Quick exhaust valves 1/4 NPT - 1/2 NPT - 3/4 NPT - 1 NPT	80



Aluminium



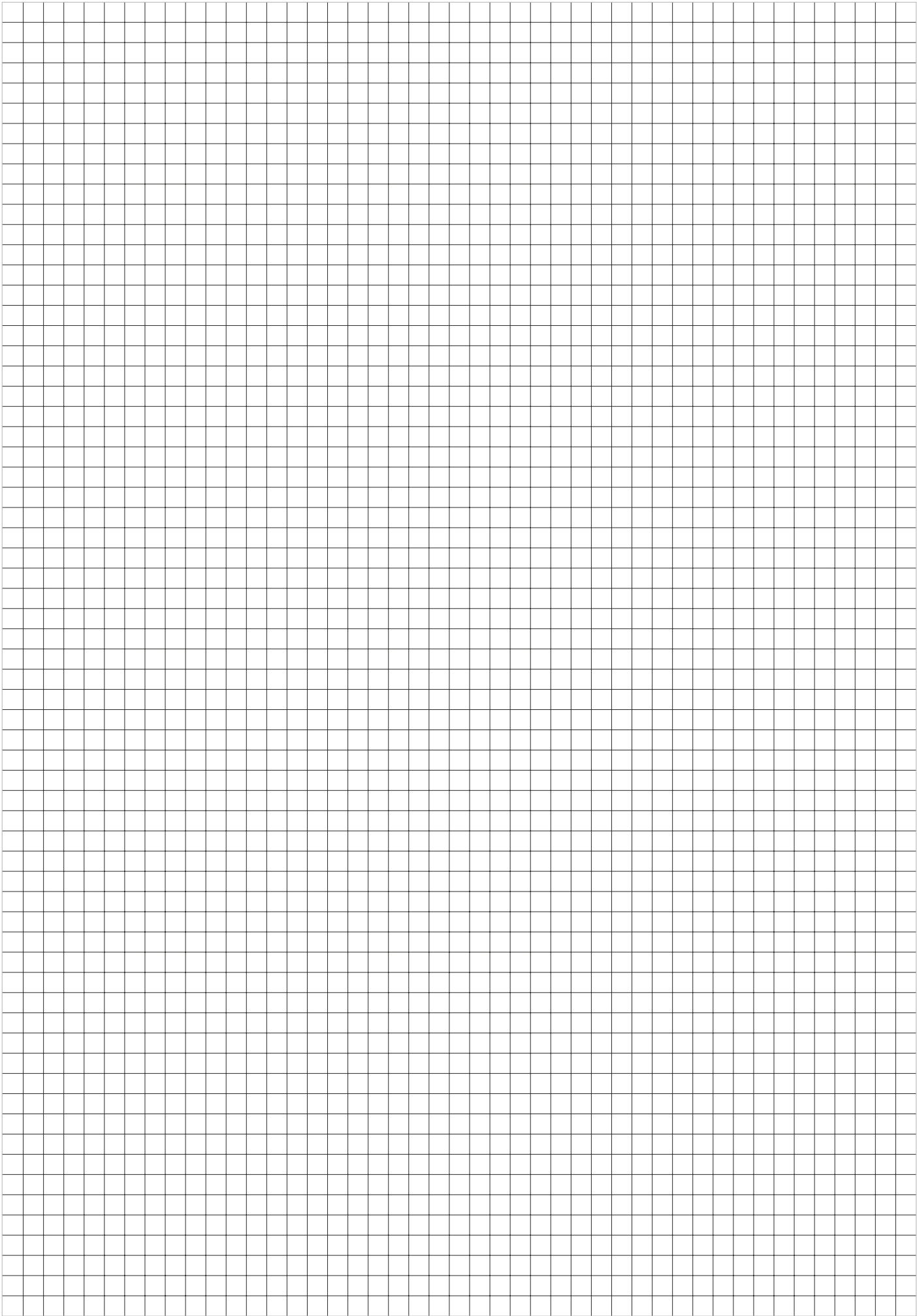
Valves	
Pneumatic actuated valves 1/4 NPT 3/2 - 5/2	81
Valves 3/2-5/2 1/4 NPT push button version	84
Pneumatic actuated valves 1/2 NPT 3/2 - 5/2	87
Pneumatic actuated valves 1 NPT 3/2 - 5/2	89



Flow control valve 1/4 NPT - 1/2 NPT - 3/4 NPT - 1 NPT	91
Quick exhaust valve 1/4 NPT - 1/2 NPT - 3/4 NPT - 1 NPT	92
Non return valve 1/4 NPT - 1/2 NPT - 3/4 NPT - 1 NPT	93



Valves poppet system	
Valves poppet system 3/2 1/2 NPT - 3/4 NPT - 1 NPT	94
Valves poppet system 1 1/2 NPT	96



General

Brand new 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 exhaust 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 ($5\mu\text{m}$ - $20\mu\text{m}$ - $50\mu\text{m}$), 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.

Material Selection

Body, cup 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
Filtration elements	AISI 316 stainless steel or HDPE (High density polyethylene)
Spring	AISI 316 stainless steel
Seals	NBR (Standard version and Automatic exhaust) FPM - HNBR (H versions) NBR for low temperatures (L versions) EPDM-FDA (EF versions) Silicone - PU (Z versions)
Automatic drain	brass, stainless steel AISI 304 and AISI 302, sintered bronze acetal resin , NBR, FPM

Operating Range

Fluid	Filtered air, lubricated or non-lubricated (if lubricated, the lubrication must be continuous). Inert gases Natural gases
Temperature	-30°C - +70°C (standard version) -50°C - +70°C (low temperature (L) version) -60°C ÷ +70°C (low temperature (Z) version -60 °C) -5°C - +150°C (high temperature (H) version) -5°C - +50°C (automatic exhaust version) -40°C - +100°C (EPDM-FDA version)
Maximum working pressure	20bar (standard, low and high temperature versions) 16bar (automatic exhaust version)

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.

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



: CE II 2 GD c IIC [CE II 2G Ex h IIC Gb
CE II 2D Ex h IIC Db]



: Suitable up to SIL 3



: CU - TR 012

Filter

Ordering code

SV172CF50Z

VERSION

- ✓ S = Standard surface finishing
F = Clean profile

CONNECTIONS

- A = 1/4 NPT
B = 3/8 NPT
C = G1/4"

FILTER PORE SIZE

- A = 5 μm - 316 stainless steel
B = 20 μm - 316 stainless steel
● C = 50 μm - 316 stainless steel
D = 5 μm - HDPE
E = 20 μm - HDPE
F = 50 μm - HDPE

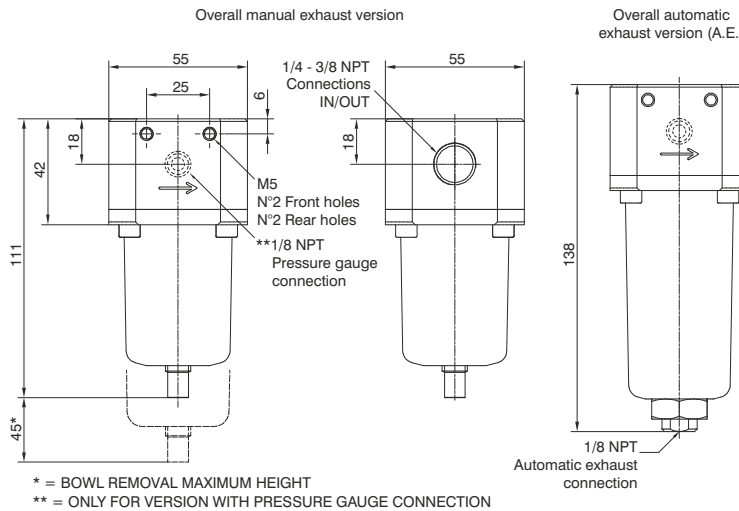
OPTIONS

- = Standard*
L = Low temperature
● Z = Low temperature (-60 °C)
H = High temperature
S = Automatic exhaust
EF = EPDM-FDA

ENCLOSURE OPTIONS

- Z = Standard*
G = pressure gauge connection

* no additional letter required



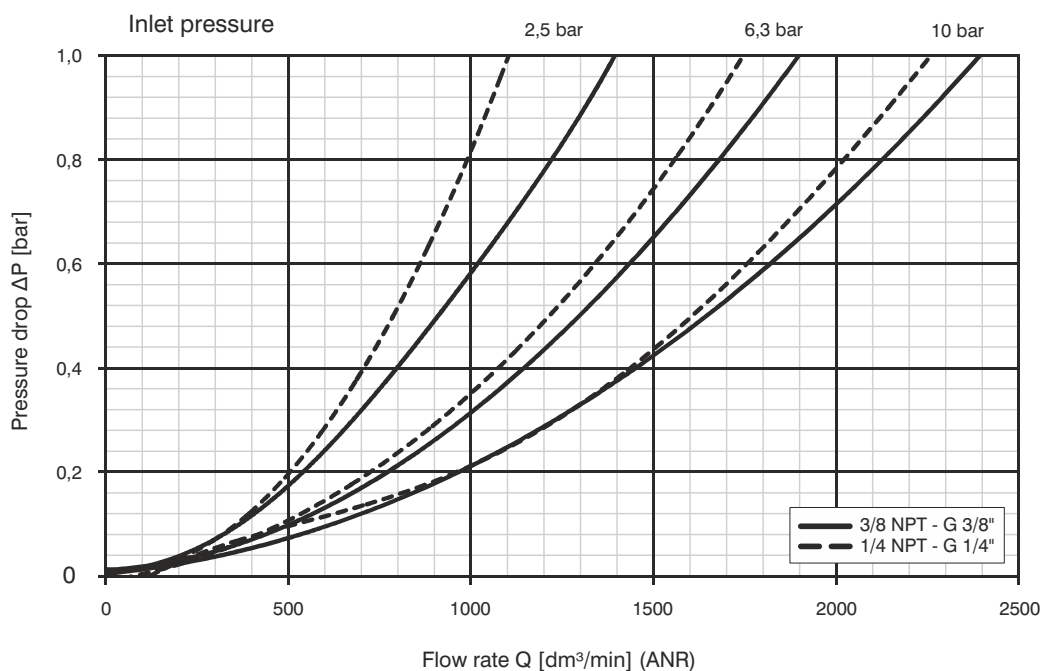
Operational characteristics

- Body, cup and internal components in AISI 316L stainless steel.
- A4 (AISI 316) Stainless steel fixing screws.
- Manual or automatic condensed exhaust

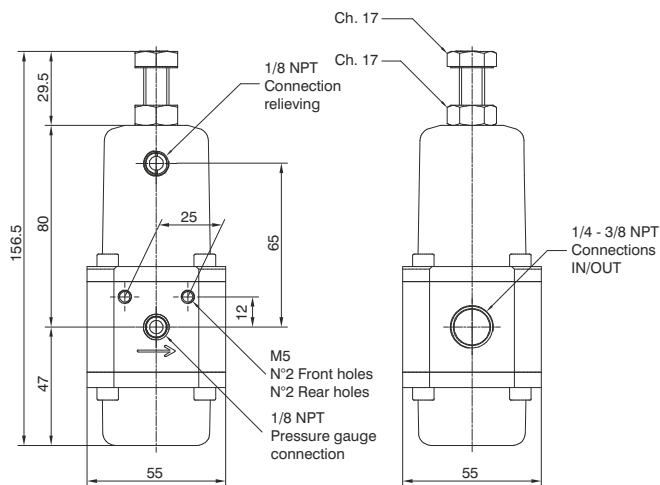
Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Weight	1070 (gr.)
Maximum condense capacity	15 cm ³
Assembly position	Vertical

Flow rate curves



Regulator



Ordering code

SV172ORGT0

VERSION

- ✓ S = Standard surface finishing
F = Clean profile

CONNECTIONS

- ✓ A = 1/4 NPT
B = 3/8 NPT
C = G1/4"

ADJUSTING RANGE

- A = 0-2 bar
✓ B = 0-4 bar
C = 0-8 bar
D = 0-12 bar

TYPE

- ✓ 1 = Standard*
N = Without relieving

OPTIONS

- = Standard*
L = Low temperature
Z = Low temperature (-60 °C)
H = High temperature
EF = EPDM-FDA

* no additional letter required

Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback inter. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.

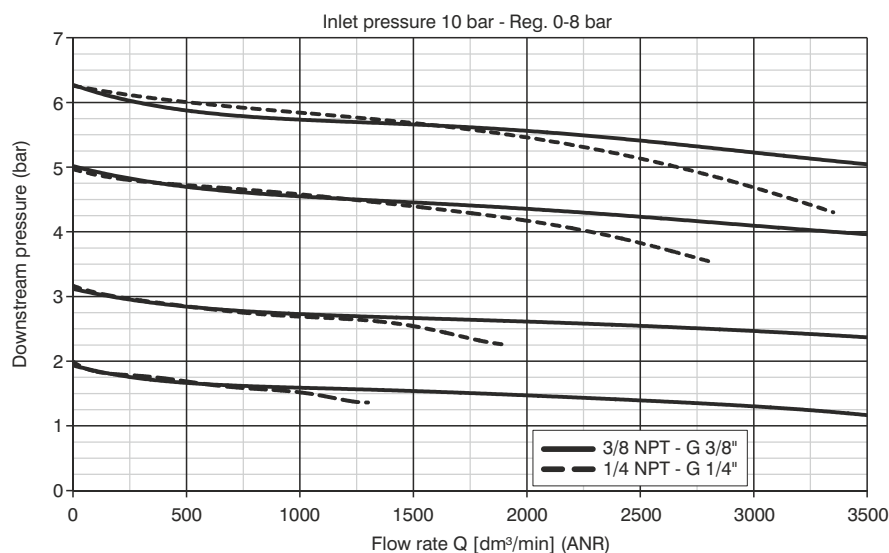
Note

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

Technical characteristics

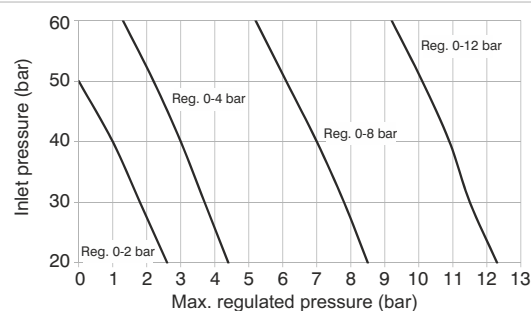
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight	1270 (gr.)
Assembly position	Indifferent

Flow rate curves

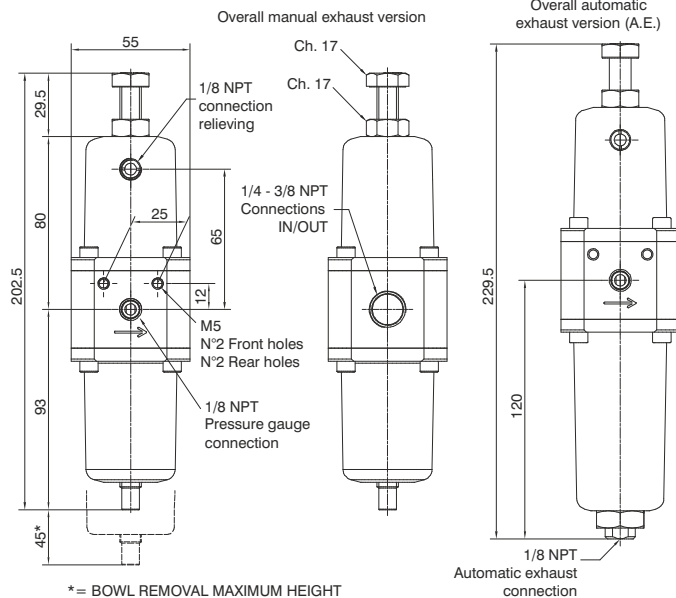


Pressure regulator Stainless steel line have been designed to withstand a 60 Bar maximum inlet pressure.

Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Filter - regulator



Ordering code

SV172CESG10

VERSION	
V	S = Standard surface finishing
F	= Clean profile
CONNECTIONS	
A	= 1/4 NPT
B	= 3/8 NPT
C	= G1/4"
FILTER PORE SIZE	
A	= 5 µm - 316 stainless steel
B	= 20 µm - 316 stainless steel
S	C = 50 µm - 316 stainless steel
D	= 5 µm - HDPE
E	= 20 µm - HDPE
F	= 50 µm - HDPE
ADJUSTING RANGE	
A	= 0-2 bar
G	B = 0-4 bar
C	= 0-8 bar
D	= 0-12 bar
TYPE	
T	= Standard*
N	= Without relieving
OPTIONS	
	= Standard*
L	= Low temperature
Z	= Low temperature (-60 °C)
H	= High temperature
S	= Automatic drain
EF	= EPDM-FDA

* no additional letter required

Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback inter. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Filter-pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.
- Manual or automatic condensed exhaust.

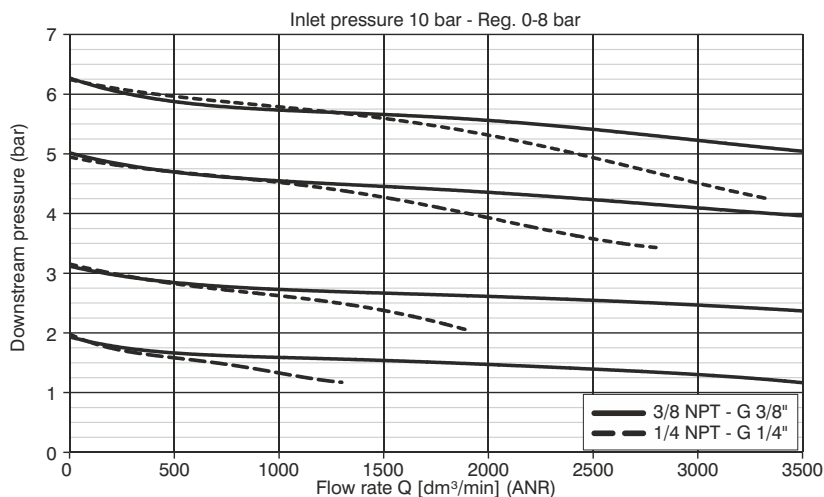
Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight	1470 (gr.)
Max. bowl capacity	15 cm ³
Assembly position	Vertical

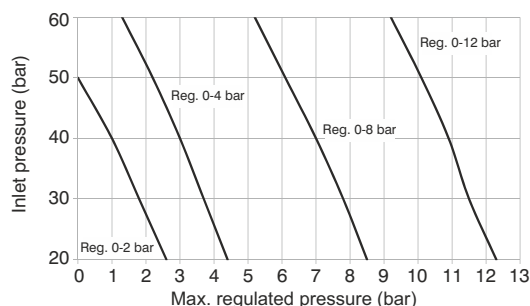
Note

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

Flow rate curves



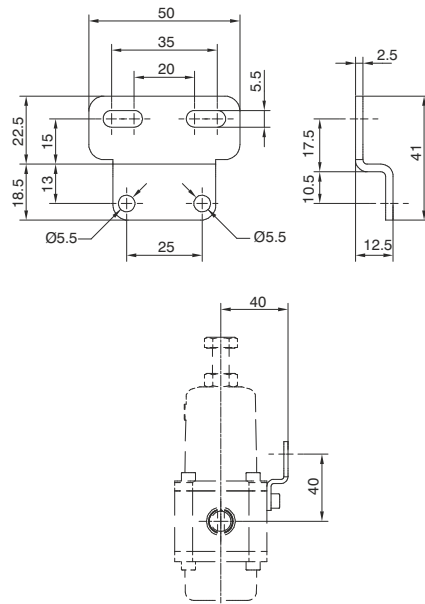
Pressure regulator Stainless steel line have been designed to withstand a **60 Bar** maximum inlet pressure.
Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Fixing bracket

Ordering code

SS17250

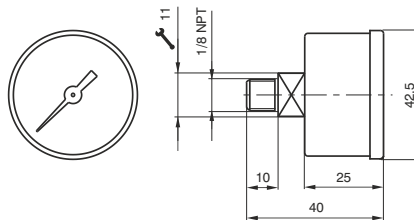


Weight 32 gr.
AISI 316L stainless steel material.
Allows wall fixing of individual products.

Pressure gauge

Ordering code

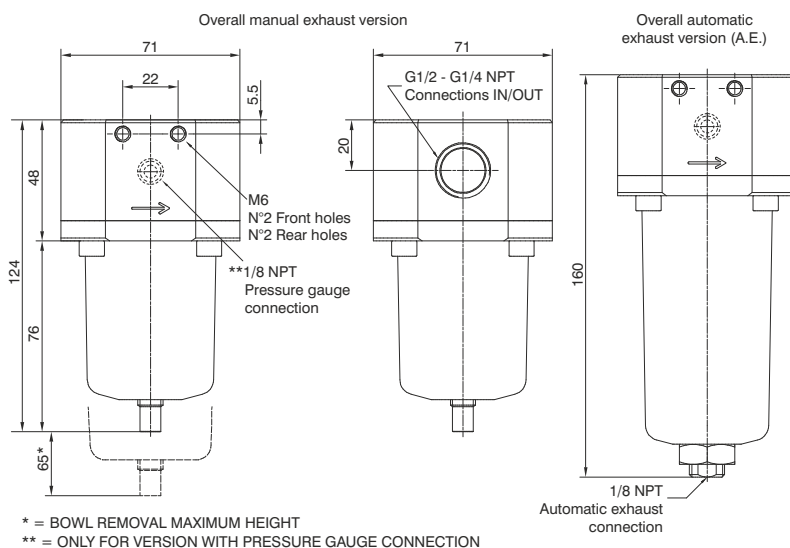
SS17070A



Weight 60 gr.
AISI 316 stainless steel material.
Glass transparent part with an AISI 316 stainless steel retaining ring.
Available with 0-4 bar and 0-12 bar scale.

SCALE
S A = 0 ÷ 4 bar
B = 0 ÷ 12 bar

Filter



Ordering code

SV173CF50Z

VERSION
V = Standard surface finishing
F = Clean profile
CONNECTIONS
C = 1/4 NPT
B = 1/2 NPT
D = G1/2"
FILTER PORE SIZE
A = 5 µm - inox 316
B = 20 µm - inox 316
S = 50 µm - inox 316
D = 5 µm - HDPE
E = 20 µm - HDPE
F = 50 µm - HDPE
OPTIONS
= Standard*
L = Low temperature
Z = Low temperature (-60 °C)
H = High temperature
S = Automatic exhaust
EF = EPDM-FDA
ENCLOSURE OPTIONS
Z = Standard*
G = pressure gauge connection

* no additional letter required

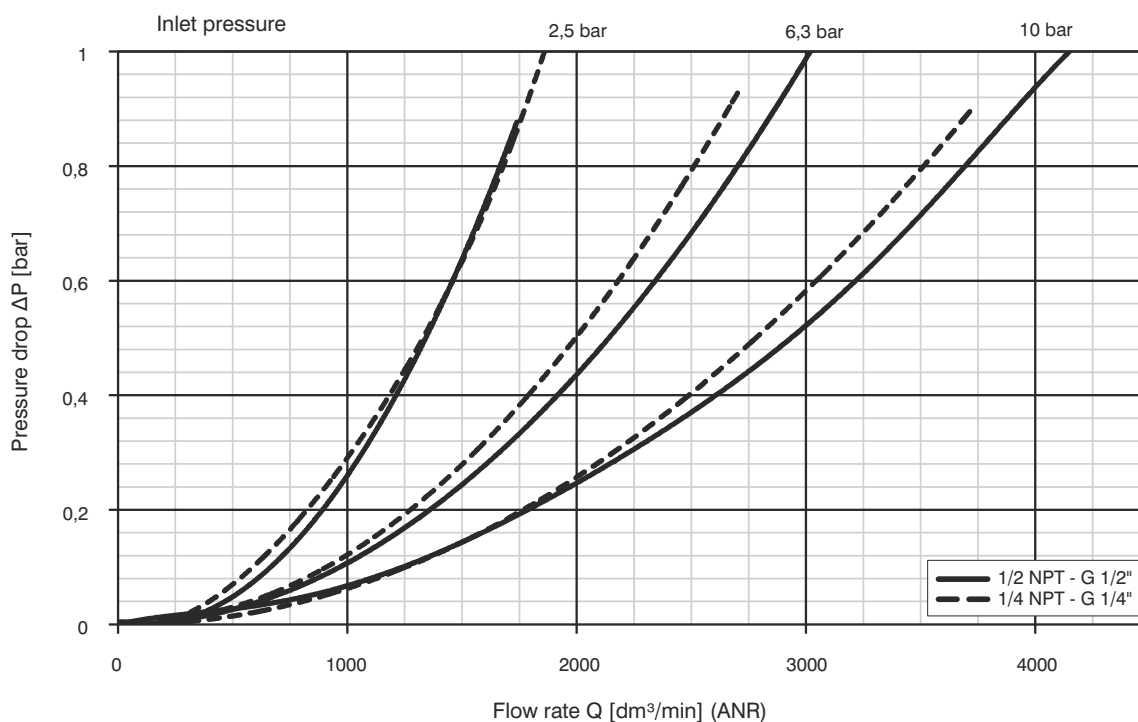
Operational characteristics

- Body, cup and internal components in AISI 316L stainless steel.
- A4 (AISI 316) Stainless steel fixing screws.
- Manual or automatic condensed exhaust.

Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Weight	1650 (gr.)
Maximum condense capacity	25 cm ³
Assembly position	Vertical

Flow rate curves



Regulator

Ordering code

SV173ORGT0

VERSION

- V S = Standard surface finishing
 F = Clean profile

CONNECTIONS

- C A = 1/4 NPT
 B = 1/2 NPT
 D = G1/2"

ADJUSTING RANGE

- A = 0-2 bar
 G B = 0-4 bar
 C = 0-8 bar
 D = 0-12 bar

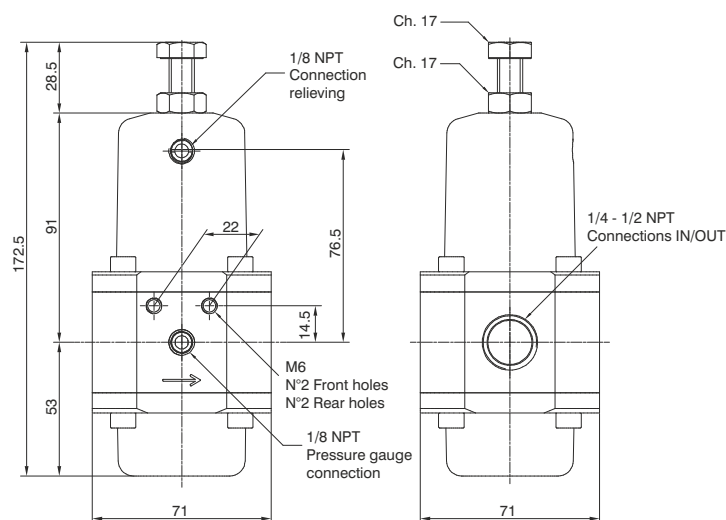
TYPE

- T = Standard*
 N = Without relieving

OPTIONS

- = Standard*
 L = Low temperature
 Z = Low temperature (-60 °C)
 H = High temperature
 EF = EPDM-FDA

* no additional letter required



Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback inter. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.

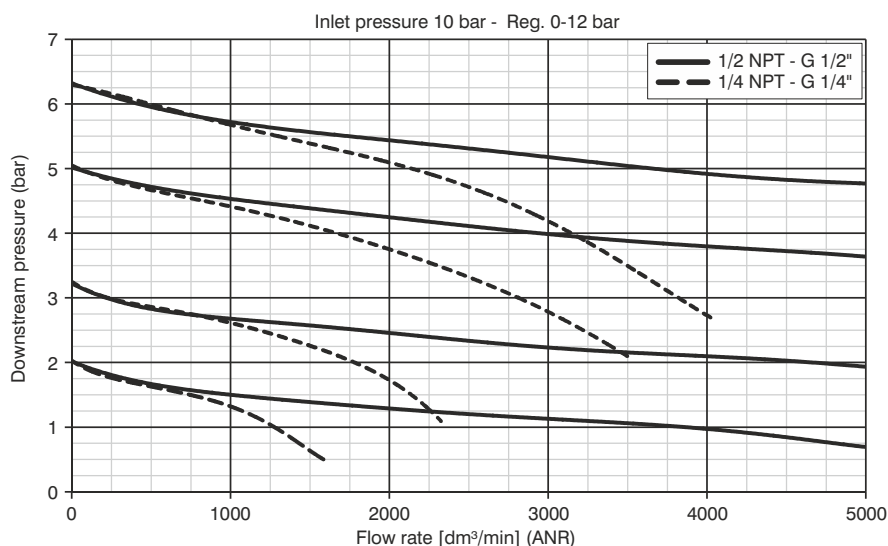
Note

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

Technical characteristics

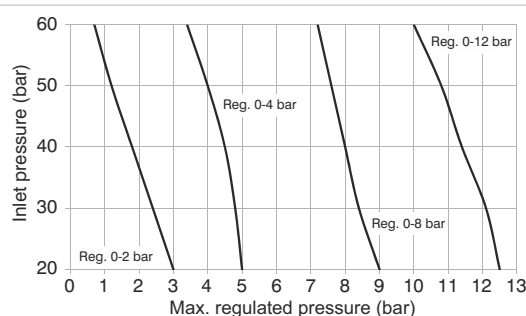
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight	1830 (gr.)
Assembly position	Indifferent

Flow rate curves



Pressure regulator Stainless steel line have been designed to withstand a 60 Bar maximum inlet pressure.

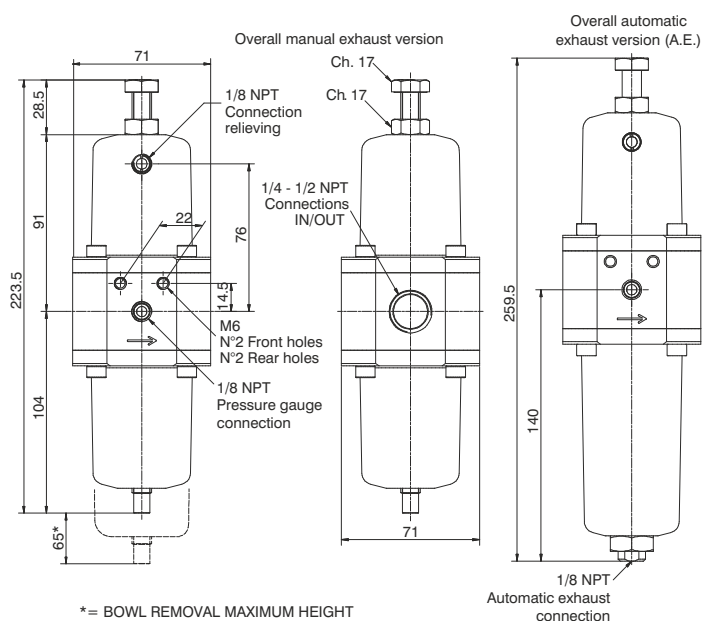
Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Filter - regulator

Ordering code

SV173CESG10



VERSION	
V	S = Standard surface finishing
F	Clean profile
CONNECTIONS	
C	A = 1/4 NPT
B	B = 1/2 NPT
D	D = G1/2"
FILTER PORE SIZE	
A	A = 5 µm - 316 stainless steel
B	B = 20 µm - 316 stainless steel
S	C = 50 µm - 316 stainless steel
D	D = 5 µm - HDPE
E	E = 20 µm - HDPE
F	F = 50 µm - HDPE
ADJUSTING RANGE	
A	A = 0-2 bar
G	B = 0-4 bar
C	C = 0-8 bar
D	D = 0-12 bar
TYPE	
T	= Standard*
N	= Without relieving
OPTIONS	
	= Standard*
L	L = Low temperature
Z	Z = Low temperature (-60 °C)
H	H = High temperature
S	S = Automatic exhaust
EF	EF = EPDM-FDA

* no additional letter required

Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback intern. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Filter-pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.
- Manual or automatic condensed exhaust.

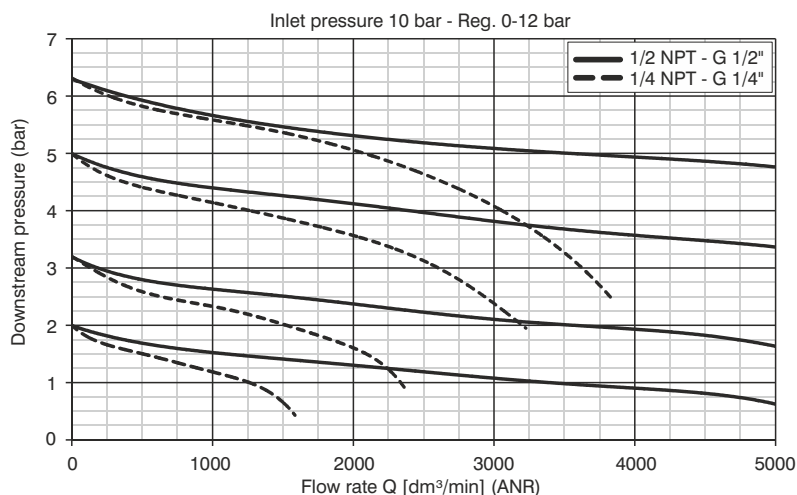
Note

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

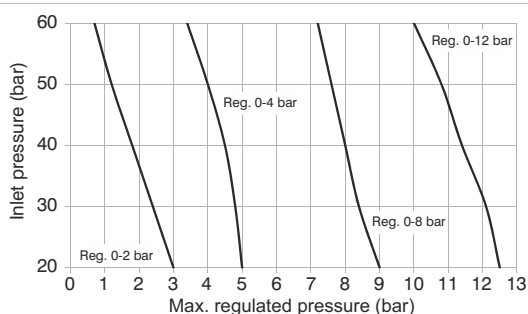
Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight	2110 (gr.)
Max. bowl capacity	25 cm ³
Assembly position	Vertical

Flow rate curves



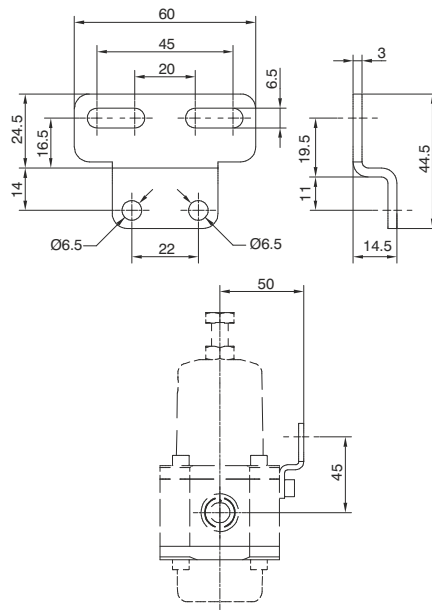
Pressure regulator Stainless steel line have been designed to withstand a **60 Bar** maximum inlet pressure.
Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Fixing bracket

Ordering code

SS17350

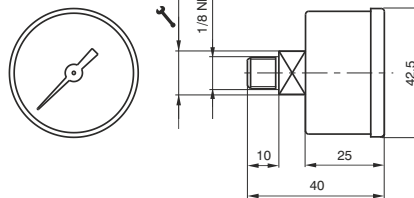


Weight 32 gr.
AISI 316L stainless steel material.
Allows wall fixing of individual products.

Pressure gauge

Ordering code

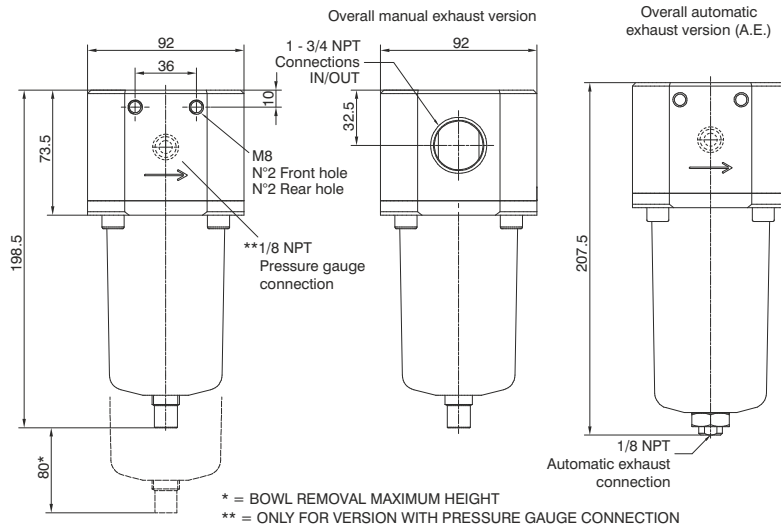
SS17070A



Weight 60 gr.
AISI 316 stainless steel material.
Glass transparent part with an AISI 316 stainless steel retaining ring.
Available with 0-4 bar and 0-12 bar scale.

SCALE
A = 0 ÷ 4 bar
B = 0 ÷ 12 bar

Filter



Ordering code

SV174CF50Z

VERSION	
V	S = Standard surface finishing
F	Clear profile
CONNECTIONS	
C	A = 3/4 NPT
	B = 1 NPT
	D = G1"
FILTER PORE SIZE	
S	A = 5 µm - 316 stainless steel
	B = 20 µm - 316 stainless steel
	C = 50 µm - 316 stainless steel
	D = 5 µm - HDPE
	E = 20 µm - HDPE
	F = 50 µm - HDPE
OPTIONS	
	= Standard*
	L = Low temperature
Z	Z = Low temperature (-60 °C)
	H = High temperature
	S = Automatic exhaust
	EF = EPDM-FDA
ENCLOSURE OPTIONS	
Z	= Standard*
	G = pressure gauge connection

* no additional letter required

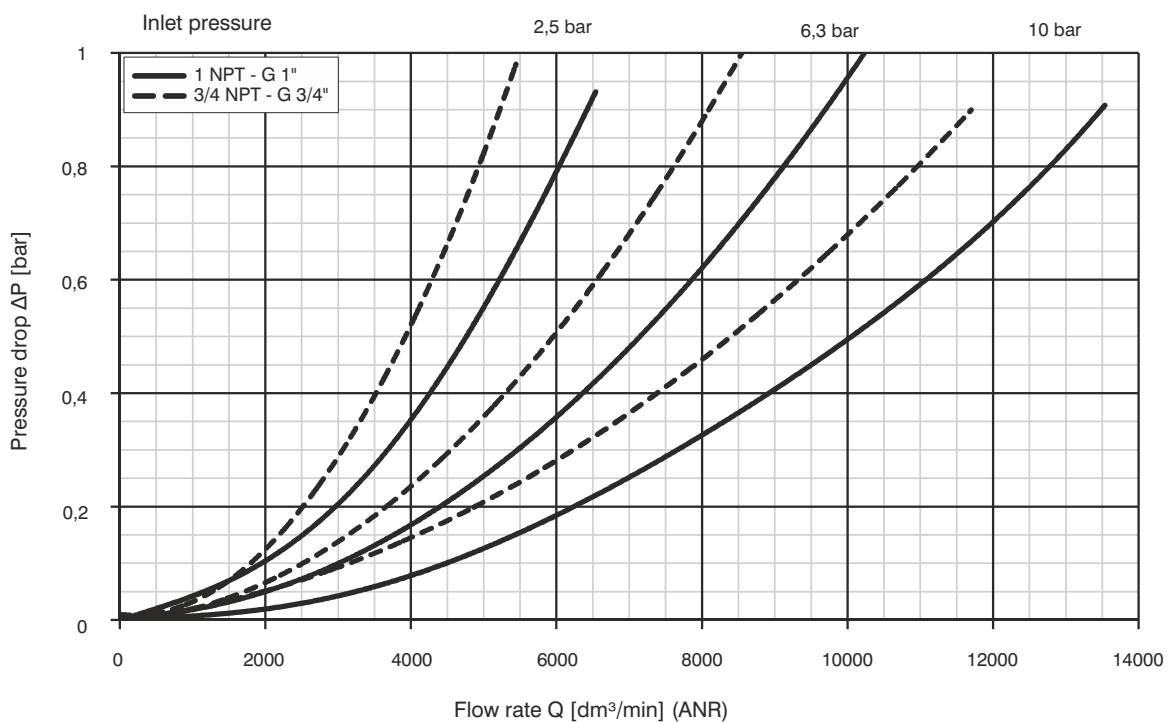
Operational characteristics

- Body, cup and internal components in AISI 316L stainless steel.
- A4 (AISI 316) Stainless steel fixing screws.
- Manual or automatic condensed exhaust.

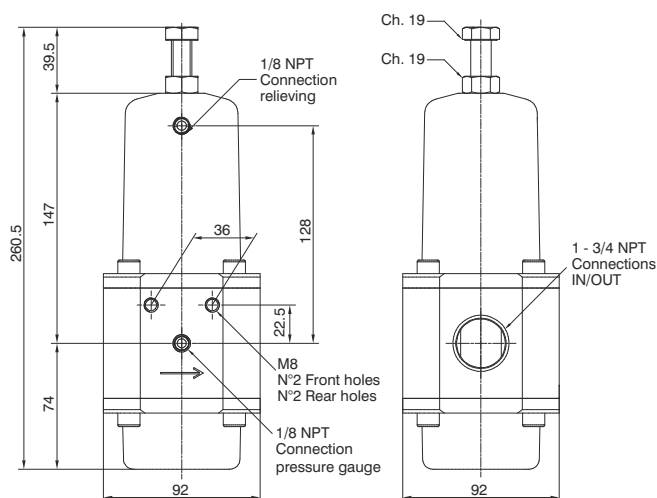
Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Weight 3/4 NPT - G 3/4"	4700 (gr.)
Weight 1 NPT - G 1"	4600 (gr.)
Maximum condense capacity	78 cm ³
Assembly position	Vertical

Flow rate curves



Regulator



Ordering code

SV1740RG010

VERSION

- V S = Standard surface finishing
 F = Clean profile

CONNECTIONS

- C A = 3/4 NPT
 B = 1 NPT
 D = G1"

ADJUSTING RANGE

- A = 0-2 bar
 G B = 0-4 bar
 C = 0-7 bar
 D = 0-10 bar

TYPE

- T = Standard*
 N = Without relieving

OPTIONS

- = Standard*
 L = Low temperature
 Z = Low temperature (-60 °C)
 H = High temperature
 EF = EPDM-FDA

* no additional letter required

Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback inter. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.

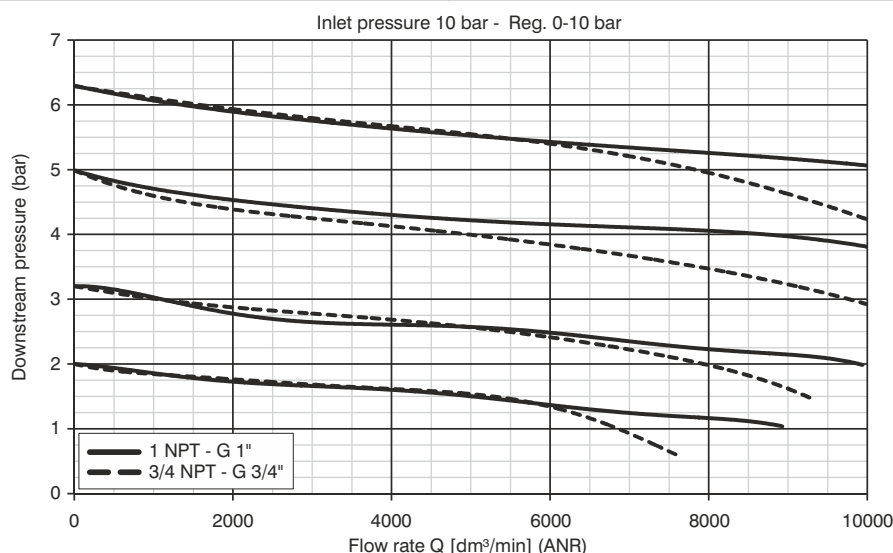
Note

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

Technical characteristics

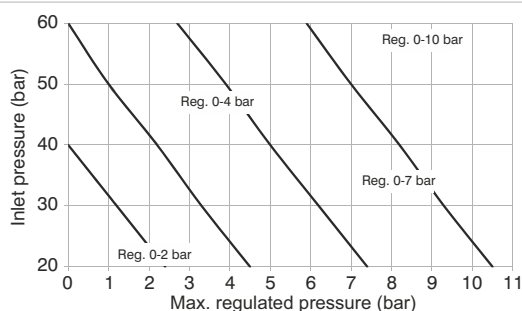
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight 3/4 NPT - G 3/4"	5500 (gr.)
Weight 1 NPT - G 1"	5400 (gr.)
Assembly position	Indifferent

Flow rate curves

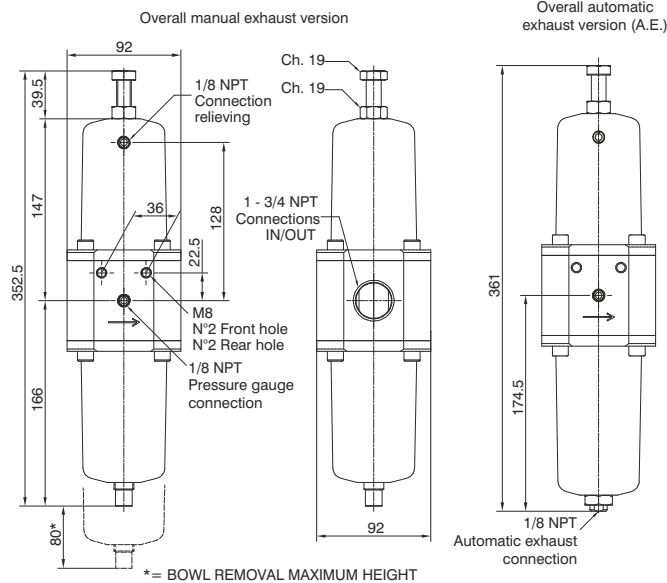


Pressure regulator Stainless steel line have been designed to withstand a 60 Bar maximum inlet pressure.

Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Filter - regulator



Ordering code

SV174CESGTO

VERSION	
V	S = Standard surface finishing
F	= Clean profile
CONNECTIONS	
C	A = 3/4 NPT
	B = 1 NPT
	D = G1"
FILTER PORE SIZE	
A	= 5 μ m - 316 stainless steel
B	= 20 μ m - 316 stainless steel
S	C = 50 μ m - 316 stainless steel
	D = 5 μ m - HDPE
	E = 20 μ m - HDPE
	F = 50 μ m - HDPE
ADJUSTING RANGE	
A	= 0-2 bar
G	B = 0-4 bar
	C = 0-7 bar
	D = 0-10 bar
TYPE	
1	= Standard*
N	= Without relieving
OPTIONS	
	= Standard*
L	= Low temperature
Z	= Low temperature (-60 °C)
H	= High temperature
S	= Automatic exhaust
EF	= EPDM-FDA

* no additional letter required

Operational characteristics

- Body, adjust. mechanism, AISI 316L stainless steel and caseback inter. components
- AISI 316 Adjustment springs.
- Fixing screws, adjustment screws and locknut in A4 (AISI 316) stainless steel.
- Filter-pressure regulator diaphragm with over-pressure exhaust (Relieving).
- Low hysteresis rolling diaphragm.
- Balanced system.
- Available in 4 pressure ranges up to 10 bar.
- Manual or automatic condensed exhaust.

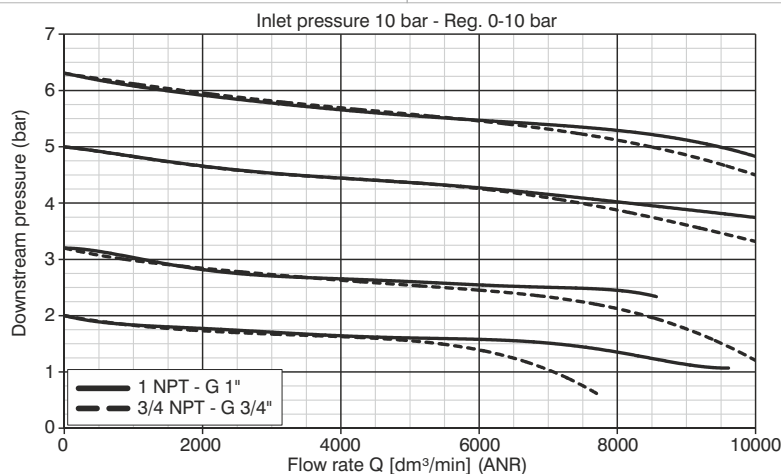
Note

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

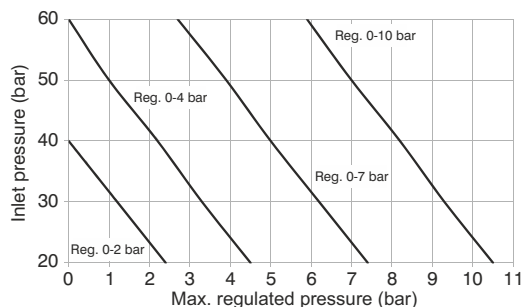
Technical characteristics

Maximum inlet pressure (Standard version)	20 bar
Maximum inlet pressure (Automatic exhaust version)	16 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (Automatic exhaust version)	-5 °C - +50 °C
Temperature (EPDM-FDA version)	-40 °C - +100 °C
Pressure gauge connections	1/8 NPT
Weight 3/4 NPT - G 3/4"	6300 (gr.)
Weight 1 NPT - G 1"	6200 (gr.)
Max. bowl capacity	78 cm ³
Assembly position	Vertical

Flow rate curves



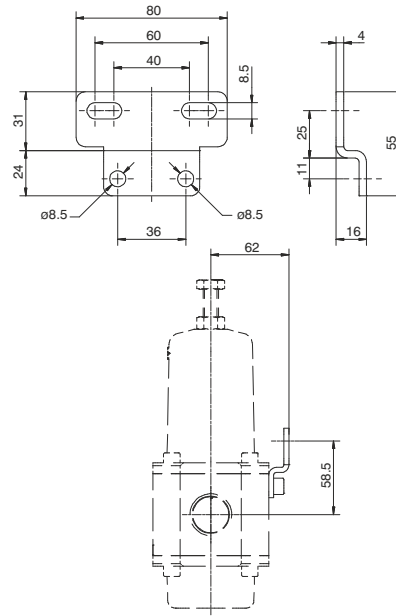
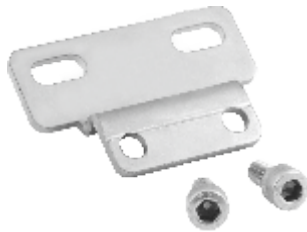
Pressure regulator Stainless steel line have been designed to withstand a **60 Bar** maximum inlet pressure.
Maximum regulated outlet pressure is 20 Bar.
For performance details please refer to diagram alongside.



Fixing bracket

Ordering code

SS17450

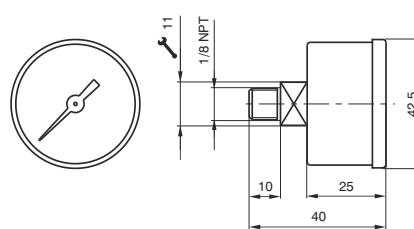


Weight 32 gr.
AISI 316L stainless steel material.
Allows wall fixing of individual products.

Pressure gauge

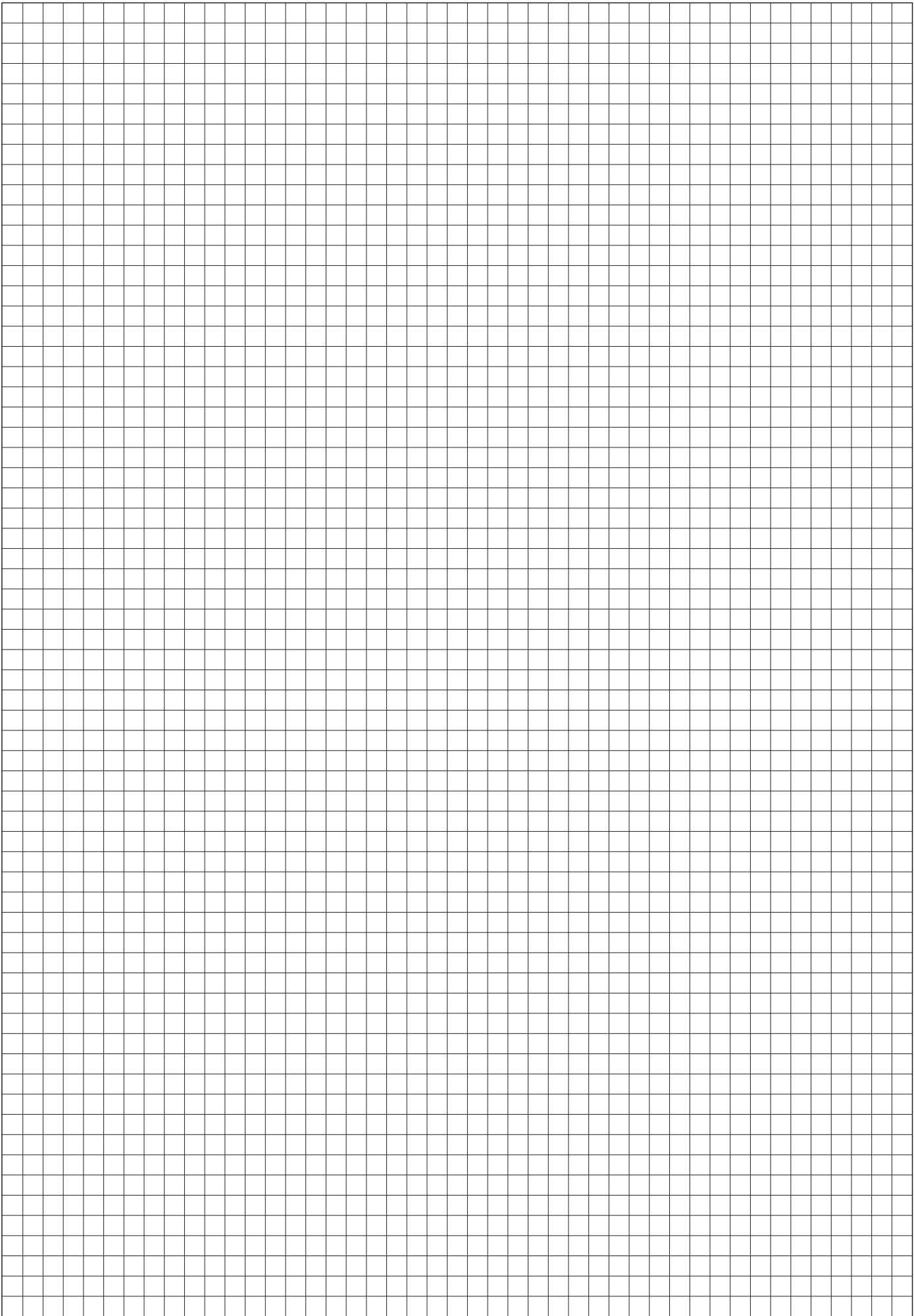
Ordering code

SS17070A



Weight 60 gr.
AISI 316 stainless steel material.
Glass transparent part with an AISI 316 stainless steel retaining ring.
Available with 0-4 bar and 0-12 bar scale.

SCALE
A = 0 ÷ 4 bar
B = 0 ÷ 12 bar



Valves, 1/4 NPT

Pneumax has wide experience and know-how to develop application-oriented solutions for the process industry, as well as a range of high-performance products aimed to improve the efficiency, 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.

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-new 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:

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

Applications:

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

All external and internal parts are AISI316L stainless steel material in compliance with NACE standard MR0175/ISO 15156-1.

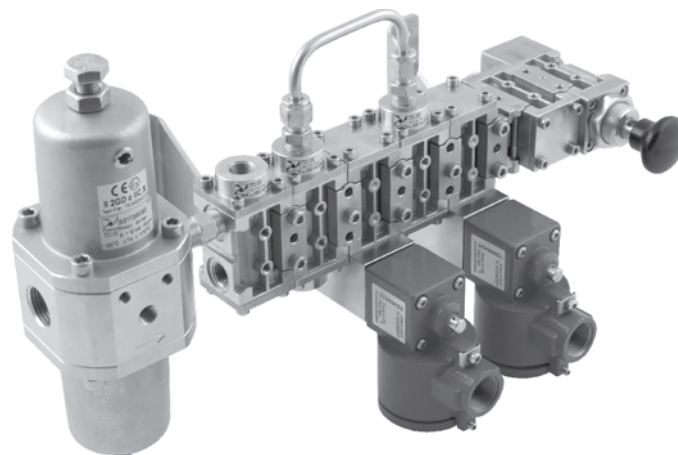
The range includes 3 and 5 way function valves, with the following functions available:

- 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 reverse self-locking manual reset
- Key-spring valve
- Accessories which include: non return valve, uni/bidirectional flow control valve 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 redundant solenoids valves



Material selection

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

Operating range

Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (when lubricated, lubrication must be continuous).
Operating temperature (for low temperature version L)	-50°C + 70°C
Operating temperature (for high temperature version H)	-10°C + 150°C
Maximum operating pressure	12 bar

Certifications available:



ATEX II 2 GD c IIC

: II 2G Ex h IIC Gb
 II 2D Ex h IIIC Db



: Suitable up to SIL 3



: CU - TR 012

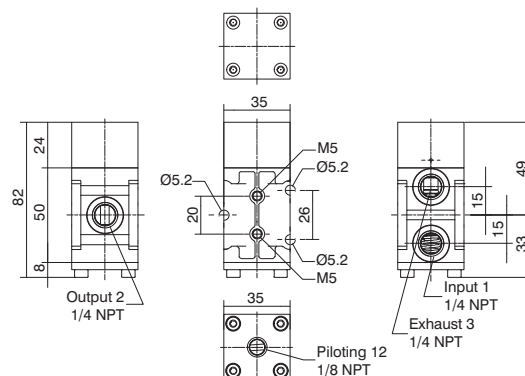
Pneumatic - Spring Valve

Ordering code

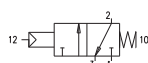
SS1432C1101

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	500	1,2	15,15

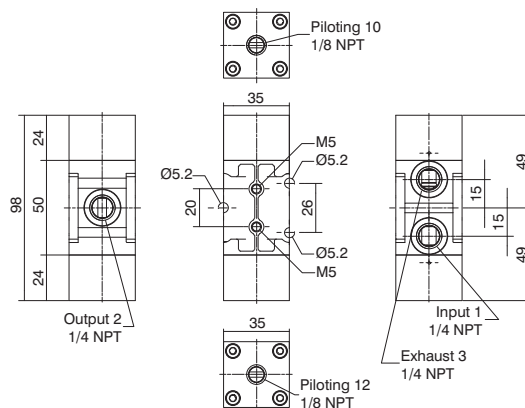
Pneumatic - Pneumatic Valve

Ordering code

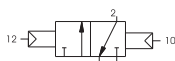
SS1432C1111

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated. When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	660	1,2	15,15

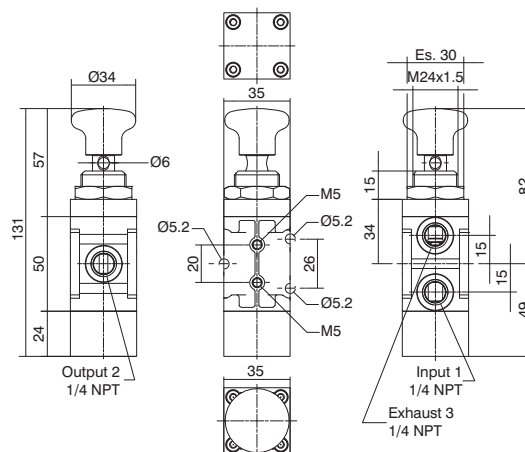
2 Position Push-Pull Valve

Ordering code

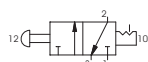
SS1432C0802

TYPE

L = Low temperature version
H = High temperature version



Actuation force 55N
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	620	1,2	15,15

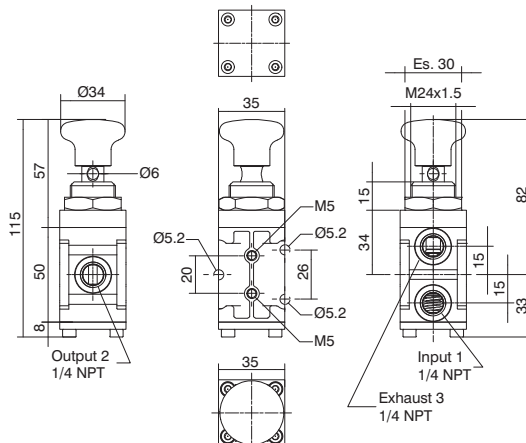
Push Button - Spring Valve

Ordering code

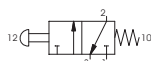
SS1432C0801T

TYPE

L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	470	1,2	15,15

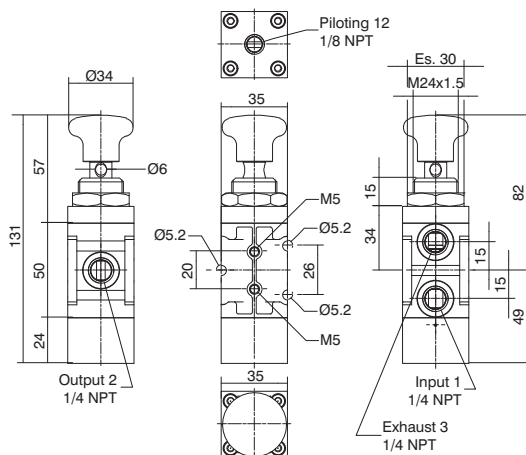
Push Button - Pneumatic Return Valve

Ordering code

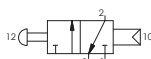
SS1432C0811T

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	600	1,02	15,15

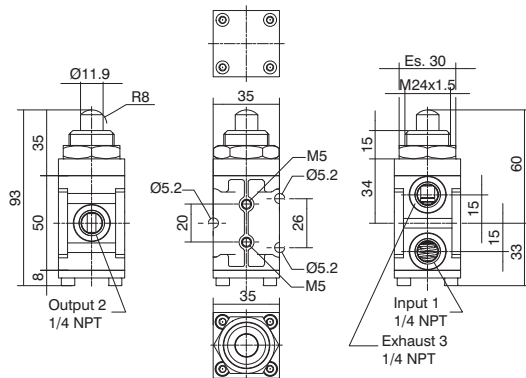
Tappet - Spring Valve

Ordering code

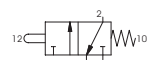
SS1432C0001T

TYPE

L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	450	1,02	15,15

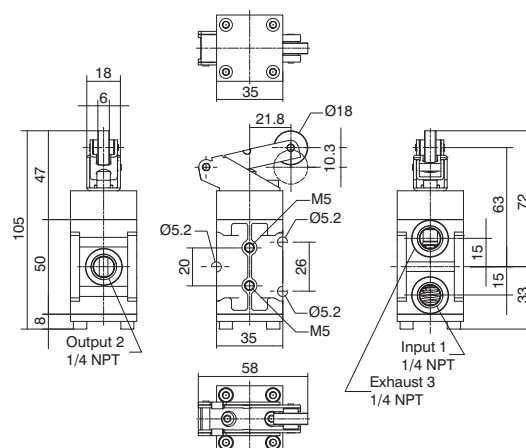
Roller Lever - Spring Valve

Ordering code

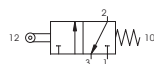
SS1432C0401

TYPE

L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	480	1,02	15,15

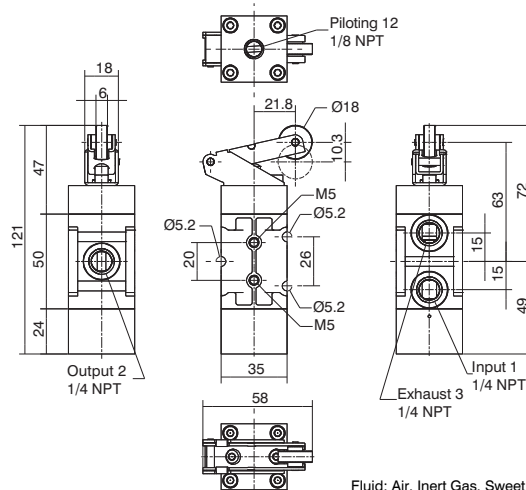
Roller Lever - Pneumatic Valve

Ordering code

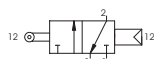
SS1432C0411

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	480	1,02	15,15

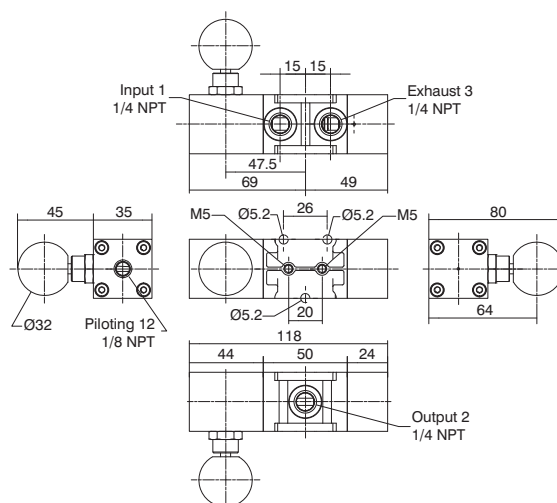
Pneumatic valve with self-locking manual reset

Ordering code

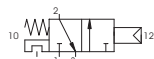
SS1432C1114

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	860	1,02	15,15

Pneumatic valve with self-locking manual reset inverted

Ordering code

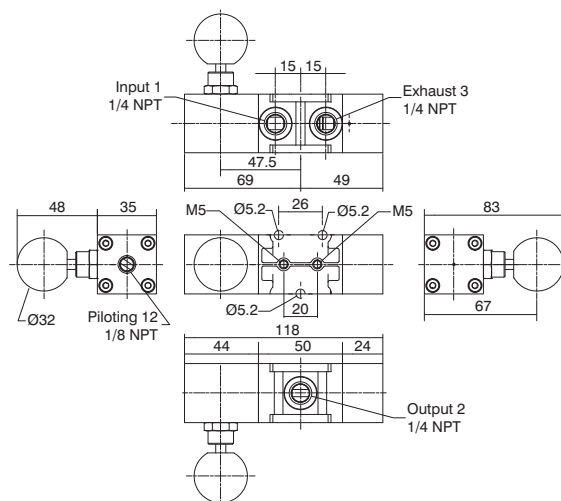
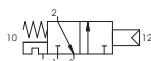
SS1432C1115T

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	860	1,02	15,15

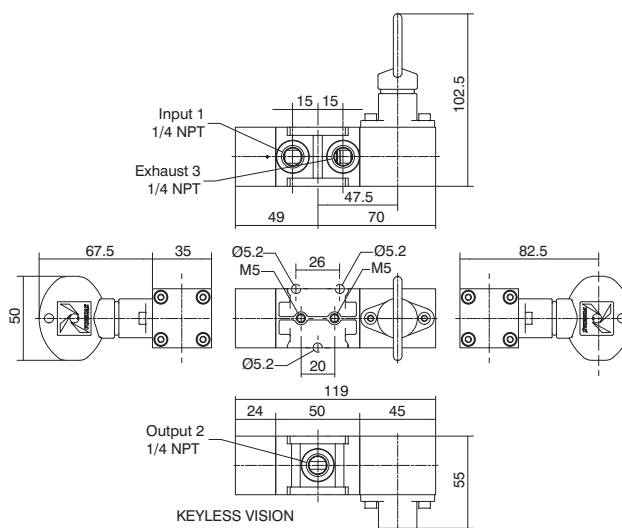
Key - Spring Valve stable

Ordering code

SS1432C1601T

TYPE

L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1020	1,02	15,15

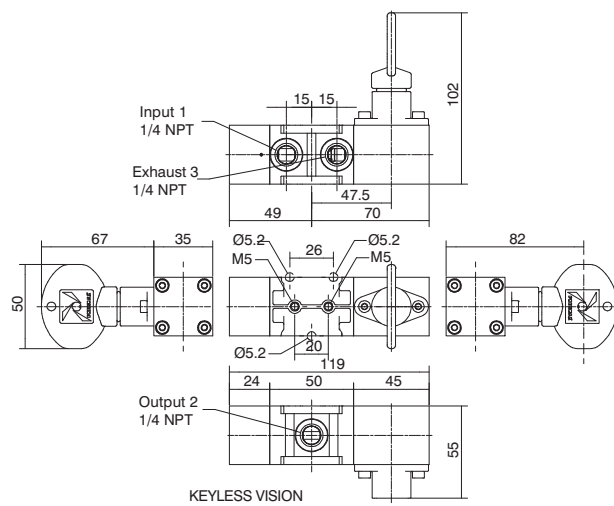
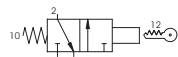
Key - Spring Valve instable

Ordering code

SS1432C2601T

TYPE

L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1020	1,02	15,15

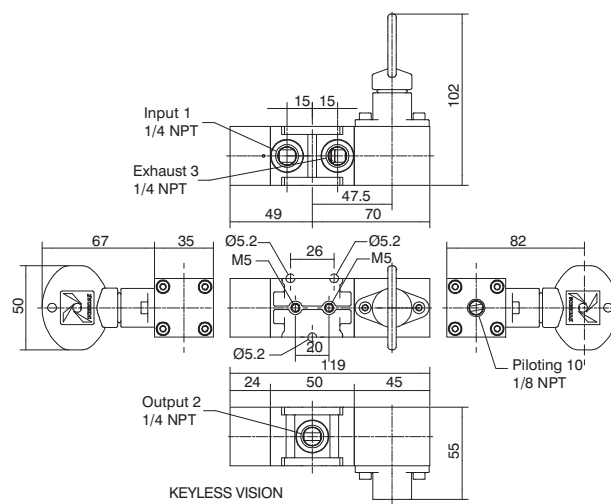
Pneumatic - Key Valve stable

Ordering code

SS1432C1611

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2,5 bar, after the valve unlock

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1020	1,02	15,15

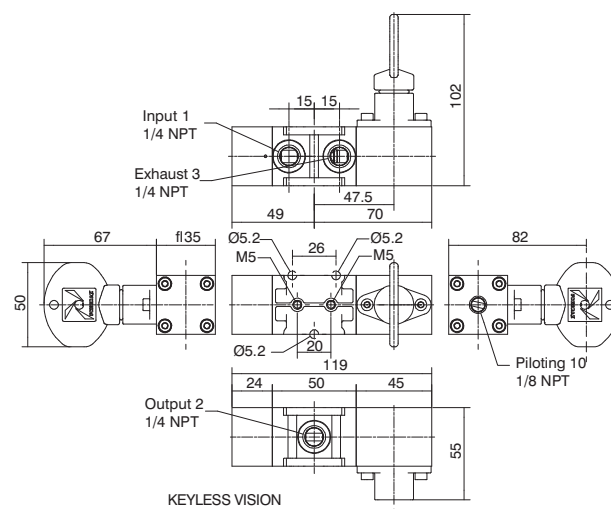
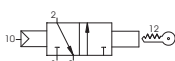
Pneumatic - Key Valve instable

Ordering code

SS1432C2611

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2,5 bar

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1020	1,02	15,15

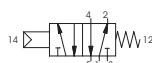
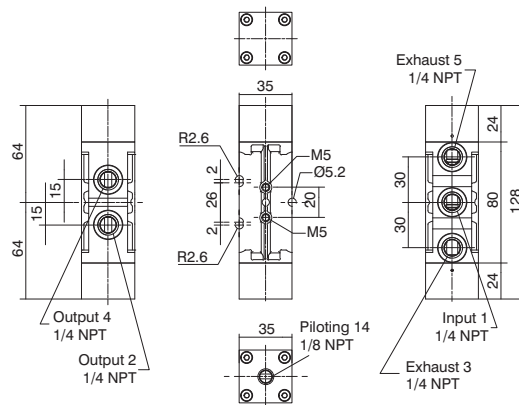
Pneumatic - Spring Valve

Ordering code

SS145201101

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	820	1,02	15,15

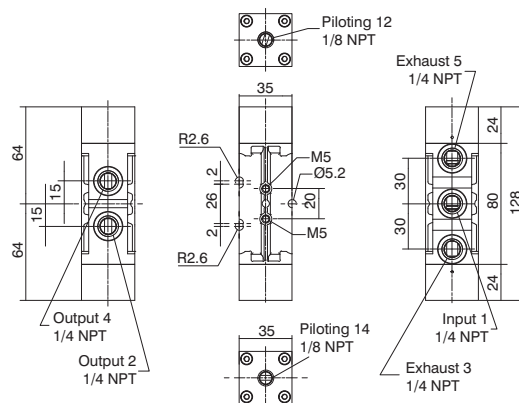
Pneumatic - Pneumatic Valve

Ordering code

SS145201111

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	820	1,02	15,15

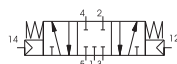
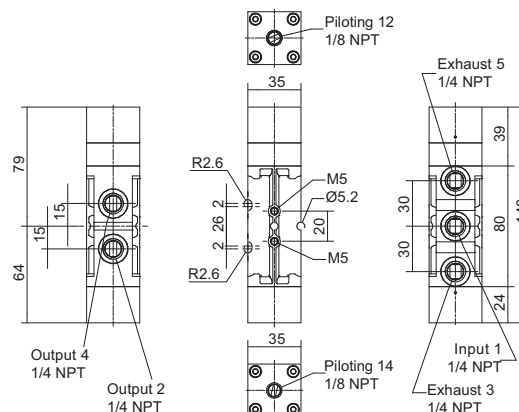
Pneumatic - Pneumatic Closed Centers Valve

Ordering code

SS145311111

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	931	1,02	15,15

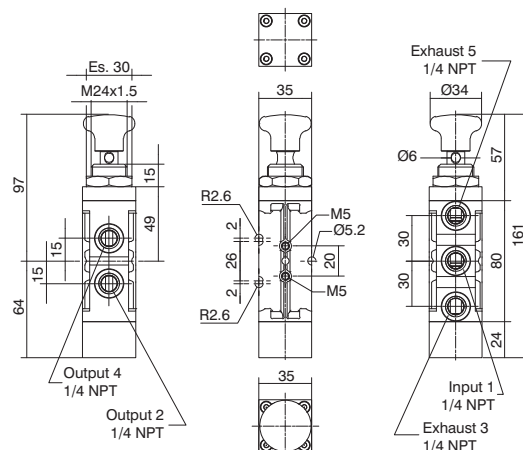
2 Position Push-Pull Valve

Ordering code

SS145200802T

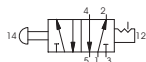
TYPE

T L = Low temperature version
H = High temperature version



Actuation force 55N

Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	770	1,02	15,15

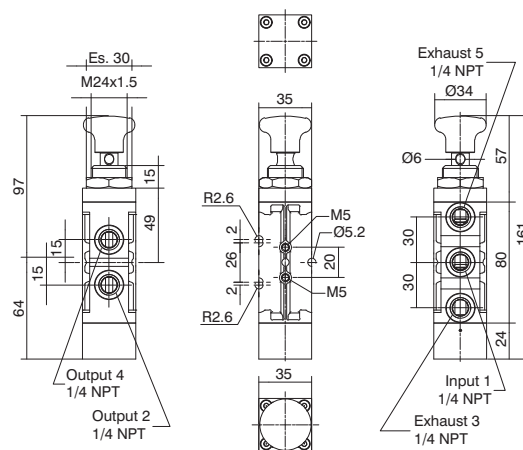
Push Button - Spring Valve

Ordering code

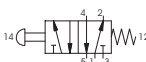
SS145200801T

TYPE

T L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	780	1,02	15,15

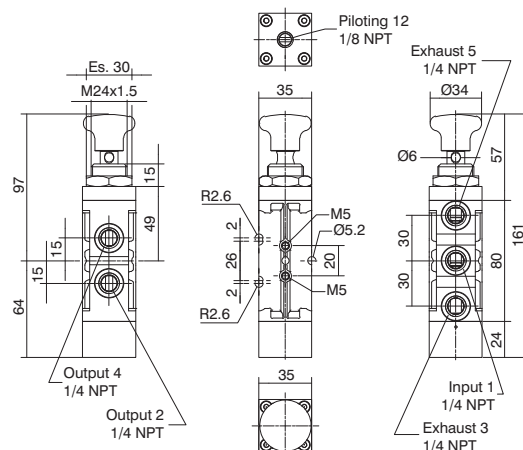
Push Button - Pneumatic Return Valve

Ordering code

SS145200811T

TYPE

T L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	780	1,02	15,15

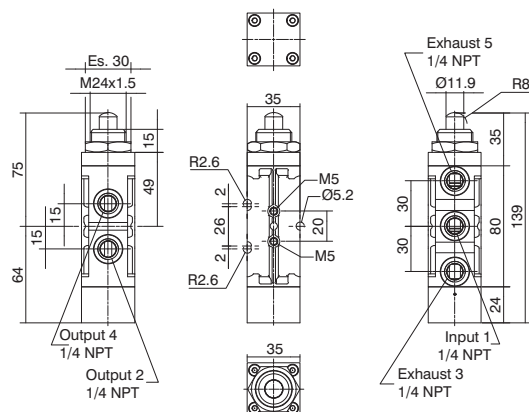
Tappet - Spring Valve

Ordering code

SS145200001

TYPE

L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	770	1,02	15,15

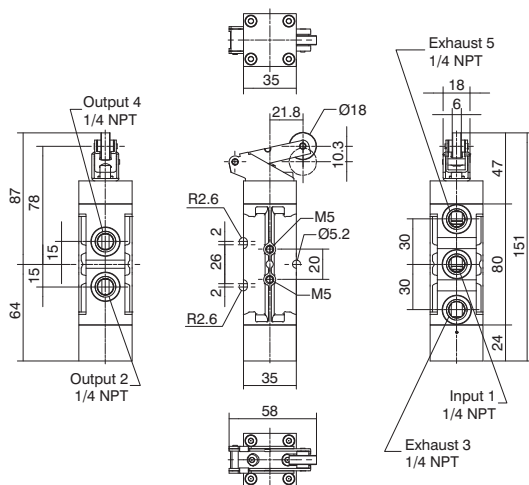
Roller Lever - Spring Valve

Ordering code

SS145200401

TYPE

L = Low temperature version
H = High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	800	1,02	15,15

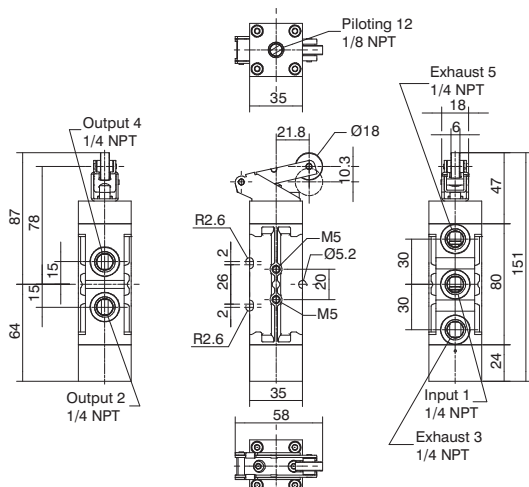
Roller Lever - Spring Valve

Ordering code

SS145200411

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	800	1,02	15,15

Pneumatic valve with self-locking manual reset

Ordering code

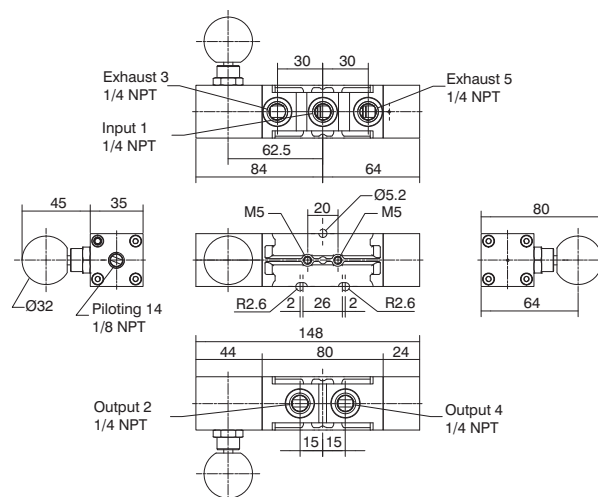
SS145201114T

TYPE

- T** L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	1020	1,02	15,15

Pneumatic valve with self-locking manual reset inverted

Ordering code

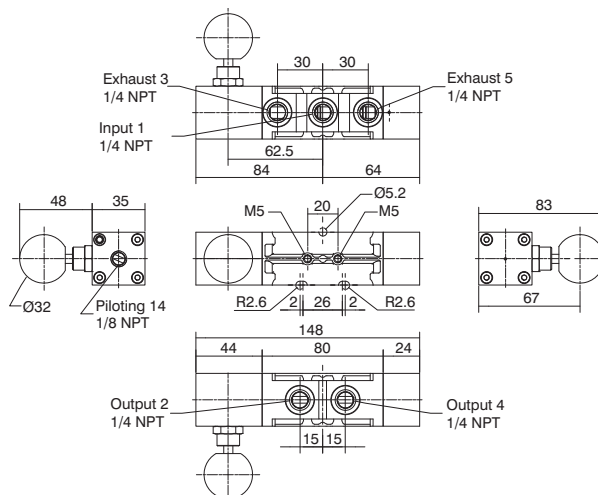
SS145201115T

TYPE

- T** L = Low temperature version
H = High temperature version



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	1020	1,02	15,15

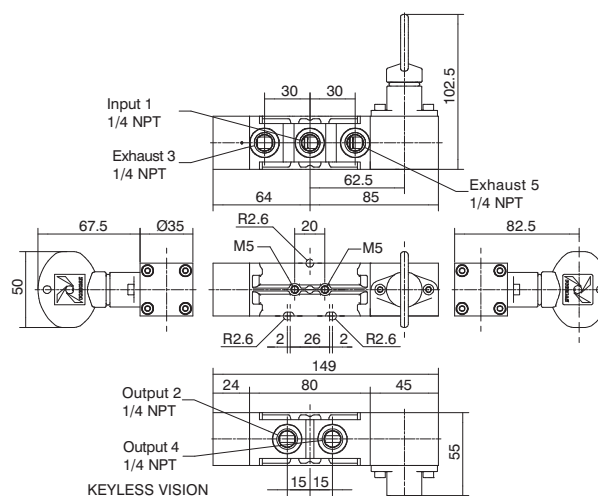
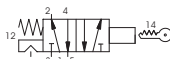
Key - Spring Valve Stable

Ordering code

SS145201601T

TYPE

- T** L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1180	1,02	15,15

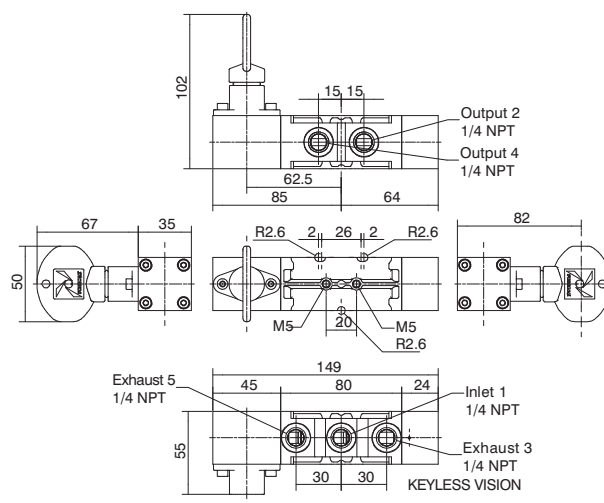
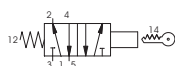
Key - Spring Valve instable

Ordering code

SS145202601

TYPE

L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1180	1,02	15,15

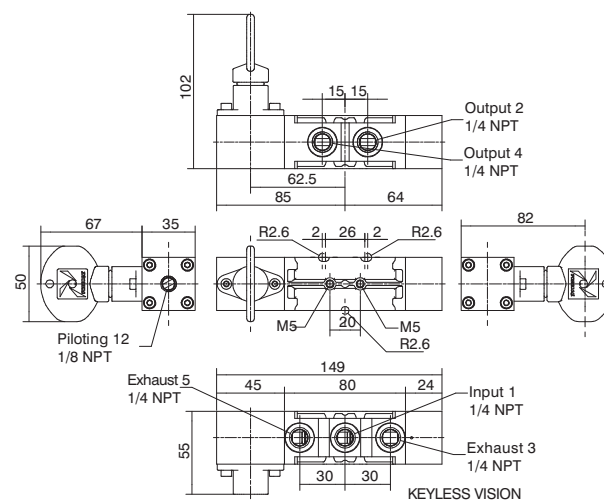
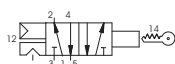
Pneumatic - Key Valve Stable

Ordering code

SS145201611

TYPE

L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1180	1,02	15,15

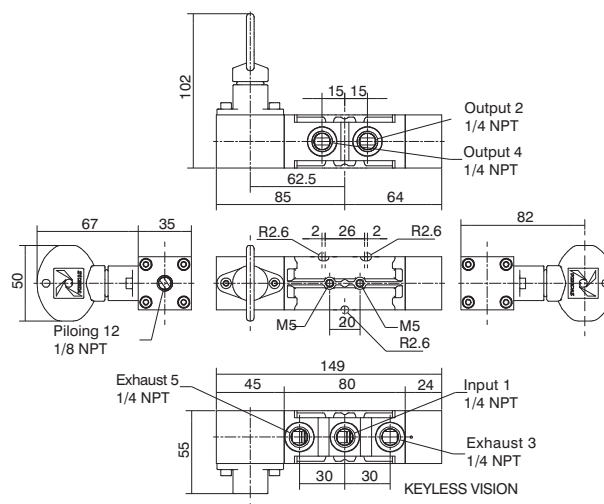
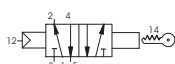
Pneumatic - Key Valve instable

Ordering code

SS145202611

TYPE

L = Low temperature version
H = High temperature version



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1180	1,02	15,15



Solenoid valves, 1/4 NPT

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered solenoids, designed according to the following configuration:

- Solenoid - spring valve
- Solenoid - solenoid valve

Pneumax solenoid valve has 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.

Material selection

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

Operating range

Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature	-10°C + 130°C
Note:	The suitable operating temperature is limited by the most restrictive component, which is the pilot, regardless of the type of seals used in the valve spool.
Minimum operating pressure	10 bar

Electrical specifications for inherent safety

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

Certifications available:

Non ATEX marked product



: Suitable up to SIL 3



Solenoid - Spring Valve

3/2

Ordering code

SS1432C2T001H

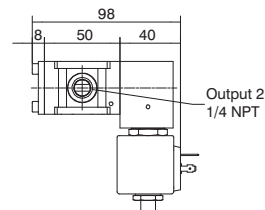
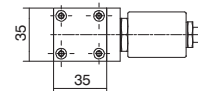
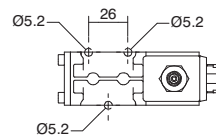
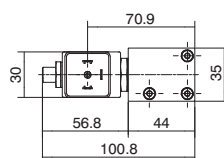
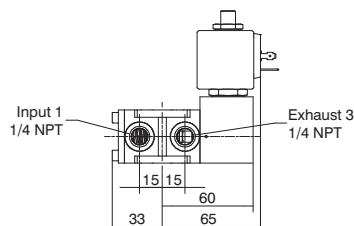
VOLTAGE

0 = 12 V DC

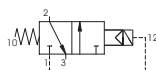
1 = 24 V DC

B = 24 V AC (50/60 Hz)

E = 230 V AC (50/60 Hz)



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	900	1,02	15,15

Solenoid - Solenoid Valve

3/2

Ordering code

SS1432C2T020H

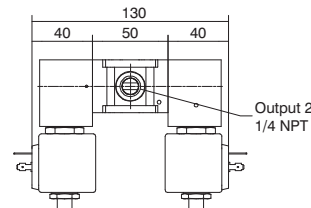
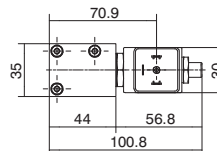
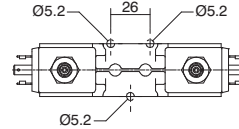
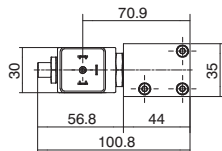
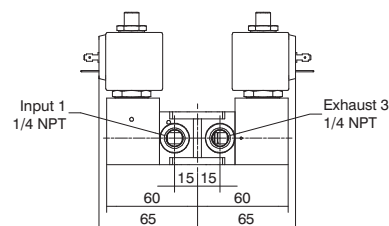
VOLTAGE

0 = 12 V DC

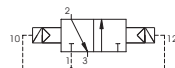
1 = 24 V DC

B = 24 V AC (50/60 Hz)

E = 230 V AC (50/60 Hz)



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1400	1,02	15,15

Solenoid - Spring Valve

5/2

Ordering code

SS145202T01H

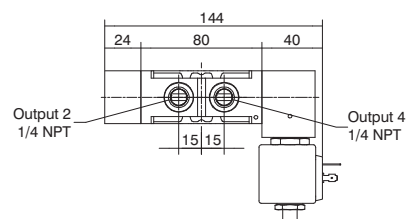
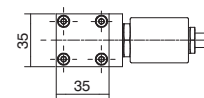
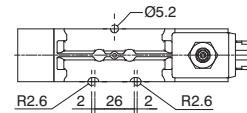
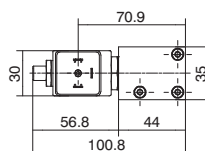
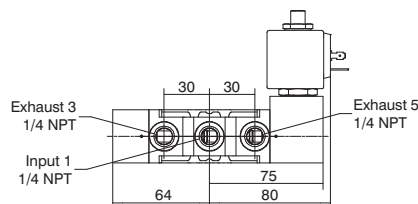
VOLTAGE

0 = 12 V DC

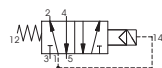
1 = 24 V DC

B = 24 V AC (50/60 Hz)

E = 230 V AC (50/60 Hz)



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1200	1,02	15,15

Solenoid - Solenoid Valve

5/2

Ordering code

SS145202T20H

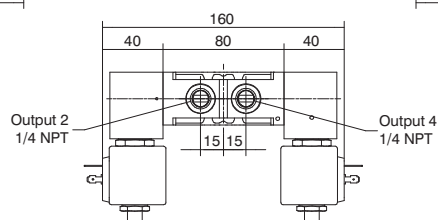
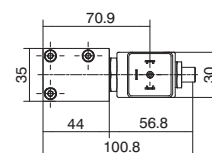
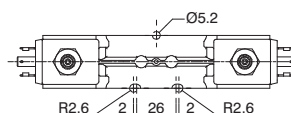
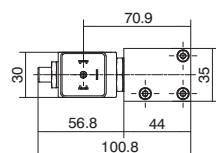
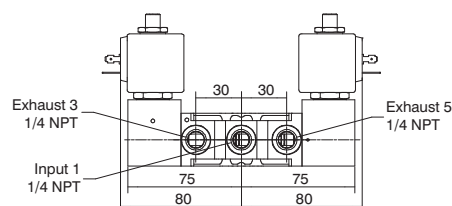
VOLTAGE

0 = 12 V DC

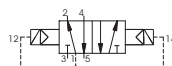
1 = 24 V DC

B = 24 V AC (50/60 Hz)

E = 230 V AC (50/60 Hz)



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1600	1,02	15,15



Steel line Series

1/4 NPT Solenoid valves - For safe area with IP66 stainless steel housing

1/4 NPT Solenoid valves - For safe area with IP66 stainless steel housing

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered solenoids, designed according to the following configuration:

- Solenoid - spring valve
- Solenoid - solenoid valve
- Solenoid valve with self-locking manual reset
- Solenoid valve with reverse self-locking manual reset

Pneumax solenoid valve has 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.

Material selection

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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
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 and construction features

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 class	H
Nominal Voltage	24V 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 2.5mm
IP Rating	IP66
Tolerance on Voltage supply	±10%
ED continuous service	100%

Certifications available:

Non ATEX marked product



: Suitable up to SIL 3



Solenoid - Spring Valve

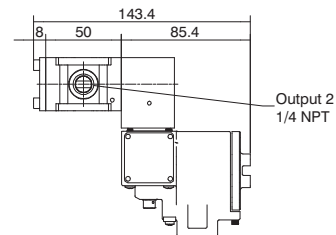
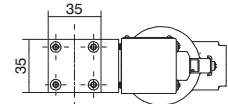
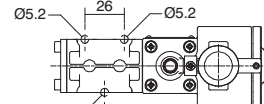
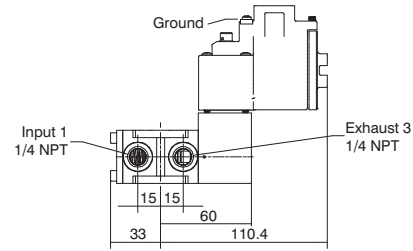
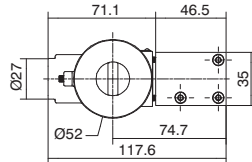
3/2

Ordering code

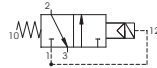
SS1432CA101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1500	1,02	15,15

Solenoid - Solenoid Valve

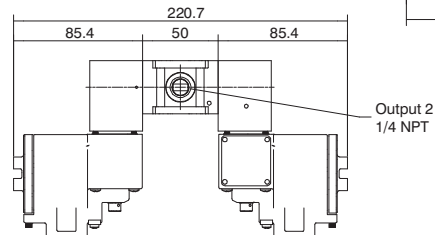
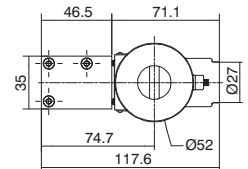
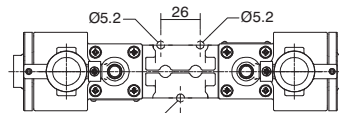
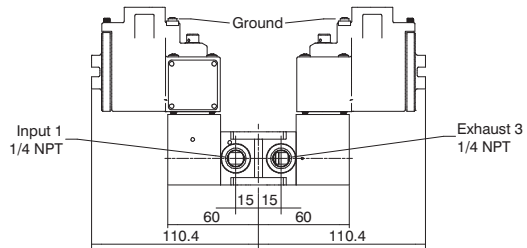
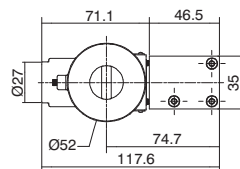
3/2

Ordering code

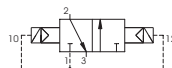
SS1432CA101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2600	1,02	15,15



Steel line Series

Solenoid valvess 5/2, 1/4 NPT – For safe area with IP66 stainless steel housing

Solenoid - Spring Valve

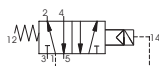
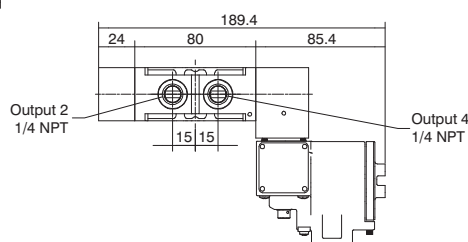
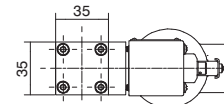
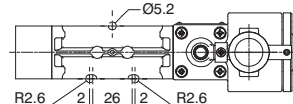
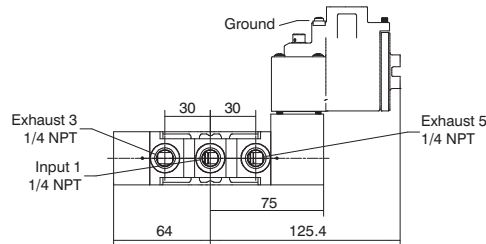
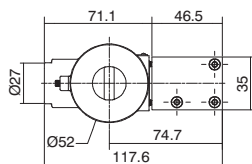
5/2

Ordering code

SS14520A101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1800	1,02	15,15

Solenoid - Solenoid Valve

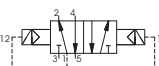
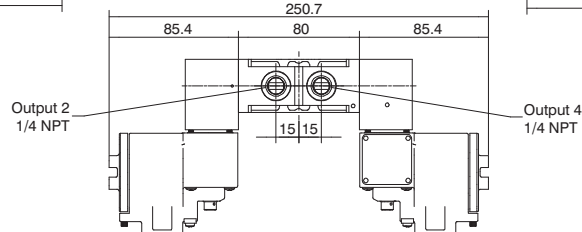
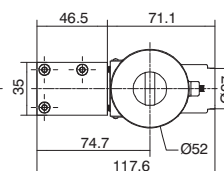
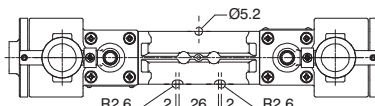
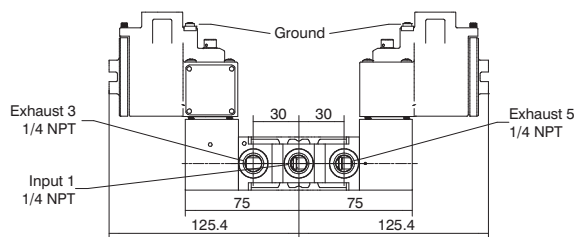
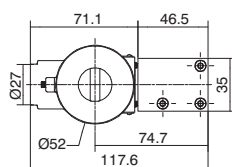
5/2

Ordering code

SS14520A1A1L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2750	1,02	15,15

Solenoid valves with self-locking manual reset

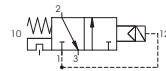
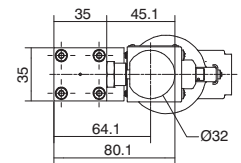
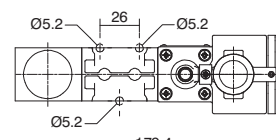
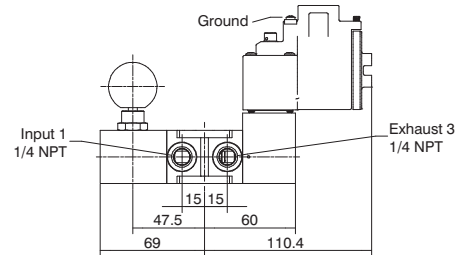
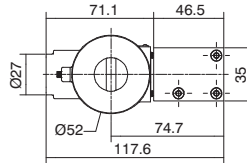
3/2

Ordering code

SS1432CA114L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
 Filtered, lubricated or non-lubricated.
 When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1850	1,02	15,15

Solenoid valves with self-locking manual reset inverted

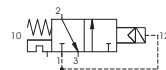
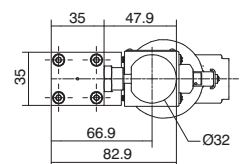
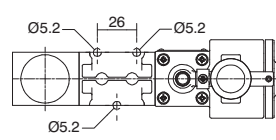
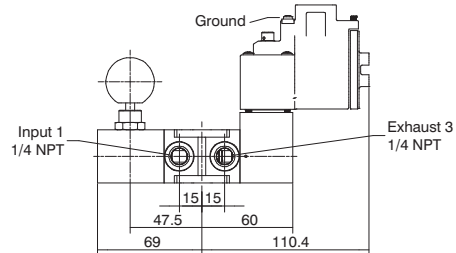
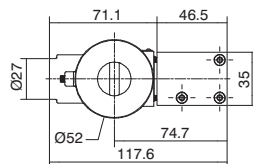
3/2

Ordering code

SS1432CA115L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
 Filtered, lubricated or non-lubricated.
 When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1850	1,02	15,15



Steel line Series

Solenoid valves 5/2, 1/4 NPT – For safe area with IP66 stainless steel housing

Solenoid valves with self-locking manual reset

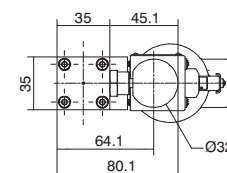
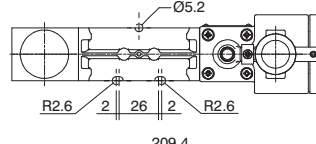
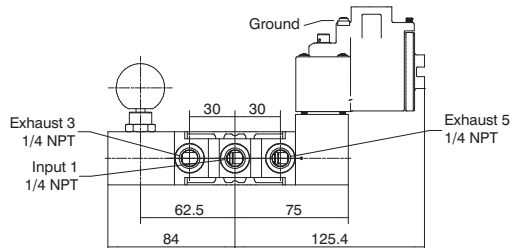
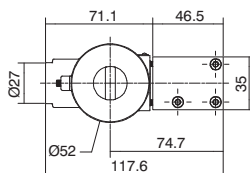
5/2

Ordering code

SS14520A114L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2000	1,02	15,15

Solenoid valves with self-locking manual reset inverted

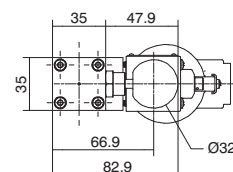
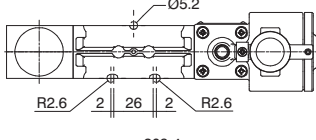
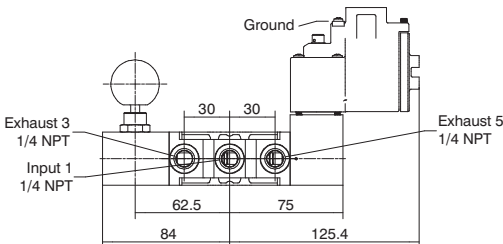
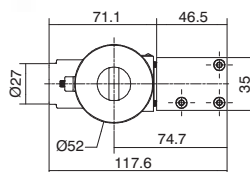
5/2

Ordering code

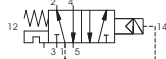
SS14520A115L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2000	1,02	15,15



1/4 NPT Solenoid valves - IP66 Exd Explosion protection

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered solenoids, designed according to the following configuration:

- Solenoid - spring valve
- Solenoid - solenoid valve
- Solenoid valve with self-locking manual reset
- Solenoid valve with reverse self-locking manual reset

Pneumax solenoid valve has 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.

Material selection

Body	AISI 316L Stainless steel
Operators	AISI 316L Stainless steel
Spool	AISI 316L Stainless steel
Springs	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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature for DC version	-50°C +70°C
Operating temperature for AC version	-50°C +55°C
Maximum operating pressure	10 bar

Electrical and construction Features

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 class	H
Nominal Voltage	24V 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 2.5mm
IP Rating	IP66
Tolerance on Voltage supply	± 10%
ED continuous service	100%

Certifications available:



: International certification
for explosive atmospheres



: Suitable up to SIL 3



: Nepsy approval - China



: CU - TR 012

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



Steel line Series

Solenoid valves 3/2, 1/4 NPT – IP66 Exd Explosion protection

Solenoid - Spring Valve

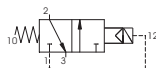
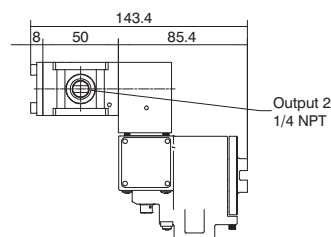
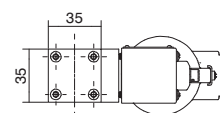
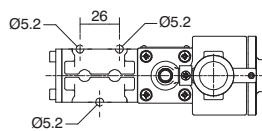
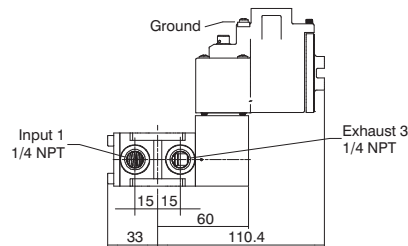
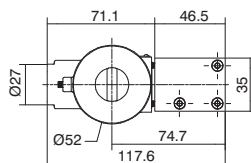
3/2

Ordering code

SS1432CB101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1500	1,02	15,15

Solenoid - Solenoid Valve

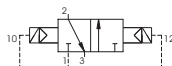
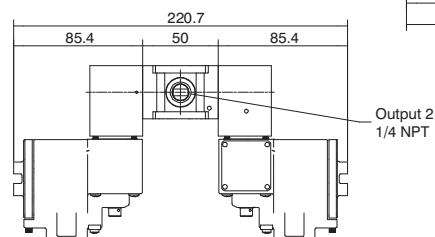
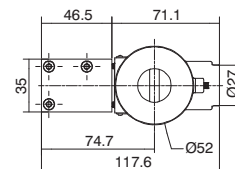
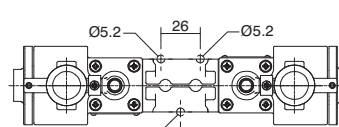
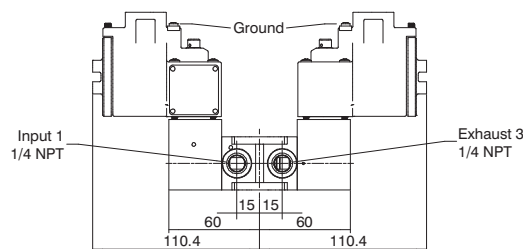
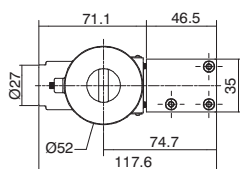
3/2

Ordering code

SS1432CB101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2600	1,02	15,15

Solenoid - Spring Valve

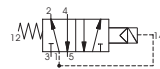
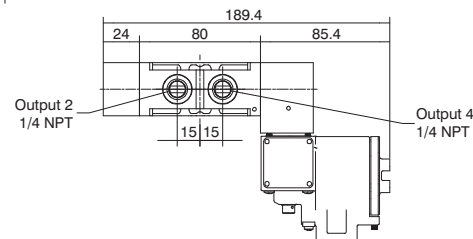
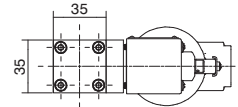
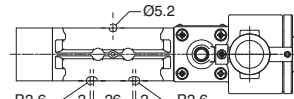
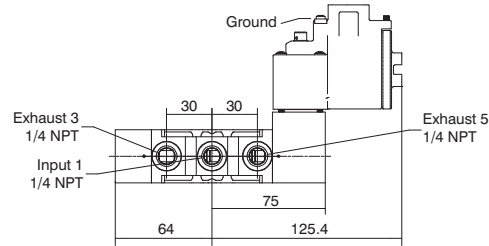
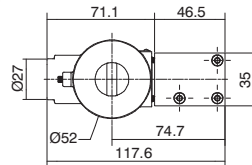
5/2

Ordering code

SS14520B101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1800	1,02	15,15

Solenoid - Solenoid Valve

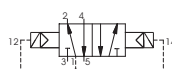
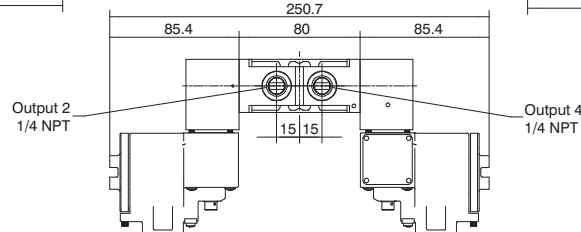
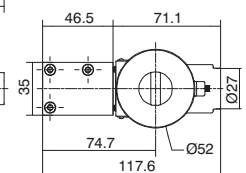
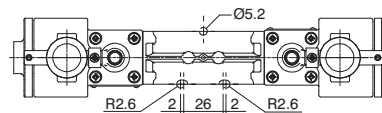
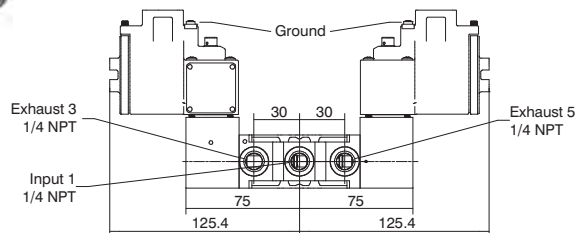
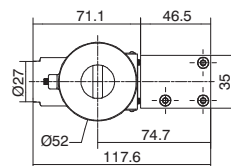
5/2

Ordering code

SS14520B101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2750	1,02	15,15



Steel line Series

Solenoid valves 3/2, 1/4 NPT – IP66 Exd Explosion protection

Solenoid valves with self-locking manual reset

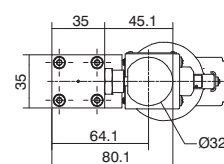
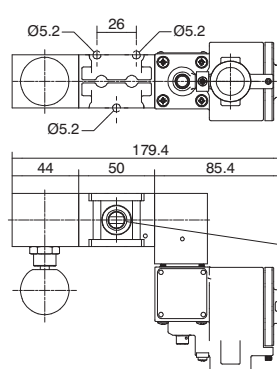
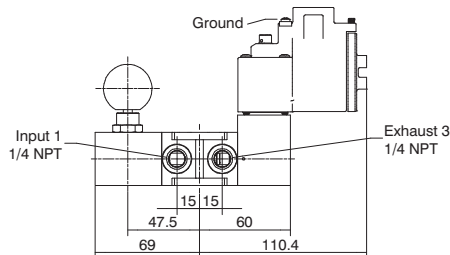
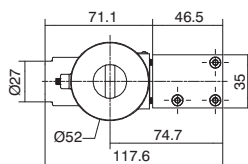
3/2

Ordering code

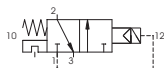
SS1432CB114L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1850	1,02	15,15

Solenoid valves with self-locking manual reset inverted

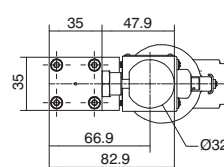
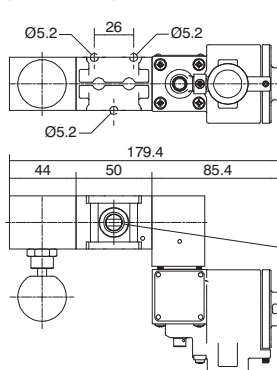
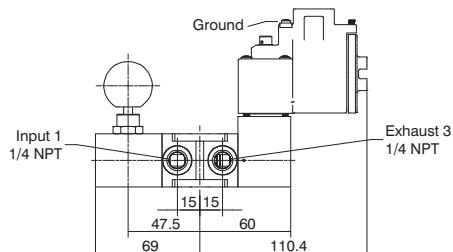
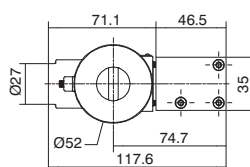
3/2

Ordering code

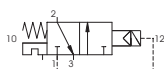
SS1432CB115L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1850	1,02	15,15

Solenoid valves with self-locking manual reset

5/2

Ordering code

SS14520B114L

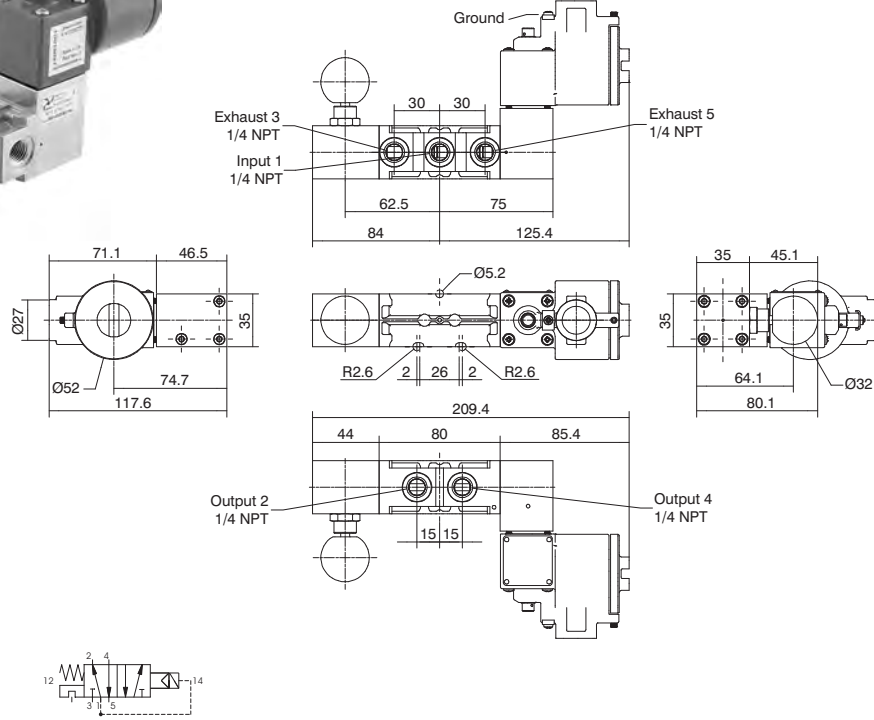
VOLTAGE

1 = 24 V DC

T 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics					
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2000	1,02	15,15

Solenoid valves with self-locking manual reset inverted

5/2

Ordering code

SS14520B115L

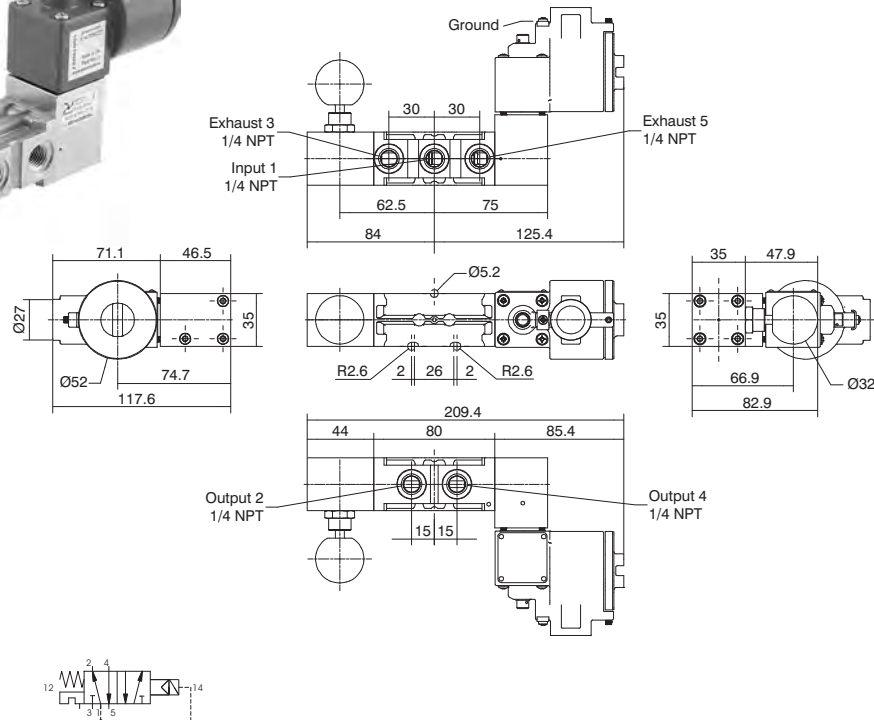
VOLTAGE

1 = 24 V DC

T 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics					
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2000	1,02	15,15



1/4 NPT Solenoid valves - Intrinsically safe Exia

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered solenoids, designed according to the following configuration:

- Solenoid - spring valve
- Solenoid - solenoid valve
- Solenoid valve with self-locking manual reset
- Solenoid valve with reverse self-locking manual reset

Pneumax solenoid valve has 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.

Material selection

Body	AISI 316L Stainless steel
Operators	AISI 316L Stainless steel
Spool	AISI 316L Stainless steel
Springs	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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
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 and Construction Features

Housing	Zinc alloy with epoxy paint
Armour / Cores	Ferromagnetic stainless steel
Springs	Stainless steel
Seals	FPM (Fluoroelastomer)
Incorporation	PBT, 30% glass load
Wire insulation class	H
Guide tube	Stainless steel
Resistance	370 Ohms
Nominal voltage	24V DC
Power consumption DC	0.4W (running)
Connection for cable entry	M20X1.5
Electrical connection	Screw terminals 2 Poles 2.5mm
IP Rating	IP65
Tolerance on Voltage supply	-10%
ED continuous service	100%

Electrical specifications for intrinsically safe

Umax: in	31 V DC
I _{max} :	0,67 A
Wmax: in	2,98 W

Certifications available:



ATEX CE II 2 GD c IIC
 : [CE II 2G Ex h IIC Gb
 CE II 2D Ex h IIIC Db]



: International certification
 for explosive atmospheres



: Suitable up to SIL 3



: UL/CSA factory mutual approval



: CU - TR 012

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

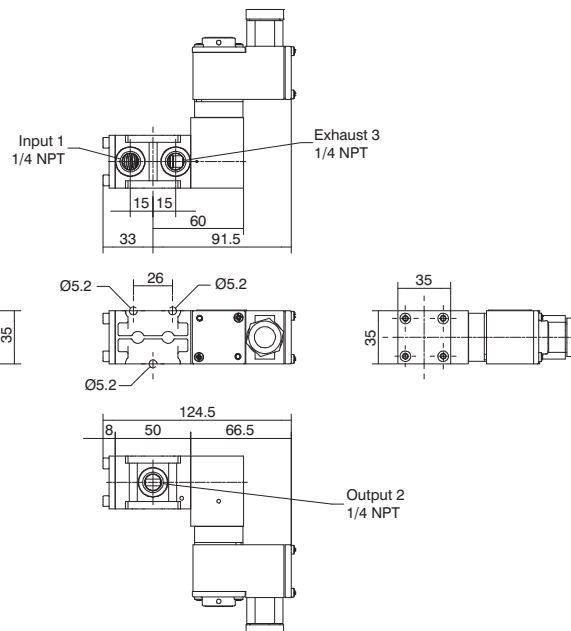
Solenoid - Spring Valve

3/2

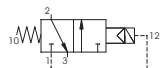
Ordering code

SS1432CC101L

V VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1200	1,02	15,15

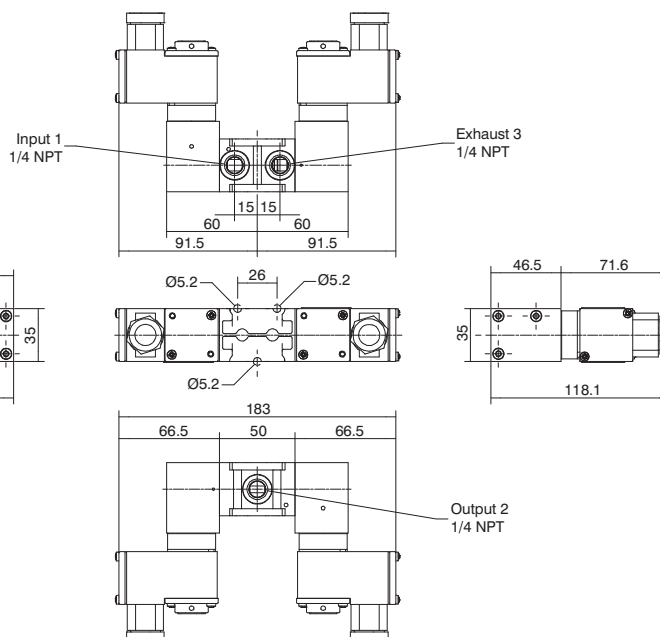
Solenoid - Solenoid Valve

3/2

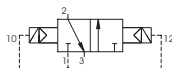
Ordering code

SS1432CC1C1L

V VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2300	1,02	15,15



Solenoid - Spring Valve

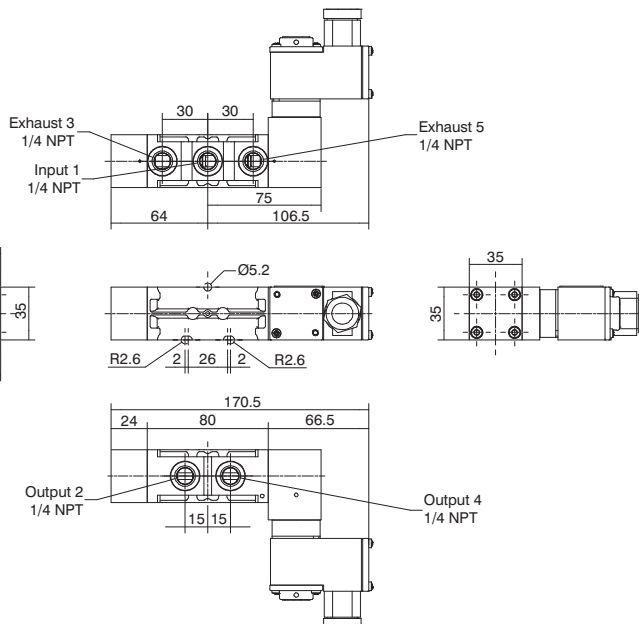
5/2

Ordering code

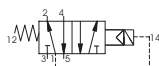
SS14520C101L

VOLTAGE

1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1500	1,02	15,15

Solenoid - Solenoid Valve

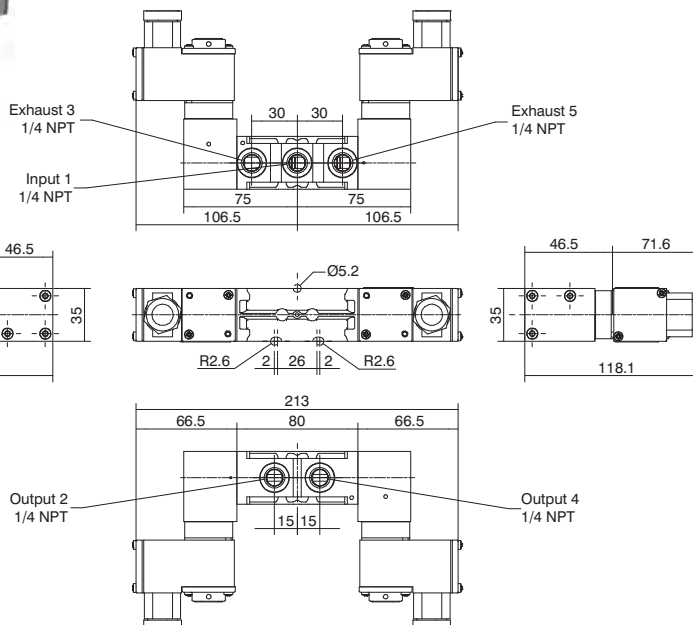
5/2

Ordering code

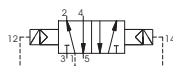
SS14520C1C1L

VOLTAGE

1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2150	1,02	15,15

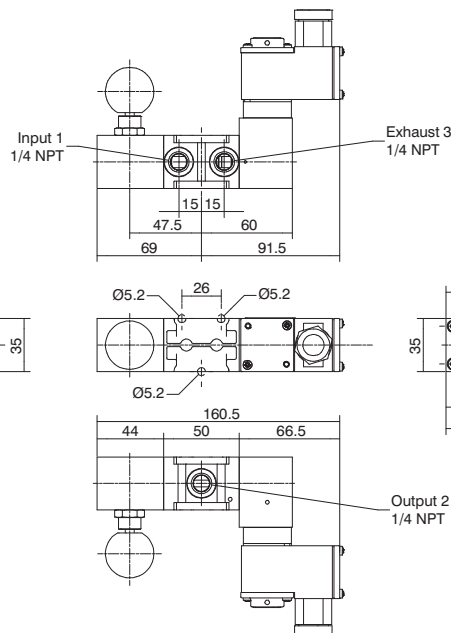
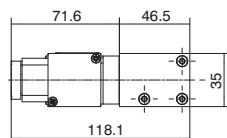
Solenoid valves with self-locking manual reset

3/2

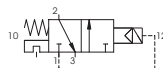
Ordering code

SS1432CC114L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1550	1,02	15,15

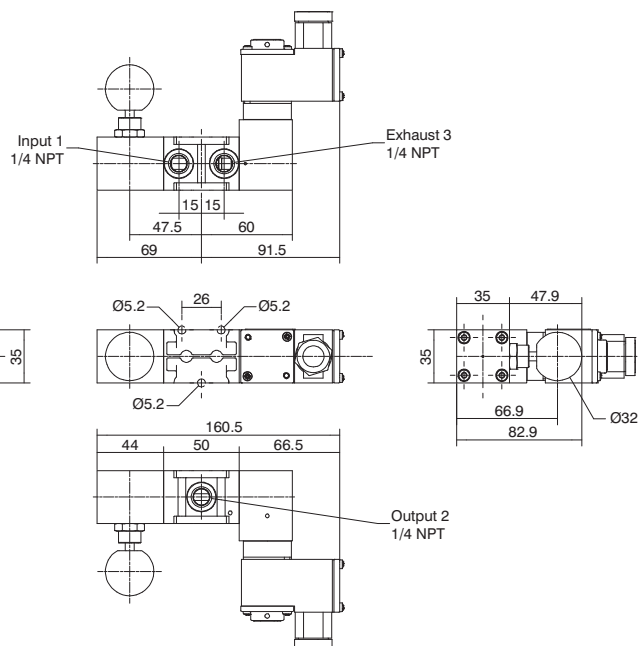
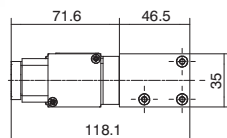
Solenoid valves with self-locking manual reset inverted

3/2

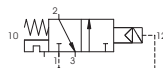
Ordering code

SS1432CC115L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1550	1,02	15,15



Steel line Series

Solenoid valves 5/2, 1/4 NPT – Intrinsically safe Exia

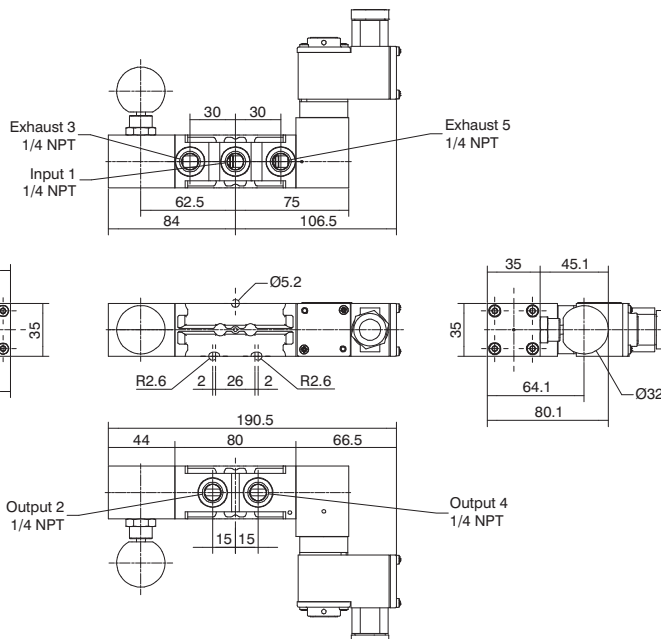
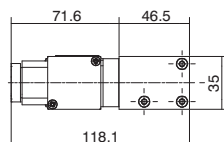
Solenoid valves with self-locking manual reset

5/2

Ordering code

SS14520C114L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1700	1,02	15,15

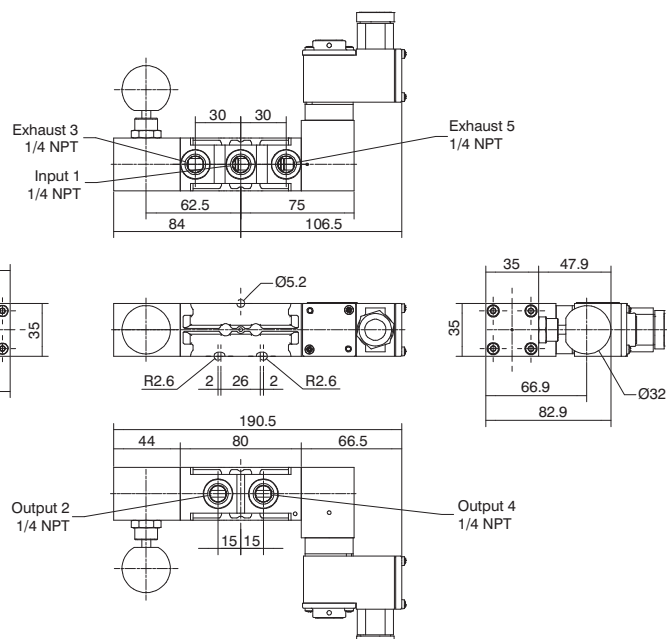
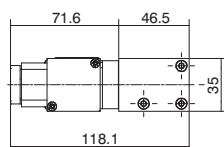
Solenoid valves with self-locking manual reset inverted

5/2

Ordering code

SS14520C115L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 2.5 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

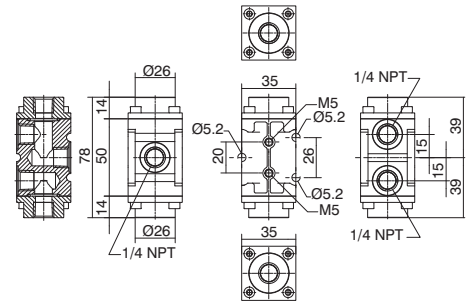


Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1700	1,02	15,15

Flow divider, 2 outputs

Ordering code
SS14T200T
TYPE
T L = Low temperature version
H = High temperature version



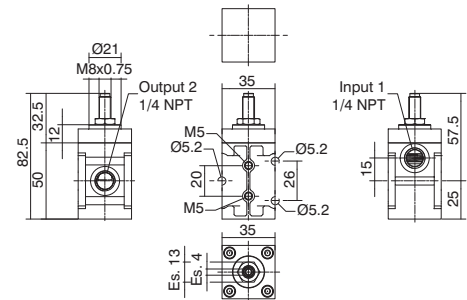
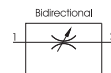
Different types of dividers
available on request

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1700	1/4 NPT	390	1,73	25,75

Flow regulator 1/4 NPT

Ordering code
SS14RF0T
FUNCTION
F U = Unidirectional
B = Bidirezionale
TYPE
T L = Versione bassa temperatura
H = Versione alta temperatura

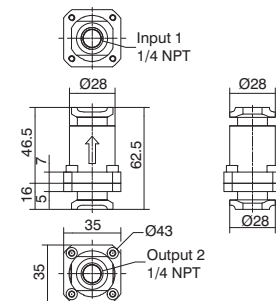
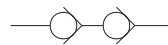


Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	500	1,02	15,15

Non return valve

Ordering code
SS14VUS0T
TYPE
T L = Low temperature version
H = High temperature version

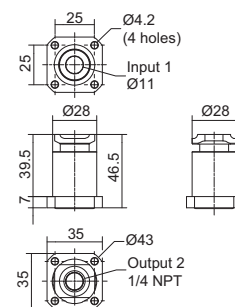
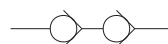


Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1400	1/4 NPT	220	1,42	21,21

Non return valve for group

Ordering code
SS14VUG0T
TYPE
T L = Low temperature version
H = High temperature version



Operational characteristics

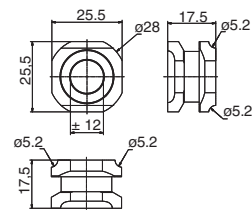
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1400	1/4 NPT	150	1,42	21,21



Adapter for 90°

Ordering code

SS1490



Construction characteristics

Weight (gr.)

45

Seal OR 2,62 x 13,95

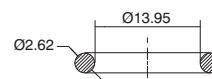
Ordering code

SS14D^T

TYPE

L = Low temperature version

H = High temperature version



100-piece pack

Construction characteristics

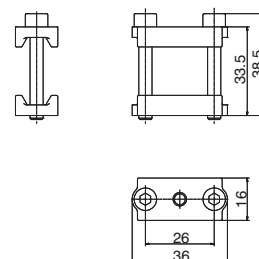
Weight (gr.)

0,38

Mounting kit "A"

Ordering code

SS14A



Kit includes:

Nr. 1 Front flange

Nr. 1 Threaded rear flange

Nr. 2 Screws M5x35 AISI 316

Construction characteristics

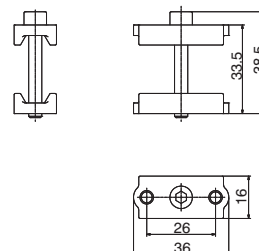
Weight (gr.)

55

Mounting kit "B"

Ordering code

SS14B



Kit includes:

Nr. 1 Front flange

Nr. 1 Threaded rear flange

Nr. 1 Screw M5x35 AISI 316

Construction characteristics

Weight (gr.)

48

Single deployment flange

Ordering code

SS14C



Kit includes:

Nr. 1 Single deployment Flange

Nr. 3 Screws M5x40 AISI 316

Nr. 2 Screws M5x8 AISI 316

Construction characteristics

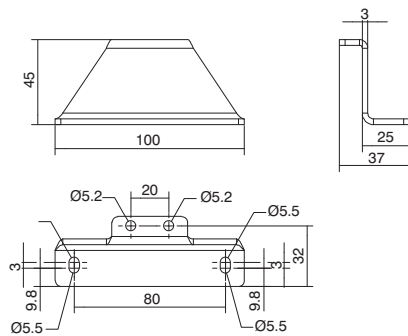
Weight (gr.)

55

Fixing bracket

Ordering code

SS14M5



Kit includes:

Nr. 2 Screws M5x8 AISI 316

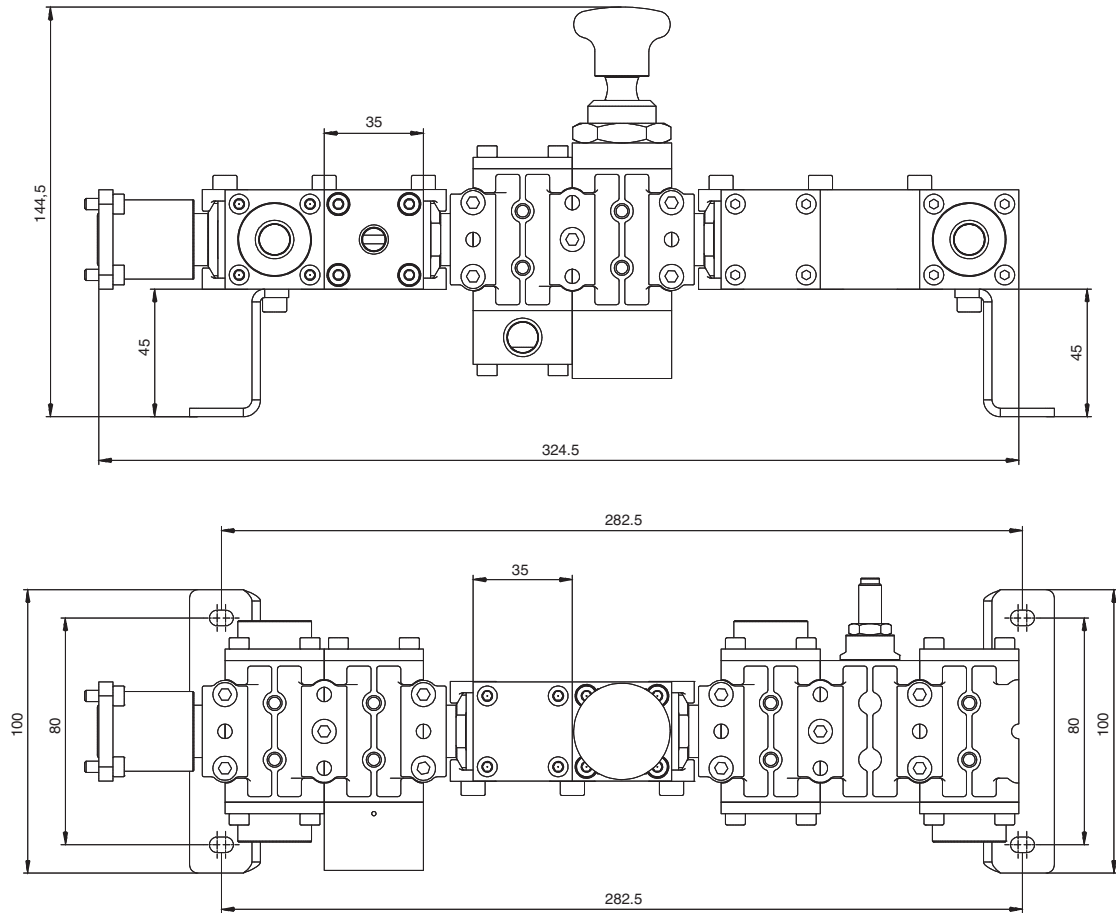
Nr. 1 Flange

Construction characteristics

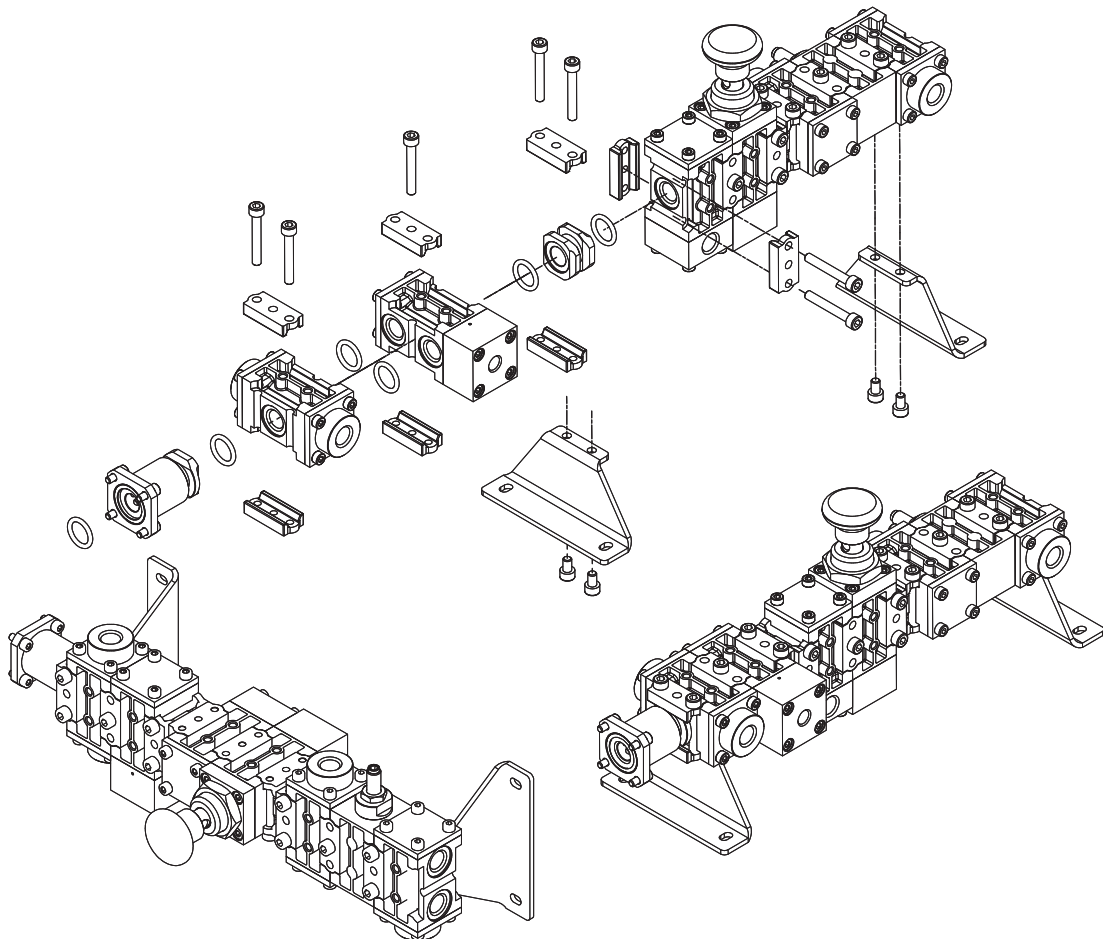
Weight (gr.)

125

Example: Manifold system



Example: Group assembly scheme



Valves, 1/2 NPT

Stainless steel brand-new 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 AISI316L 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 reverse self-locking manual reset **(only in a 3 way function)**.
- Accessories : non return valve, uni/bidirectional flow control valve and quick exhaust valve.

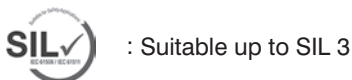
Pneumax valve has 1/2 NPT connections with 3500NI/min maximum flow rate.

This version only provides single mounting

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

Operating range	
Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
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:



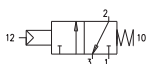
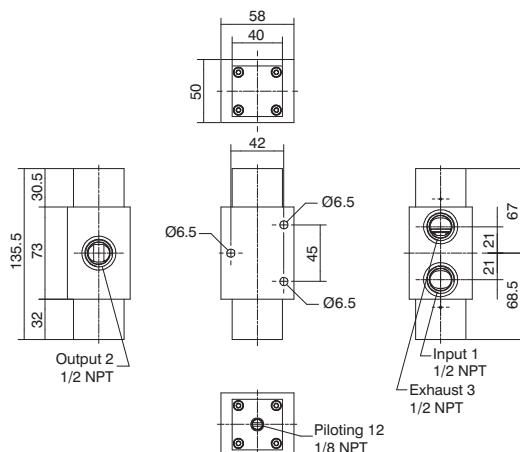
Pneumatic - Spring Valve

Ordering code

SS1232C1101T

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1/8 NPT	1992	3,55	53,03

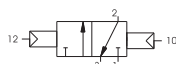
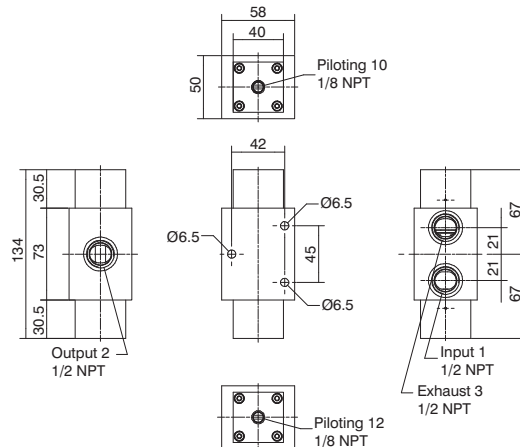
Pneumatic - Pneumatic Valve

Ordering code

SS1232C1111T

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1/8 NPT	2001	3,55	53,03

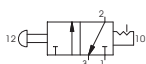
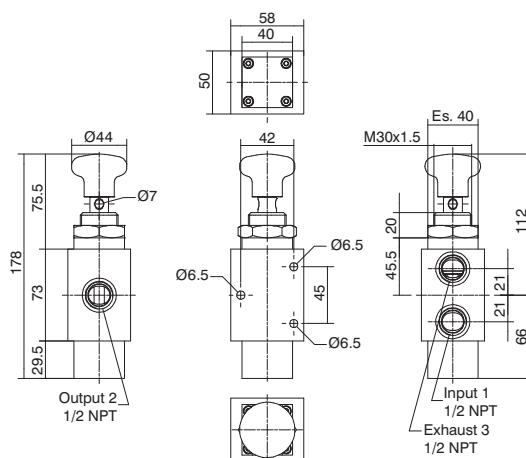
2 Position Push-Pull Valve

Ordering code

SS1232C0802T

TYPE

L = Low temperature version
H = High temperature version



Actuation force 55N.
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	2027	3,55	53,03

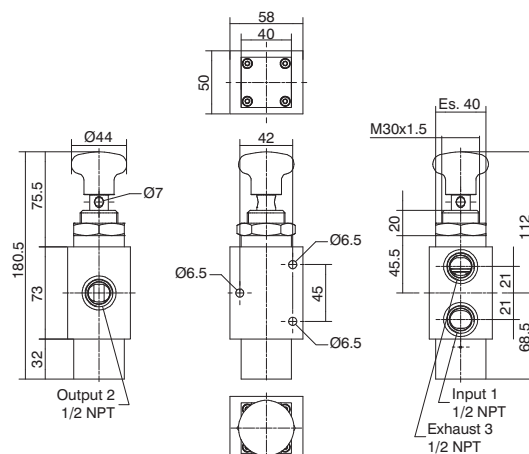
Push Button - Spring Valve

Ordering code

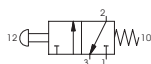
SS1232C0801

TYPE

L = Low temperature version
H = High temperature version



Actuation force 200N
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	2000	3,55	53,03

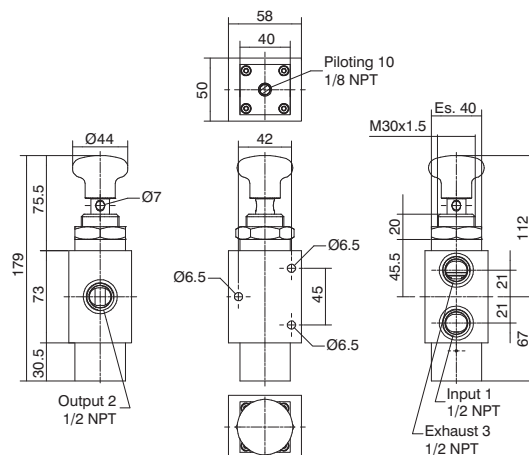
Push Button - Pneumatic Return Valve

Ordering code

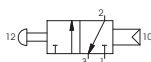
SS1232C0811

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1/8 NPT	2012	3,55	53,03

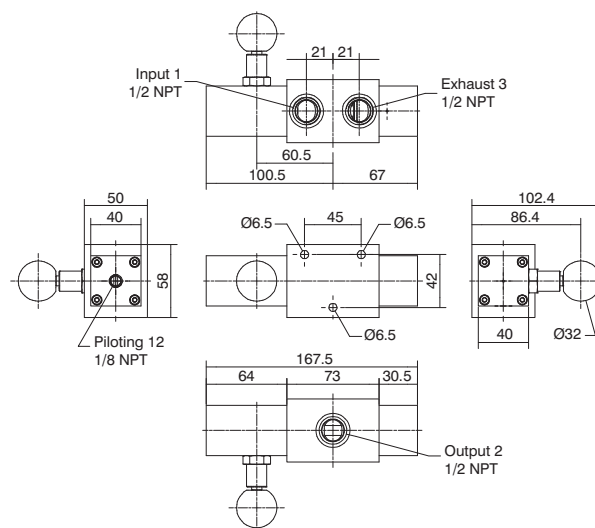
Pneumatic valve with self-locking manual reset

Ordering code

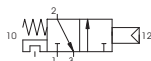
SS1232C1114

TYPE

L = Low temperature version
H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1/8 NPT	2409	3,55	53,03



Pneumatic valve with self-locking manual reset inverted

Ordering code

SS1232C1115T

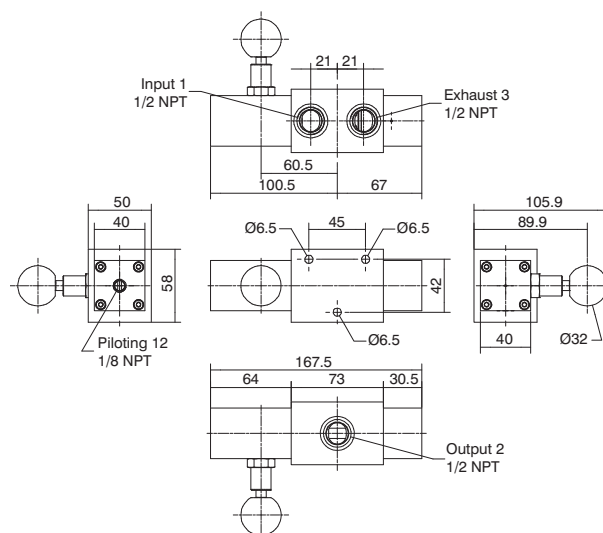
TYPE

L = Low temperature version

H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



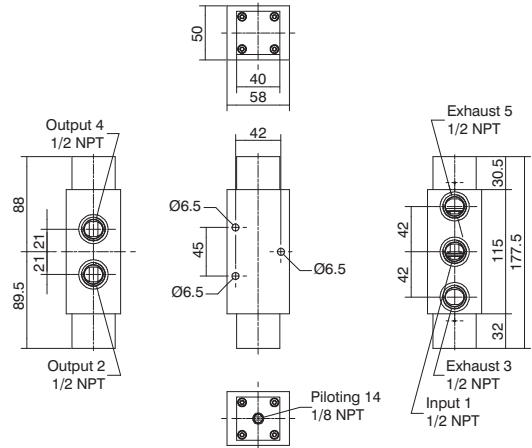
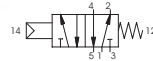
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1/8 NPT	2408	3,55	53,03

Pneumatic - Spring Valve

Ordering code
SS125201101T

TYPE
T = Low temperature version
H = High temperature version



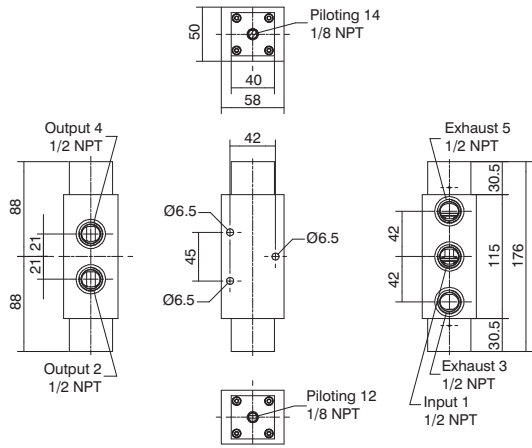
Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics		Connections	Pilot connections	Weight (gr.)	Cv	kv
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)					
12	3500	1/2 NPT	1/8 NPT	2744	3,55	53,03

Pneumatic - Pneumatic Valve

Ordering code
SS125201111T

TYPE
T = Low temperature version
H = High temperature version



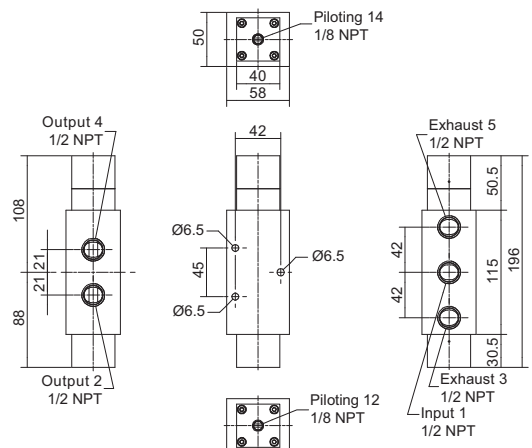
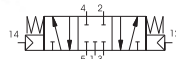
Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics		Connections	Pilot connections	Weight (gr.)	Cv	kv
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)					
12	3500	1/2 NPT	1/8 NPT	2790	3,55	53,03

Pneumatic - Pneumatic Closed Centers Valve

Ordering code
SS125311111T

TYPE
T = Low temperature version
H = High temperature version



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics		Connections	Pilot connections	Weight (gr.)	Cv	kv
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)					
12	3500	1/2 NPT	1/8 NPT	3019	3,55	53,03



1/2 NPT Solenoid valves - For safe area with IP66 stainless steel housing

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered 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 reverse self-locking manual reset **(only in a 3 way function)**

Pneumax solenoid valve has 1/2 NPT connections with 3500NI/min maximum flow rate.

Material selection	
Body	AISI 316L Stainless steel
Operators	AISI 316L Stainless steel
Spool	AISI 316L Stainless steel
Springs	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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
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 and construction features	
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 class	H
Nominal Voltage	24V 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 2.5mm
IP Rating	IP66
Tolerance on Voltage supply	± 10%
ED continuous service	100%

Certifications available:

Non ATEX marked product



: Suitable up to SIL 3





Steel line Series

Solenoid valves 3/2, 1/2 NPT – For safe area with IP66 stainless steel housing

Solenoid - Spring Valve

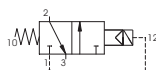
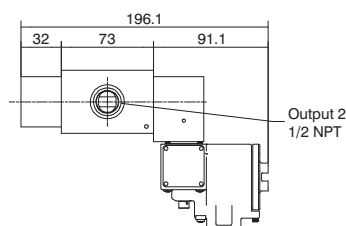
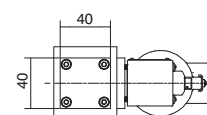
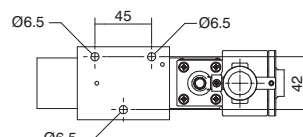
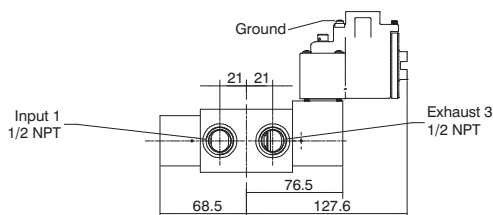
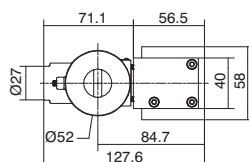
3/2

Ordering code

SS1232CA101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	2776	3,55	53,03

Solenoid - Solenoid Valve

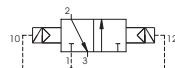
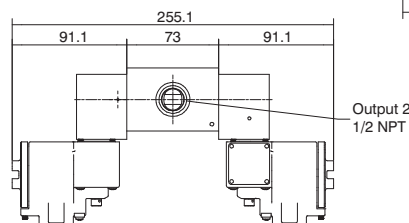
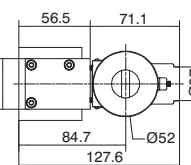
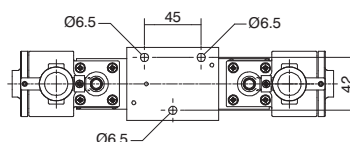
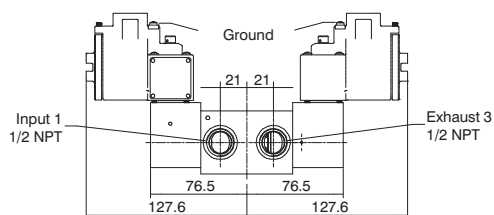
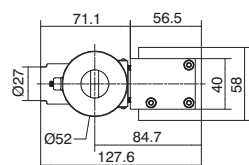
3/2

Ordering code

SS1232CA1A1L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3909	3,55	53,03

Solenoid - Spring Valve

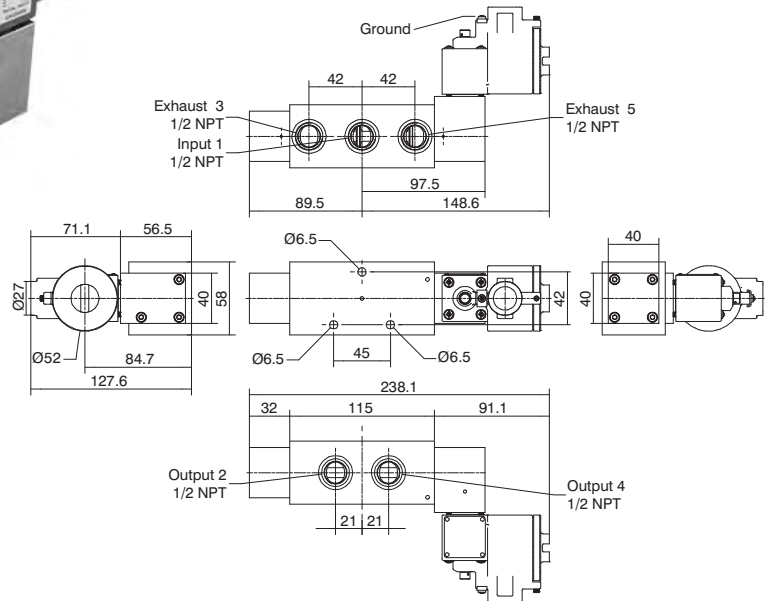
5/2

Ordering code

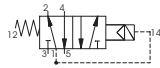
SS12520A101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
 Filtered, lubricated or non-lubricated.
 When lubricated, lubrication must be continued.



Operational characteristics

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

Solenoid - Solenoid Valve

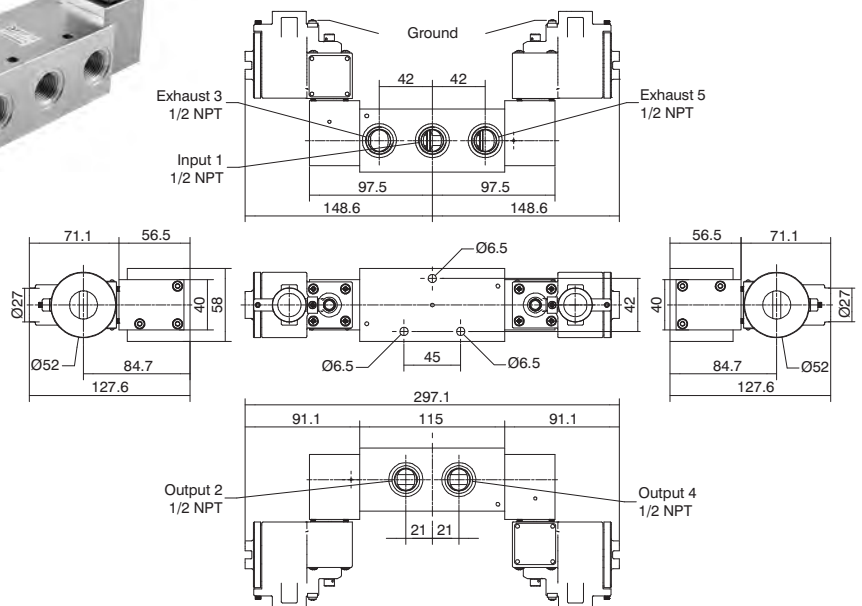
5/2

Ordering code

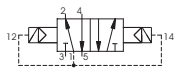
SS12520A1A1L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
 Filtered, lubricated or non-lubricated.
 When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	4678	3,55	53,03



Steel line Series

Solenoid valves 3/2, 1/2 NPT – For safe area with IP66 stainless steel housing

Solenoid valves with self-locking manual reset

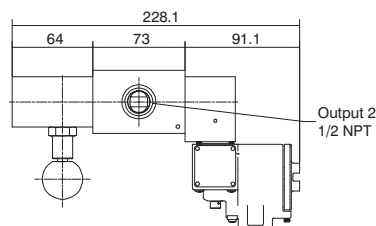
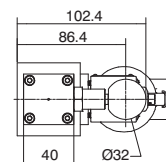
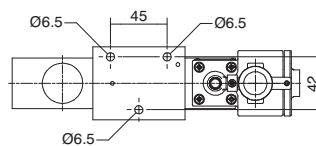
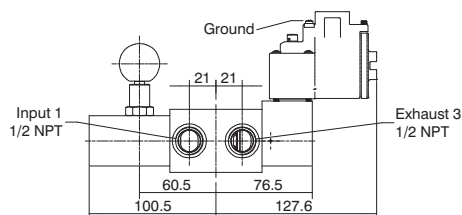
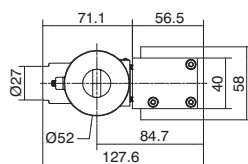
3/2

Ordering code

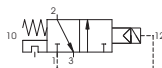
SS1232CA114L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3358	3,55	53,03

Solenoid valves with self-locking manual reset inverted

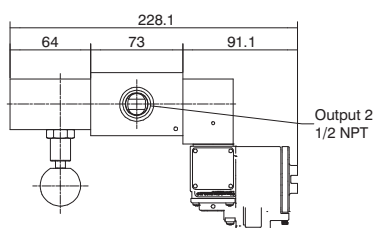
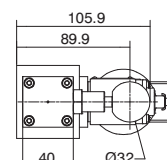
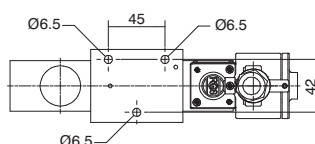
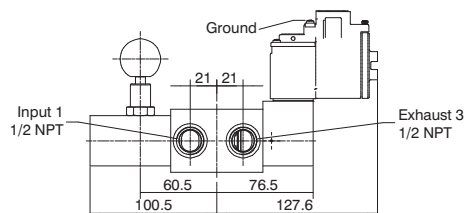
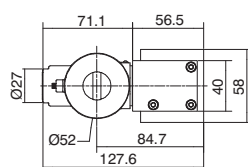
3/2

Ordering code

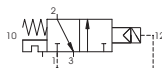
SS1232CA115L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3360	3,55	53,03



1/2 NPT Solenoid valves - IP66 Exd Explosion protection

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered 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 reverse self-locking manual reset **(only in a 3 way function)**.

Pneumax solenoid valve has 1/2 NPT connections with 3500NI/min maximum flow rate.

This version only provides single mounting

Material selection	
Body	AISI 316L Stainless steel
Operators	AISI 316L Stainless steel
Spool	AISI 316L Stainless steel
Springs	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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature for DC version	-50°C + 70°C
Operating temperature for AC version	-50°C + 55°C
Maximum operating pressure	10 bar

Electrical and construction Features	
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 class	H
Nominal Voltage	24V DC 24, 110, 220 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 2.5mm
IP Rating	IP66
Tolerance on Voltage supply	± 10%
ED continuous service	100%

Certifications available:



: International certification
for explosive atmospheres



: Suitable up to SIL 3



: Nepsy approval - China



: CU - TR 012

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



Steel line Series

Solenoid valvess 3/2, 1/2 NPT – IP66 Exd Explosion protection

Solenoid - Spring Valve

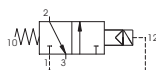
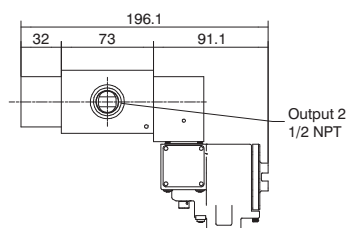
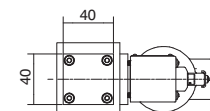
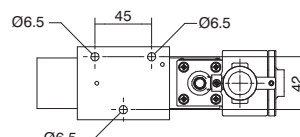
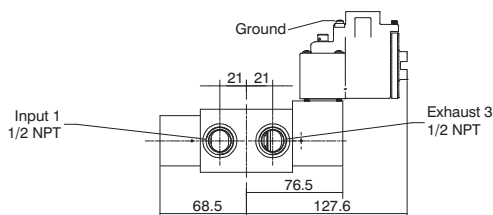
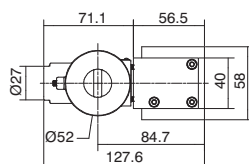
3/2

Ordering code

SS1232CB001L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	2776	3,55	53,03

Solenoid - Solenoid Valve

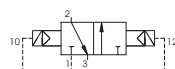
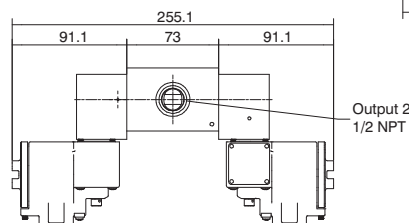
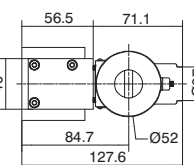
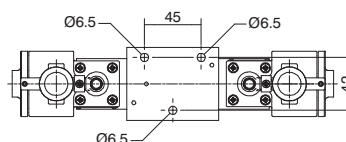
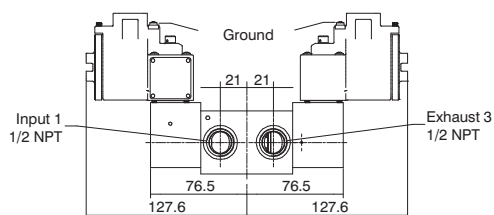
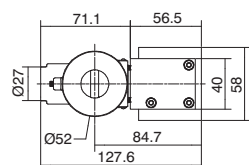
3/2

Ordering code

SS1232CB001L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3909	3,55	53,03

Solenoid - Spring Valve

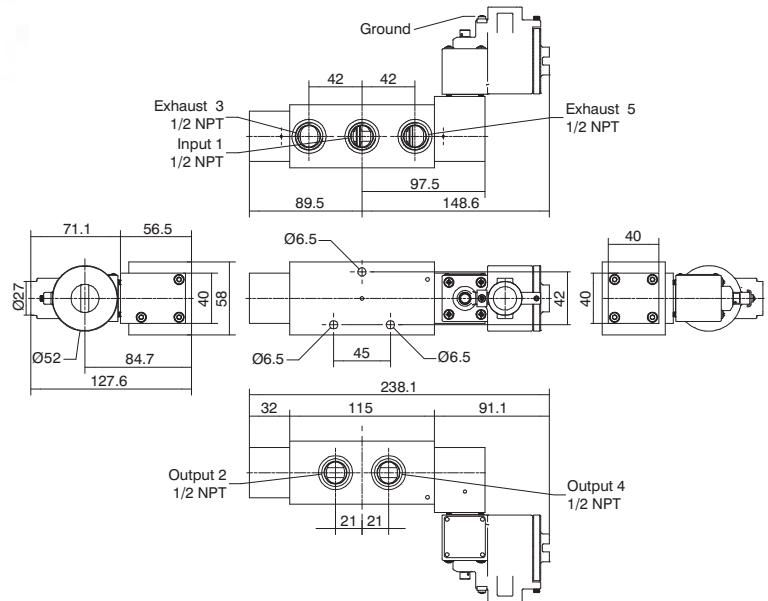
5/2

Ordering code

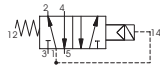
SS12520B101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3679	3,55	53,03

Solenoid - Solenoid Valve

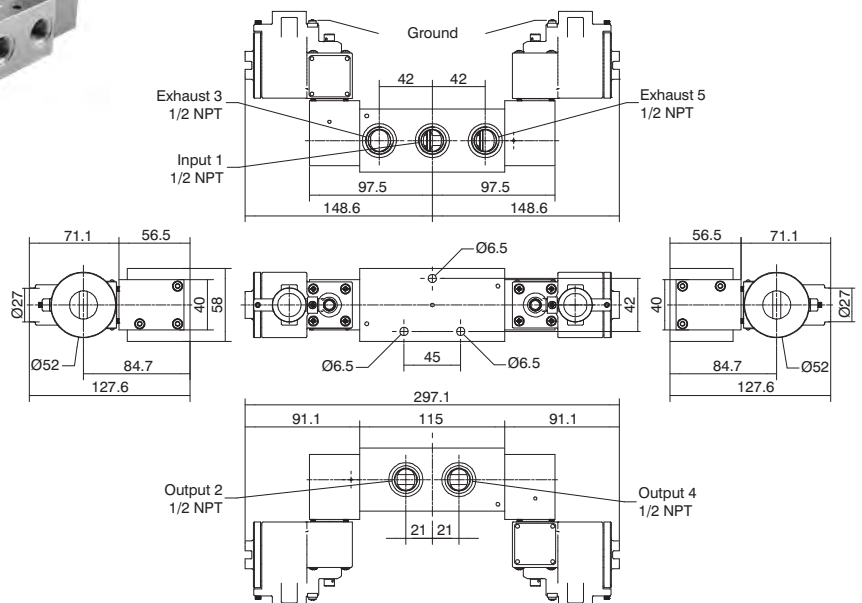
5/2

Ordering code

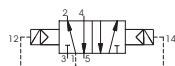
SS12520B101L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	4678	3,55	53,03



Steel line Series

Solenoid valves 3/2, 1/2 NPT – IP66 Exd Explosion protection

Solenoid valves with self-locking manual reset

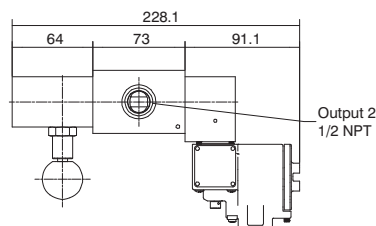
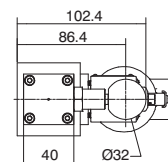
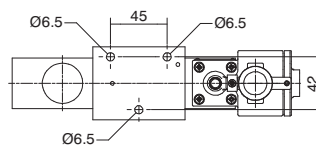
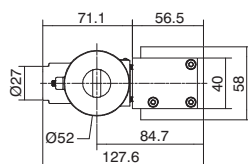
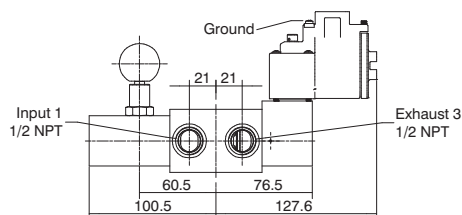
3/2

Ordering code

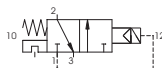
SS1232CB114L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3358	3,55	53,03

Solenoid valves with self-locking manual reset inverted

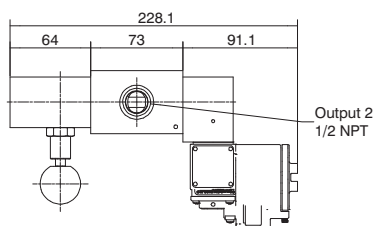
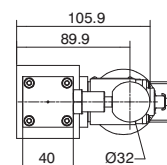
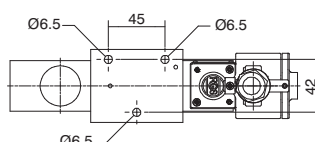
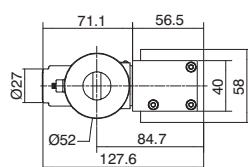
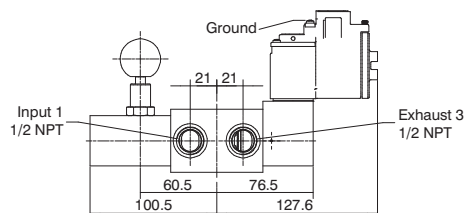
3/2

Ordering code

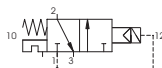
SS1232CB115L

VOLTAGE

- 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: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3360	3,55	53,03



1/2 NPT Solenoid valves - Intrinsically safe Exia

Stainless steel Solenoid valves brand-new 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 AISI316L 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-powered solenoids, designed according to the following configuration:

- Solenoid - spring valve
- Solenoid - solenoid valve
- Solenoid valve with self-locking manual reset
- Solenoid valve with reverse self-locking manual reset

Pneumax solenoid valve has 1/2 NPT connections with 3500NI/min maximum flow rate.

This version only provides single mounting

Material selection	
Body	AISI 316L Stainless steel
Operators	AISI 316L Stainless steel
Spool	AISI 316L Stainless steel
Springs	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	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
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 and Construction Features	
Housing	Zinc alloy with epoxy paint
Armour / Cores	Ferromagnetic stainless steel
Springs	Stainless steel
Seals	FPM (Fluoroelastomer)
Incorporation	PBT, 30% glass load
Wire insulation class	H
Guide tube	Stainless steel
Resistance	370 Ohms
Nominal voltage	24V DC
Power consumption DC	0.4W (running)
Connection for cable entry	M20X1.5
Electrical connection	Screw terminals 2 Poles 2.5mm
IP Rating	IP65
Tolerance on Voltage supply	-10%
ED continuous service	100%

Electrical specifications for intrinsically safe	
Umax: in	31 V DC
Imax:	0,67 A
Wmax: in	2,98 W

Certifications available:



: International certification
for explosive atmospheres



: Suitable up to SIL 3



: UL/CSA factory mutual approval



: CU - TR 012

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



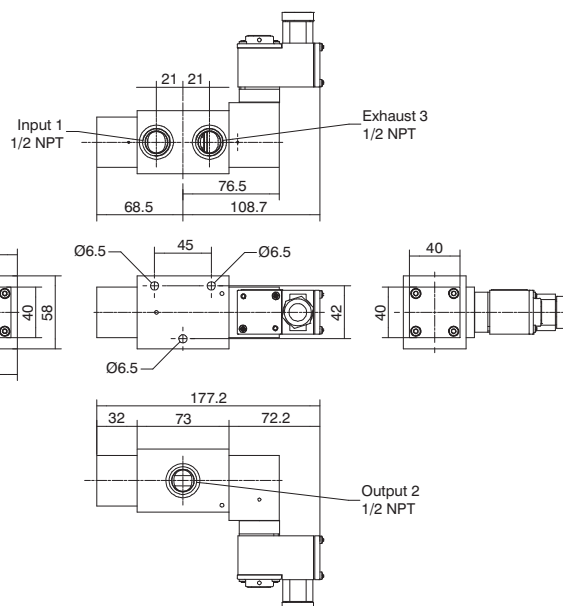
Solenoid - Spring Valve

3/2

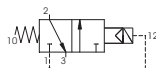
Ordering code

SS1232CC001L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	2437	3,55	53,03

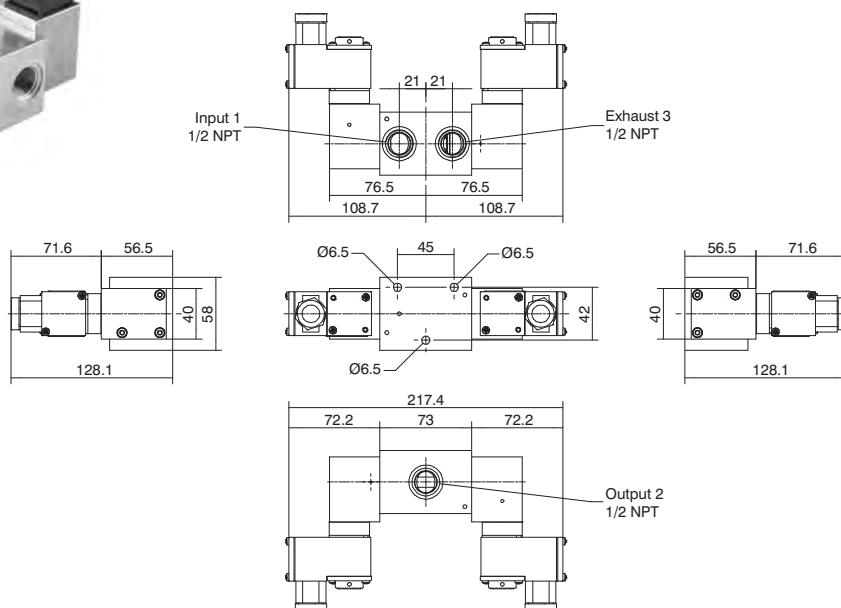
Solenoid - Solenoid Valve

3/2

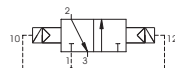
Ordering code

SS1232CC001L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3228	3,55	53,03

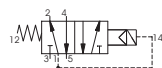
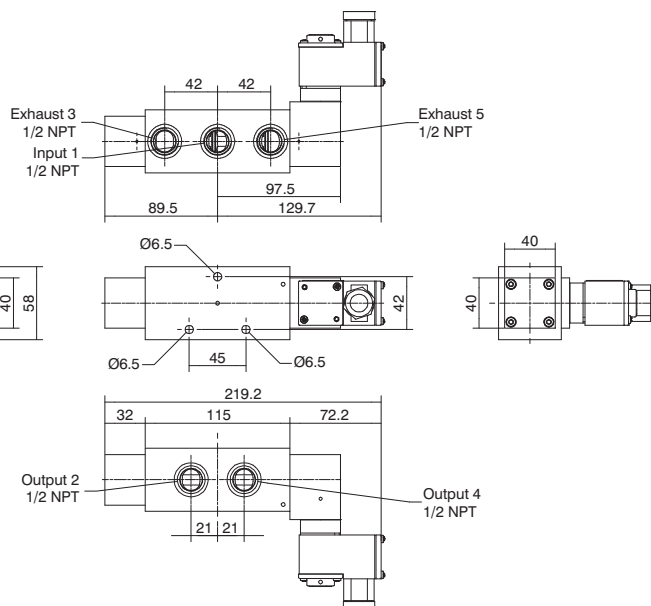
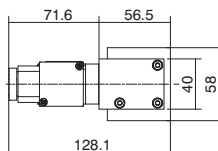
Solenoid - Spring Valve

5/2

Ordering code

SS12520C101L

V VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3349	3,55	53,03

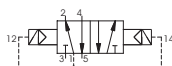
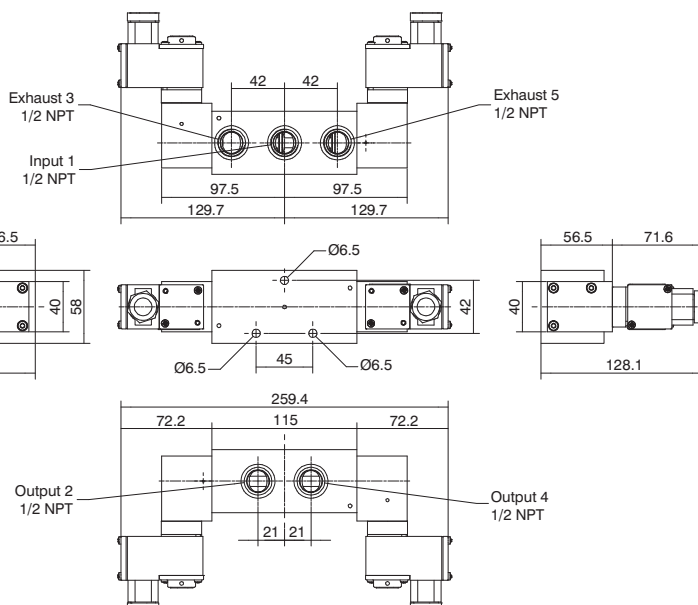
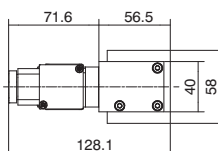
Solenoid - Solenoid Valve

5/2

Ordering code

SS12520C101L

V VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.

Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3749	3,55	53,03



Steel line Series

Solenoid valves 3/2, 1/2 NPT – Intrinsically safe Exia

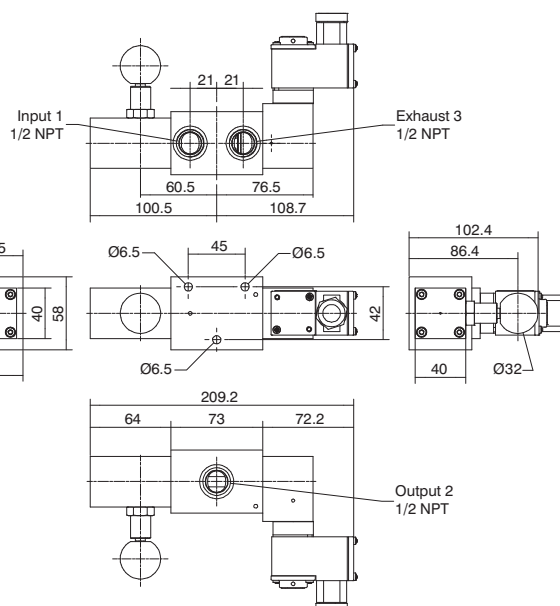
Solenoid valves with self-locking manual reset

3/2

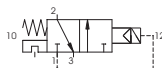
Ordering code

SS1232CC114L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3020	3,55	53,03

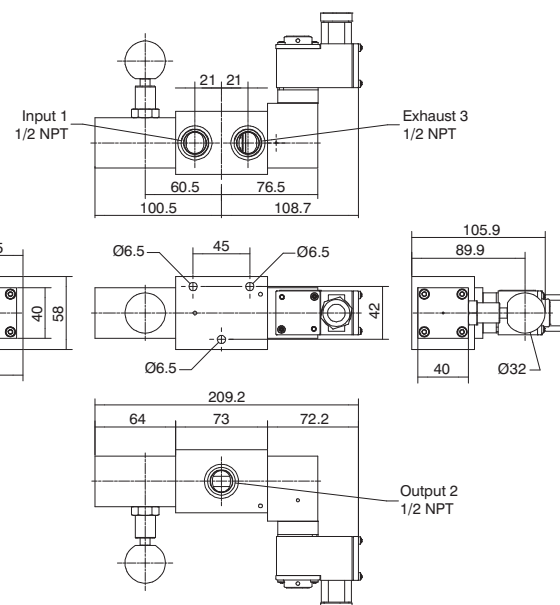
Solenoid valves with self-locking manual reset inverted

3/2

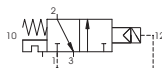
Ordering code

SS1232CC115L

T VOLTAGE
1 = 24 V DC 33 mA



Minimum piloting pressure 3 bar
Fluid: Air, Inert Gas, Sweet gas (natural)
Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

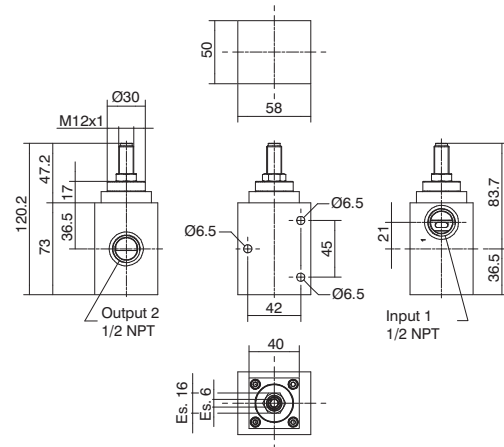
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3015	3,55	53,03

Flow regulator 1/2 NPT

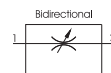
Ordering code

SS12RF^{ET}

F	FUNCTION
U	Unidirectional
B	Bidirezionale
T	TYPE
L	Versione bassa temperatura
H	Versione alta temperatura



Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

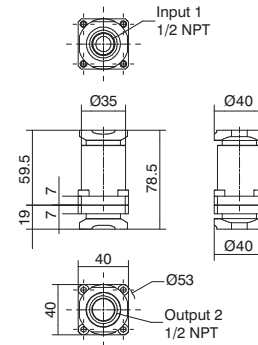
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	1641	3,55	53,03

Non return valve

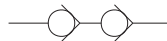
Ordering code

SS12VUS^T

T	TYPE
L	Low temperature version
H	High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



Operational characteristics

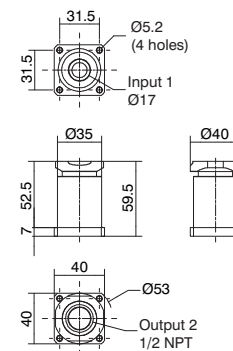
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	3500	1/2 NPT	444	3,55	53,03

Non return valve for group

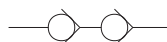
Ordering code

SS12VUG^T

T	TYPE
L	Low temperature version
H	High temperature version



Fluid: Air, Inert Gas, Sweet gas (natural) - Filtered, lubricated or non-lubricated.
When lubricated, lubrication must be continued.



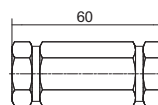
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	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



Weight gr. 107



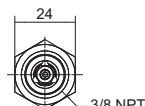
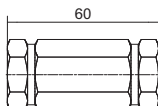
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Cv	kv
210	680	0,2	0,2	-25 ÷ +205	0,69	10,30

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

Ordering code

SS38VU03SV6N



Weight gr. 253



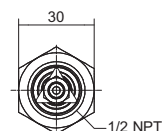
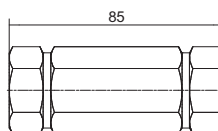
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Cv	kv
210	2020	0,2	0,2	-25 ÷ +205	2,05	30,60

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

Ordering code

SS12VU03SV8N



Weight gr. 380



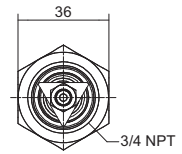
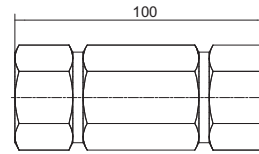
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Minimum operating pressure differential (bar)	Leak-tight with pressure differential (bar)	Temperature °C	Cv	kv
210	2650	0,2	0,2	-25 ÷ +205	2,69	40,15

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

Ordering code

SS34VU03SV12N



Weight gr. 577



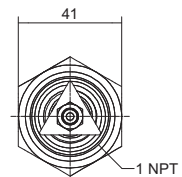
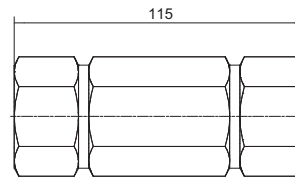
Operational characteristics

Max 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	Cv	kv
210	4030	0,2	0,2	-25 ÷ +205	4,09	61,06

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

Ordering code

SS11VU03SV16N



Weight gr. 774



Operational characteristics

Max 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	Cv	kv
210	5500	0,2	0,2	-25 ÷ +205	5,59	83,33

Flow regulator 1/4 NPT single use

Ordering code

SS1401RF F T

FUNCTION

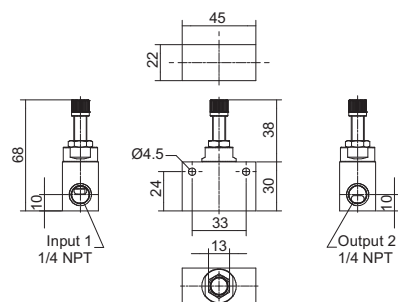
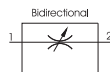
F U = Unidirectional

B = Bidirezionale

TYPE

T L = Versione bassa temperatura

H = Versione alta temperatura



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	700	1/4 NPT	219	0,71	10,60

Flow regulator 1/2 NPT single use

Ordering code

SS1201RF F T

FUNCTION

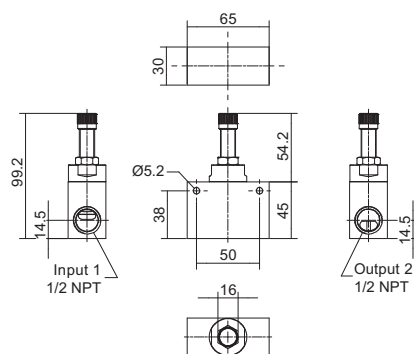
F U = Unidirectional

B = Bidirezionale

TYPE

T L = Versione bassa temperatura

H = Versione alta temperatura



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	2000	1/2 NPT	634,5	2,03	30,30

Flow regulator 3/4 NPT single use - Unidirectional

Ordering code

SS3401RFU T

FUNCTION

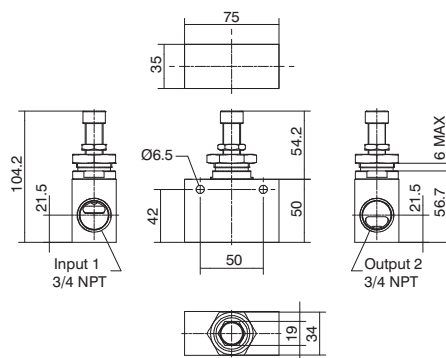
F U = Unidirectional

B = Bidirezionale

TYPE

T L = Versione bassa temperatura

H = Versione alta temperatura



Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	2800	3/4 NPT	925	2,64	42,42

Flow regulator 1 NPT single use - Unidirectional

Ordering code

SS1101RFU T

FUNCTION

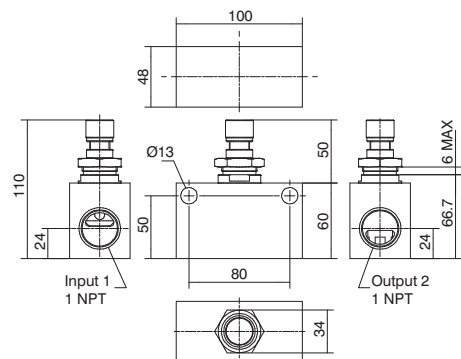
F U = Unidirectional

B = Bidirezionale

TYPE

T L = Versione bassa temperatura

H = Versione alta temperatura



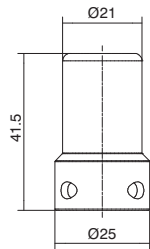
Operational characteristics

Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	3300	1 NPT	2000	3,35	50,00

Flow regulator system 1/4 NPT tamper-proof system

Ordering code

SS14RFK

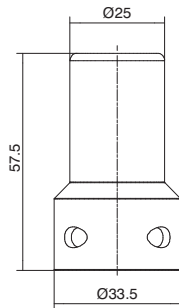


Note: Available for 1/4 NPT Flow regulator
We suggest to use long shackles Padlocks: Shackle diameter ≤ 4
Padlocks is not supplied with the product.
Weight gr. 40

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

Ordering code

SS12RFK



Note: Available for 1/2 NPT Flow regulator
We suggest to use long shackles Padlocks: Shackle diameter ≤ 5
Padlocks is not supplied with the product.
Weight gr. 75

Quick exhaust valve 1/4 NPT

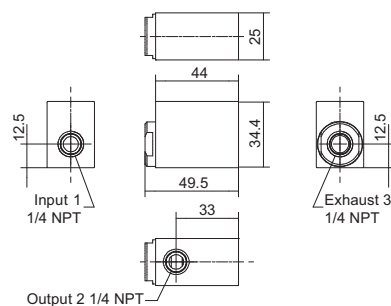
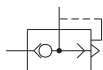
Ordering code

SS1402SR

TYPE

L = Low temperature version

H = High temperature version



Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Connections	Weight (gr.)	Cv	kv
0,5 ÷ 12	700	2700	1/4 NPT	250	0,71	10,60

Quick exhaust valve 1/2 NPT

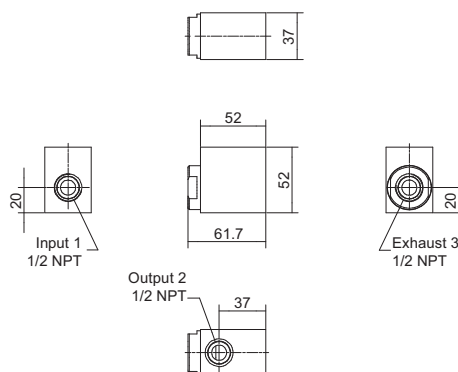
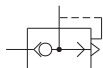
Ordering code

SS1202SR

TYPE

L = Low temperature version

H = High temperature version



Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Connections	Weight (gr.)	Cv	kv
0,5 ÷ 12	2000	7150	1/2 NPT	617,5	2,03	30,30

Quick exhaust valve 3/4 NPT

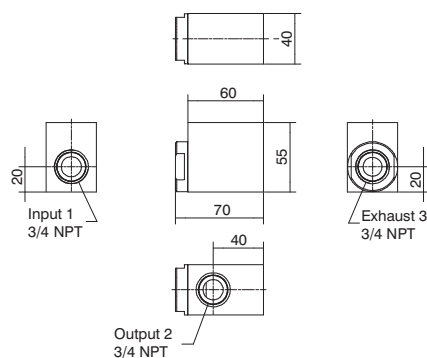
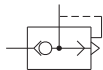
Ordering code

SS3402SR

TYPE

L = Low temperature version

H = High temperature version



Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Connections	Weight (gr.)	Cv	kv
0,5 ÷ 12	3000	10000	3/4 NPT	745	3,04	45,45

Quick exhaust valve 1 NPT

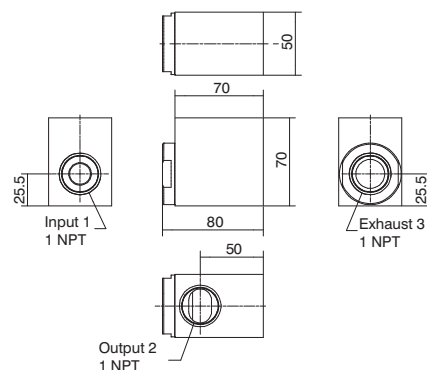
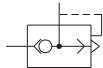
Ordering code

SS1102SR

TYPE

L = Low temperature version

H = High temperature version



Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Connections	Weight (gr.)	Cv	kv
0,5 ÷ 12	5000	18000	1 NPT	1365	5,08	75,75

Pneumatic actuated valves, for process automation technology, in 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 new 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 retrofitting / 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 ways functions, complete with self-powered solenoids, designed according to the following configuration:

- Pneumatic - spring valve
- Pneumatic - pneumatic valve
- 2 position push - push valve (**only for 1/4NPT version**)
- Push button - spring valve (**only for 1/4NPT version**)
- Push button - pneumatic return valve (**only for 1/4NPT version**)
- Accessories such as: non return valve, uni/bidirectional flow control valve and quick exhaust valve.
- 1/8NPT pilot connection

Working port size	Flow rate at 6 bar with $\Delta p=1$ (NI/min)
1/4NPT	1360
1/2NPT	2500
1NPT	6500

Material selection

Body	Aluminium
Operators	Aluminium
Spacers	Aluminium
Spool	AISI 303 stainless steel
Springs	AISI 302 stainless steel
Screws	Stainless steel
Seals	NBR for low temperature (-30°C)

Operating range

Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature	-30°C +70°C
Maximum operating pressure	12 bar

Certifications available:



ATEX CE II 2 GD c IIC T5 T100°C

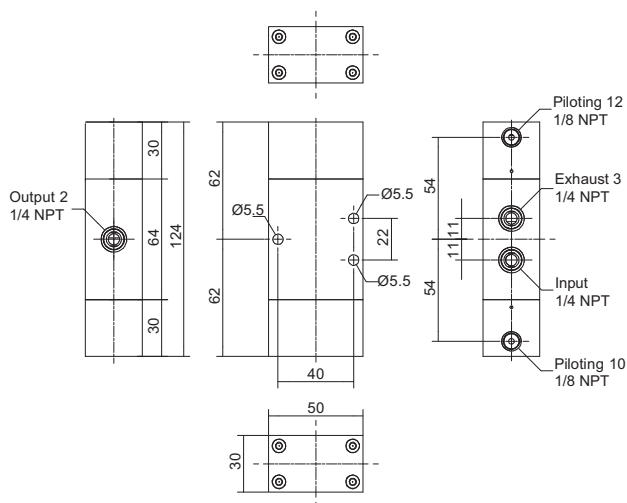
: $\left[\begin{array}{l} \text{CE Ex II 2G Ex h IIC T5 Gb} \\ \text{CE Ex II 2D Ex h IIC T100°C Db} \end{array} \right]$

Pneumatic-Pneumatic

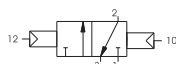
3/2

Ordering code

SA1432C1111L



Weight gr. 470
Minimum piloting pressure 2 bar



Operational characteristics

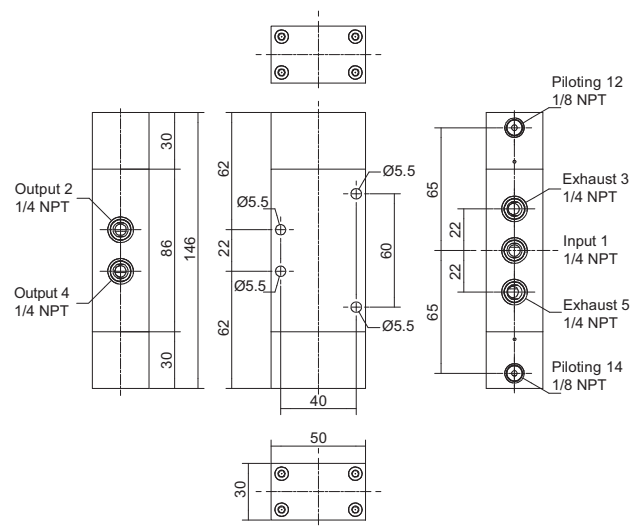
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Pneumatic-Pneumatic

5/2

Ordering code

SA145201111L



Weight gr. 550
Minimum piloting pressure 2 bar



Operational characteristics

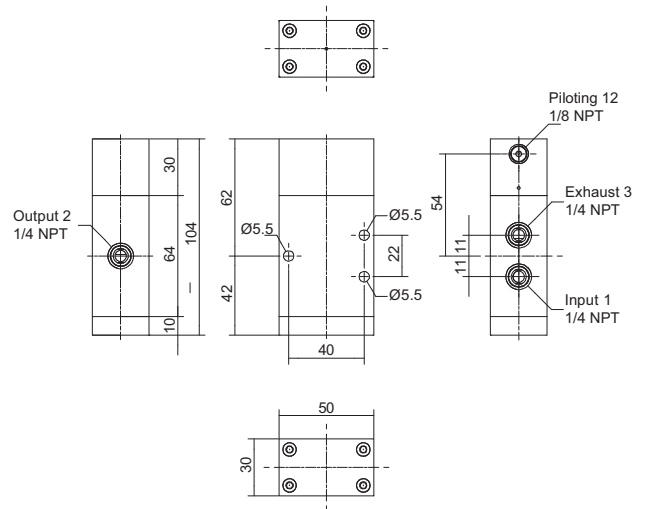
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Pneumatic-Spring

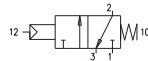
3/2

Ordering code

SA1432C1101L



Weight gr. 394
Minimum piloting pressure 2,5 bar



Operational characteristics

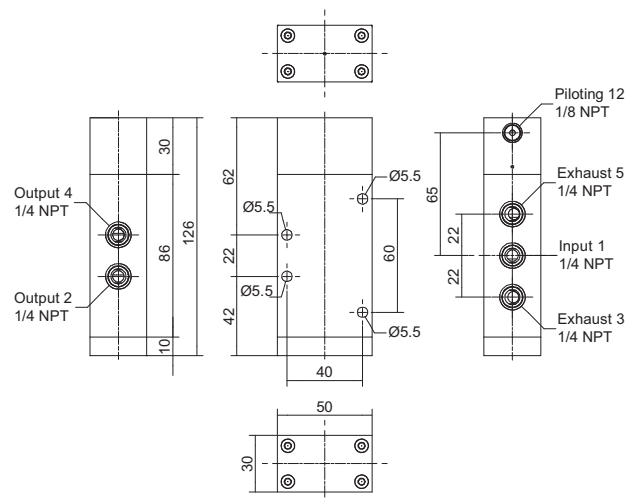
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Pneumatic-Spring

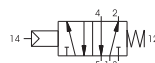
5/2

Ordering code

SA145201101L



Weight gr. 475
Minimum piloting pressure 2,5 bar



Operational characteristics

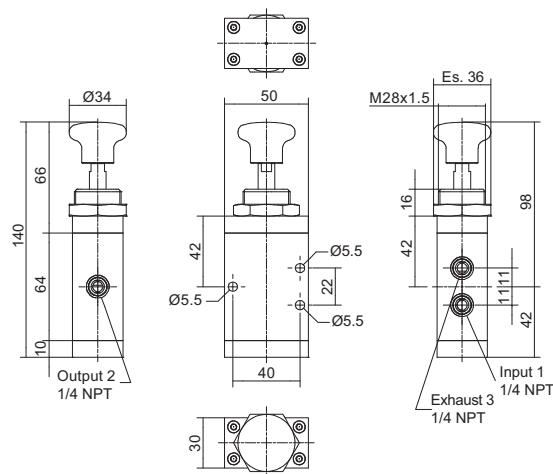
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Push button - Pneumatic valve

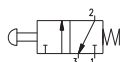
3/2

Ordering code

SA1432C0801L



Weight gr. 405
Actuation force 71,5N



Operational characteristics

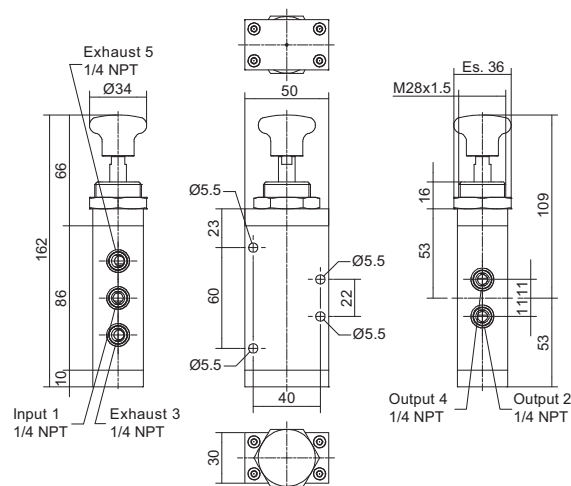
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Push button - Pneumatic valve

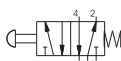
5/2

Ordering code

SA145200801L



Weight gr. 487
Actuation force 71,5N



Operational characteristics

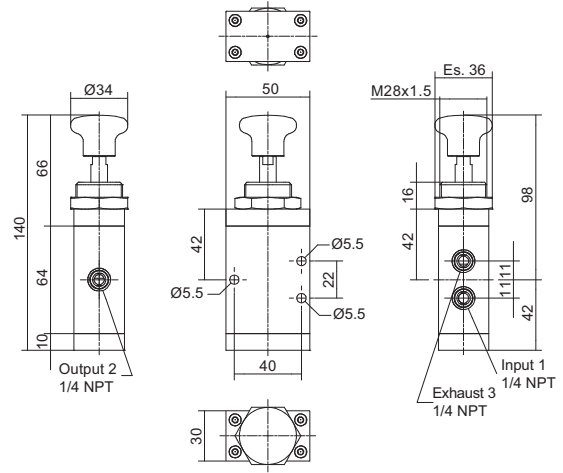
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

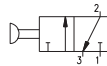
3/2

Ordering code

SA1432C0803L



Weight gr. 395
Actuation force 105N



Operational characteristics

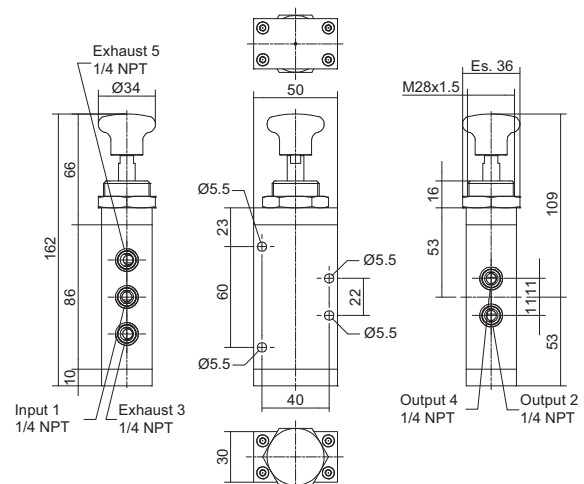
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

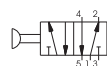
5/2

Ordering code

SA145200803L



Weight gr. 483
Actuation force 105N



Operational characteristics

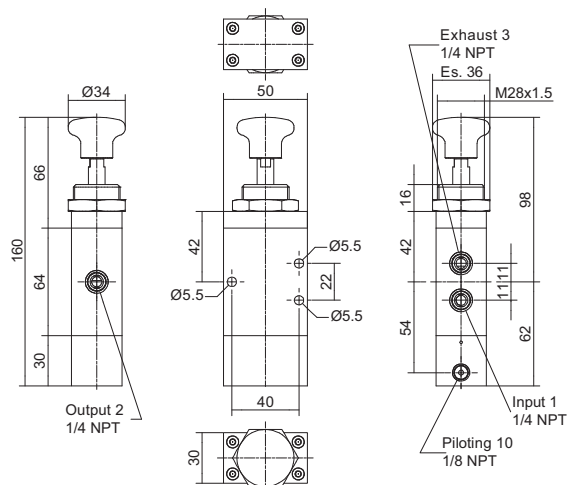
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Push button - Pneumatic valve

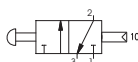
3/2

Ordering code

SA1432C0811L



Weight gr. 481
Minimum piloting pressure 2 bar



Operational characteristics

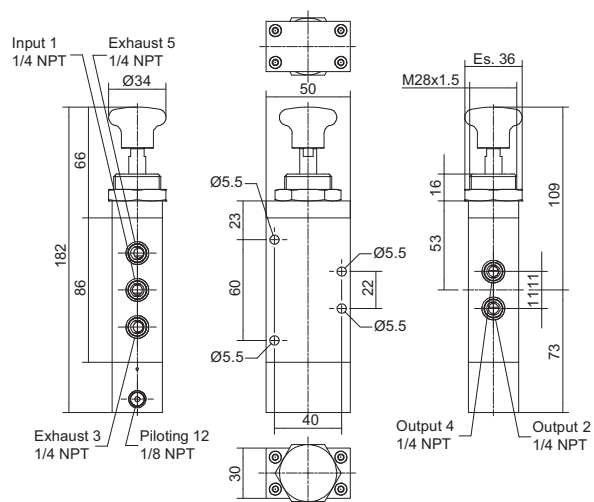
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	2,54	37,88

Push button - Pneumatic valve

5/2

Ordering code

SA145200811L



Weight gr. 561
Minimum piloting pressure 2 bar



Operational characteristics

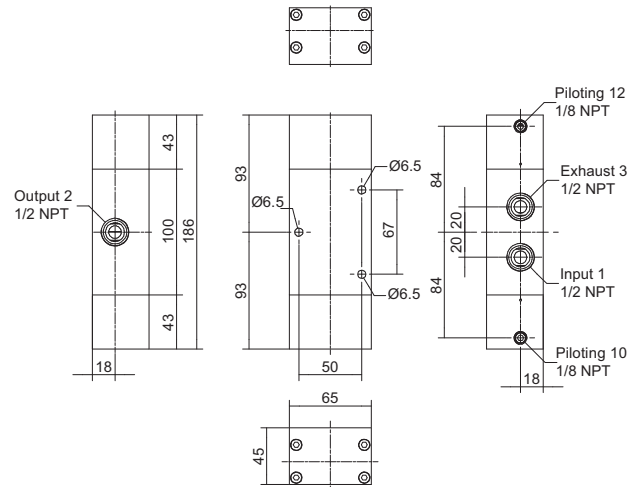
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

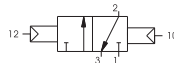
3/2

Ordering code

SA1232C1111L



Weight gr. 1360
Minimum piloting pressure 2 bar



Operational characteristics

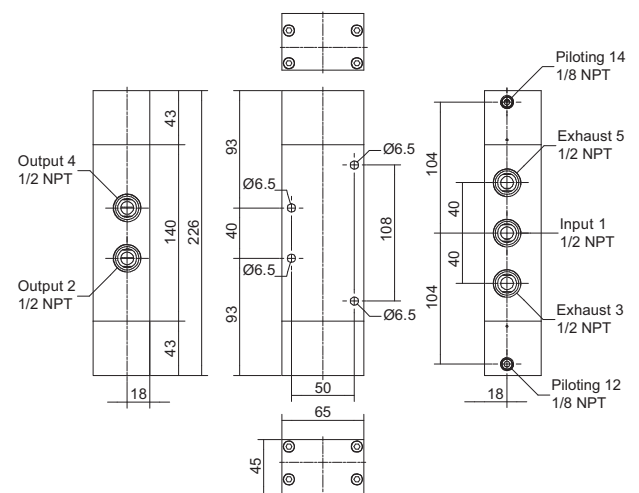
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

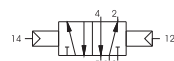
5/2

Ordering code

SA125201111L



Weight gr. 1660
Minimum piloting pressure 2 bar



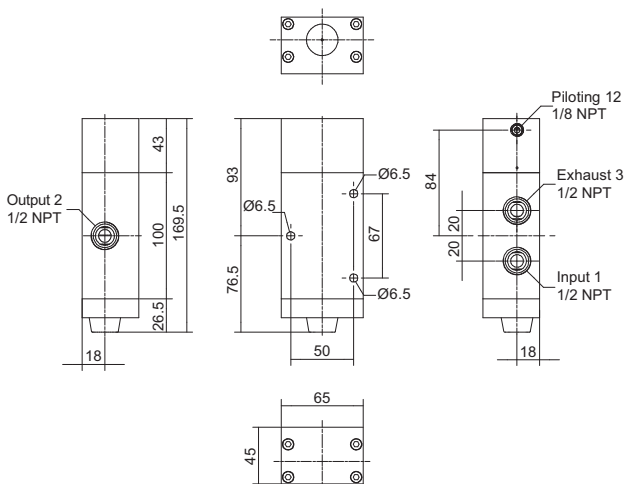
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

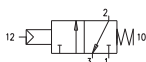
3/2

Ordering code

SA1232C1101L



Weight gr. 1135
Minimum piloting pressure 2,5 bar



Operational characteristics

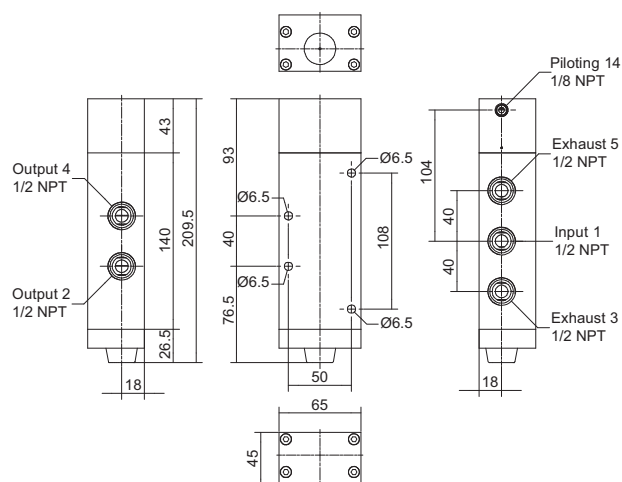
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Spring

5/2

Ordering code

SA125201101L



Weight gr. 1430
Minimum piloting pressure 2,5 bar



Operational characteristics

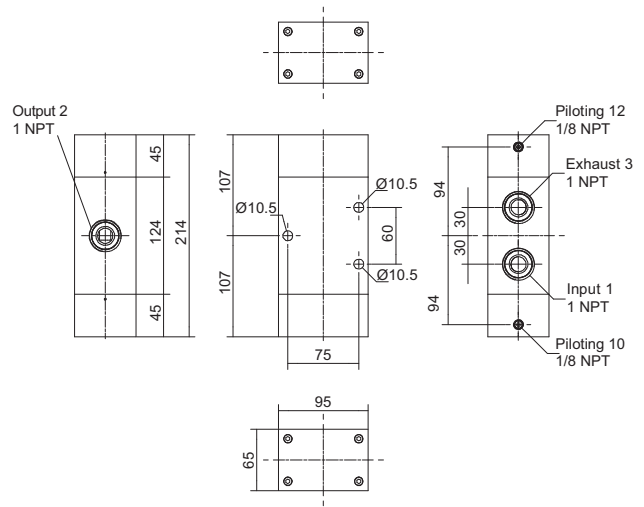
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

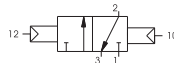
3/2

Ordering code

SA1132C1111L



Weight gr. 3315
Minimum piloting pressure 2 bar



Operational characteristics

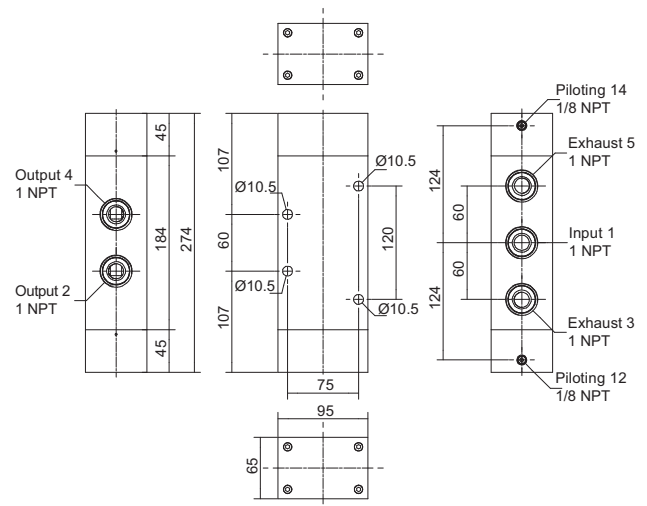
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

Pneumatic-Pneumatic

5/2

Ordering code

SA115201111L



Weight gr. 4220
Minimum piloting pressure 2 bar



Operational characteristics

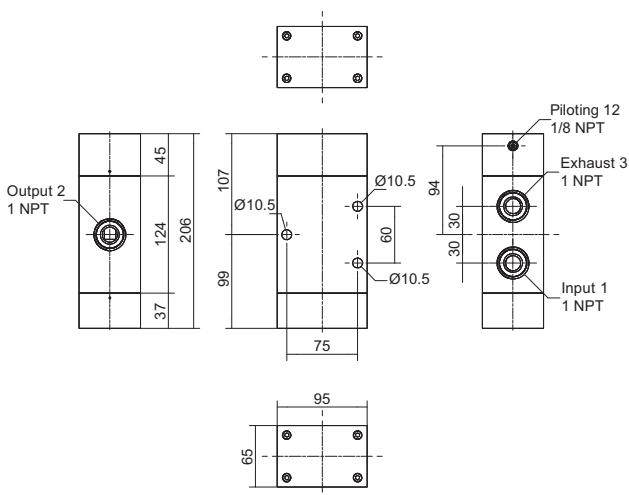
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

Pneumatic-Spring

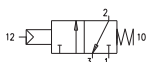
3/2

Ordering code

SA1132C1101L



Weight gr. 3225
Minimum piloting pressure 2,5 bar



Operational characteristics

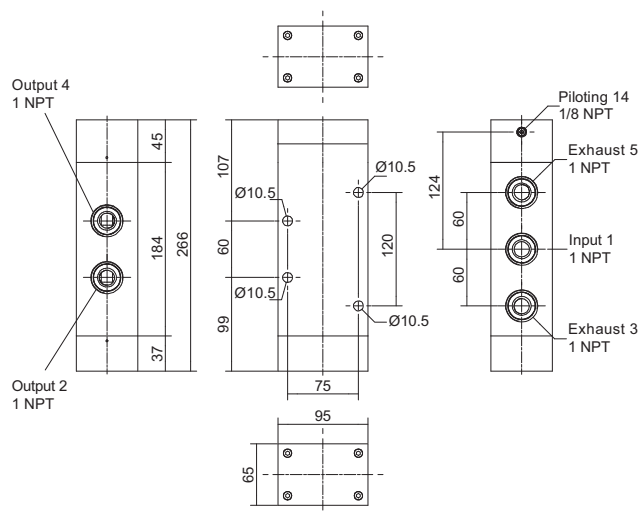
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

Pneumatic-Spring

5/2

Ordering code

SA115201101L



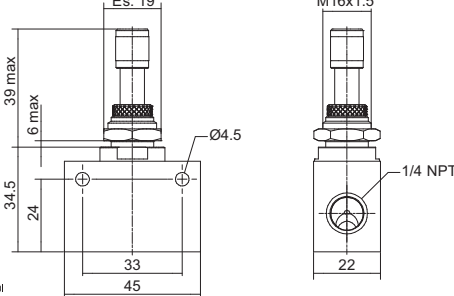
Weight gr. 4130
Minimum piloting pressure 2,5 bar



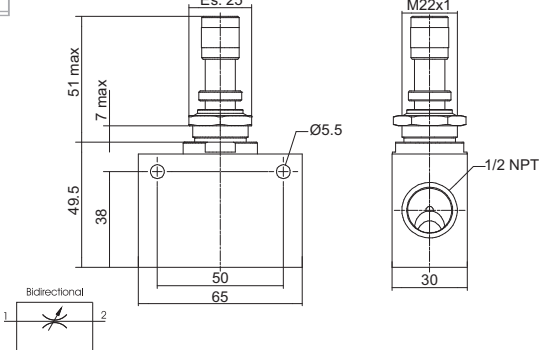
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

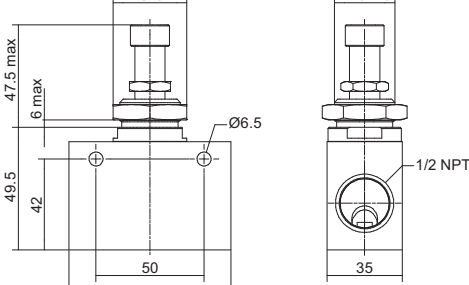
Flow regulator 1/4 NPT

Ordering code								
A6.01.F								
FUNCTION								
14N=Unidirectional 14/1N=Bidirezionale								
								
Weight gr. 102								
Operational characteristics								
Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Temperature °C	Cv	kv		
Filtered air	12	900	7	-30 ÷ +70	0,91	13,63		

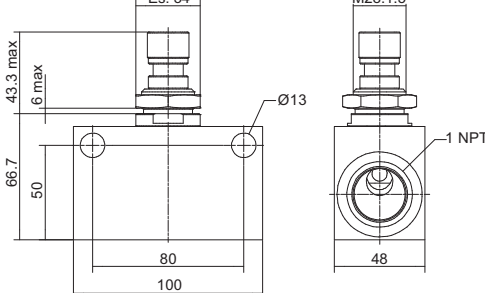
Flow regulator 1/2 NPT

Ordering code						
A6.01.Ⓕ						
FUNCTION						
Ⓕ 12N=Unidirectional 12/1N=Bidirezionale						
						
Weight gr. 276						
Operational characteristics						
Fluid	Max working pressure (bar)	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Temperature °C	Cv	kv
Filtered air	12	2000	12	-30 ÷ +70	2,03	30,30

Flow regulator 3/4 NPT - Unidirectional

Ordering code							
A6.01.34							
							
Weight gr. 482							
Operational characteristics							
Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)		Temperature °C	Cv	kv
Filtered air	12	2800	12		-30 ÷ +70	2,84	42,42

Flow regulator 1 NPT - Unidirectional

Ordering code		  				
A6.01.11						
						
Weight gr. 874						
Operational characteristics						
Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Temperature °C	Cv	kv
Filtered air	12	3300	14	-30 ÷ +70	3,35	50

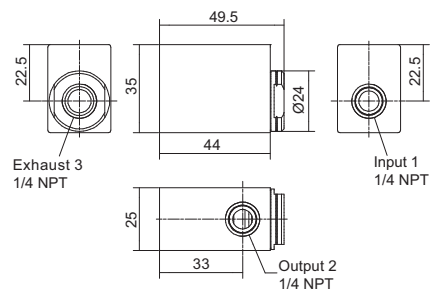
Quick exhaust valve 1/4 NPT

Ordering code

A6.02.14



Weight gr. 112



Operational characteristics

Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Temperature °C	Cv	kv
Filtered air	0,5 ÷ 10	500	2500	-30 ÷ +70	0,50	7,57

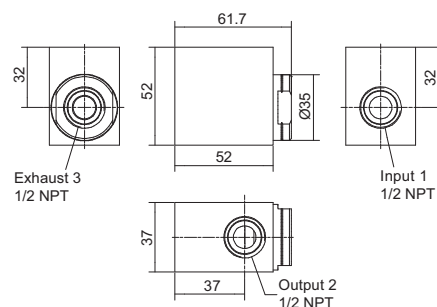
Quick exhaust valve 1/2 NPT

Ordering code

A6.02.12



Weight gr. 310



Operational characteristics

Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Temperature °C	Cv	kv
Filtered air	0,5 ÷ 10	1500	6000	-30 ÷ +70	1,52	22,72

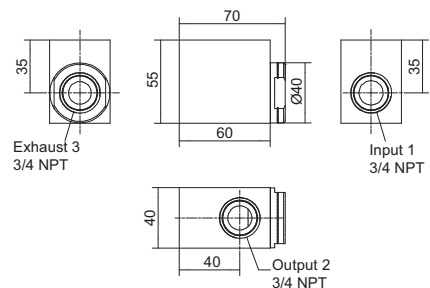
Quick exhaust valve 3/4 NPT

Ordering code

A6.02.34



Weight gr. 400



Operational characteristics

Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Temperature °C	Cv	kv
Filtered air	0,5 ÷ 10	3000	10000	-30 ÷ +70	3,04	45,45

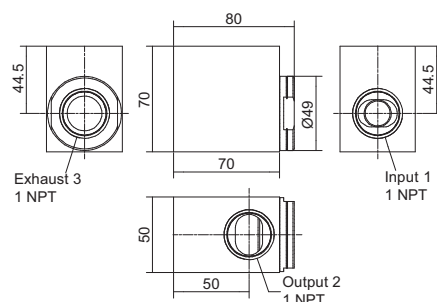
Quick exhaust valve 1 NPT

Ordering code

A6.02.11



Weight gr. 670



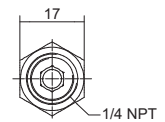
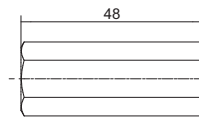
Operational characteristics

Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Temperature °C	Cv	kv
Filtered air	0,5 ÷ 10	5000	18000	-30 ÷ +70	5,08	75,75

Non return valve 1/4 NPT

Ordering code

A6.07.14



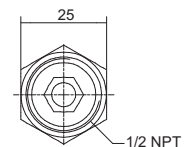
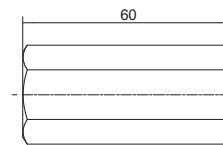
Operational characteristics

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

Non return valve 1/2 NPT

Ordering code

A6.07.12



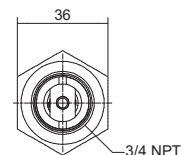
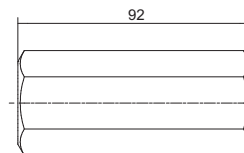
Operational characteristics

Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Temperature °C	Weight (gr.)	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



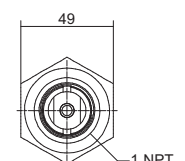
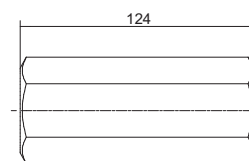
Operational characteristics

Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Temperature °C	Weight (gr.)	Cv	kv
Filtered and lubricated air	12	6250	-30 ÷ +70	564	6,35	94,69

Non return valve 1 NPT

Ordering code

A6.07.11



Operational characteristics

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



Poppet valves system 3/2, 1/2 NPT - 3/4 NPT - 1 NPT - in Aluminium

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

Material selection

	1/2 NPT - 3/4 NPT	1 NPT
Body	Zinc alloy	Aluminium
End covers		Aluminium
Actuators		NBR
Pistons		Aluminium
Actuator rod		Stainless steel
Springs		Stainless steel
Piston seal		NBR

Operating range

Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature	-30°C +70°C
Maximum operating temperature	12 bar

Certifications available:



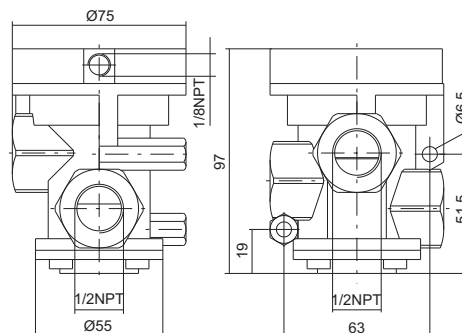
ATEX CE II 2 GD c IIB T5 T100°C

: [CE II 2G Ex h IIB T5 Gb
CE II 2D Ex h IIIC T100°C Db]

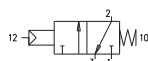
Pneumatic-Spring - 1/2 NPT

Ordering code

SA772321101C



Weight gr. 1058
Normally closed
Minimum piloting pressure 2,5 bar



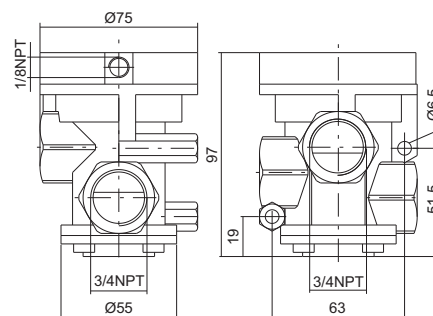
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	4800	15	1/2 NPT	1/8 NPT	4,88	72,72

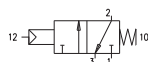
Pneumatic-Spring - 3/4 NPT

Ordering code

SA773321101C



Weight gr. 973
Normally closed
Minimum piloting pressure 2,5 bar



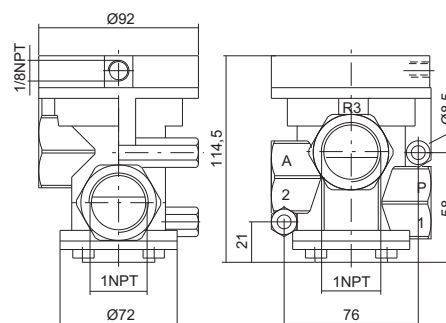
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6100	20	3/4 NPT	1/8 NPT	6,20	92,42

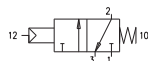
Pneumatic-Spring - 1 NPT

Ordering code

SA771321101C



Weight gr. 1016
Normally closed
Minimum piloting pressure 2,5 bar



Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	12000	25	1 NPT	1/8 NPT	12,19	181,81

Poppet valves system 3/2, 1 1/2 NPT - in Aluminium

Brand new SAN776 (1 1/2 NPT) valve series have been upgraded replacing the traditional piston with a rolling diaphragm. This solution minimize friction with overall benefit on the valve seat wearing.

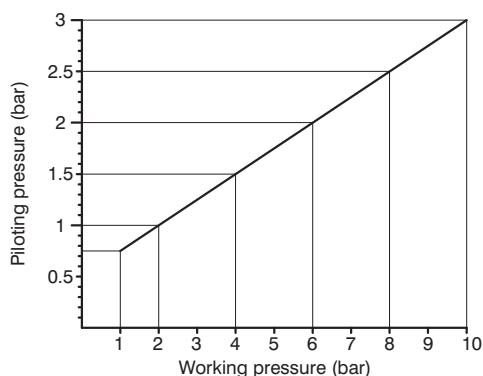
Material selection

Body, operator and end cover	Die casting aluminium
Seals and poppet	NBR oil resistant rubber
Piston	Aluminium
Pin guide	Nickel plated steel
Springs	Steel
Diaphragm	NBR oil resistant rubber

Operating range

Fluid	Air, Inert Gas, Sweet gas (natural) Filtered, lubricated or non-lubricated. (When lubricated, lubrication must be continuous).
Operating temperature	-30°C +70°C
Maximum operating temperature	12 bar

**Minimum working pressure diagram
for external pilot versions
N.C.**



Certifications available:



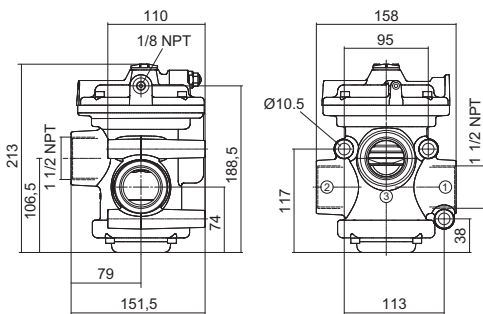
ATEX CE Ex II 2 GD c IIB T5 T100°C
: [CE Ex II 2G Ex h IIB T5 Gb
CE Ex II 2D Ex h IIIC T100°C Db]



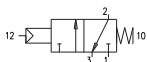
Pneumatic-Spring - 1 1/2 NPT

Ordering code

SAN776321101

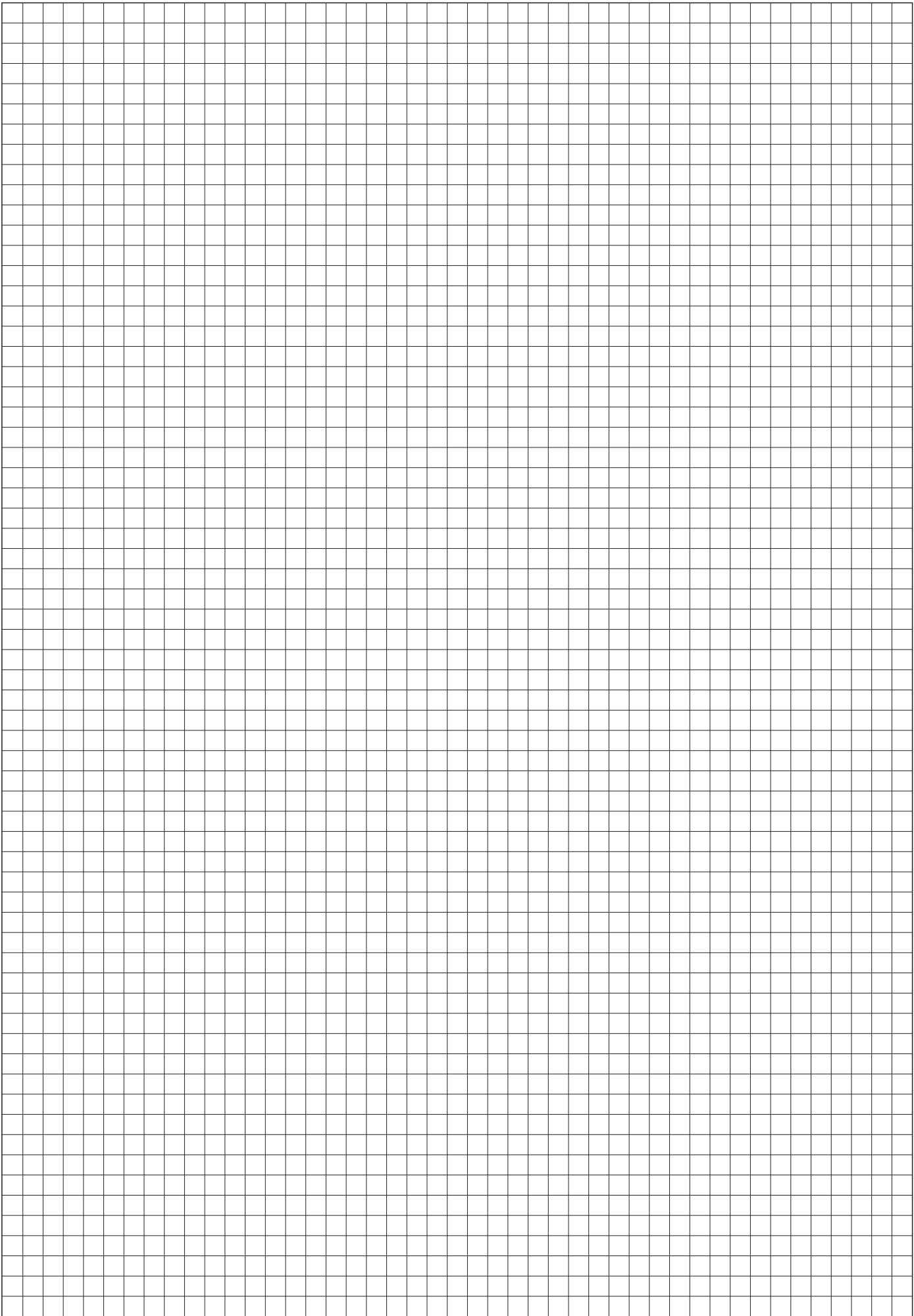


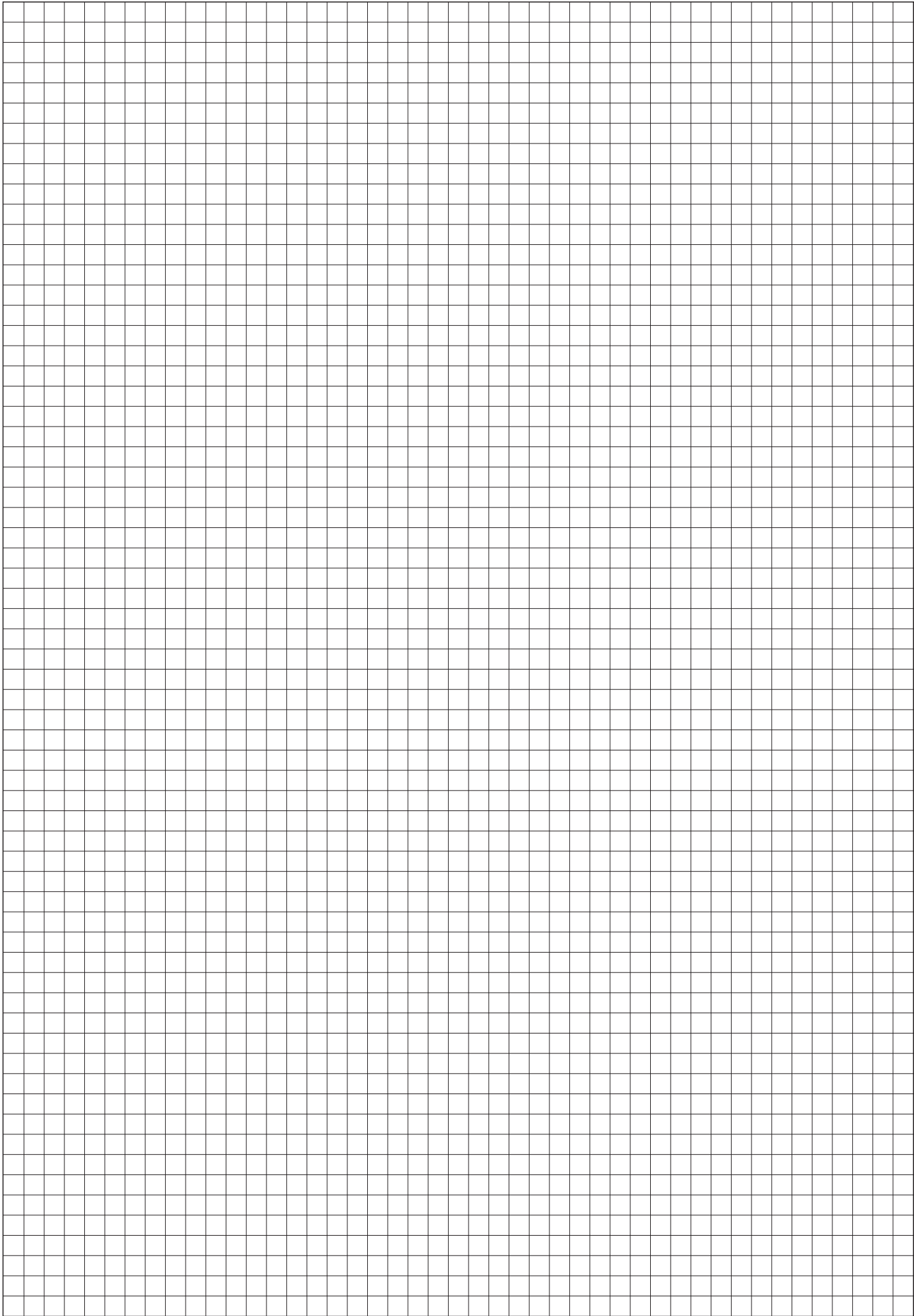
Weight gr. 3514
Normally closed
Minimum piloting pressure "See diagram on the General page"

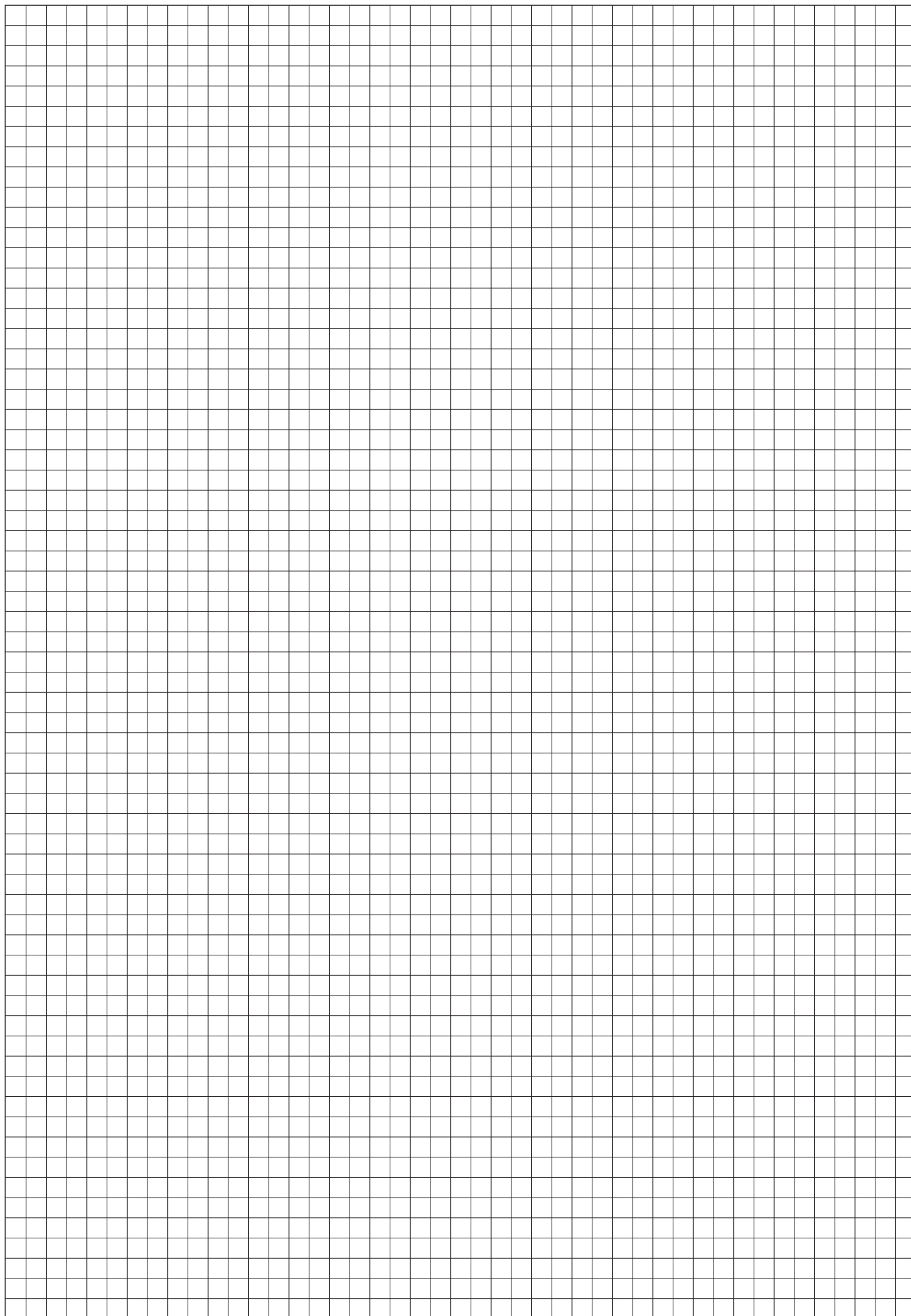


Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	33500	38	1 1/2 NPT	1/8 NPT	34,04	507,57









PNEUMAX

PNEUMAX S.p.A.

Via Cascina Barbellina, 10
24050 Lurano (BG) - Italy
P. +39 035 41 92 777
process@pneumaxspa.com