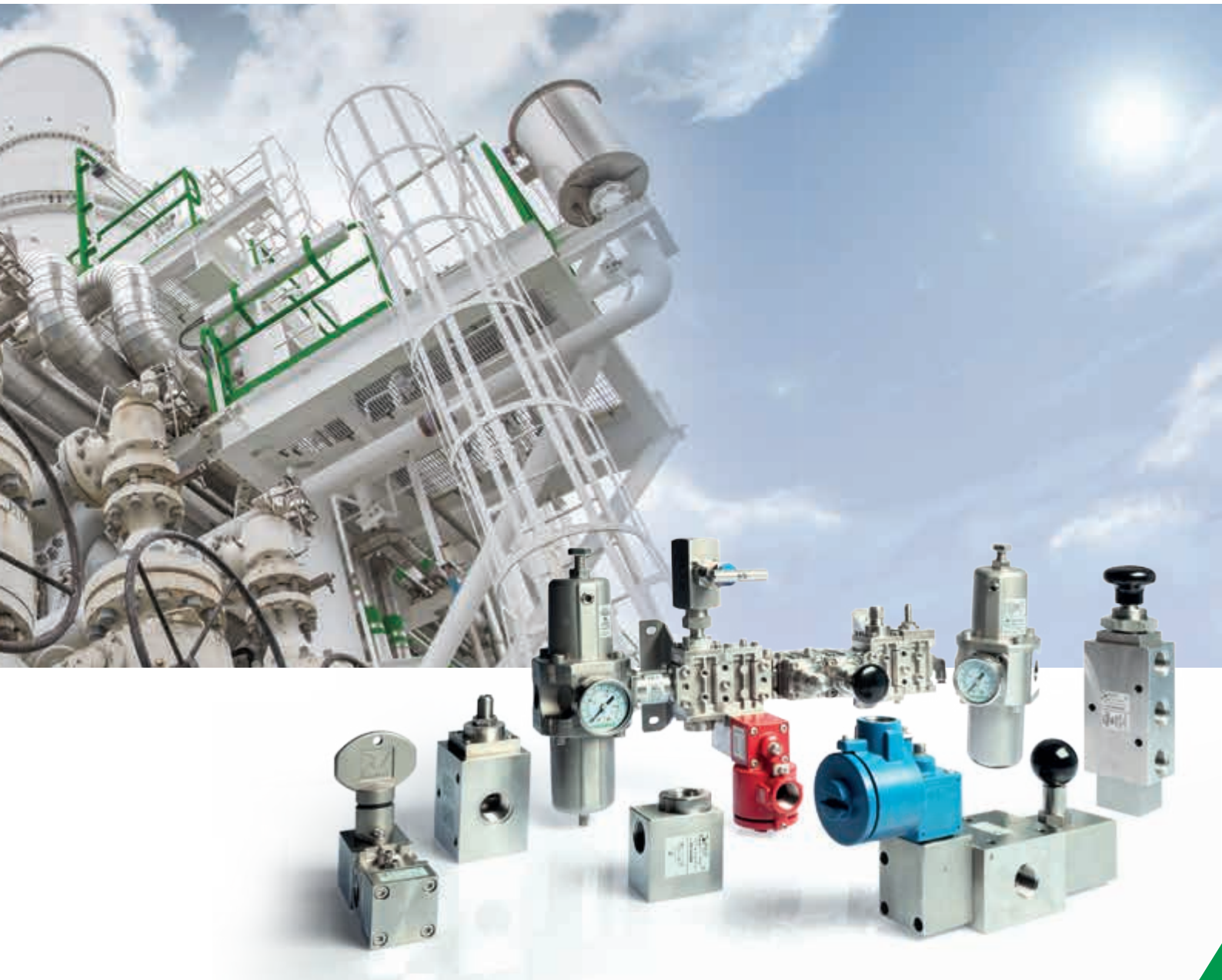




**PNEUMAX**



# **PROCESS AUTOMATION TECHNOLOGY**

PNEUMATIC COMPONENTS AND INTEGRATED MANIFOLD SOLUTION





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# 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 and process automation, it is at the fore front of a group comprised of 22 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, is a range of electric drive actuators and fluid control components.





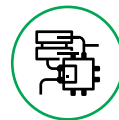


The ability to provide various technologies and solutions for each of our clients applications is the main objective of our company, making us the ideal strategic partner.

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 sector and product sector specialists. This represents the main distinguishing factor of what **Pneumax** has to offer.



**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



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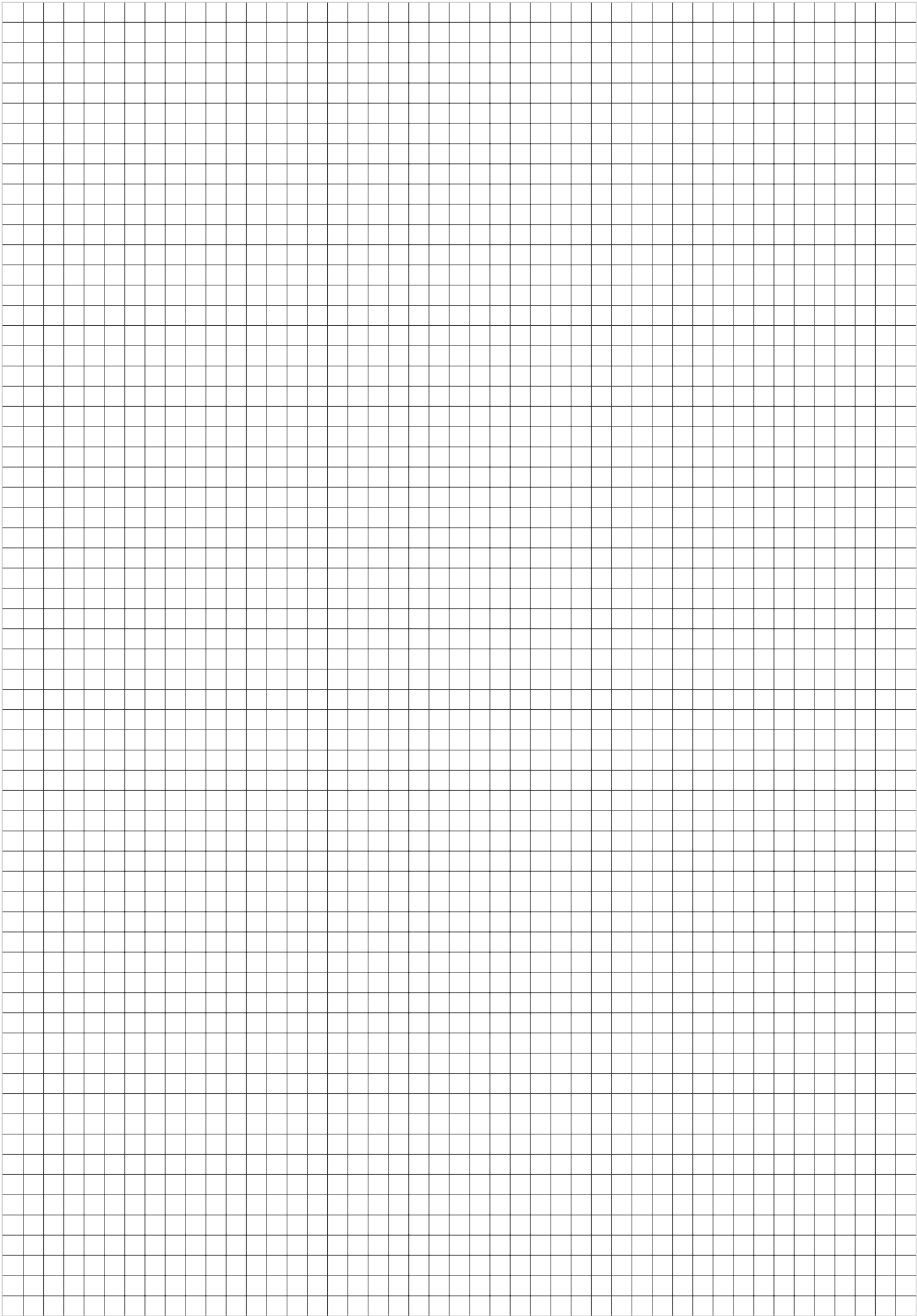
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## General

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.

## Construction and functional features

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

## Terms of use

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  $\mu\text{m}$  - 316 stainless steel  
B = 20  $\mu\text{m}$  - 316 stainless steel  
● C = 50  $\mu\text{m}$  - 316 stainless steel  
D = 5  $\mu\text{m}$  - HDPE  
E = 20  $\mu\text{m}$  - HDPE  
F = 50  $\mu\text{m}$  - HDPE

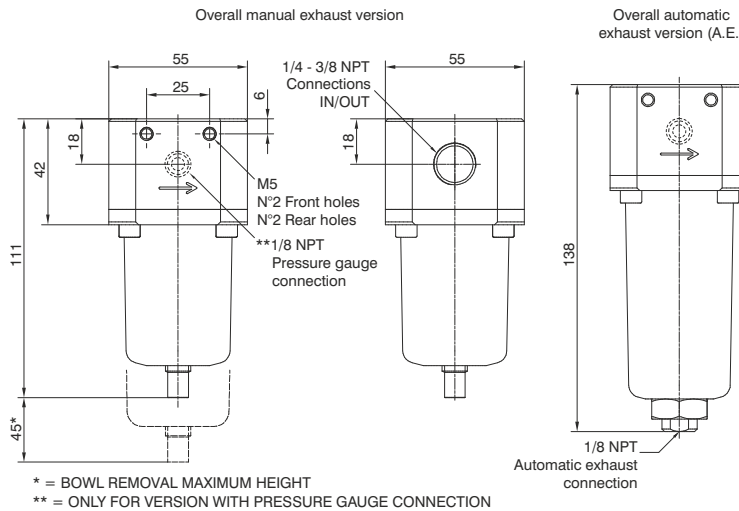
**OPTIONS**

- = 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



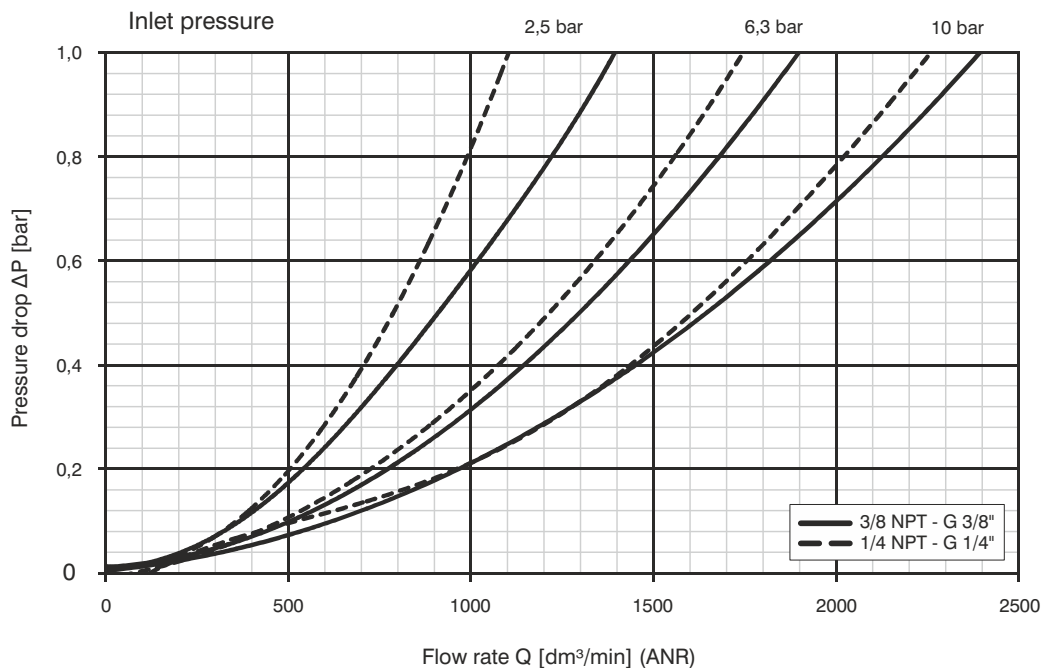
**Operational characteristics**

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

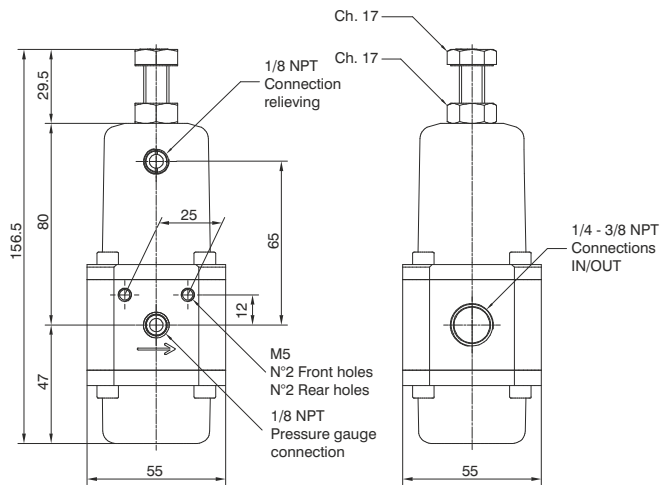
**Technical characteristics**

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 <sup>3</sup>
Assembly position	Vertical

**Flow rate curves**



## Regulator



## Ordering code

**SV172ORGT0**

### VERSION

- ✓ S = Standard surface finishing
- F = Clean profile

### CONNECTIONS

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

### 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.

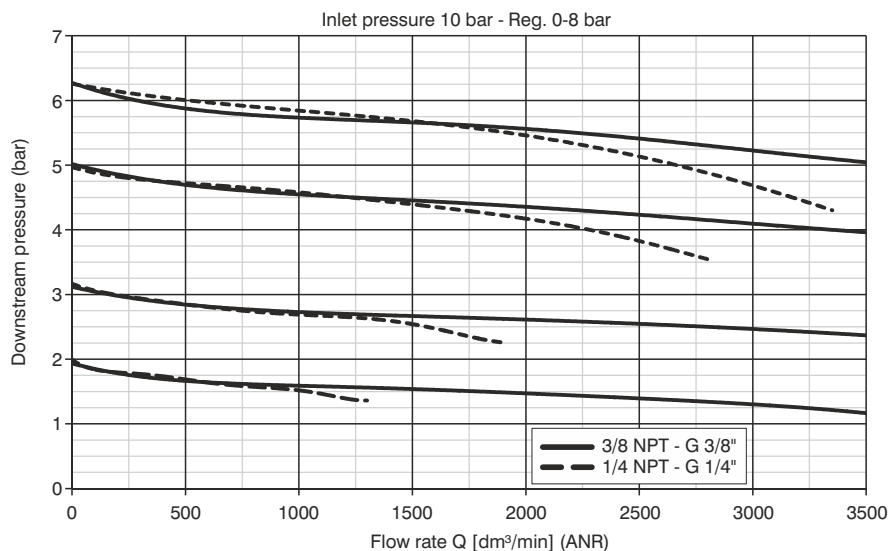
## Note

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

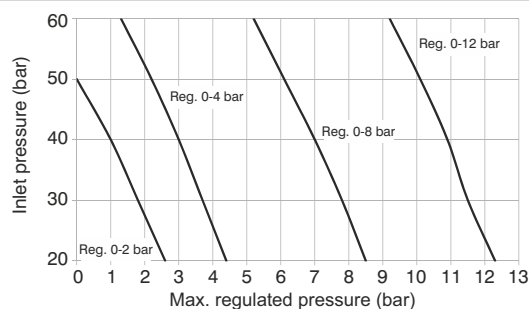
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40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

Flow rate curves

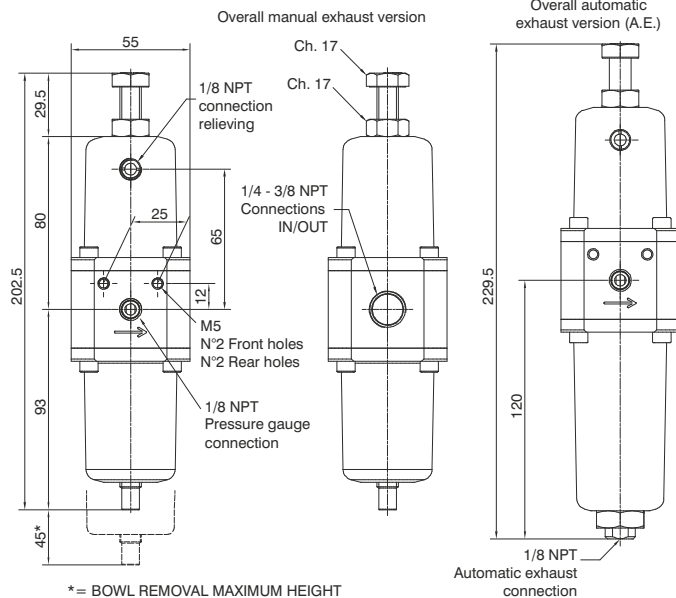


Pressure regulator Stainless steel line have been designed to withstand a 60 Bar maximum inlet pressure.

**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.

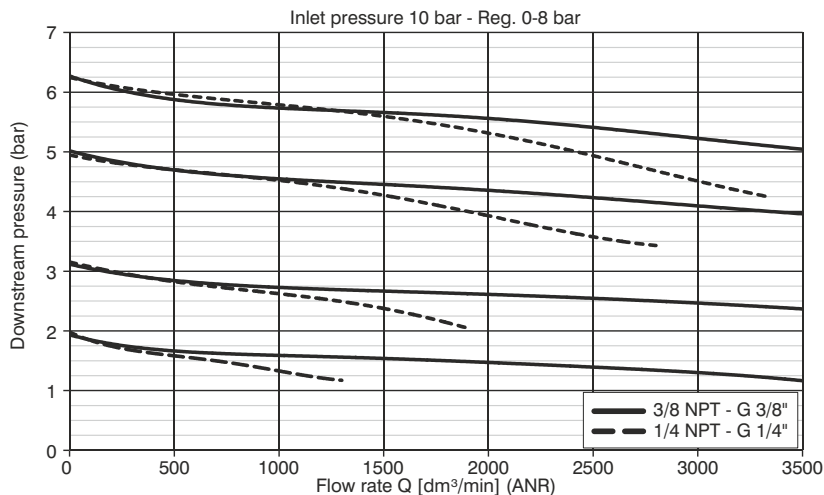
**Technical characteristics**

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 <sup>3</sup>
Assembly position	Vertical

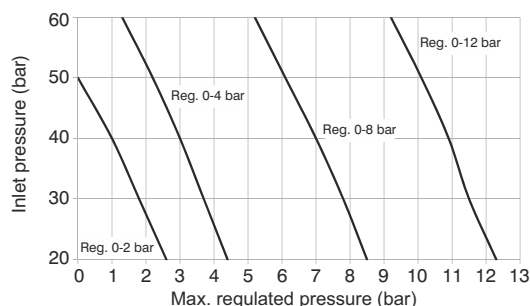
**Note**

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.

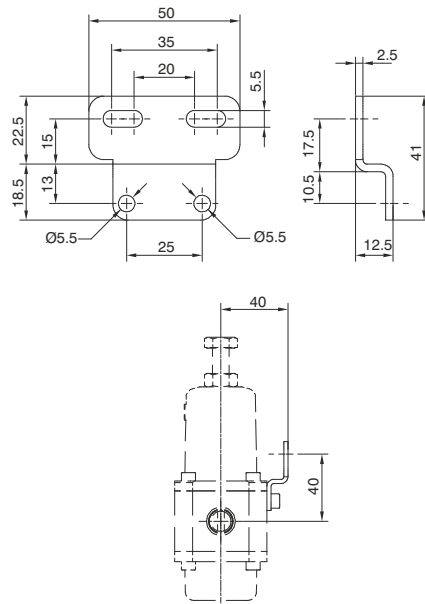




## Fixing bracket

Ordering code

**SS17250**

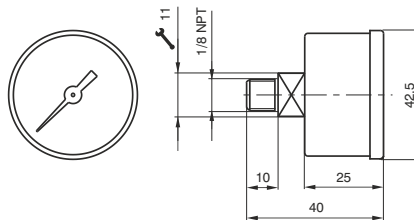


Weight 32 gr.  
AISI 316L stainless steel material.  
Allows wall fixing of individual products.

## Pressure gauge

Ordering code

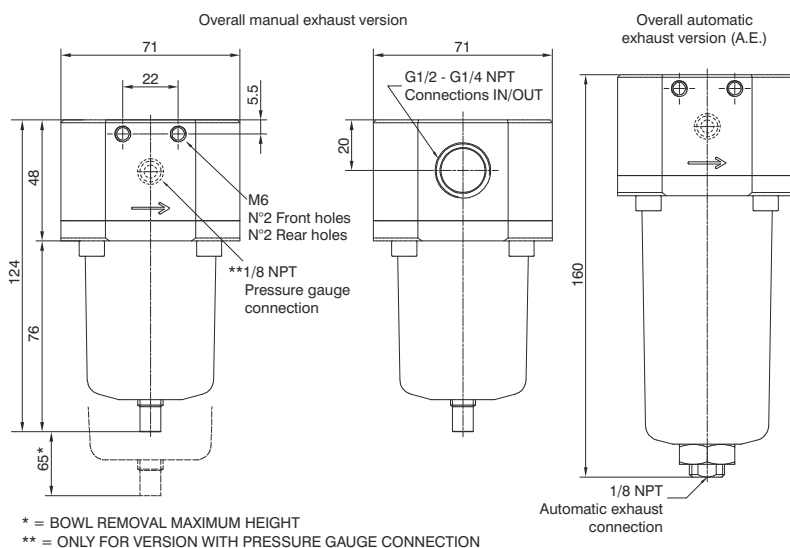
**SS17070A**



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  
A = 0 ÷ 4 bar  
B = 0 ÷ 12 bar

Filter



Ordering code

**SV173CF50Z**

VERSION	
V	S = Standard surface finishing
F	Clean profile
CONNECTIONS	
C	A = 1/4 NPT
	B = 1/2 NPT
	D = G1/2"
FILTER PORE SIZE	
A	5 $\mu$ m - inox 316
B	20 $\mu$ m - inox 316
S	C = 50 $\mu$ m - inox 316
	D = 5 $\mu$ m - HDPE
	E = 20 $\mu$ m - HDPE
	F = 50 $\mu$ m - 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

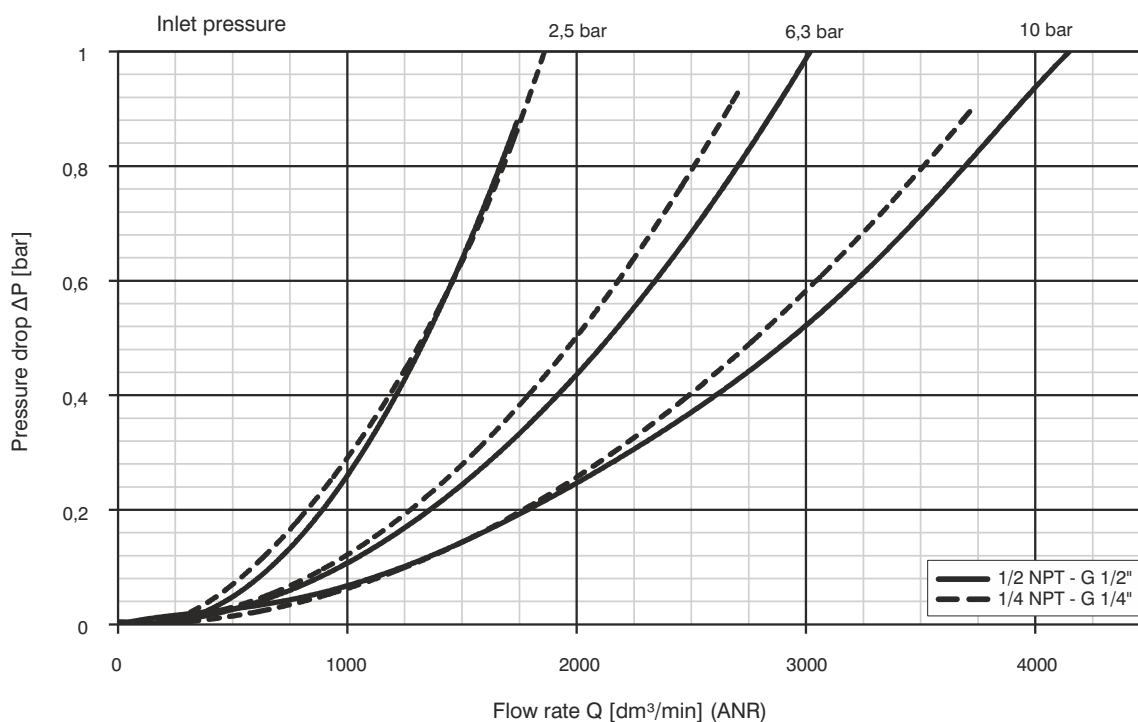
Operational characteristics

- 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 <sup>3</sup>
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

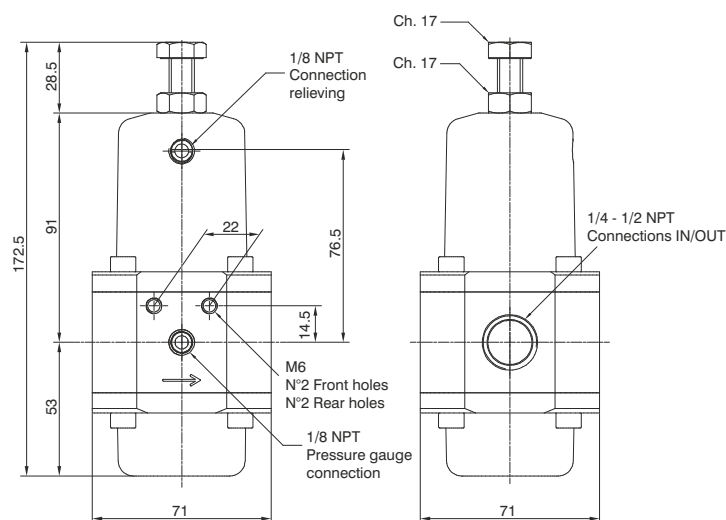
## TYPE

- 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.

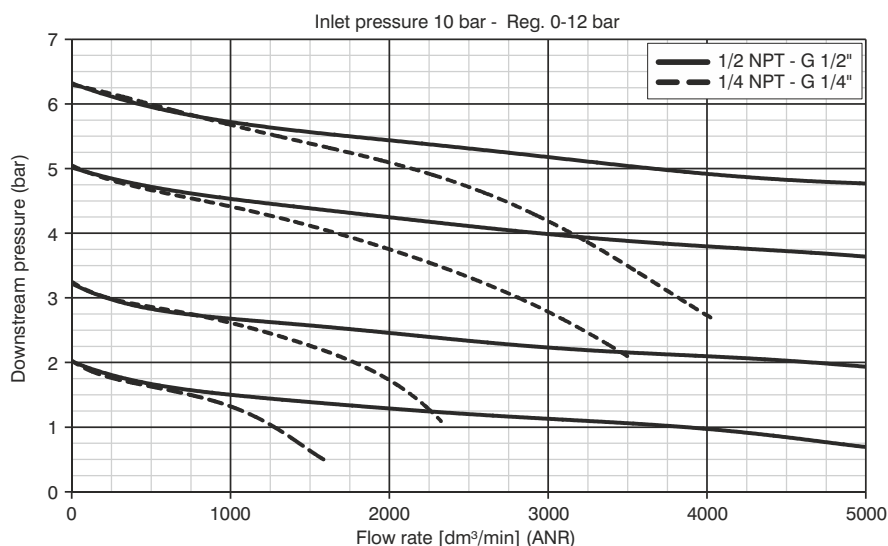
## Note

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

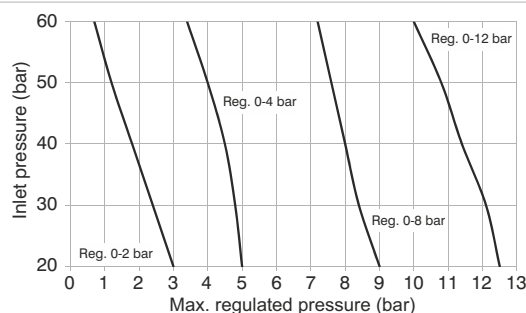
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40 °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.

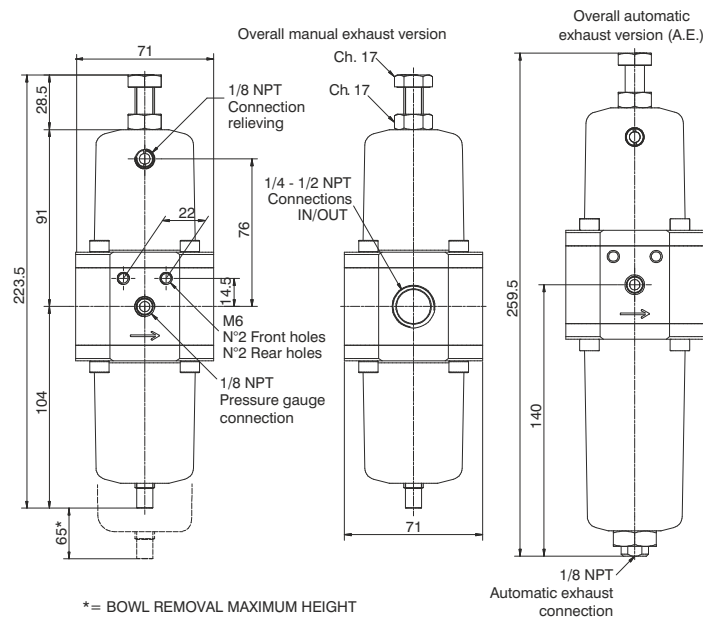
**Maximum regulated outlet pressure is 20 Bar.**  
For performance details please refer to diagram alongside.



**Filter - regulator**

**Ordering code**

**SV173CESG10**



VERSION	
<b>V</b>	S = Standard surface finishing
	F = Clean profile
CONNECTIONS	
<b>C</b>	A = 1/4 NPT
	B = 1/2 NPT
	D = G1/2"
FILTER PORE SIZE	
	A = 5 µm - 316 stainless steel
	B = 20 µm - 316 stainless steel
<b>S</b>	C = 50 µm - 316 stainless steel
	D = 5 µm - HDPE
	E = 20 µm - HDPE
	F = 50 µm - HDPE
ADJUSTING RANGE	
	A = 0-2 bar
<b>G</b>	B = 0-4 bar
	C = 0-8 bar
	D = 0-12 bar
TYPE	
<b>T</b>	= Standard*
	N = Without relieving
OPTIONS	
	= Standard*
	L = Low temperature
<b>Q</b>	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 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.

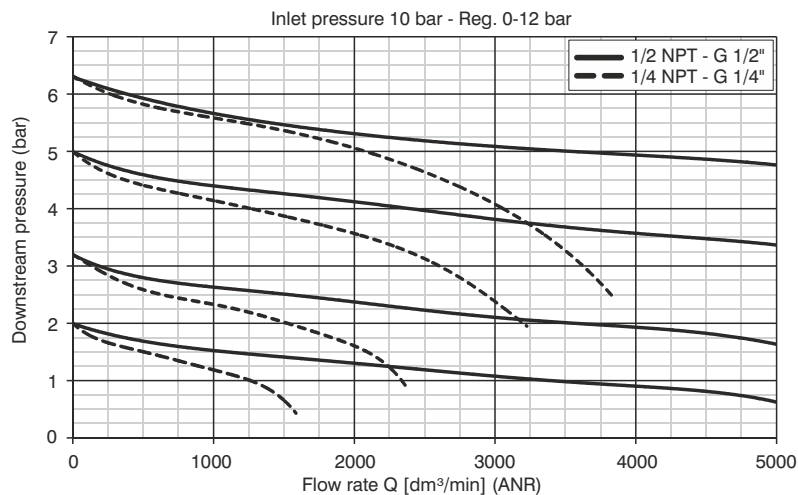
**Note**

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.

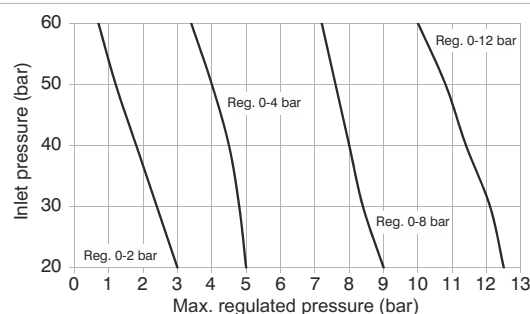
**Technical characteristics**

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 <sup>3</sup>
Assembly position	Vertical

Flow rate curves



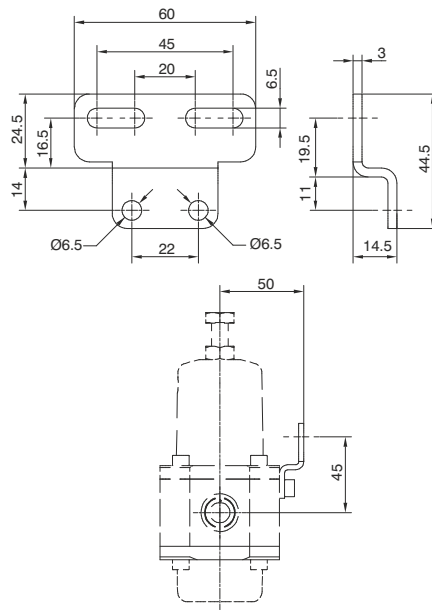
Pressure regulator Stainless steel line have been designed to withstand a **60 Bar** maximum inlet pressure.  
**Maximum regulated outlet pressure is 20 Bar.**  
For performance details please refer to diagram alongside.



## Fixing bracket

Ordering code

**SS17350**

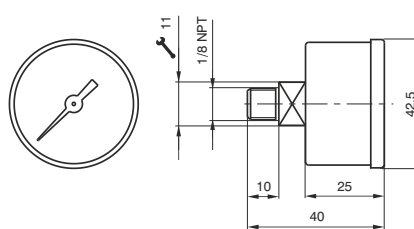


Weight 32 gr.  
AISI 316L stainless steel material.  
Allows wall fixing of individual products.

## Pressure gauge

Ordering code

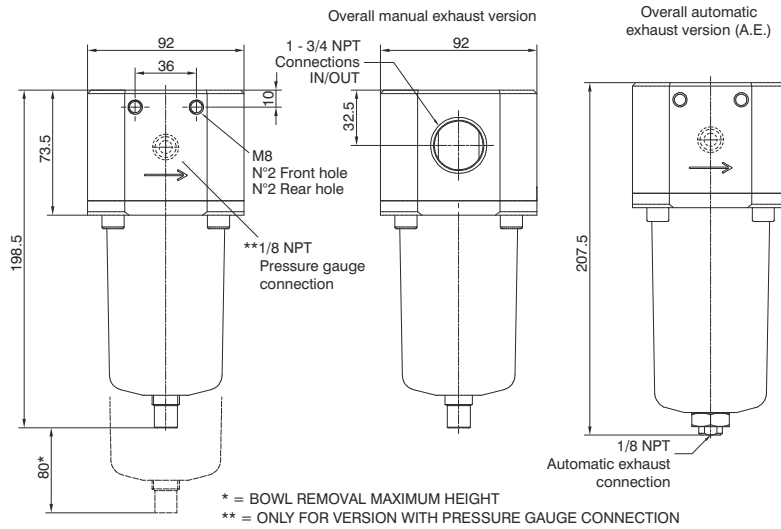
**SS17070A**



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.



Filter



Ordering code

**SV174CF50Z**

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 $\mu$ m - 316 stainless steel
B	20 $\mu$ m - 316 stainless steel
S	C = 50 $\mu$ m - 316 stainless steel
	D = 5 $\mu$ m - HDPE
	E = 20 $\mu$ m - HDPE
	F = 50 $\mu$ m - 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

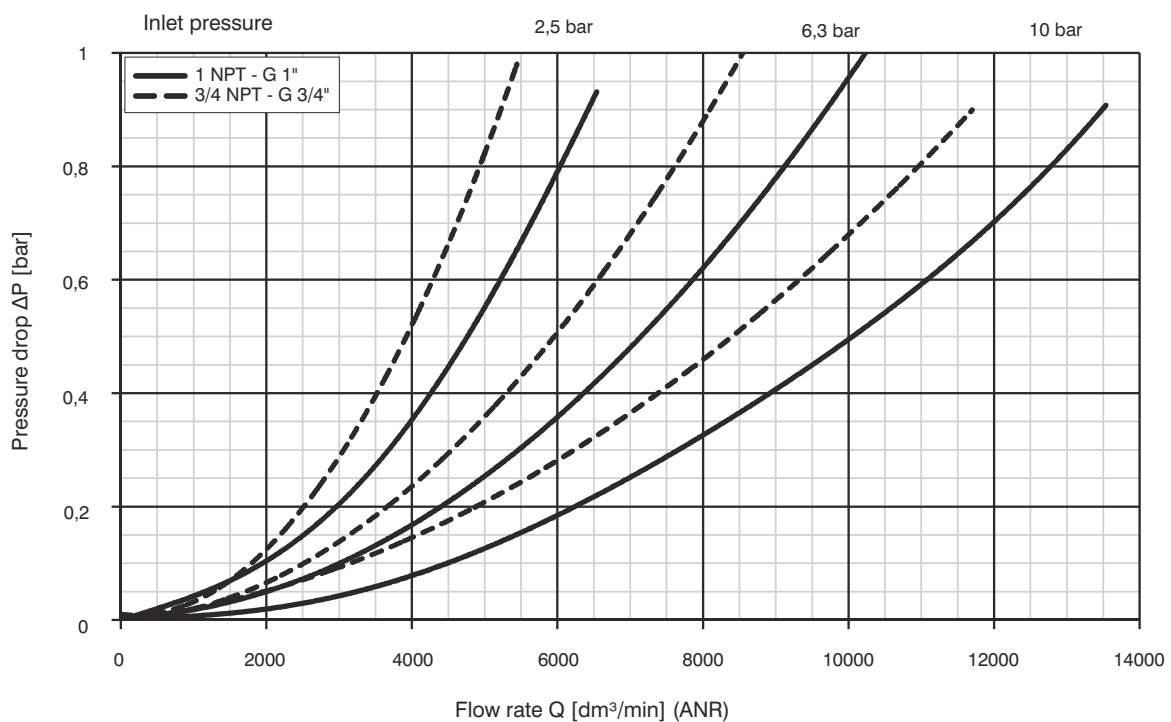
Operational characteristics

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

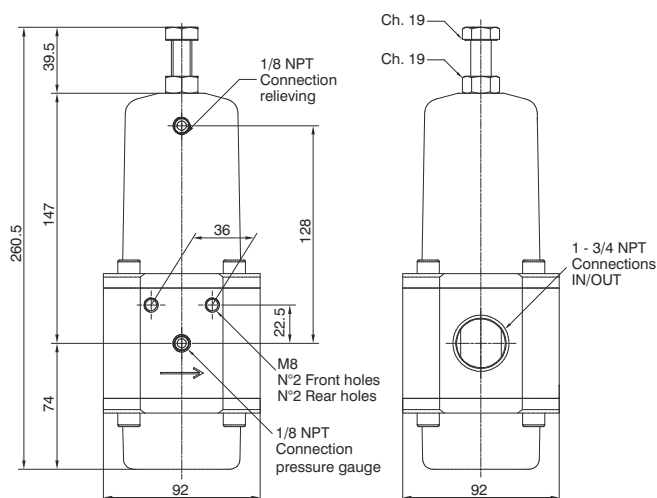
Technical characteristics

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 3/4 NPT - G 3/4"	4700 (gr.)
Weight 1 NPT - G 1"	4600 (gr.)
Maximum condense capacity	78 cm <sup>3</sup>
Assembly position	Vertical

Flow rate curves



## Regulator



## Ordering code

SV1740RG010

## VERSION

- ✓ 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.

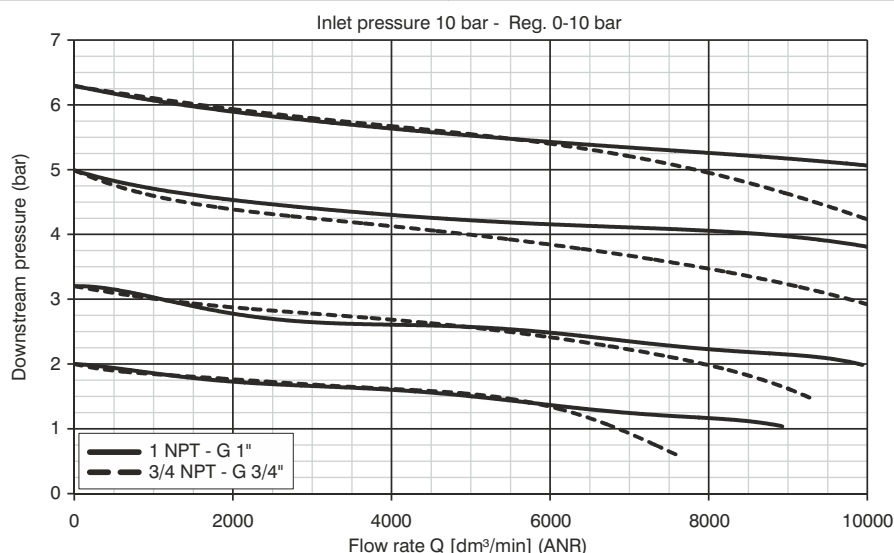
## Note

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

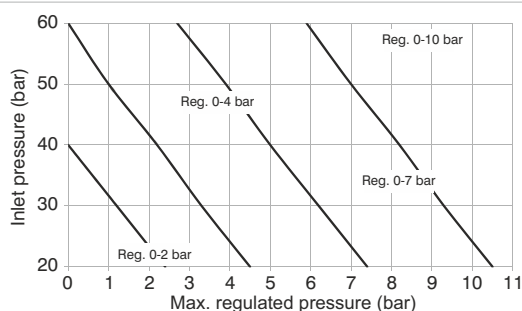
Maximum inlet pressure (Standard version)	20 bar
Temperature (Standard version)	-30 °C - +70 °C
Temperature (Low temperature version)	-50 °C - +70 °C
Temperature (Low temperature version -60 °C)	-60 °C - +70 °C
Temperature (High temperature version)	-5 °C - +150 °C
Temperature (EPDM-FDA version)	-40 °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

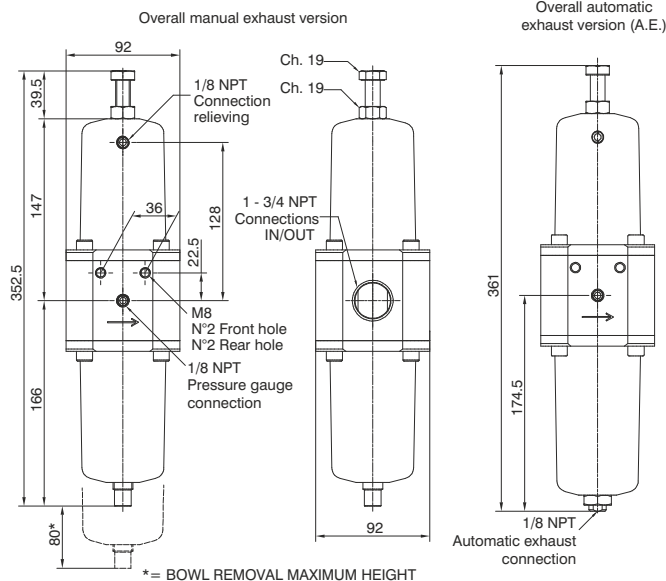


Pressure regulator Stainless steel line have been designed to withstand a 60 Bar maximum inlet pressure.

**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 $\mu$ m - 316 stainless steel
B	20 $\mu$ m - 316 stainless steel
S	C = 50 $\mu$ m - 316 stainless steel
	D = 5 $\mu$ m - HDPE
	E = 20 $\mu$ m - HDPE
	F = 50 $\mu$ 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.

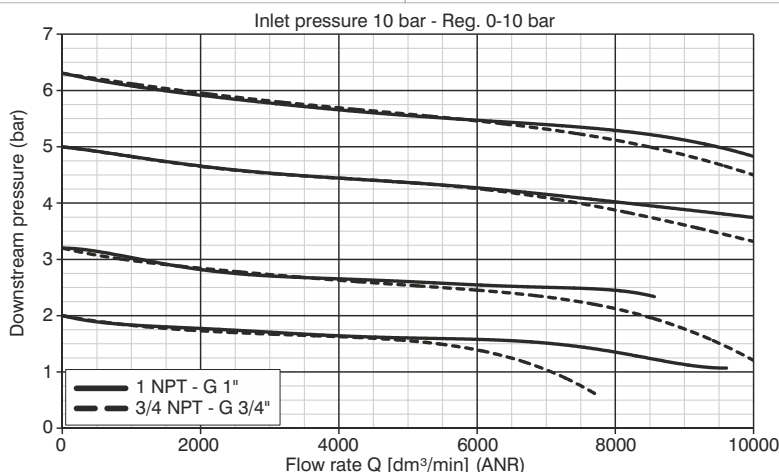
**Note**

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.

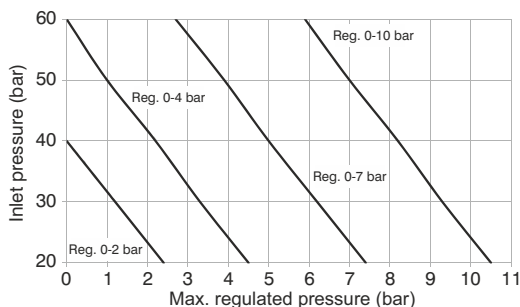
**Technical characteristics**

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 <sup>3</sup>
Assembly position	Vertical

Flow rate curves



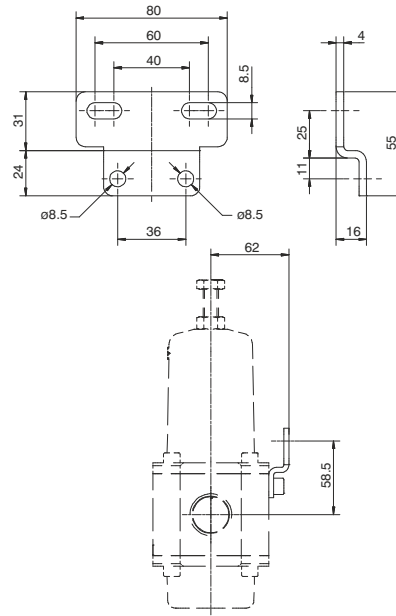
Pressure regulator Stainless steel line have been designed to withstand a **60 Bar** maximum inlet pressure.  
**Maximum regulated outlet pressure is 20 Bar.**  
 For performance details please refer to diagram alongside.



## Fixing bracket

Ordering code

**SS17450**

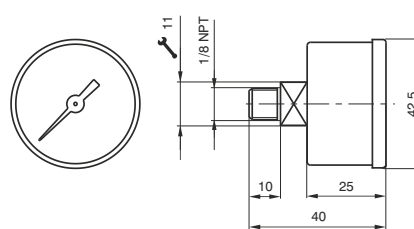


Weight 32 gr.  
AISI 316L stainless steel material.  
Allows wall fixing of individual products.

## Pressure gauge

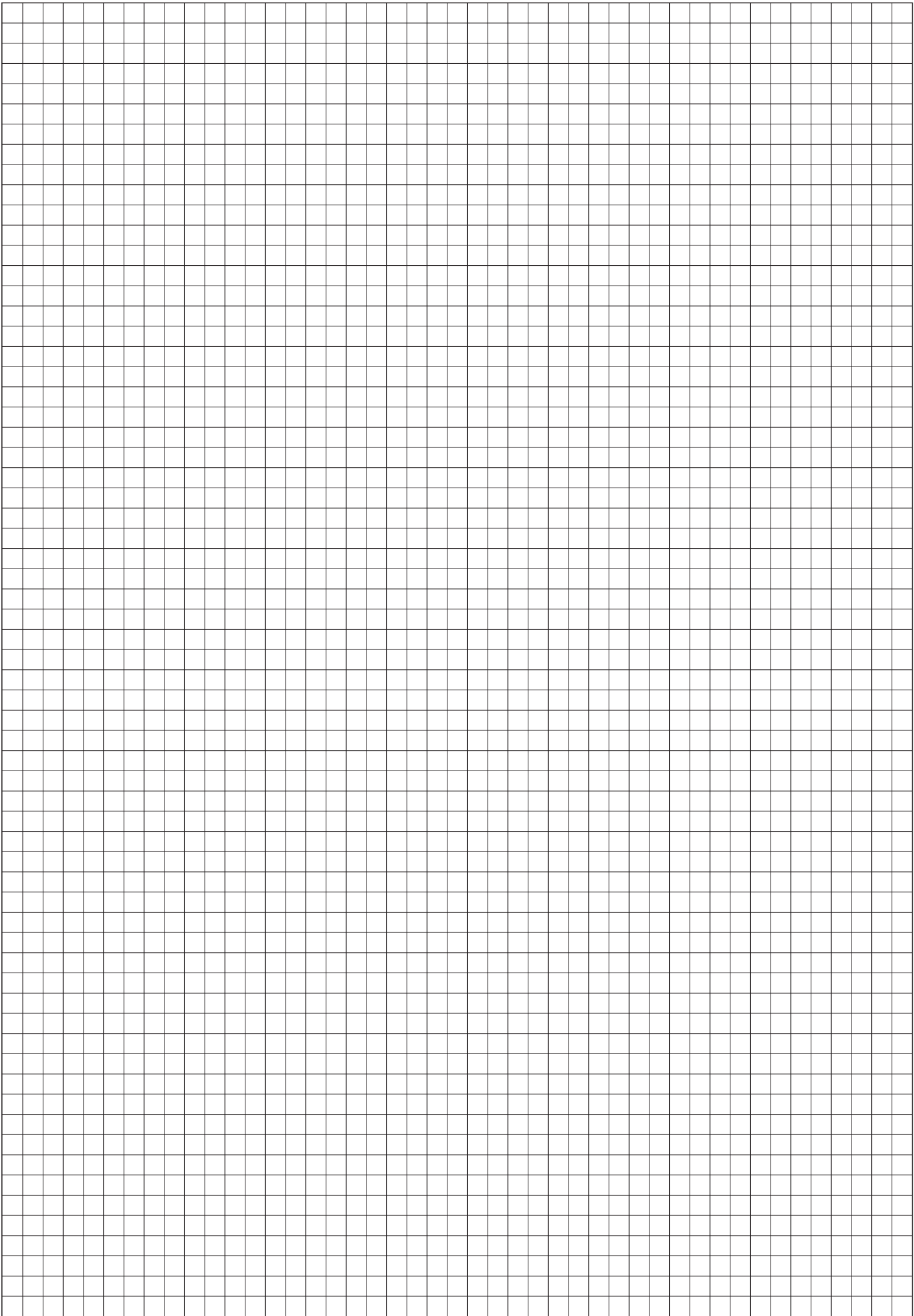
Ordering code

**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 ample experience and knowledge in the development of specific solutions for the process industry, as well as a range of products to improve the efficiency, productivity, and quality of the process itself. Each part has been tried, tested and validated through years of experience. All certificates and the necessary approvals, to provide continuous, reliable and quality solutions, are available. The combination with a global engineering infrastructure allows **PNEUMAX** to respond quickly and positively to the specific needs of the customer. Our complete range for the process industry includes many products to meet the daily needs of the sector. High-quality products focused on reliability, safety, and profitability for our customers.

### General

The new series of A316L stainless steel valves and accessories were created and developed specifically for the OIL & GAS, Petrochemical, Power Generation, Chemical, Pharmaceutical and Food sectors, and for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression. These products are perfectly suited to work with fluids in a gaseous state, whether aggressive in nature or not.

### Actuators for control:

- ESDV (emergency valve/exhaust).
- HIPPS (integrated control systems).
- High-pressure turbine control.
- Water services support.
- Controls for gas / fluids.
- Control of control valves.

### Applications:

- Range of operations under difficult conditions.
- Applications in areas with extreme temperatures.
- Fire control systems.
- Hazardous areas.
- Offshore.
- Refineries.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

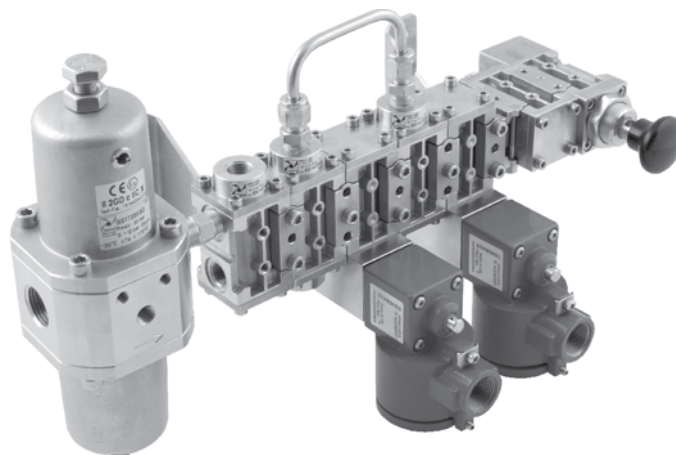
The range includes 3 and 5 way function valves, with the following functions available:

- 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 valves, Unidirectional and Bidirectional flow control valves and Quick exhaust valve.
- Blocks dividers or shunts.

### Modularity

All components with 1/4 connections have flow rates starting from 1000NI/min.

The main feature of each of these valves is the extreme flexibility that allows single mounting or the ability to mount units together through the use of appropriate flanges to create Manifold systems, thanks to the Compact Design it offers ease of installation.



Example: Module with redundant solenoids valves



### Construction features

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

### Terms of use

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 CE Ex II 2 GD c IIC

: 

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



: Suitable up to SIL 3



: CU - TR 012

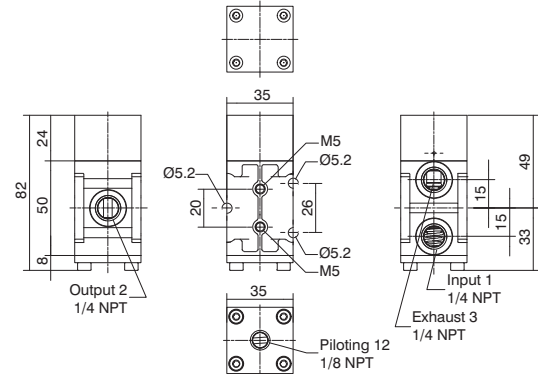
### Pneumatic - Spring Valve

Ordering code

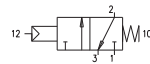
**SS1432C1101**

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

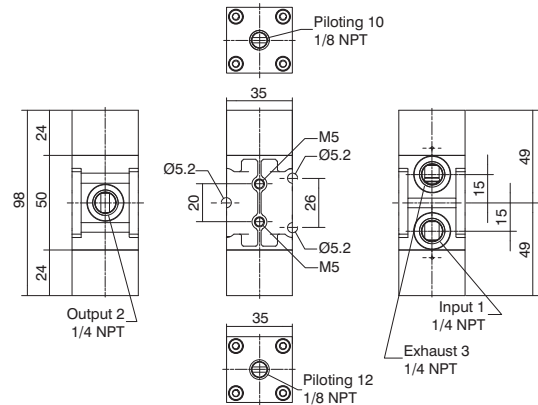
### Pneumatic - Pneumatic Valve

Ordering code

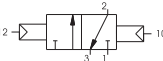
**SS1432C1111**

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

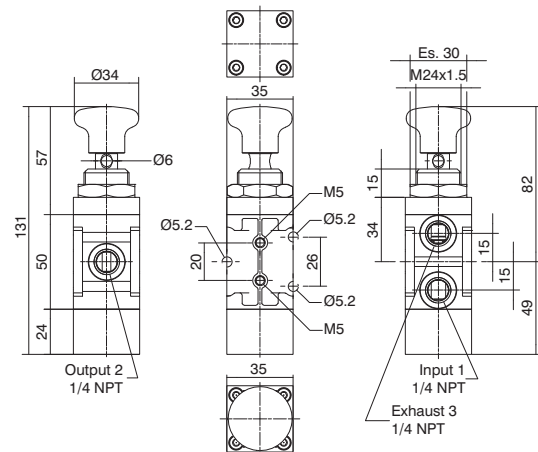
### 2 Position Push-Pull Valve

Ordering code

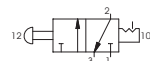
**SS1432C0802**

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

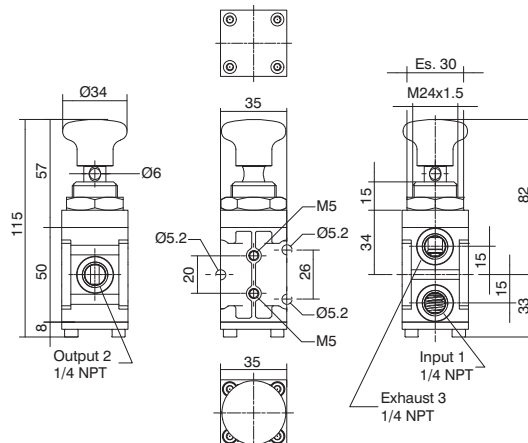
### Push Button - Spring Valve

Ordering code

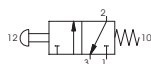
**SS1432C0801T**

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

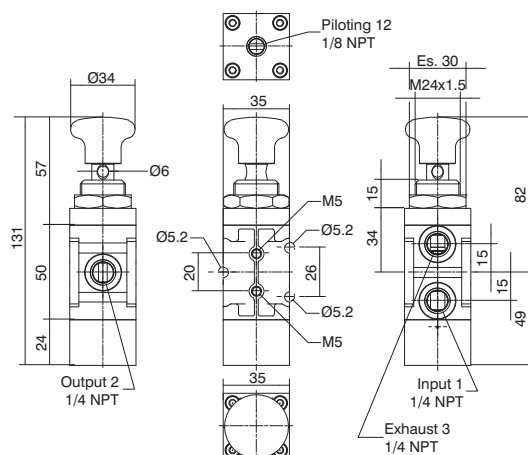
### Push Button - Pneumatic Return Valve

Ordering code

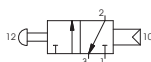
**SS1432C0811T**

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

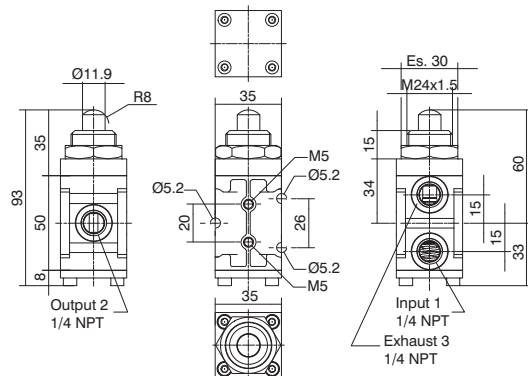
### Tappet - Spring Valve

Ordering code

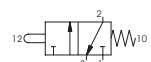
**SS1432C0001T**

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

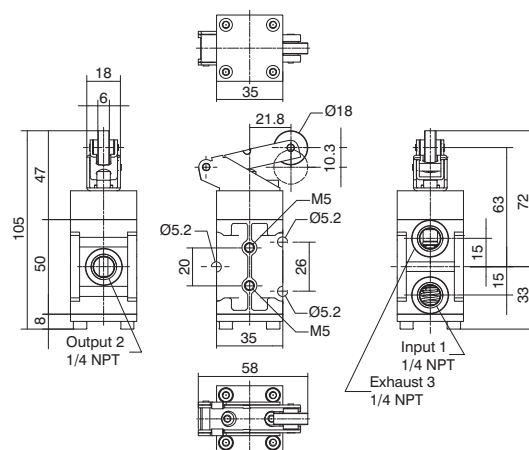
### Roller Lever - Spring Valve

Ordering code

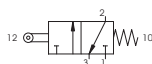
**SS1432C0401**

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	480	1,02	15,15

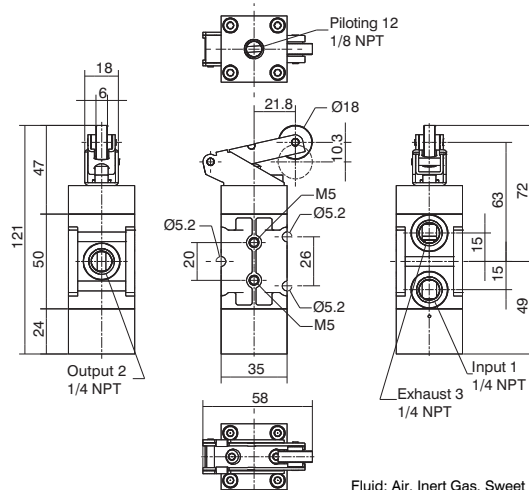
### Roller Lever - Spring Valve

Ordering code

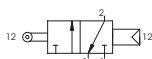
**SS1432C0411**

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	480	1,02	15,15

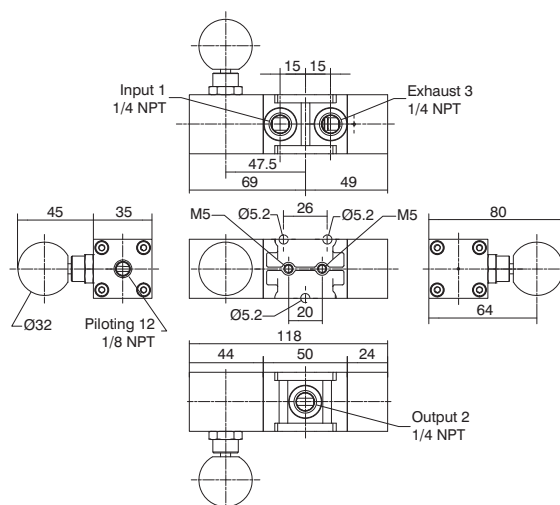
### Pneumatic valve with self-locking manual reset

Ordering code

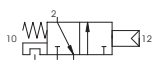
**SS1432C1114**

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 $\Delta p=1$ (NI/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

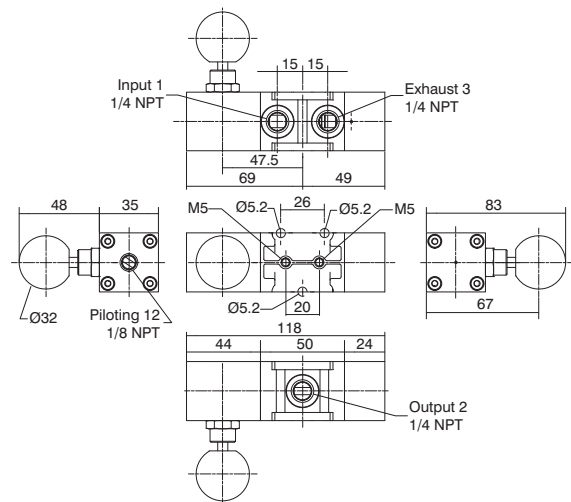
**SS1432C1115T**

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

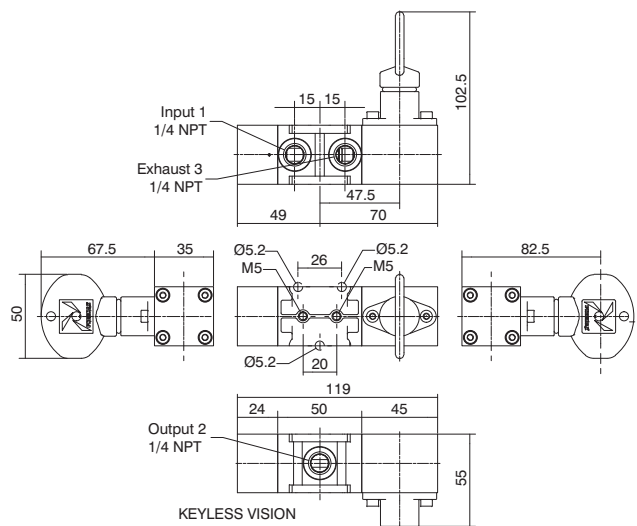
**Key - Spring Valve stable**

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

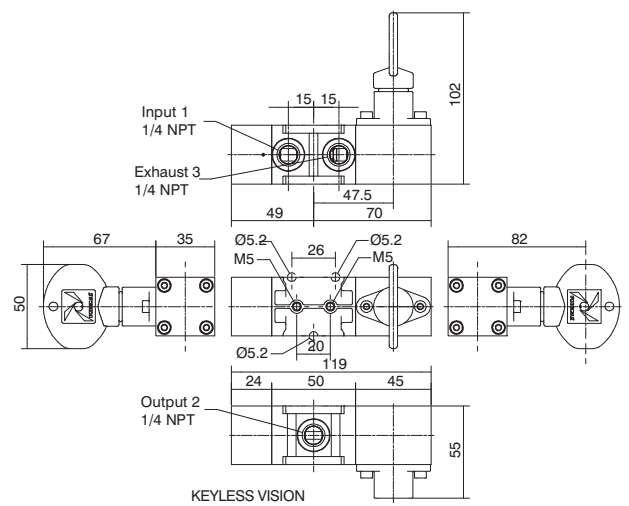
**Key - Spring Valve instable**

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

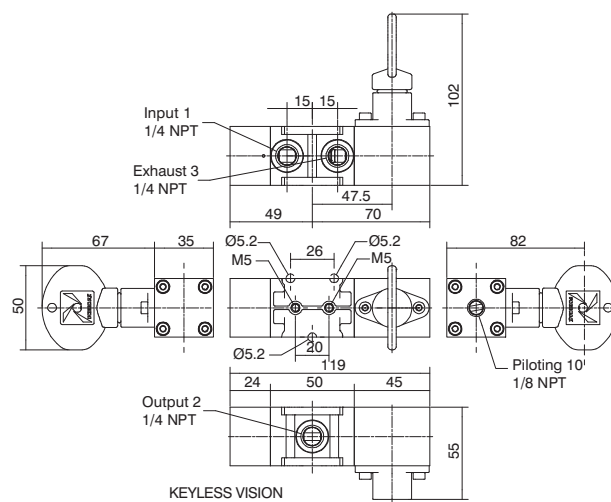


### Pneumatic - Key Valve stable

Ordering code

**SS1432C1611**

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



KEYLESS VISION

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

#### Operational characteristics

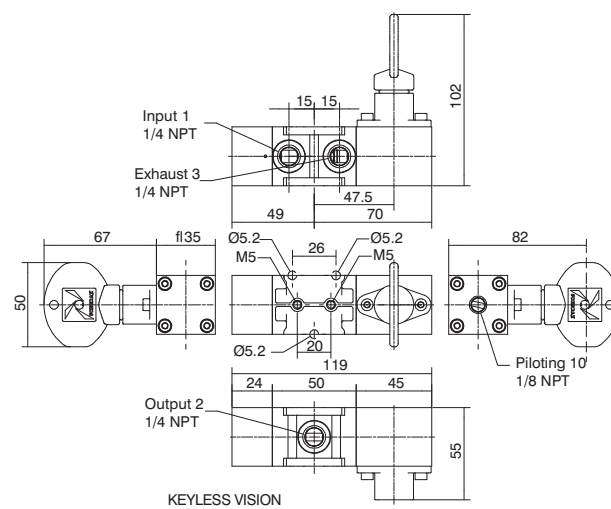
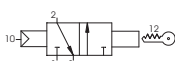
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1020	1,02	15,15

### Pneumatic - Key Valve instable

Ordering code

**SS1432C2611**

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



KEYLESS VISION

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





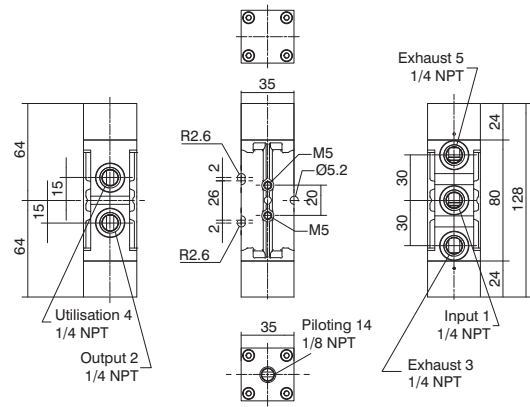
### Pneumatic - Spring Valve

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

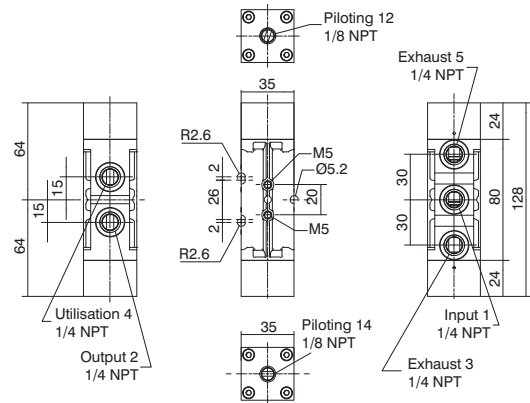
### Pneumatic - Pneumatic Valve

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

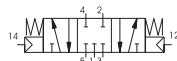
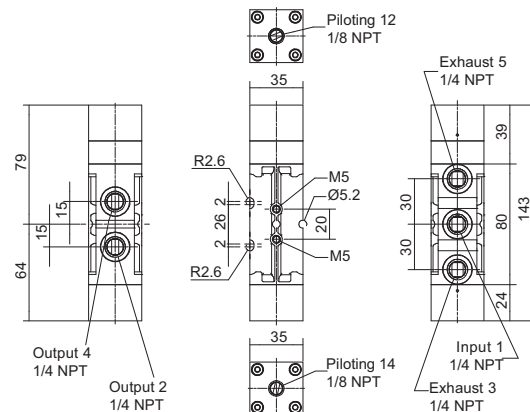
### Pneumatic - Pneumatic Closed Centers Valve

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**

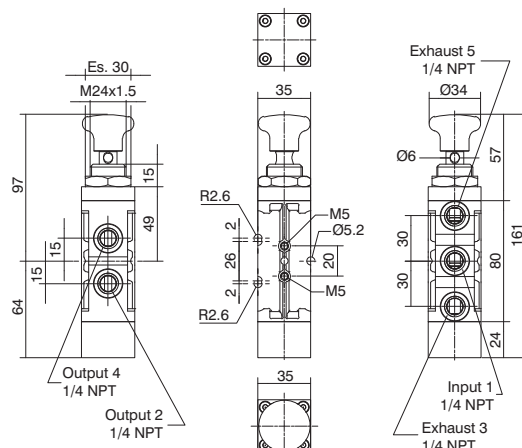
TYPE

**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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	770	1,02	15,15

## Push Button - Spring Valve

Ordering code

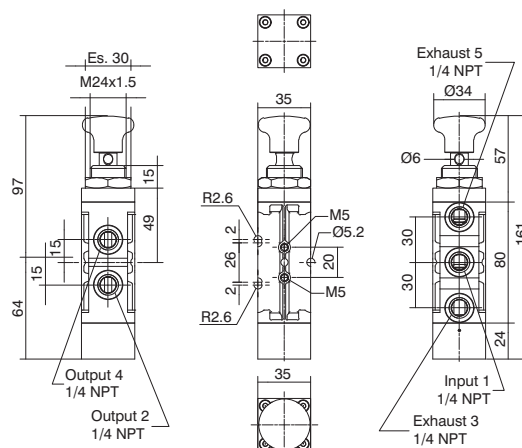
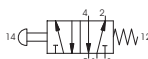
**SS145200801T**

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	780	1,02	15,15

## Push Button - Pneumatic Return Valve

Ordering code

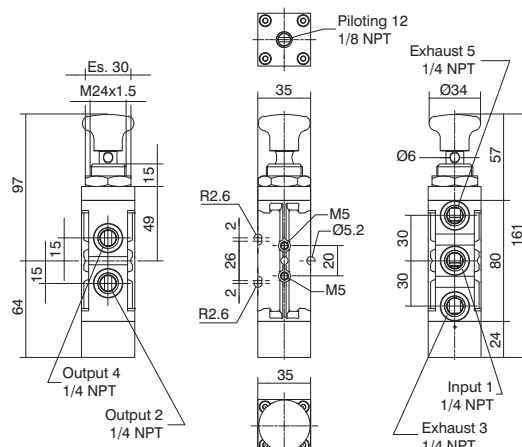
**SS145200811T**

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 $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	780	1,02	15,15

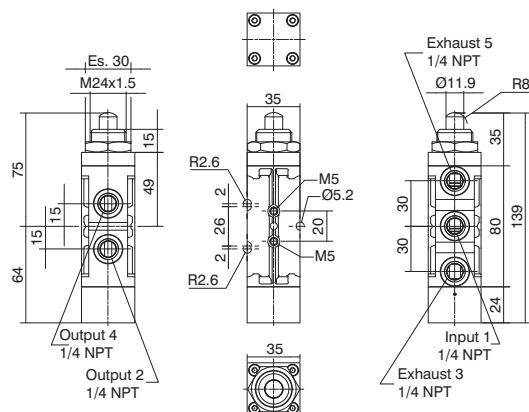
### Tappet - Spring Valve

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

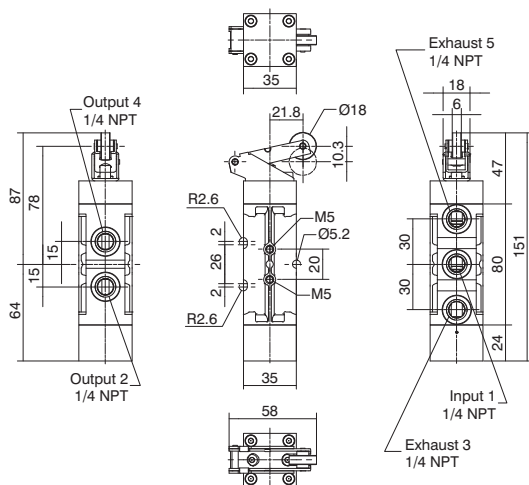
### Roller Lever - Spring Valve

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

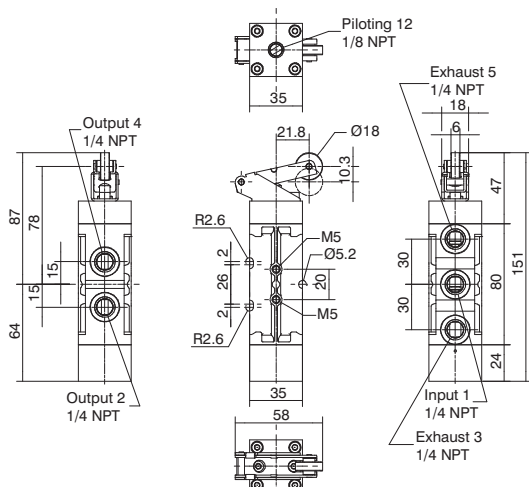
### Roller Lever - Spring Valve

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

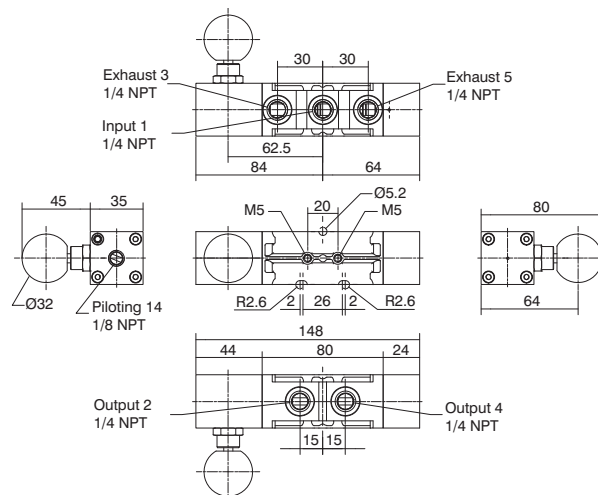
Ordering code

**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

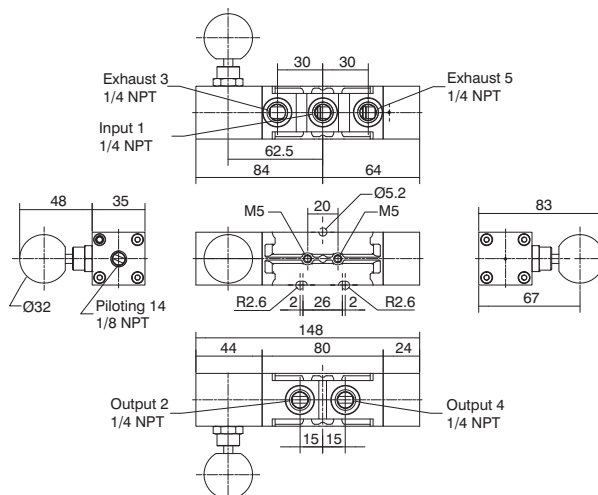
Ordering code

**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

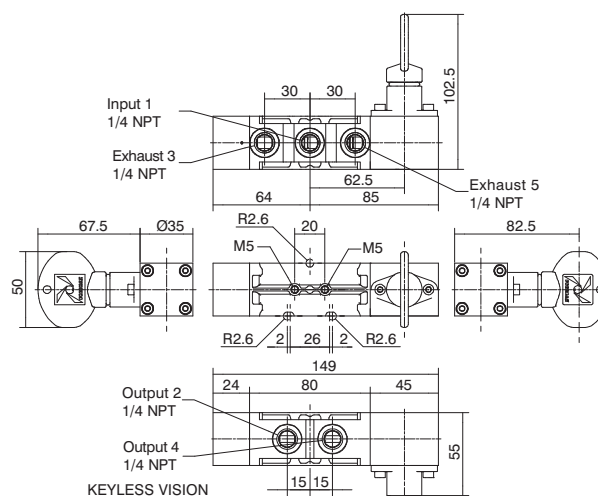
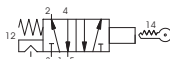
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Connections	Pilot connections	Weight (gr.)	Cv	kv
12	1000	1/4 NPT	1/8 NPT	1020	1,02	15,15

### 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

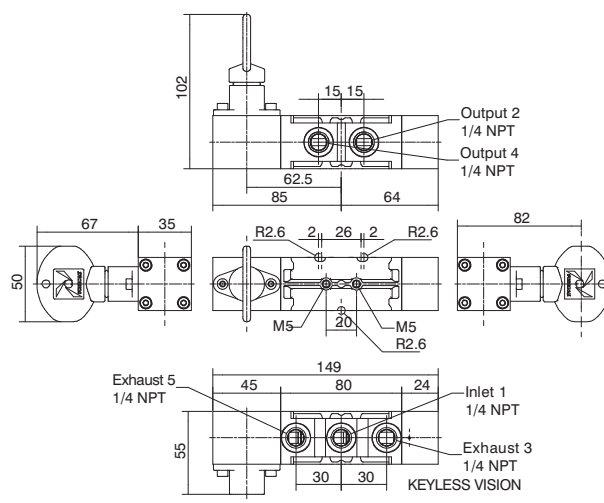
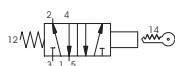
### Key - Spring Valve instable

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

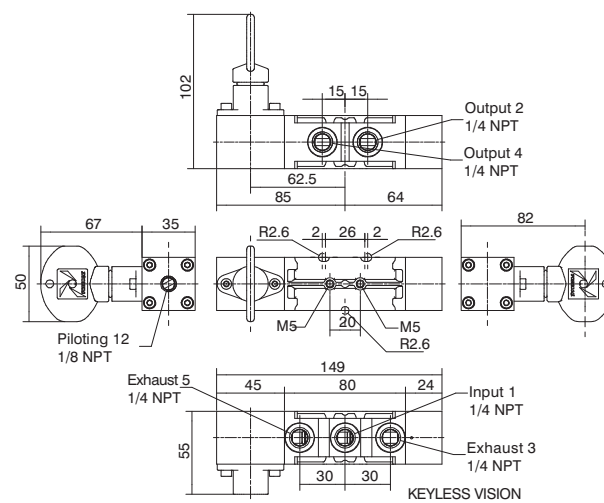
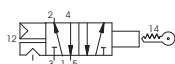
### Pneumatic - Key Valve Stable

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

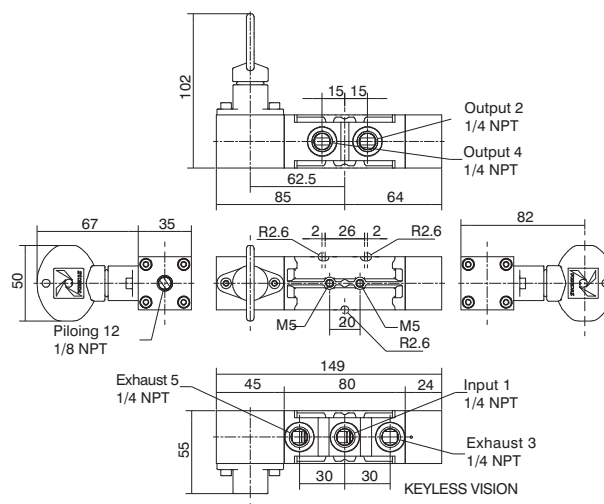
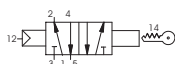
### Pneumatic - Key Valve instable

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

The new range of stainless steel solenoid valves, combined with a series of pilots with standard 30 mm mechanics and windings was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression. These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5 way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves
- Solenoid - Solenoid Valves

All solenoid valves have 1/4 NPT connections and maximum flow rates of 1000 NI/min.

The main feature of each of these elements is the extreme flexibility that allows for single mounting or assembling individual modules together, through the use of appropriate flanges to create complete groups, thanks to the compactness and ease of installation of the system.

### Construction features

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 ( <b>Available on request</b> )

### Terms of use

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 ( <b>Fluoroelastomer</b> ) NBR ( <b>Available on request</b> )
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**

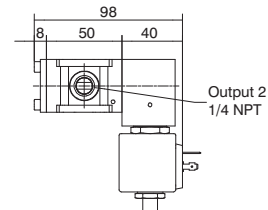
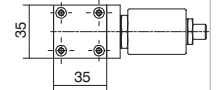
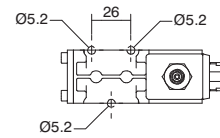
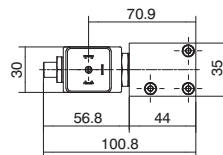
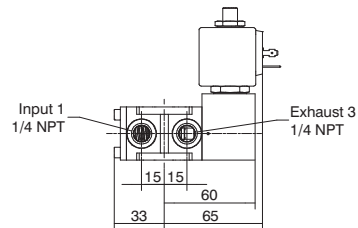
VOLTAGE

0 = 12 V DC

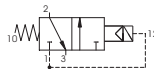
1 = 24 V DC

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**

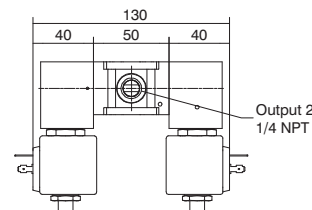
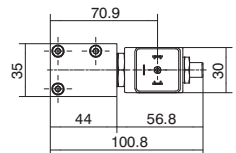
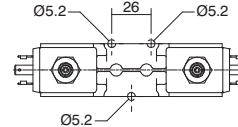
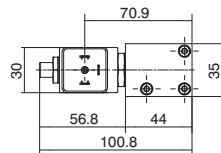
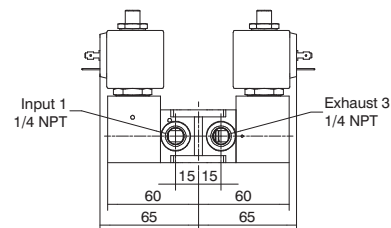
VOLTAGE

0 = 12 V DC

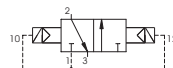
1 = 24 V DC

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**

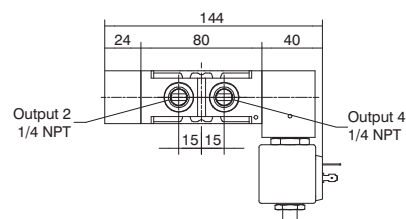
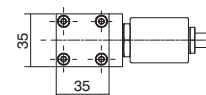
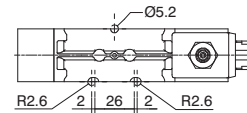
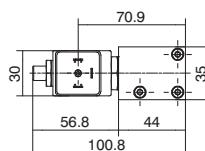
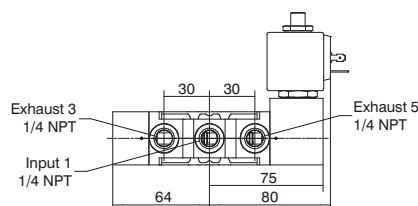
VOLTAGE

0 = 12 V DC

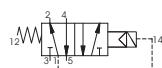
**T** 1 = 24 V DC

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

**SS145202T2TH**

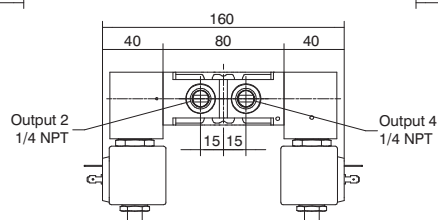
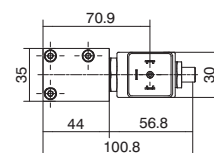
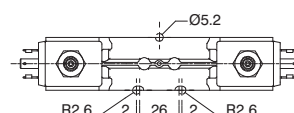
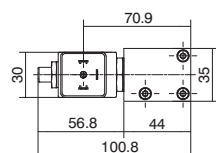
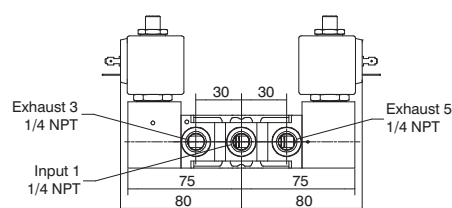
VOLTAGE

0 = 12 V DC

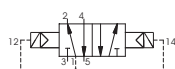
**T** 1 = 24 V DC

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

The new range of stainless steel solenoid valves, combined with a series of pilots for a safe area installation, with IP66 housing made of painted stainless steel, was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression.

These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5 way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves
- Solenoid - Solenoid Valves
- Solenoid valves with self-locking manual reset.
- Solenoid valves with reverse self-locking manual reset.

All solenoid valves have 1/4 NPT connections and maximum flow rates of 1,000 NI/min.

The main feature of each of these elements is the extreme flexibility that allows for single mounting or assembling individual modules together through the use of appropriate flanges to create complete groups, thanks to the compactness and ease of installation of the system.

### Construction features

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) <b>(Available on request)</b>

### Terms of use

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 <b>Available on request</b> )
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

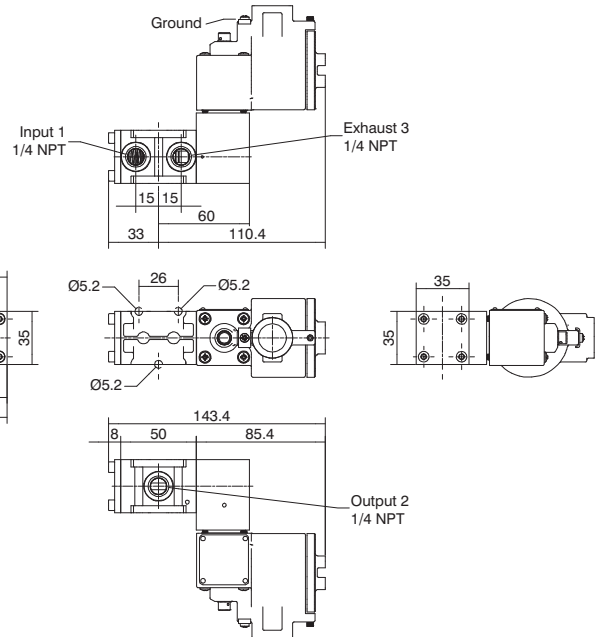
3/2

Ordering code

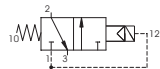
**SS1432CA101L**

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

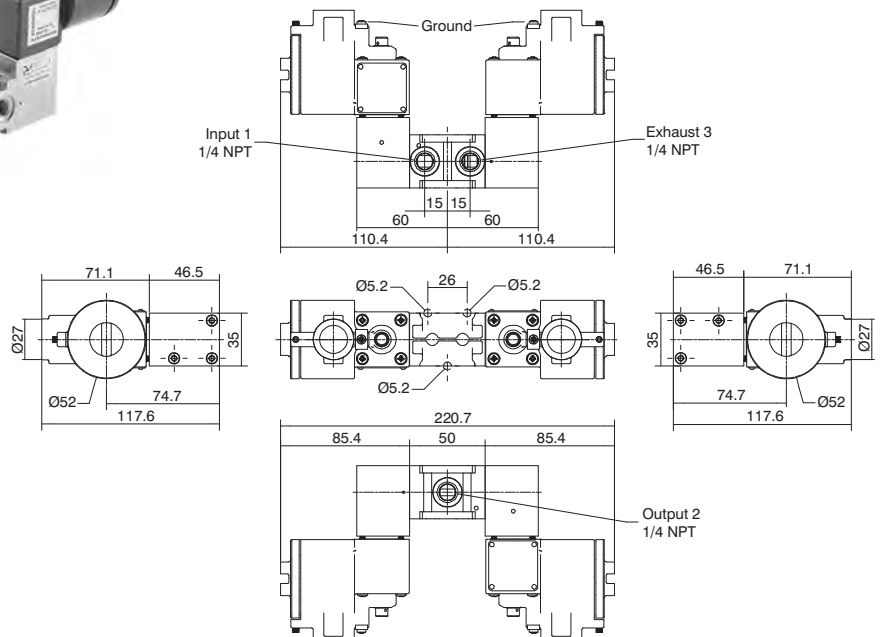
3/2

Ordering code

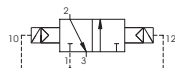
**SS1432CA101L**

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

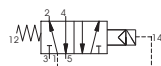
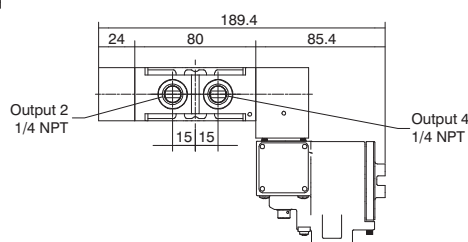
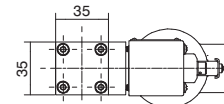
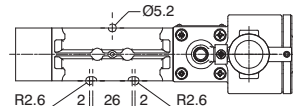
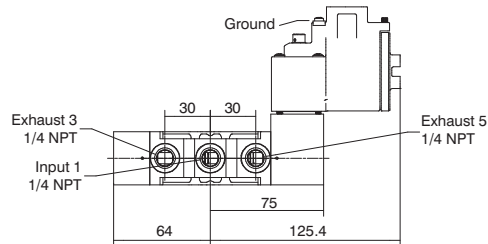
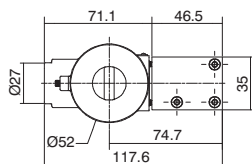
5/2

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 $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1800	1,02	15,15

### Solenoid - Solenoid Valve

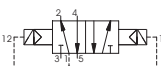
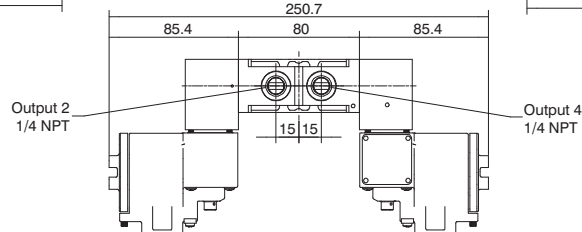
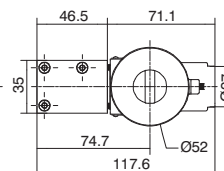
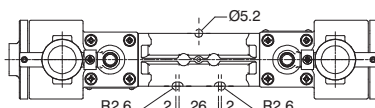
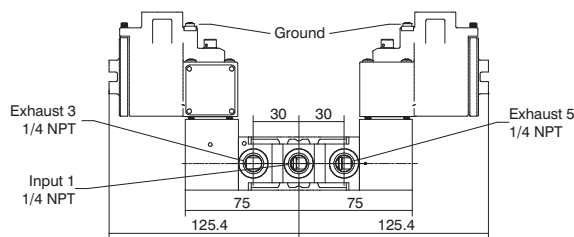
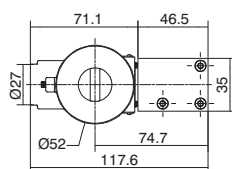
5/2

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 $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	2750	1,02	15,15

Solenoid valves with self-locking manual reset

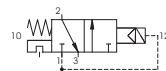
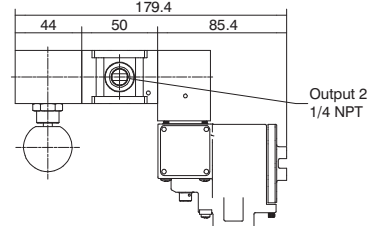
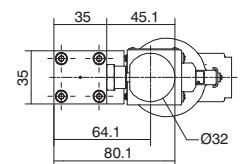
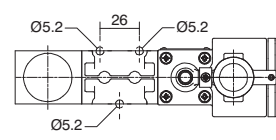
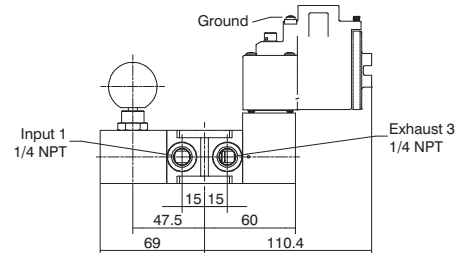
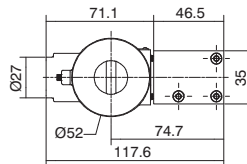
3/2

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

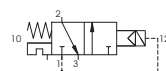
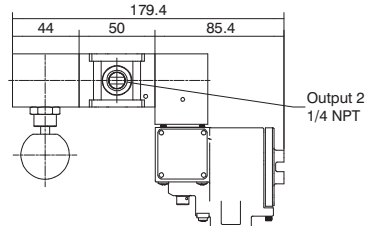
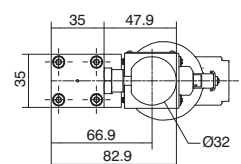
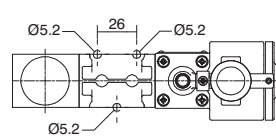
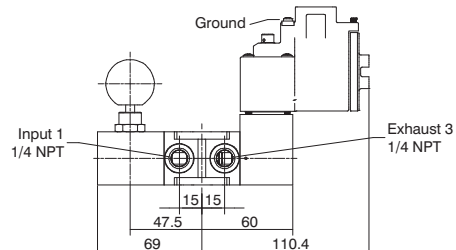
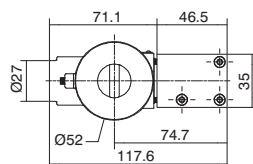
3/2

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

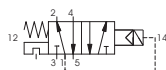
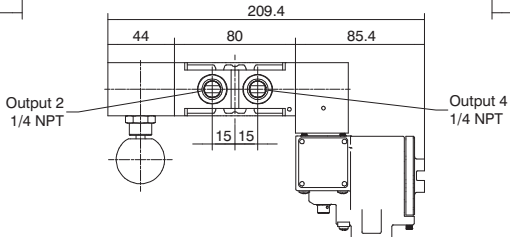
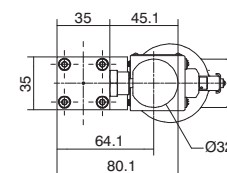
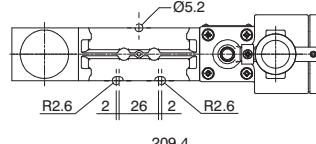
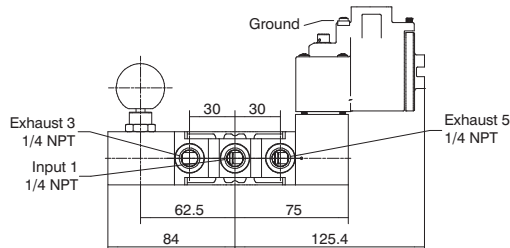
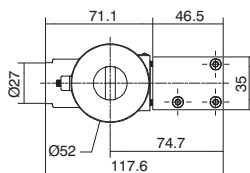
5/2

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

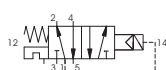
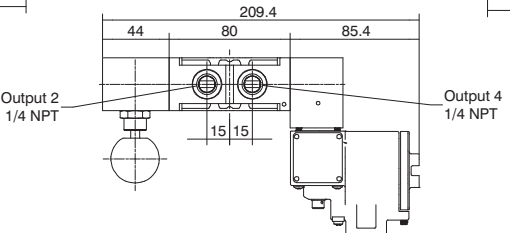
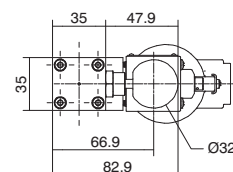
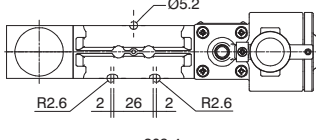
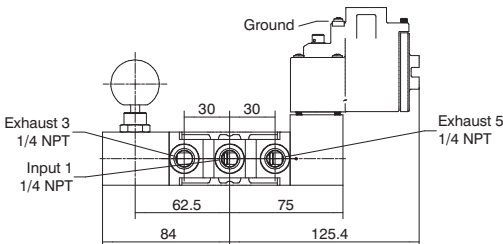
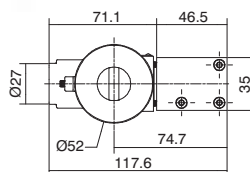
5/2

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



## Solenoid valves, 1/4 NPT - IP66 Exd Explosion protection

The new range of stainless steel solenoid valves, combined with a series of explosion proof pilots with IP66 housing made of painted stainless steel, was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression.

These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5 way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves.
- Solenoid - Solenoid Valves.
- Solenoid valves with self-locking manual reset.
- Solenoid valves with reverse self-locking manual reset.

All solenoid valves have 1/4 NPT connections and maximum flow rates of 1,000 NI/min.

The main feature of each of these elements is the extreme flexibility that allows for single mounting or assembling individual modules together, through the use of appropriate flanges to create complete groups, thanks to the compactness and ease of installation of the system.

### Construction features

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) <b>(Available on request)</b>

### Terms of use

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 <b>Available on request</b> )
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

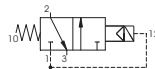
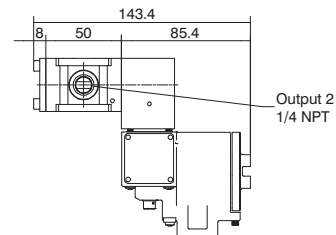
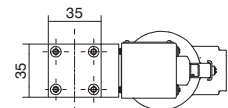
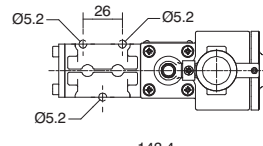
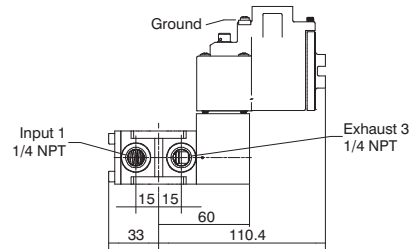
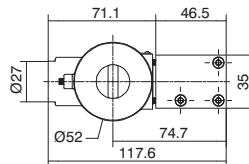
**SS1432CB101L**

#### 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

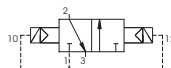
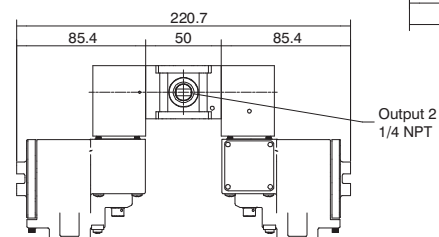
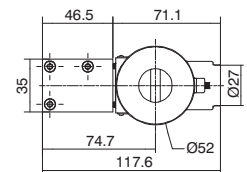
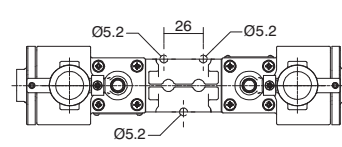
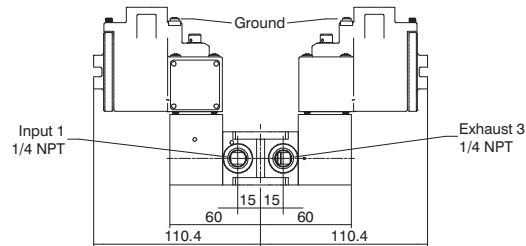
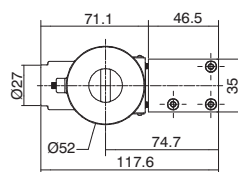
**SS1432CB101L**

#### 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

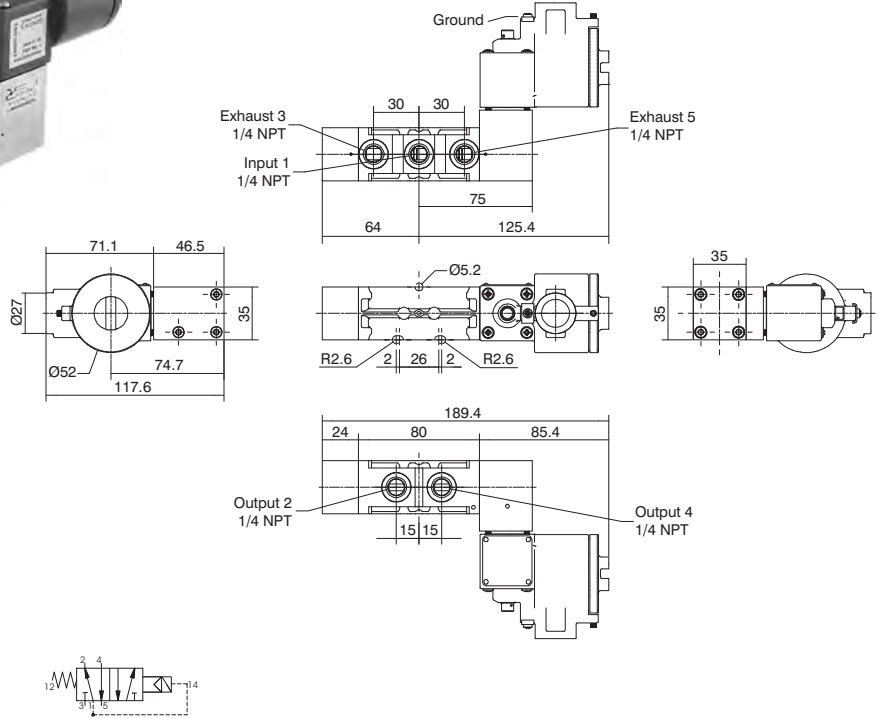
5/2

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

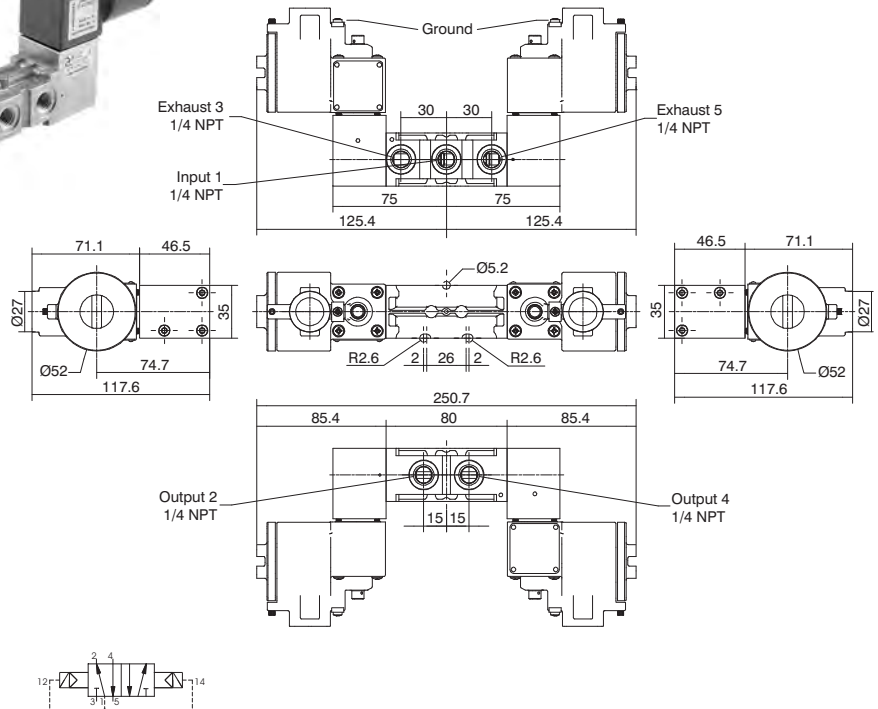
5/2

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

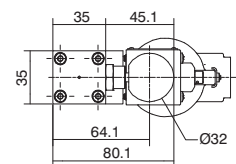
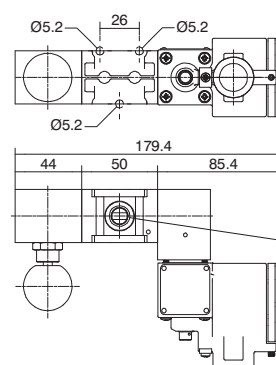
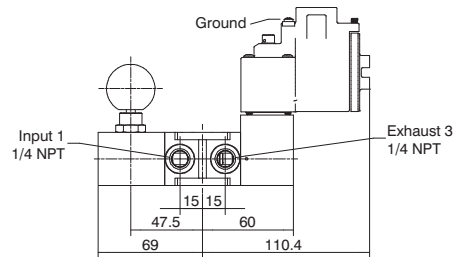
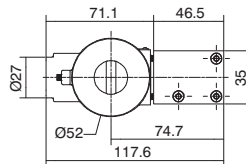
3/2

#### Ordering code

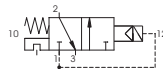
**SS1432CB114L**

#### 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

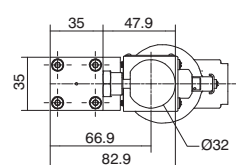
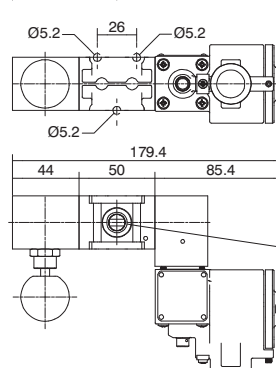
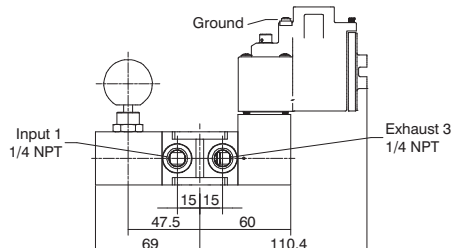
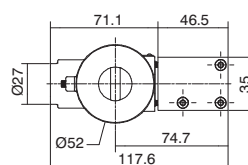
3/2

#### Ordering code

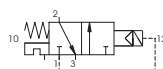
**SS1432CB115L**

#### 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

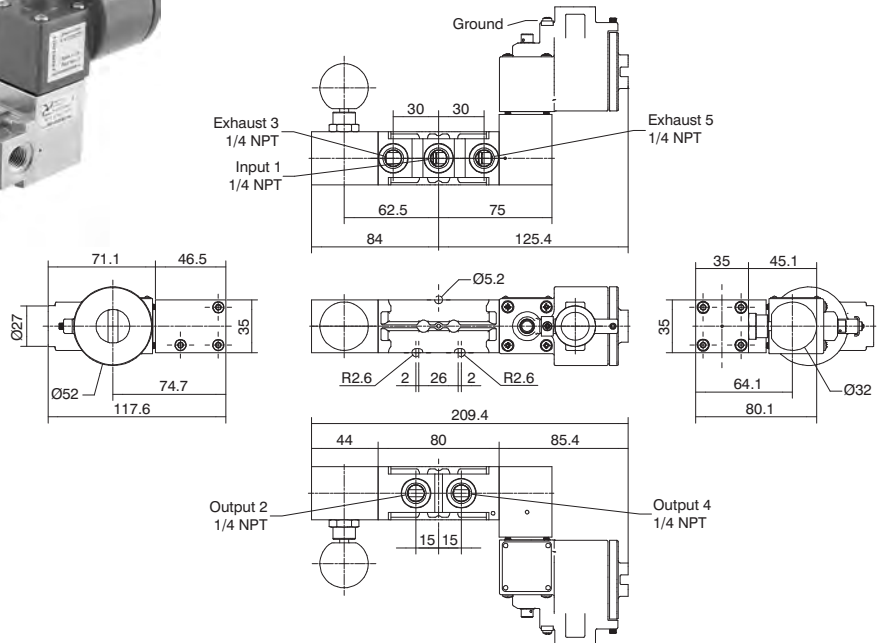
5/2

Ordering code

**SS14520B14L**

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	2000	1,02	15,15

Solenoid valves with self-locking manual reset inverted

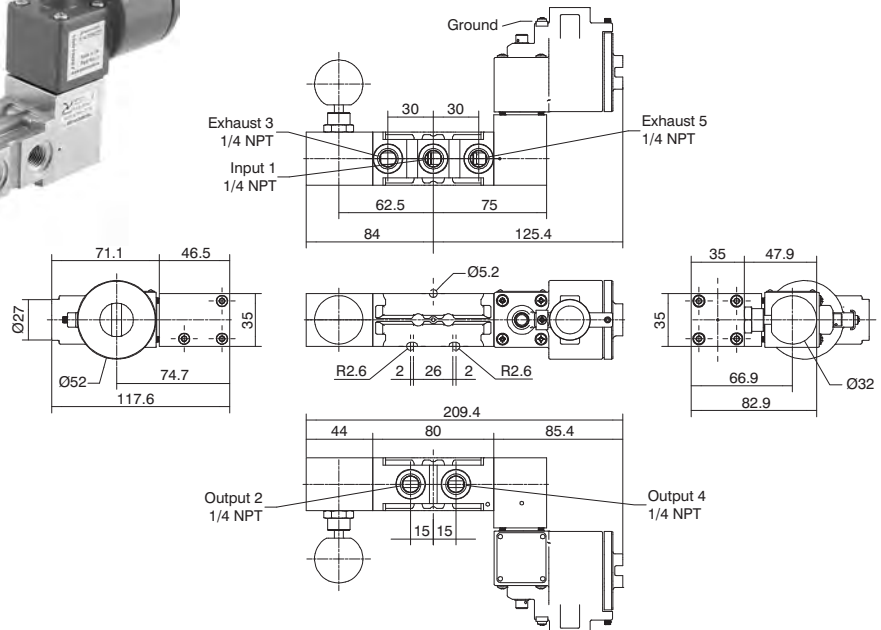
5/2

Ordering code

**SS14520B15L**

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	2000	1,02	15,15



## Solenoid valves, 1/4 NPT – Intrinsically safe Exia

The new range of stainless steel solenoid valves, combined with a series of intrinsically safe pilots was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression. These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ISO 15156-1.**

The range includes solenoid valves with 3 and 5-way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves.
- Solenoid - Solenoid Valves.
- Solenoid valves with self-locking manual reset.
- Solenoid valves with reverse self-locking manual reset.

All solenoid valves have 1/4 NPT connections and maximum flow rates of 1,000 NI/min.

The main feature of each of these elements is the extreme flexibility that allows for single mounting or assembling individual modules together, through the use of appropriate flanges to create complete groups, thanks to the compactness and ease of installation of the system.

### Construction features

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) <b>(Available on request)</b>

### Terms of use

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

U <sub>max</sub> : in	31 V DC
I <sub>max</sub> :	0,67 A
W <sub>max</sub> : in	2,98 W

### Certifications available:



ATEX **CE** II 2 GD c IIC  
 : II 2G Ex h IIC Gb  
 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.

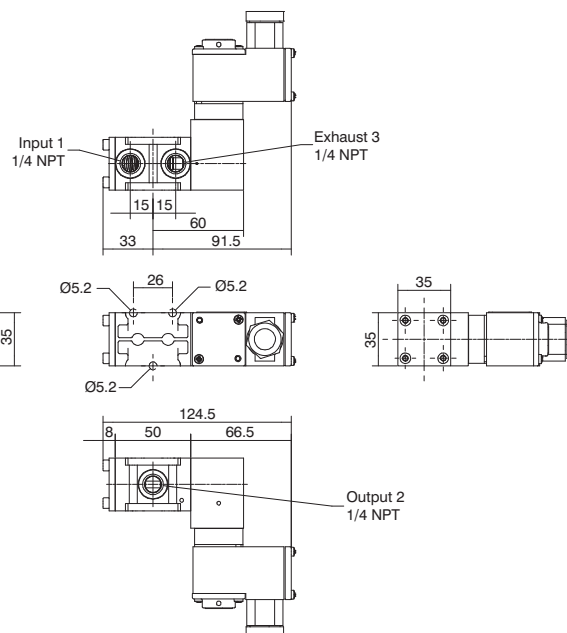
### Solenoid - Spring Valve

3/2

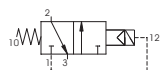
Ordering code

**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

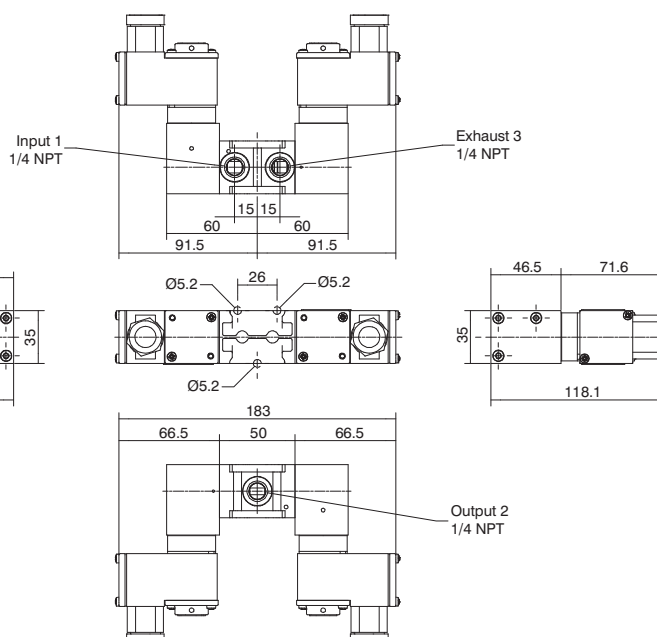
### Solenoid - Solenoid Valve

3/2

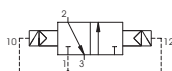
Ordering code

**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

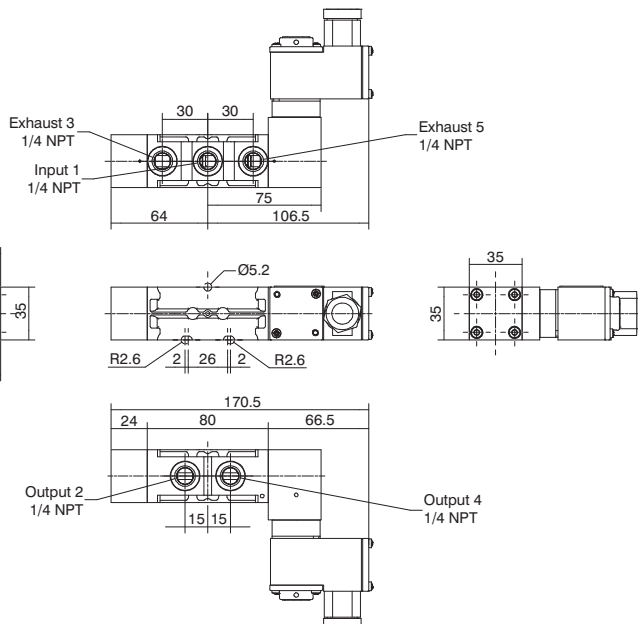
5/2

Ordering code

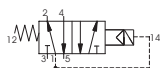
SS14520C101L

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

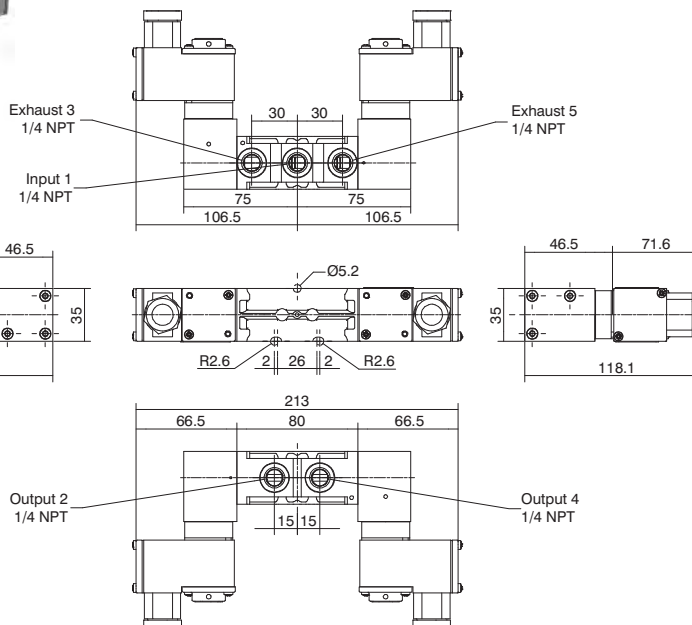
5/2

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



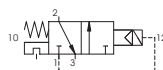
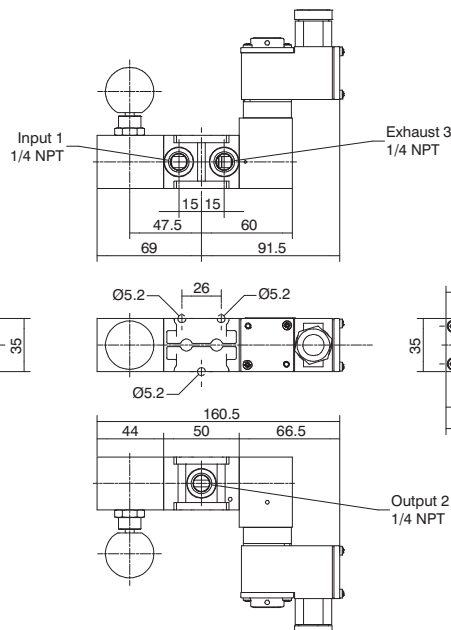
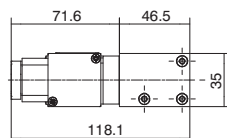
Solenoid valves with self-locking manual reset

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	1000	1/4 NPT	1550	1,02	15,15

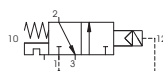
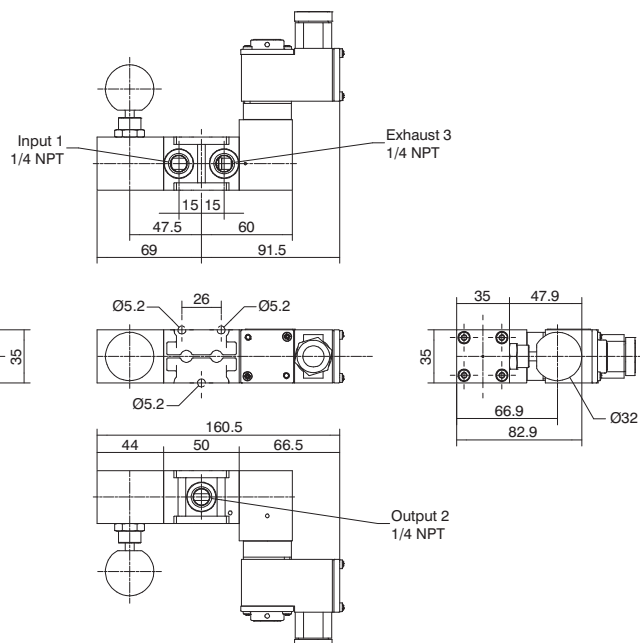
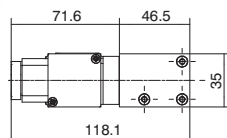
Solenoid valves with self-locking manual reset inverted

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 $\Delta p=1$ (NI/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

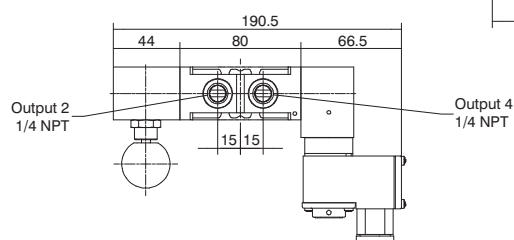
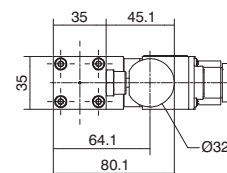
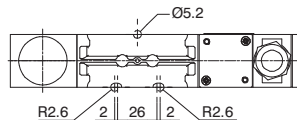
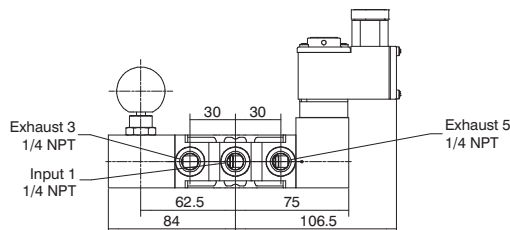
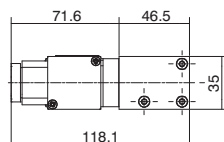
5/2

Ordering code

**SS14520C114L**

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

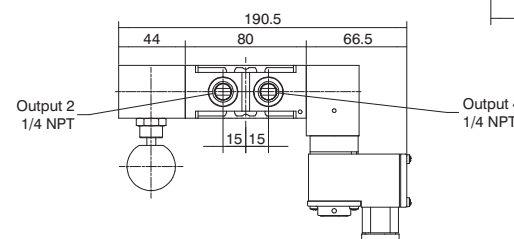
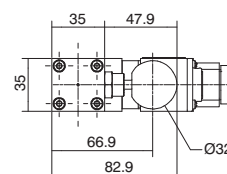
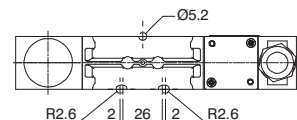
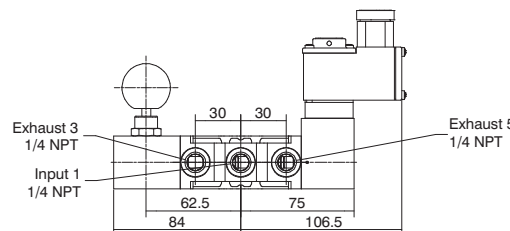
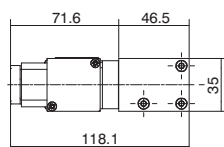
5/2

Ordering code

**SS14520C115L**

VOLTAGE

1 = 24 V DC 33 mA



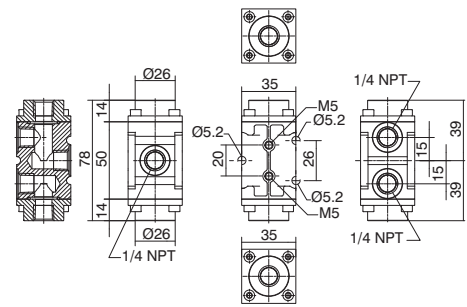
Minimum piloting pressure 2.5 bar  
Fluid: Air, Inert Gas, Sweet gas (natural)  
Filtered, lubricated or non-lubricated.  
When lubricated, lubrication must be continued.

#### 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
<b>SS14T200T</b>
TYPE
T L = Low temperature version
H = High temperature version



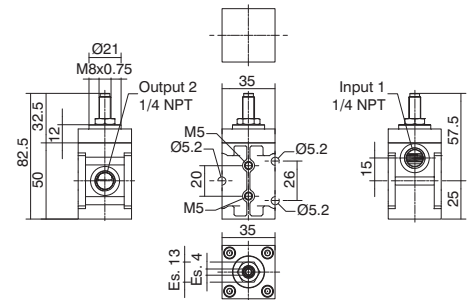
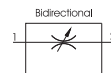
Different types of dividers  
available on request

### 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
<b>SS14RF0T</b>
FUNCTION
F U = Unidirectional
B = Bidirezionale
TYPE
T L = Versione bassa temperatura
H = Versione alta temperatura

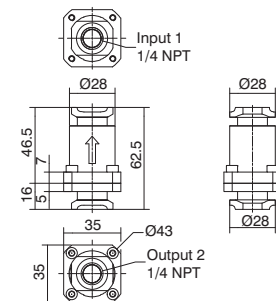
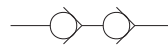


### Operational characteristics

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
<b>SS14VUS0T</b>
TYPE
T L = Low temperature version
H = High temperature version

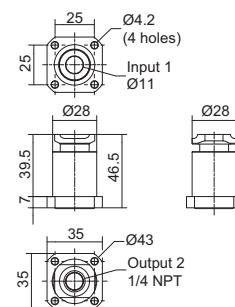
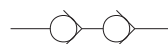


### Operational characteristics

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
<b>SS14VUG0T</b>
TYPE
T L = Low temperature version
H = High temperature version



### Operational characteristics

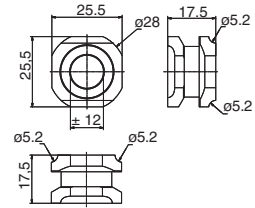
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	1400	1/4 NPT	150	1,42	21,21



#### Adapter for 90°

Ordering code

**SS1490**



#### Operational characteristics

Weight (gr.)

45

#### Seal OR 2,62 x 13,95

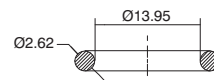
Ordering code

**SS14D<sup>T</sup>**

TYPE

L = Low temperature version

H = High temperature version



100-piece pack

#### Operational characteristics

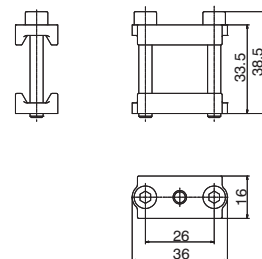
Weight (gr.)

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

#### Operational characteristics

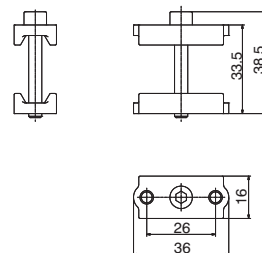
Weight (gr.)

55

#### Mounting kit "B"

Ordering code

**SS14B**






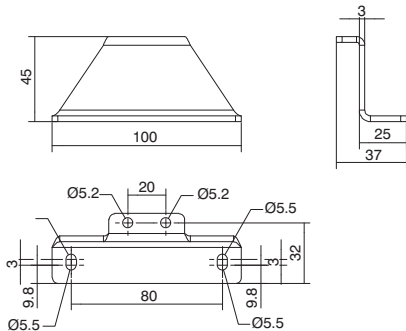
Kit includes:  
Nr. 1 Front flange  
Nr. 1 Threaded rear flange  
Nr. 1 Screw M5x35 AISI 316

#### Operational characteristics

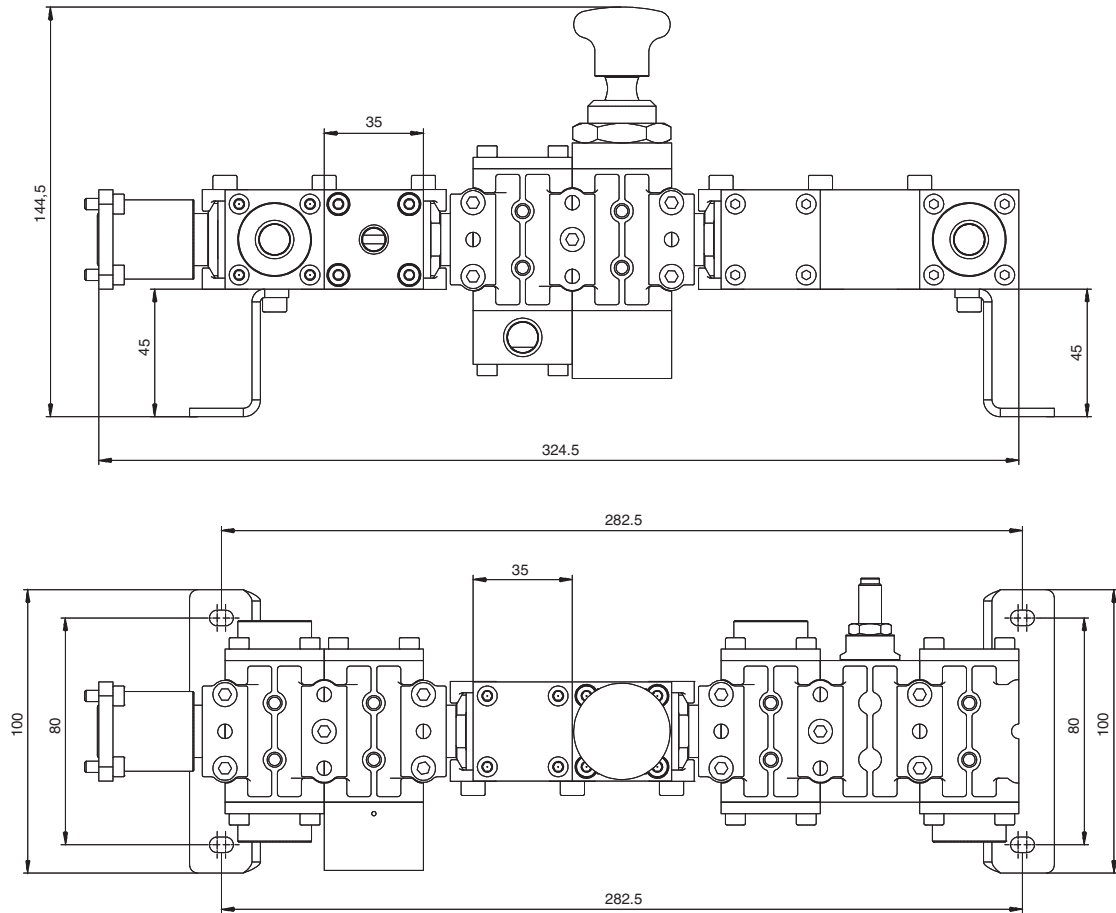
Weight (gr.)

48

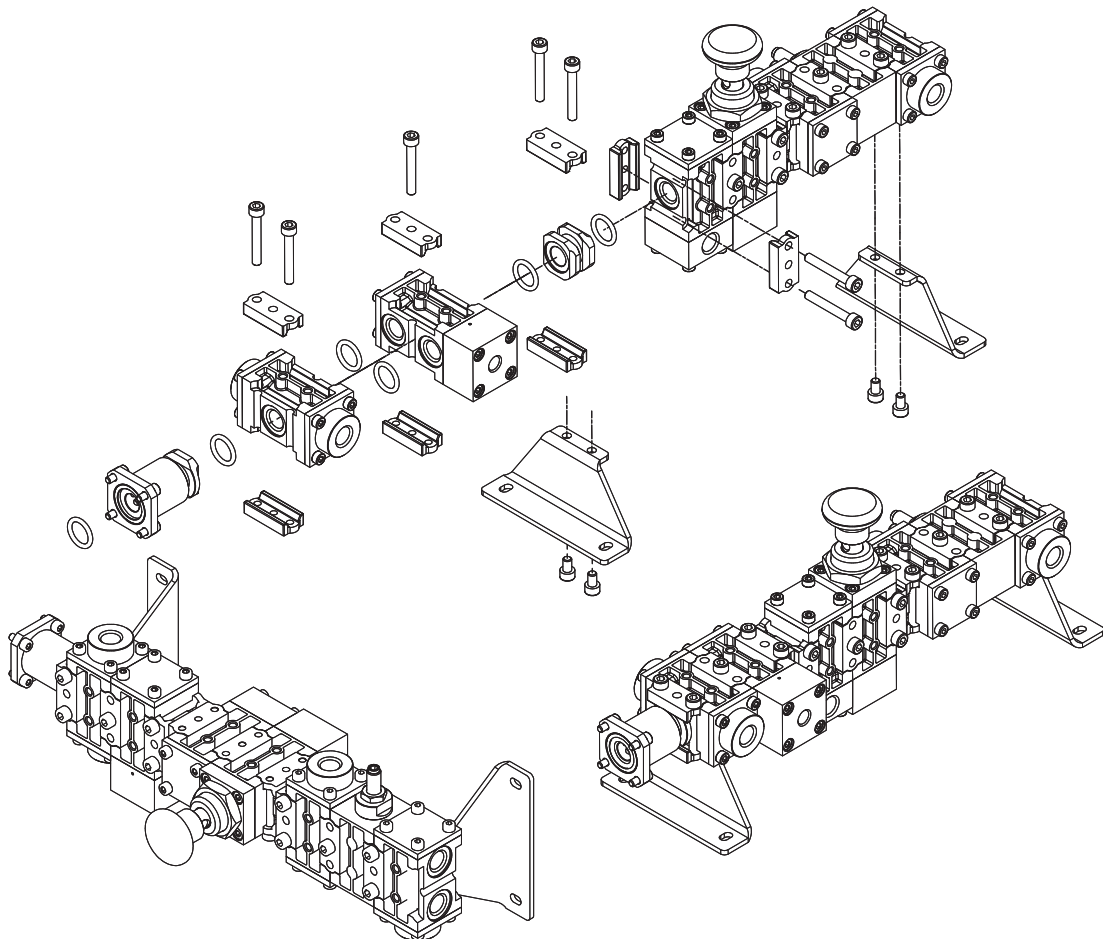
Single deployment flange		
Ordering code		
SS14C		
Kit includes: Nr. 1 Single deployment Flange Nr. 3 Screws M5x40 AISI 316 Nr. 2 Screws M5x8 AISI 316		
Operational characteristics		
Weight (gr.)		
55		

Fixing bracket		
Ordering code		
SS14M5		
Kit includes: Nr. 2 Screws M5x8 AISI 316 Nr. 1 Flange		
Operational characteristics		
Weight (gr.)		
125		

**Example: Manifold system**



**Example: Group assembly scheme**



## Valves, 1/2 NPT

The new series of valves and accessories in A316L stainless steel were created and developed specifically for the Oil & Gas, Petrochemical, Power Generation, Chemical, Pharmaceutical and Food sectors, and for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression. These products are perfectly suited to work with fluids in a gaseous state, whether aggressive in nature or not.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

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

- Pneumatic - Spring Valves
- Pneumatic - Pneumatic Valves
- 2 Position Push - Push Valves
- Push Button - Spring Valves
- Push button - Pneumatic Return Valves
- Pneumatic valves with self-locking manual reset **(only in a 3 way function)**.
- Pneumatic valves with reverse self-locking manual reset **(only in a 3 way function)**.
- Accessories such as: Non return valves, Unidirectional and Bidirectional flow control valves and Quick exhaust valves.

All valves have 1/2 NPT connections and maximum flow rates of 3500 NI/min.

**This version only provides single mounting**


Construction features	
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

Terms of use	
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 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



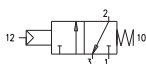
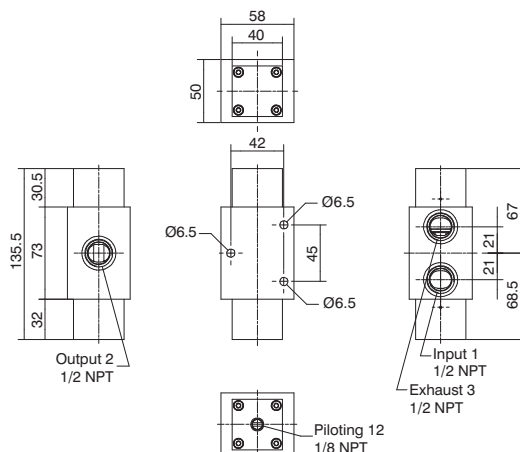
### Pneumatic - Spring Valve

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

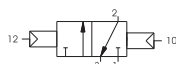
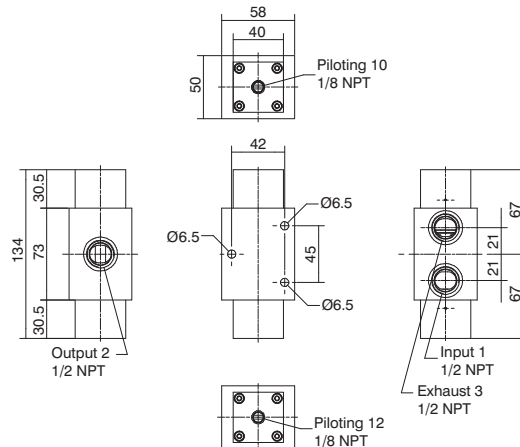
### Pneumatic - Pneumatic Valve

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

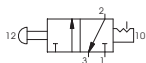
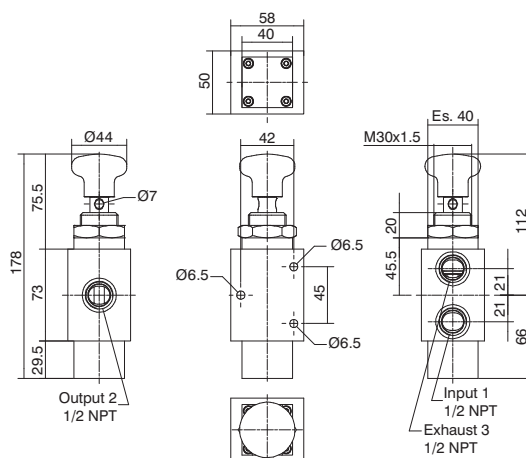
### 2 Position Push-Pull Valve

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

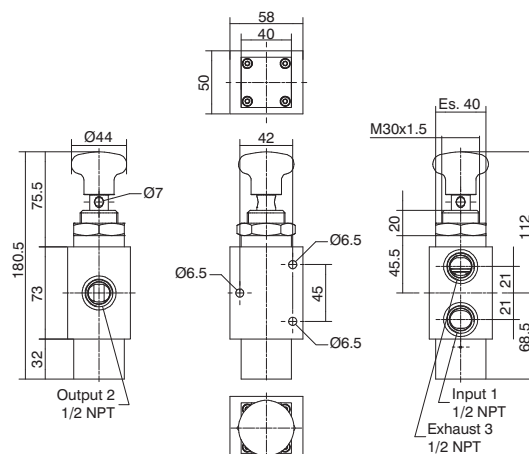
### Push Button - Spring Valve

Ordering code

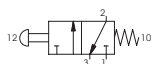
**SS1232C0801**

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

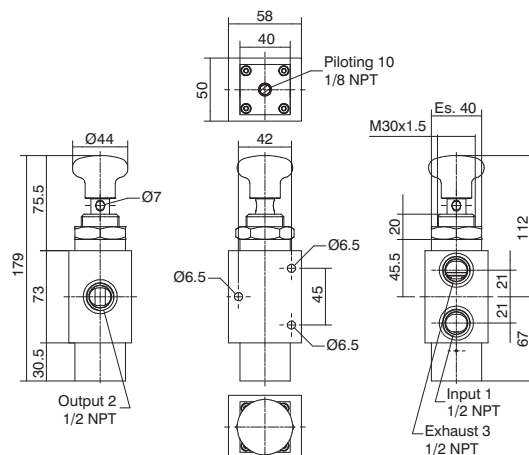
### Push Button - Pneumatic Return Valve

Ordering code

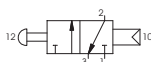
**SS1232C0811**

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

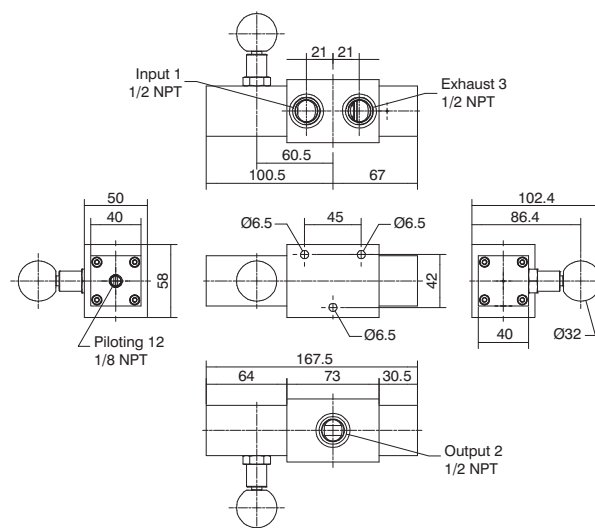
### Pneumatic valve with self-locking manual reset

Ordering code

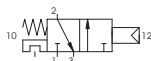
**SS1232C1114**

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**

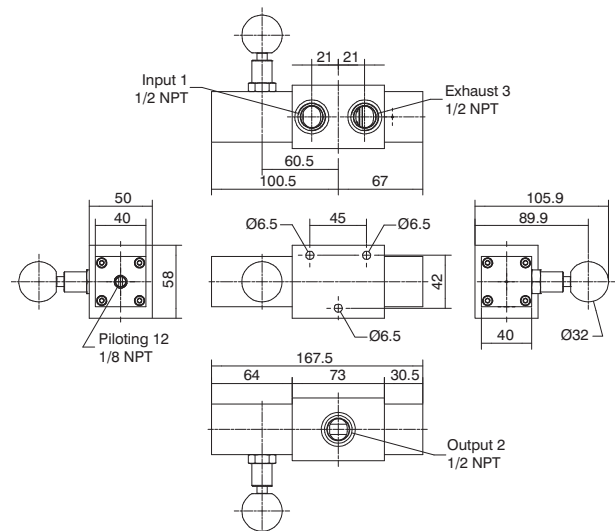
TYPE

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.



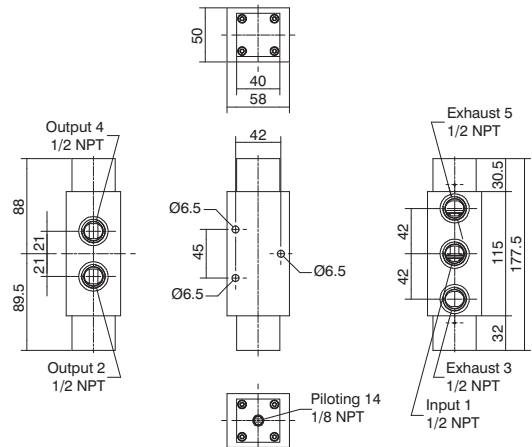
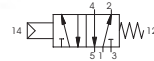
**Operational characteristics**

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



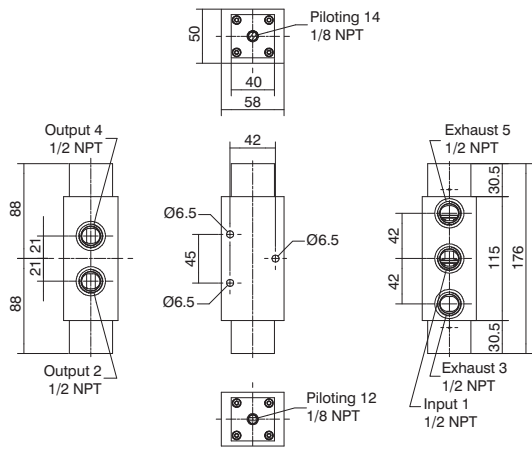
Minimum piloting pressure 3 bar  
Fluid: Air, Inert Gas, Sweet gas (natural)  
Filtered, lubricated or non-lubricated.  
When lubricated, lubrication must be continued.

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



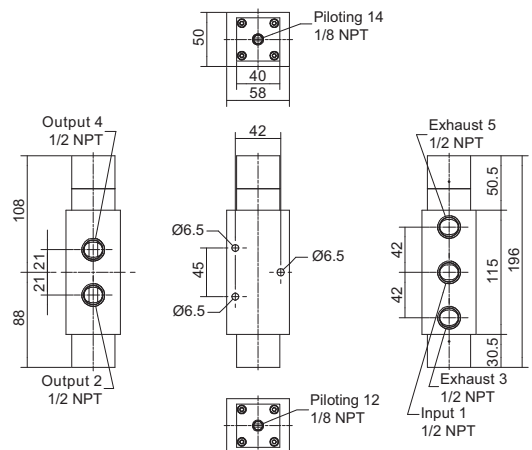
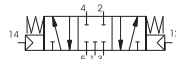
Minimum piloting pressure 3 bar  
Fluid: Air, Inert Gas, Sweet gas (natural)  
Filtered, lubricated or non-lubricated.  
When lubricated, lubrication must be continued.

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





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

The new range of stainless steel solenoid valves, combined with a series of pilots for a safe area installation, with IP66 housing made of painted stainless steel, was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression.

These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5 way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves
- Solenoid - Solenoid Valves
- Solenoid valves with self-locking manual reset **(only in a 3 way function)**.
- Solenoid valves with reverse self-locking manual reset **(only in a 3 way function)**.

All solenoid valves have 1/2 NPT connections and maximum flow rates of 3500 NI/min.

Construction features	
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) <b>(Available on request)</b>

Terms of use	
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 <b>Available on request</b> )
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

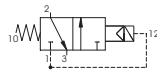
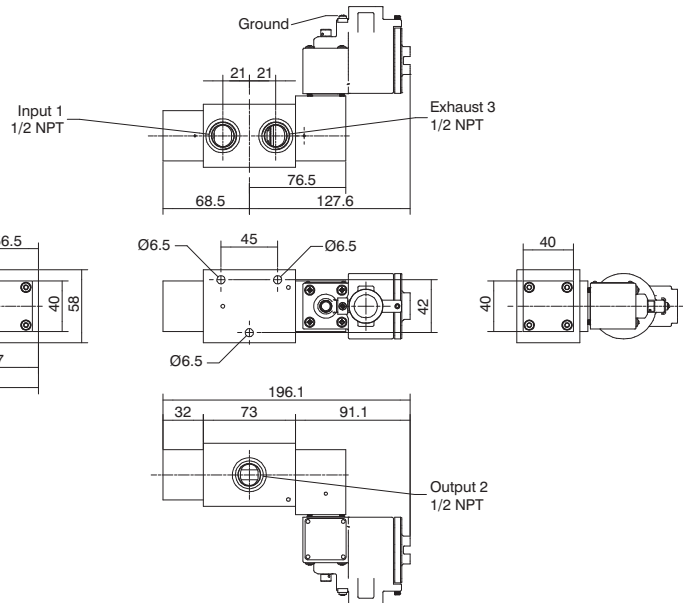
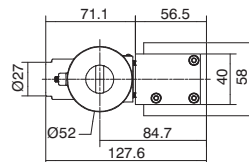
3/2

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

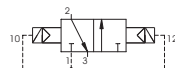
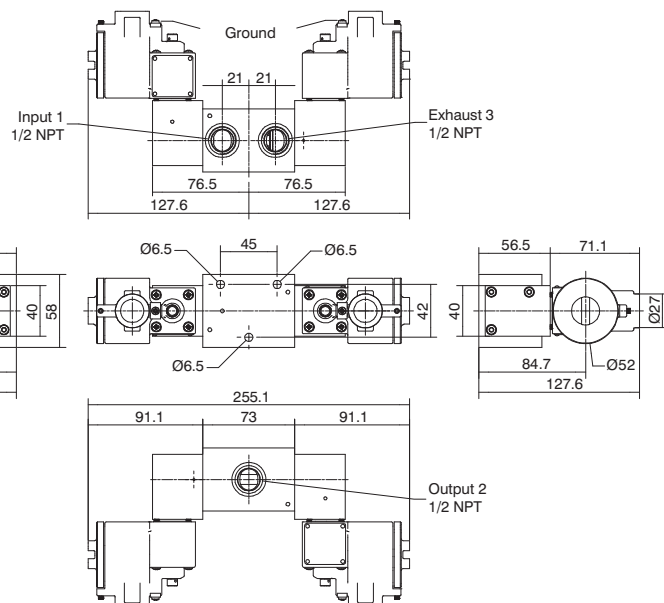
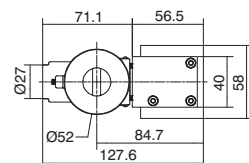
3/2

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



5/2

Ordering code

SS12520A**T**01L

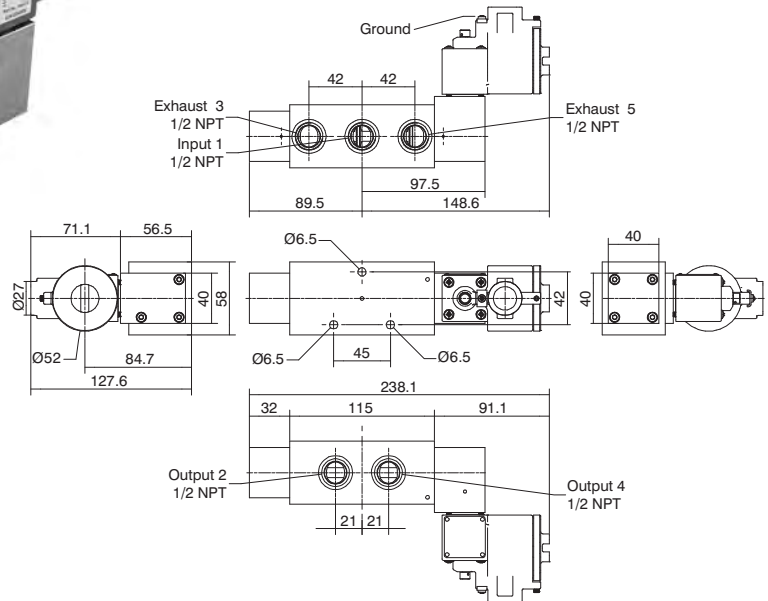
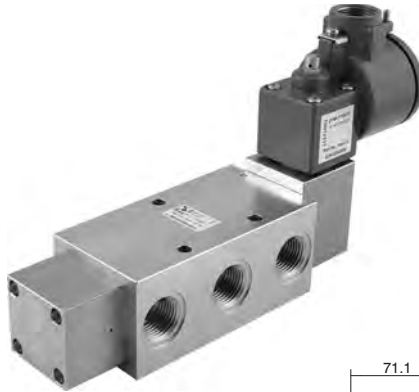
VOLTAGE

1 = 24 V DC

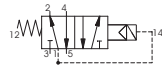
2 = 24 V AC (50/60 Hz)

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 $\Delta p=1$ (l/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3679	3,55	53,03

5/2

Ordering code

SS12520AⓅAⓅL

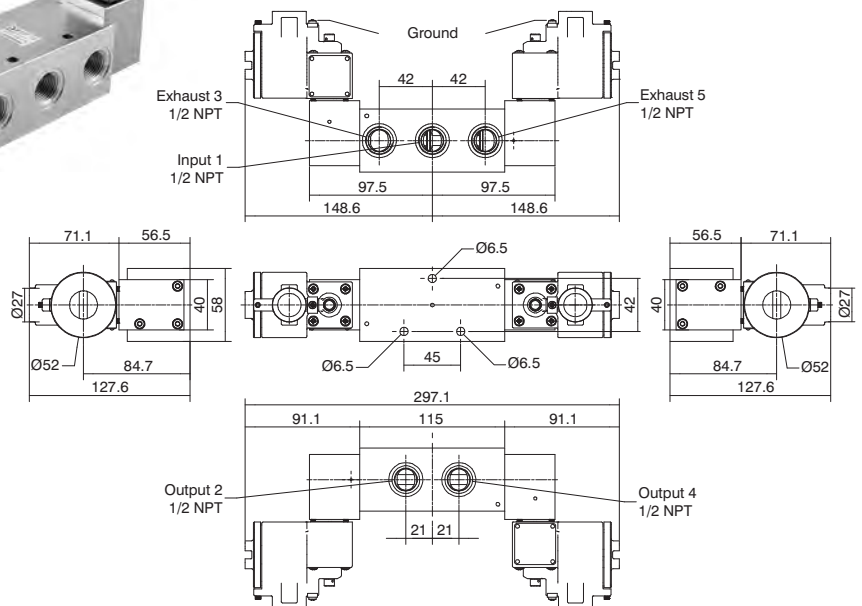
VOLTAGE	
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1 = 24 V DC

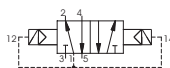
2 = 24 V AC (50/60 Hz)

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 $\Delta p=1$ (l/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

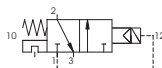
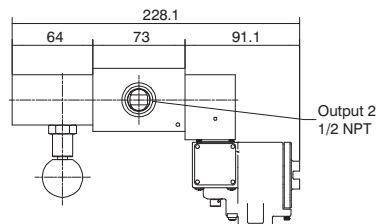
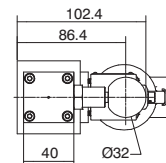
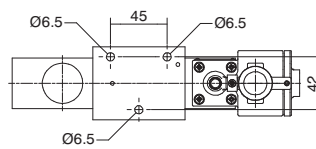
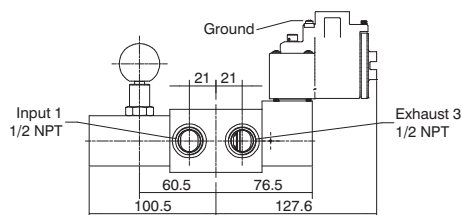
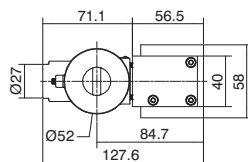
3/2

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3358	3,55	53,03

### Solenoid valves with self-locking manual reset inverted

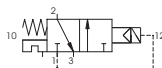
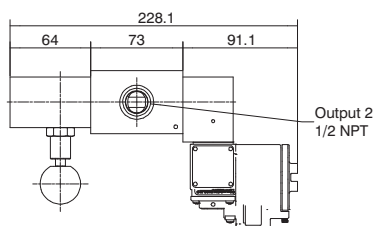
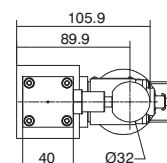
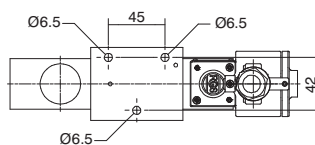
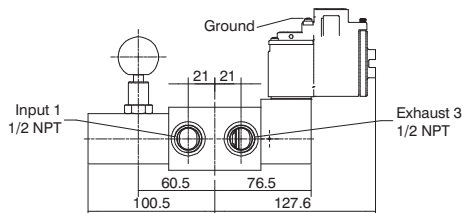
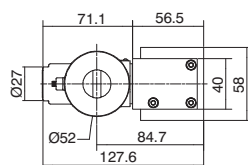
3/2

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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3360	3,55	53,03



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

The new range of stainless steel solenoid valves, combined with a series of explosion proof pilots with IP66 housing made of painted stainless steel, was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression.

These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5 way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves.
- Solenoid - Solenoid Valves.
- Solenoid valves with self-locking manual reset **(only in a 3 way function)**.
- Solenoid valves with reverse self-locking manual reset **(only in a 3 way function)**.

All solenoid valves have 1/2 NPT connections and maximum flow rates of 3500 NI/min.

**This version only provides single mounting**

### Construction features

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) <b>(Available on request)</b>

### Terms of use

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 <b>Available on request</b> )
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, 1/2 NPT – IP66 Exd Explosion protection

### Solenoid - Spring Valve

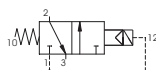
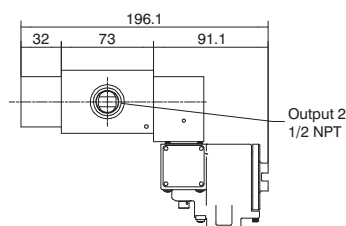
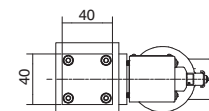
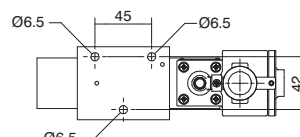
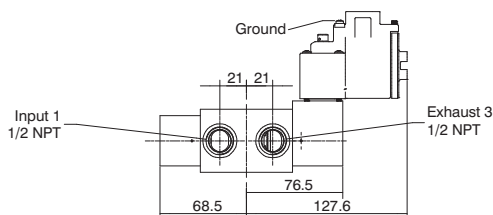
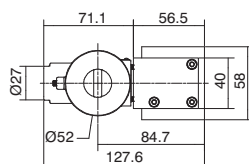
3/2

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

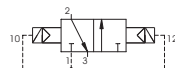
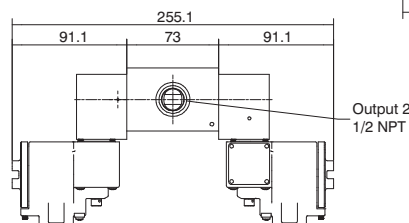
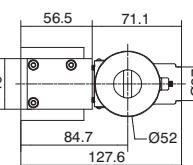
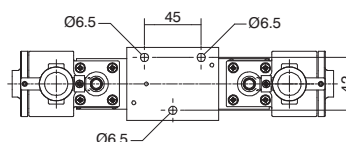
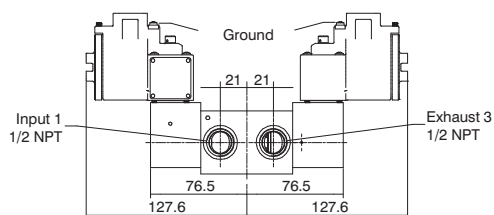
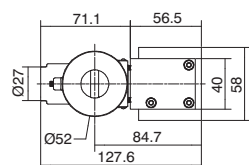
3/2

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

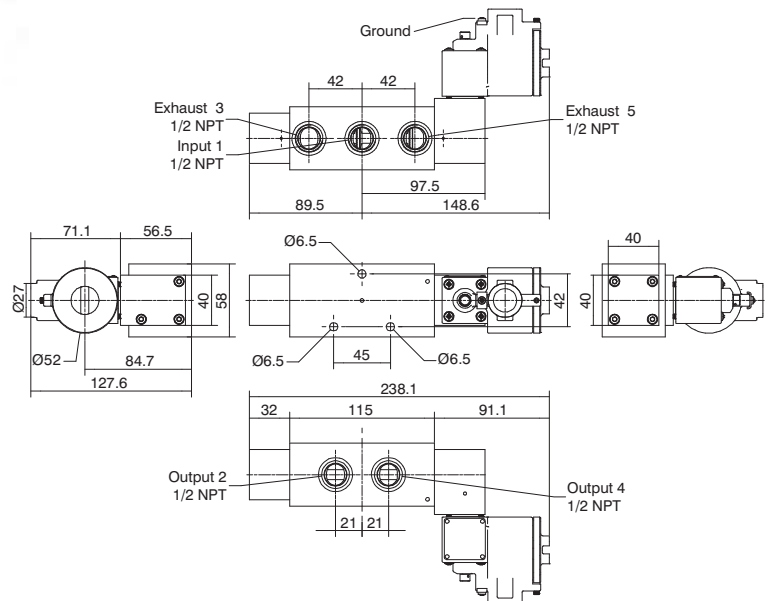
5/2

Ordering code

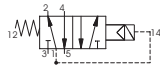
**SS12520B101L**

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

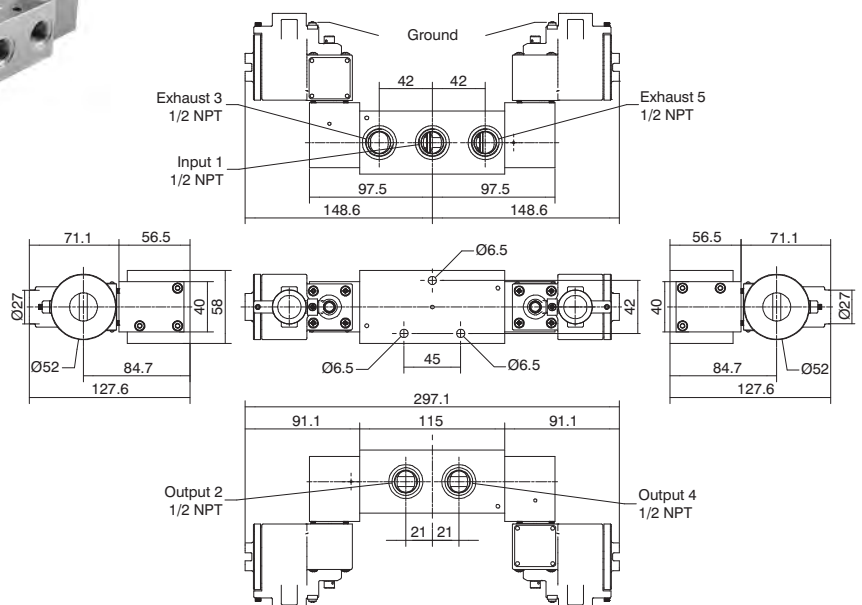
5/2

Ordering code

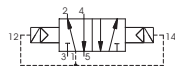
**SS12520B101L**

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

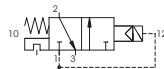
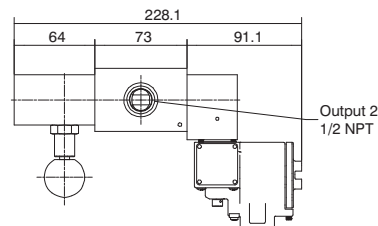
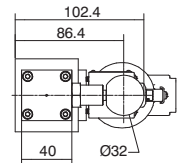
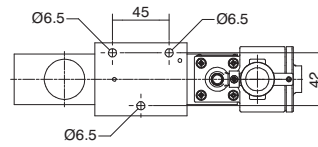
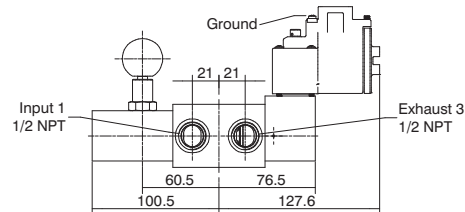
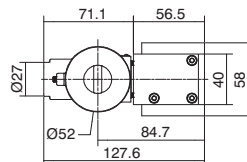
**SS1232CB114L**

#### 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 $\Delta p=1$ (NI/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

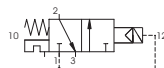
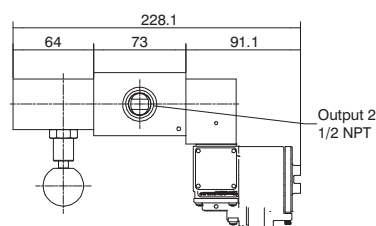
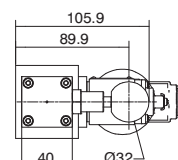
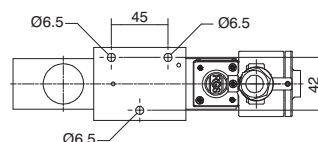
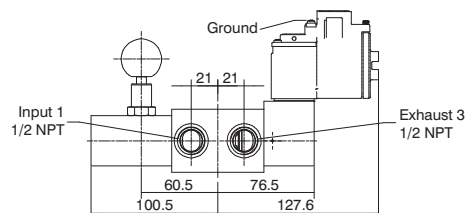
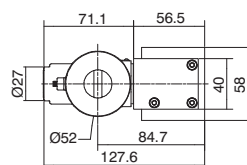
**SS1232CB115L**

#### 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 $\Delta p=1$ (NI/min)	Connections	Weight (gr.)	Cv	kv
10	3500	1/2 NPT	3360	3,55	53,03



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

The new range of stainless steel solenoid valves, combined with a series of intrinsically safe pilots was **CE** marked, created and developed for all applications that require excellent corrosion resistance because of chemical and/or environmental aggression. These products are perfectly suited to work with compressed air and gas.

**All external and internal parts are made of AISI 316L stainless steel in conformity to NACE standard MR0175/ ISO 15156-1.**

The range includes solenoid valves with 3 and 5-way functions, with self-powered solenoids in the following versions:

- Solenoid - Spring Valves.
- Solenoid - Solenoid Valves.
- Solenoid valves with self-locking manual reset.
- Solenoid valves with reverse self-locking manual reset.

All solenoid valves have 1/2 NPT connections and maximum flow rates of 3500 NI/min.

**This version only provides single mounting**

Construction features	
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) <b>(Available on request)</b>

Terms of use	
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	
U <sub>max</sub> : in	31 V DC
I <sub>max</sub> :	0,67 A
W <sub>max</sub> : 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**

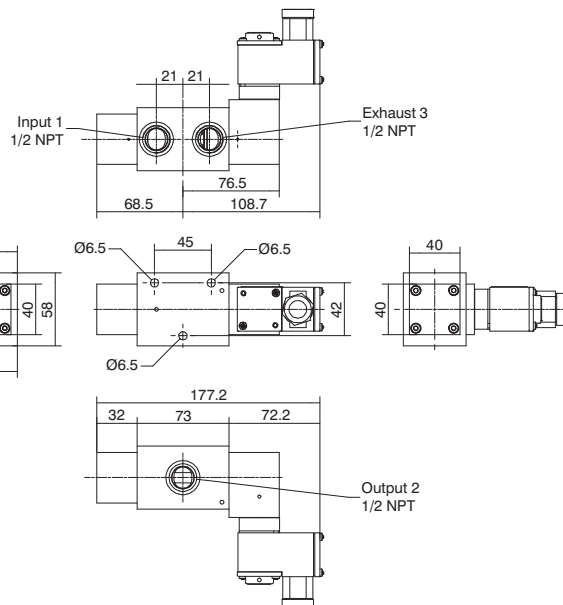
3/2

Ordering code

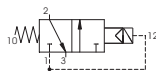
**SS1232CC001L**

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**

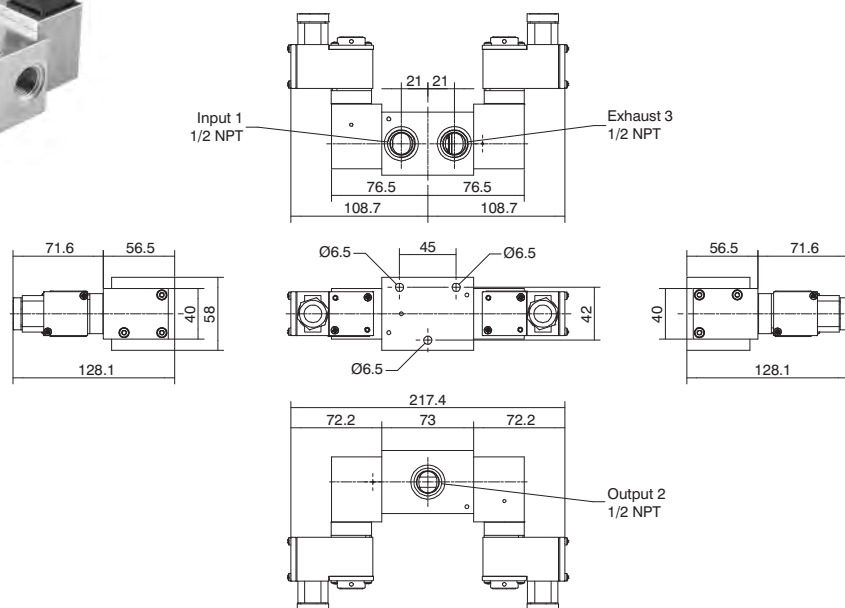
3/2

Ordering code

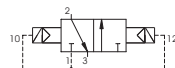
**SS1232CC001L**

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

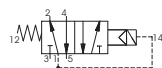
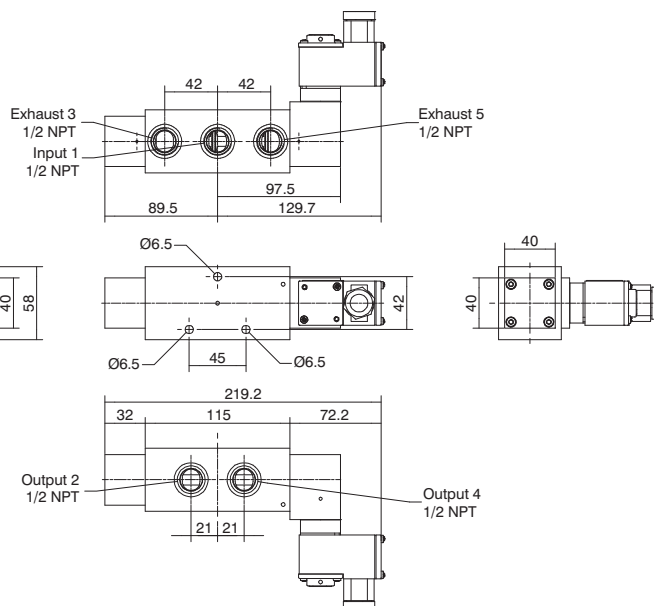
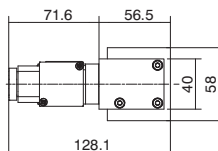
# Solenoid - Spring Valve

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

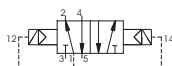
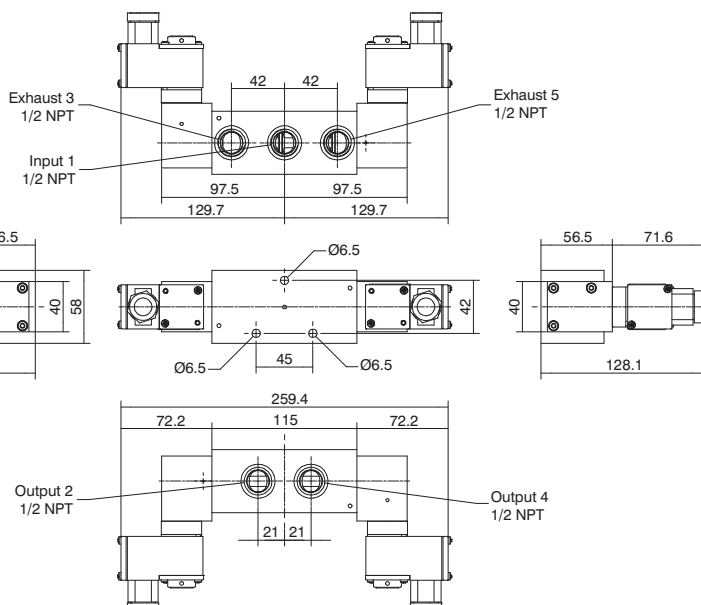
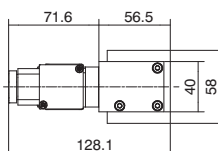
# Solenoid - Solenoid Valve

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

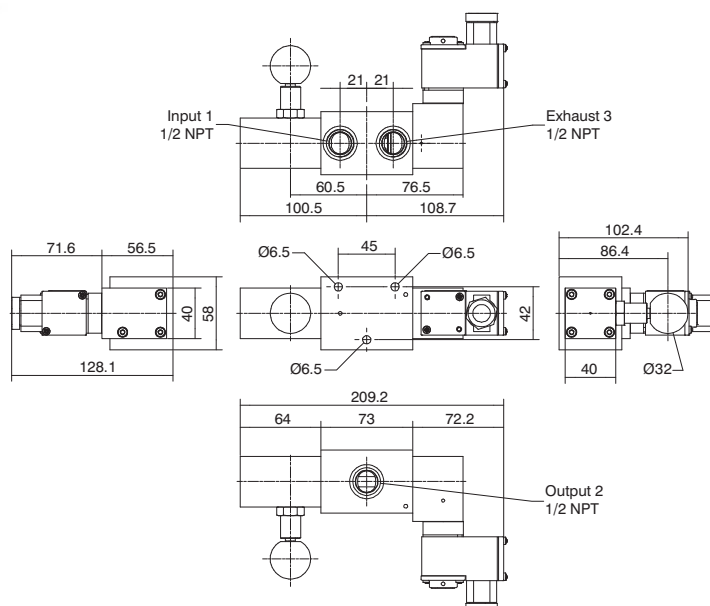
3/2

Ordering code

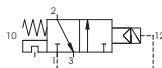
**SS1232CC114L**

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

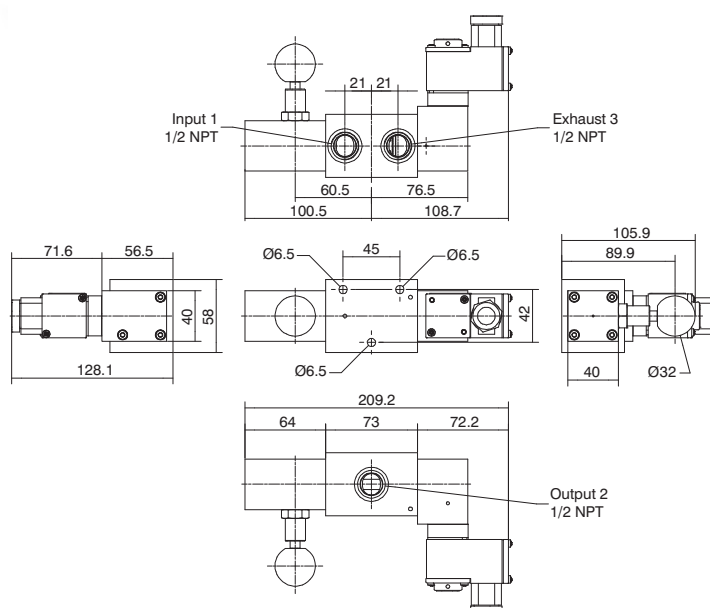
3/2

Ordering code

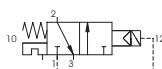
**SS1232CC115L**

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

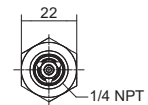
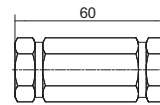




Non return valve 1/4 NPT-F/F AISI 316L HT

Ordering code

**SS14VU03SV4N**



Weight gr. 107



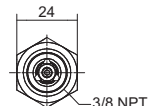
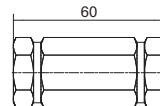
**Operational characteristics**

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



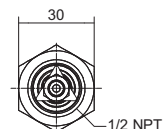
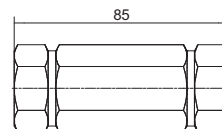
**Operational characteristics**

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

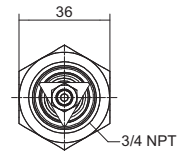
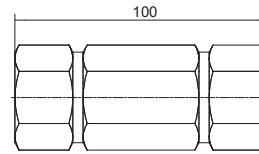


**Operational characteristics**

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**

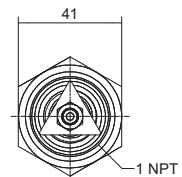
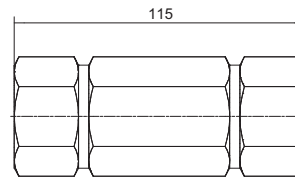
Weight gr. 577

**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<sup>F</sup>T**

FUNCTION

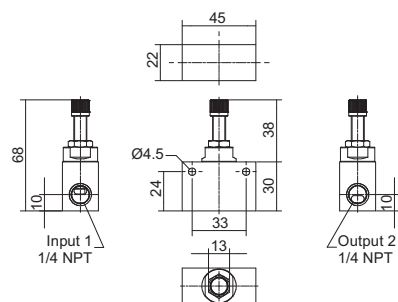
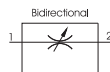
U = Unidirectional

B = Bidirezionale

TYPE

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<sup>F</sup>T**

FUNCTION

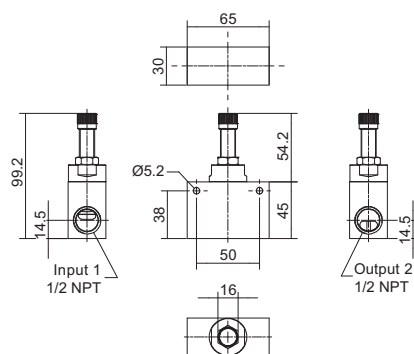
U = Unidirectional

B = Bidirezionale

TYPE

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<sup>T</sup>**

FUNCTION

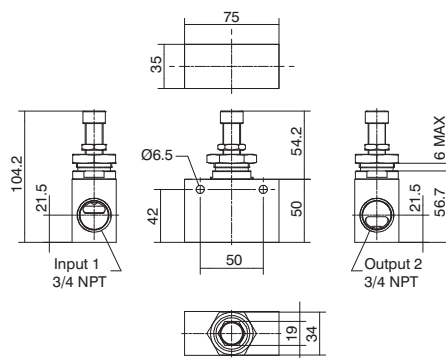
U = Unidirectional

B = Bidirezionale

TYPE

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<sup>T</sup>**

FUNCTION

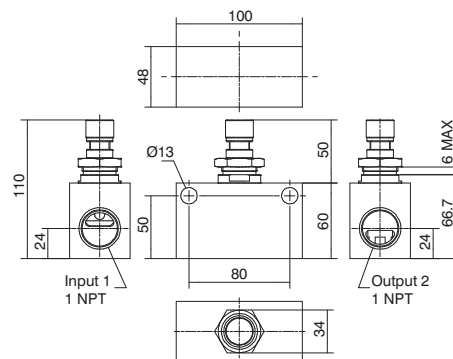
U = Unidirectional

B = Bidirezionale

TYPE

L = Versione bassa temperatura

H = Versione alta temperatura



#### Operational characteristics

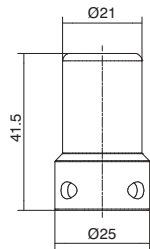
Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Connections	Weight (gr.)	Cv	kv
12	3300	1 NPT	2000	3,35	50,00



Flow regulator system 1/4 NPT tamper-proof system

Ordering code

**SS14RFK**

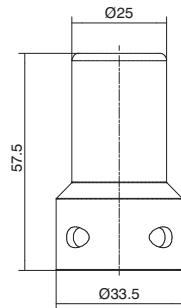


Note: Available for 1/4 NPT Flow regulator  
We suggest to use long shackles Padlocks: Shackle diameter  $\leq 4$   
Padlocks is not supplied with the product.  
Weight gr. 40

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  $\leq 5$   
Padlocks is not supplied with the product.  
Weight gr. 75

### Quick exhaust valve 1/4 NPT

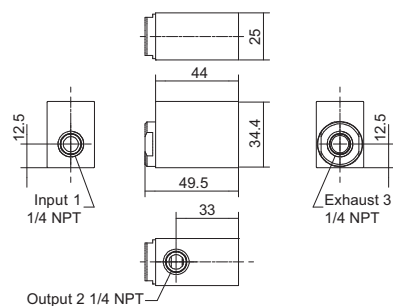
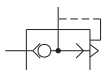
Ordering code

**SS1402SR**

TYPE

L = Low temperature version

H = High temperature version



#### Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (NI/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/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

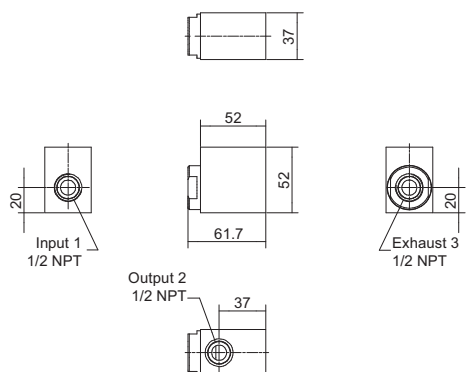
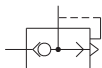
Ordering code

**SS1202SR**

TYPE

L = Low temperature version

H = High temperature version



#### Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (NI/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/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

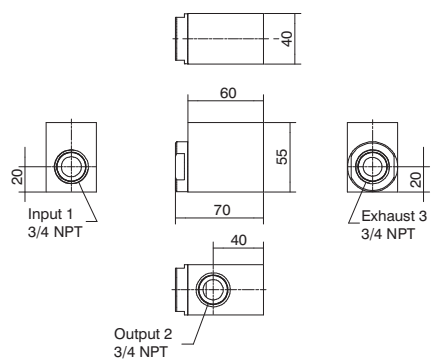
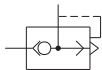
Ordering code

**SS3402SR**

TYPE

L = Low temperature version

H = High temperature version



#### Operational characteristics

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

### Quick exhaust valve 1 NPT

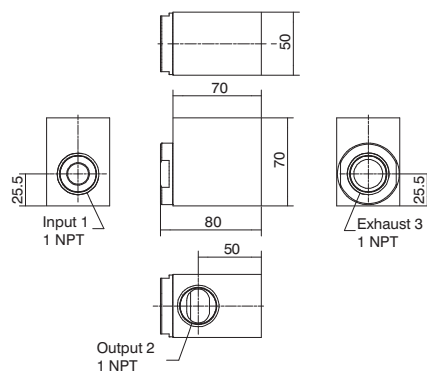
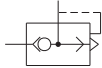
Ordering code

**SS1102SR**

TYPE

L = Low temperature version

H = High temperature version



#### Operational characteristics

Max working pressure (bar)	Inlet flow rate at 6 bar with $\Delta p=1$ (NI/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (NI/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**, leader in the industrial automation world, offers a wide range of solutions and components for the process automation industry. The long-term experience in understanding applications, and the development and production capabilities are guarantees of competence in identifying the correct needs of the customer.

## General

The new aluminium valve series, developed following the latest and most technologically advanced testing and prototyping methodologies, ensure high performances; in case of new plants or retrofiting, the series is wide and able to offer correct solutions for specific needs in various sectors, like chemical, petrochemical, power generation and Oil & Gas.

**All external and internal parts are made in Aluminium**

## The range includes:

Balanced spool valves with 3 and 5 way functions, in the following versions:

- 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 valves, Unidirectional and Bidirectional flow control valves 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

## Construction features

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)

## Terms of use

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   II 2 GD c IIC T5 T100°C

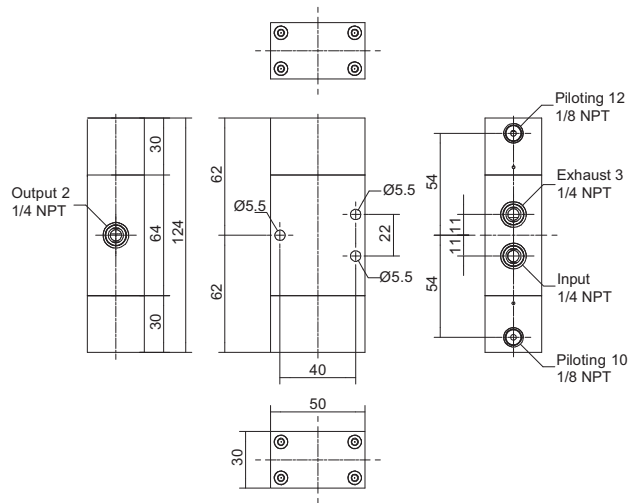
:   II 2G Ex h IIC T5 Gb  
  II 2D Ex h IIC T100°C Db

**Pneumatic-Pneumatic**

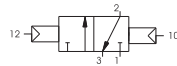
3/2

Ordering code

**SA1432C1111L**



Weight gr. 470  
Minimum piloting pressure 2 bar



**Operational characteristics**

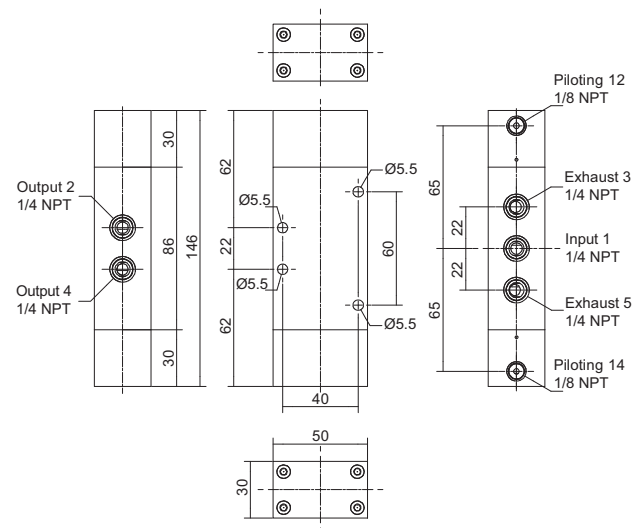
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

**Pneumatic-Pneumatic**

5/2

Ordering code

**SA145201111L**



Weight gr. 550  
Minimum piloting pressure 2 bar



**Operational characteristics**

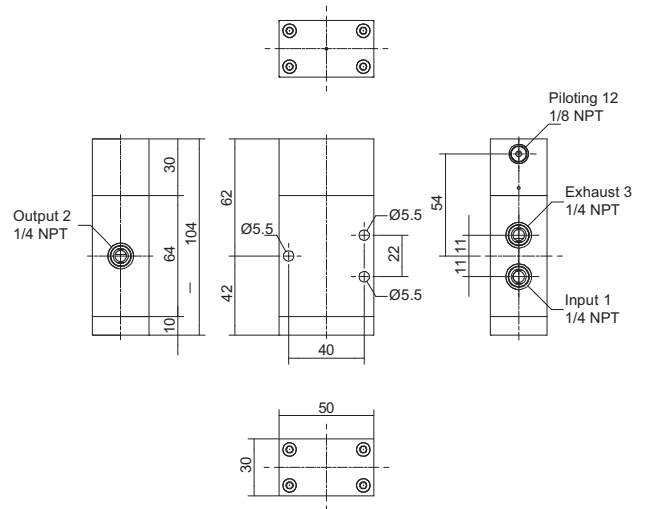
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Pneumatic-Spring

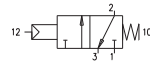
3/2

Ordering code

SA1432C1101L



Weight gr. 394  
Minimum piloting pressure 2,5 bar



Operational characteristics

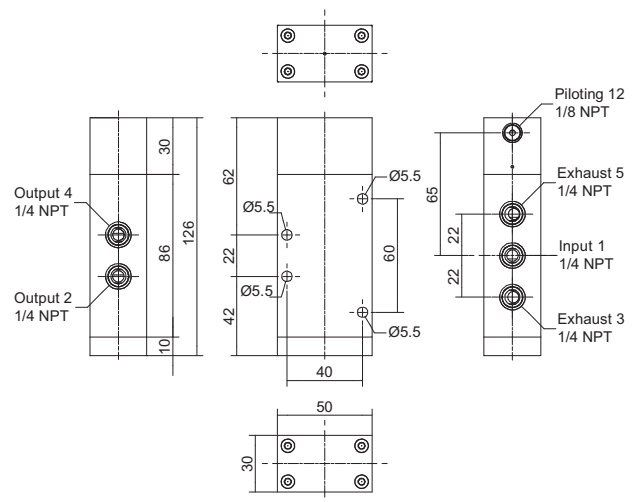
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Pneumatic-Spring

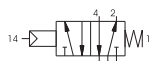
5/2

Ordering code

SA145201101L



Weight gr. 475  
Minimum piloting pressure 2,5 bar



Operational characteristics

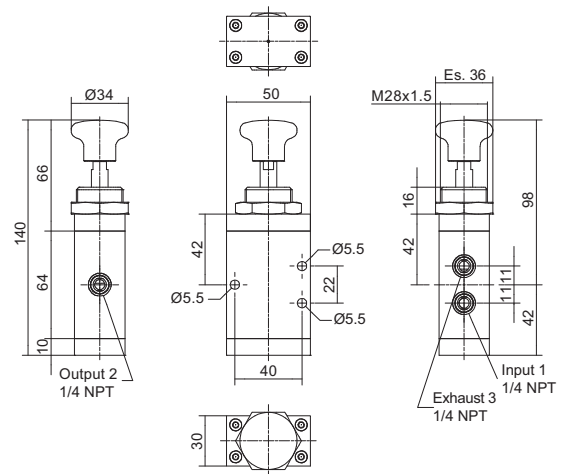
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	1,38	26,60

Push button - Pneumatic valve

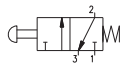
3/2

Ordering code

**SA1432C0801L**



Weight gr. 405  
Actuation force 71,5N



**Operational characteristics**

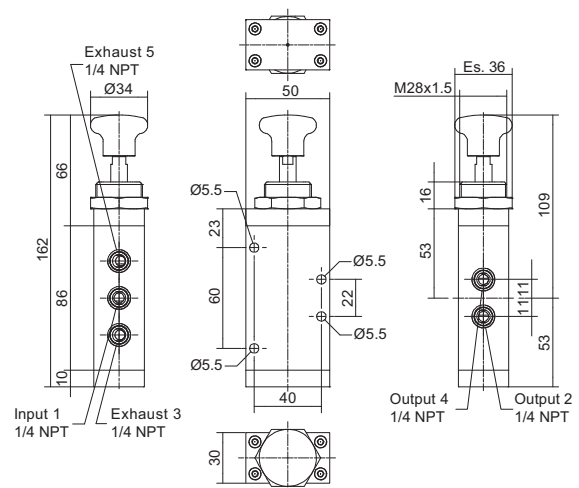
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Push button - Pneumatic valve

5/2

Ordering code

**SA145200801L**



Weight gr. 487  
Actuation force 71,5N



**Operational characteristics**

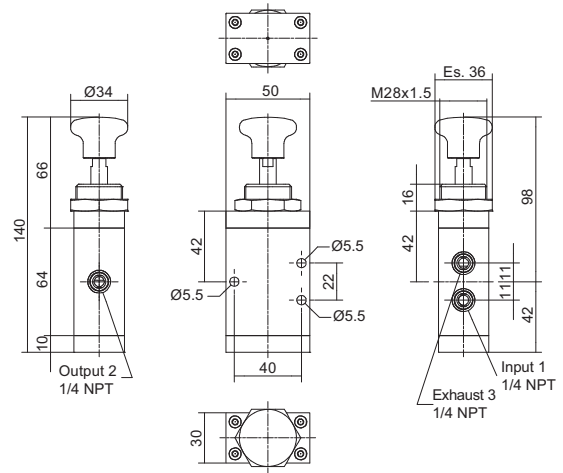
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

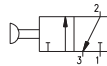
3/2

Ordering code

SA1432C0803L



Weight gr. 395  
Actuation force 105N



Operational characteristics

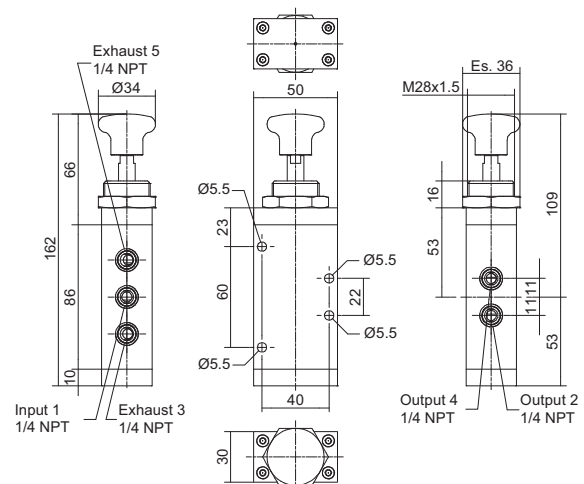
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

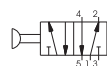
5/2

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

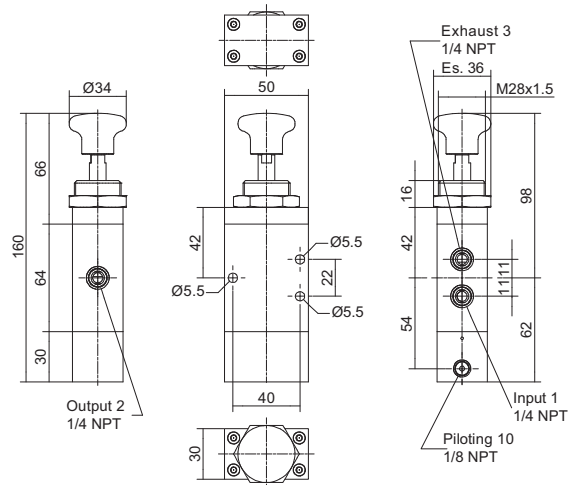


Push button - Pneumatic valve

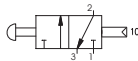
3/2

Ordering code

**SA1432C0811L**



Weight gr. 481  
Minimum piloting pressure 2 bar



**Operational characteristics**

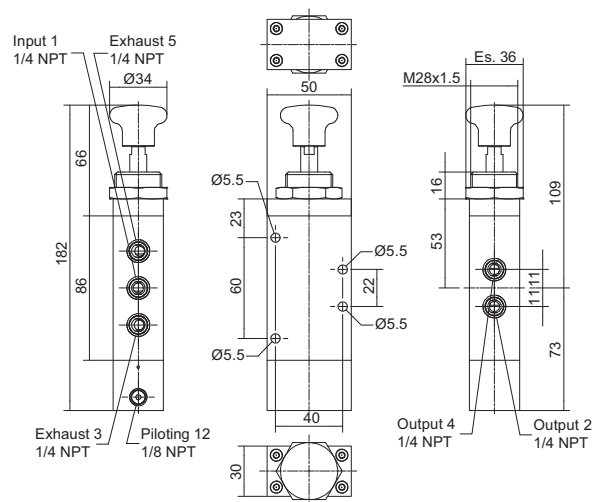
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	2,54	37,88

Push button - Pneumatic valve

5/2

Ordering code

**SA145200811L**



Weight gr. 561  
Minimum piloting pressure 2 bar



**Operational characteristics**

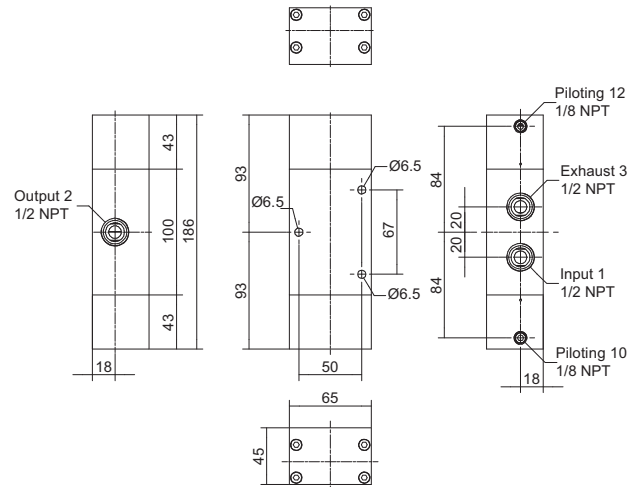
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

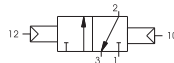
3/2

Ordering code

SA1232C1111L



Weight gr. 1360  
Minimum piloting pressure 2 bar



Operational characteristics

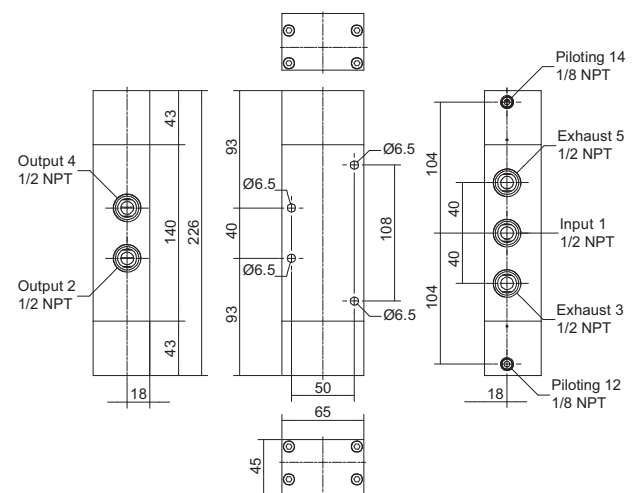
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

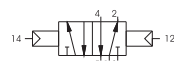
5/2

Ordering code

SA125201111L



Weight gr. 1660  
Minimum piloting pressure 2 bar



Operational characteristics

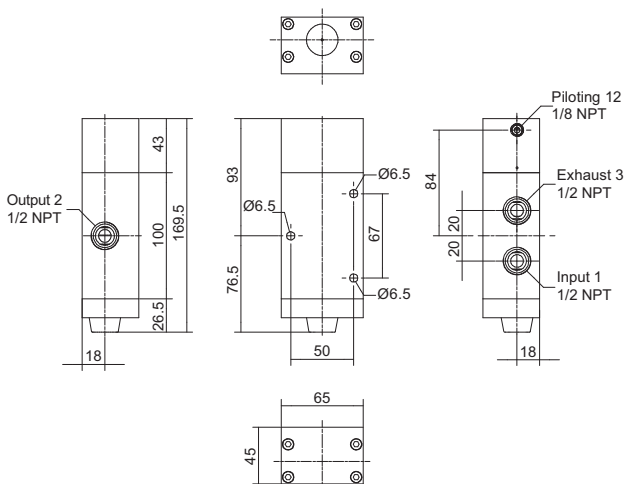
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

**Pneumatic-Spring**

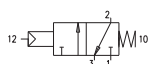
3/2

Ordering code

**SA1232C1101L**



Weight gr. 1135  
Minimum piloting pressure 2,5 bar



**Operational characteristics**

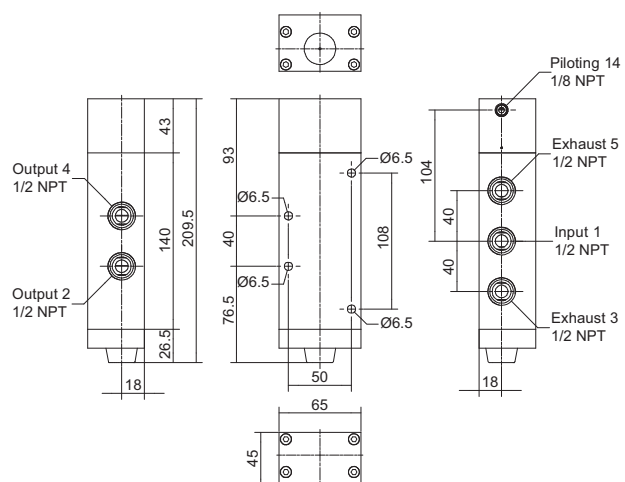
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

**Pneumatic-Spring**

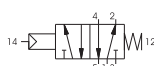
5/2

Ordering code

**SA125201101L**



Weight gr. 1430  
Minimum piloting pressure 2,5 bar



**Operational characteristics**

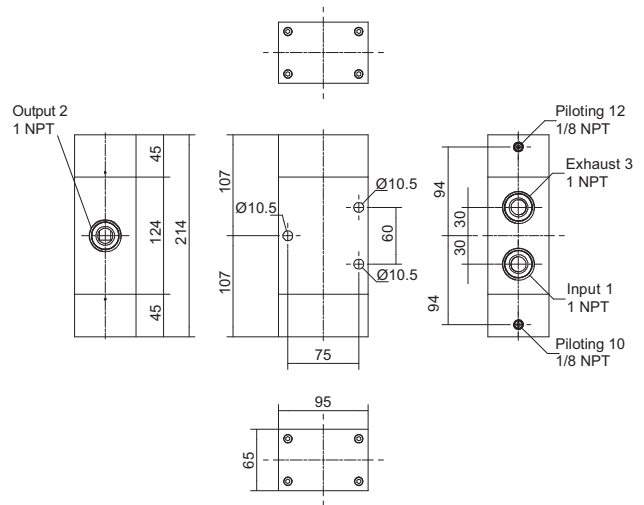
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Pneumatic

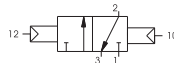
3/2

Ordering code

SA1132C1111L



Weight gr. 3315  
Minimum piloting pressure 2 bar



Operational characteristics

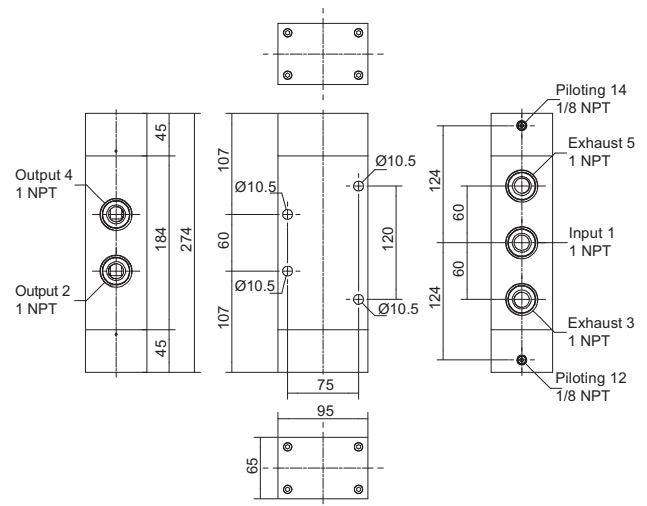
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

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

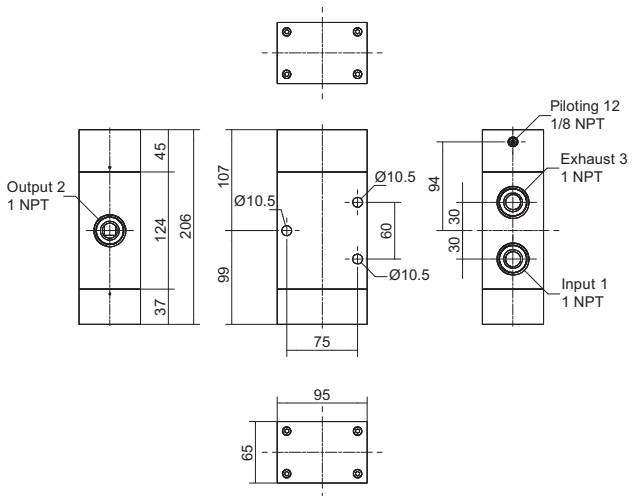


Pneumatic-Spring

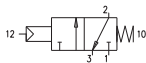
3/2

Ordering code

SA1132C1101L



Weight gr. 3225  
Minimum piloting pressure 2,5 bar



Operational characteristics

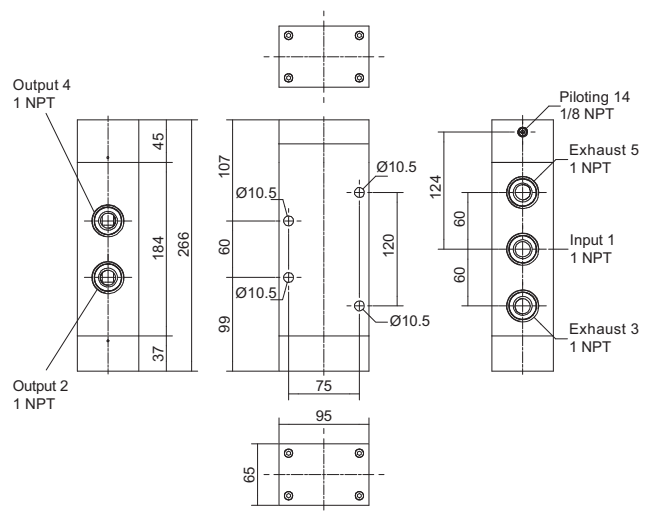
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	6500	20	1/NPT	1/8 NPT	6,60	98,48

Pneumatic-Spring

5/2

Ordering code

SA115201101L



Weight gr. 4130  
Minimum piloting pressure 2,5 bar



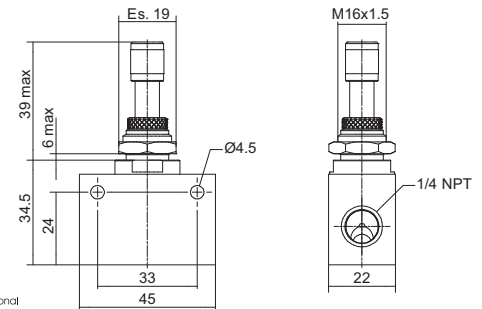
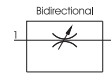
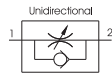
Operational characteristics

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
<b>A6.01.19</b>
FUNCTION
14N=Unidirectional
14/1N=Bidirezionale

Weight gr. 102



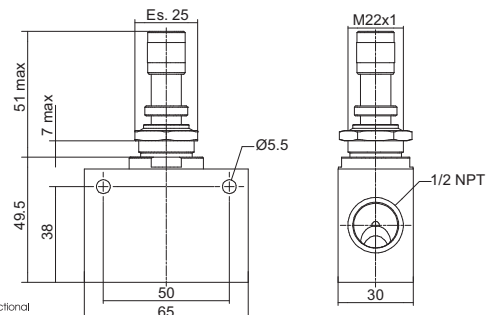
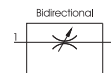
#### Operational characteristics

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
<b>A6.01.25</b>
FUNCTION
12N=Unidirectional
12/1N=Bidirezionale

Weight gr. 276



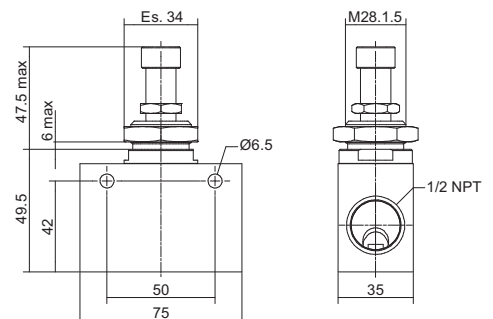
#### Operational characteristics

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	2000	12	-30 ÷ +70	2,03	30,30

### Flow regulator 3/4 NPT - Unidirectional

Ordering code
<b>A6.01.34</b>

Weight gr. 482



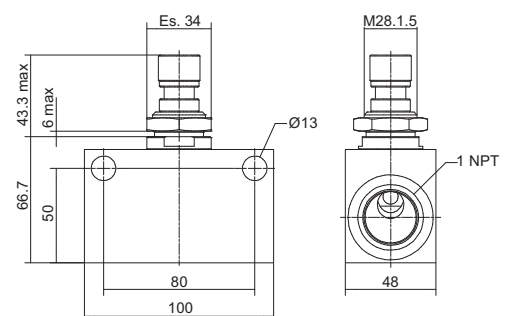
#### Operational characteristics

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
<b>A6.01.11</b>

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

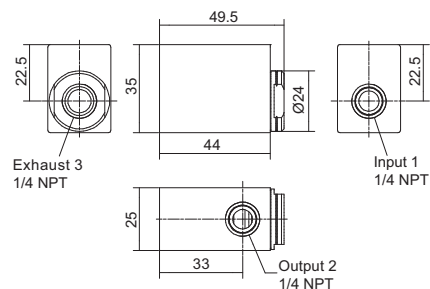
### Quick exhaust valve 1/4 NPT

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

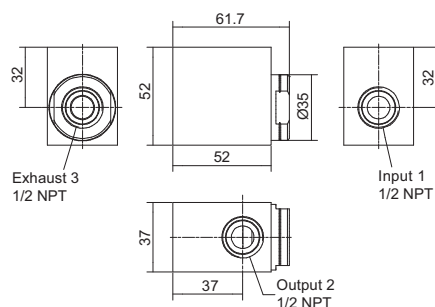
### Quick exhaust valve 1/2 NPT

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

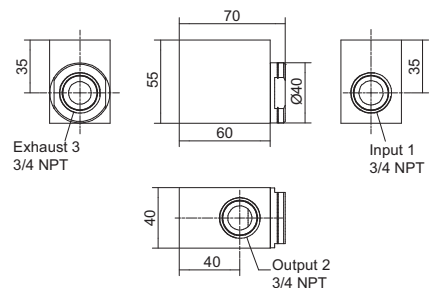
### Quick exhaust valve 3/4 NPT

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

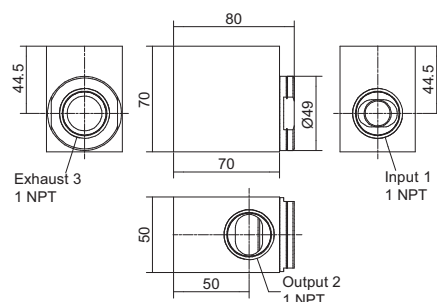
### Quick exhaust valve 1 NPT

Ordering code

**A6.02.11**



Weight gr. 670



#### Operational characteristics

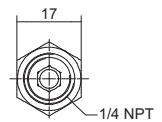
Fluid	Working pressure (bar)	Flow rate from 1 to 2 at 6 bar with $\Delta p=1$ (Nl/min)	Flow rate from 2 to 3 at 6 bar on free exhaust (Nl/min)	Temperature °C	Cv	kv
Filtered air	0,5 ÷ 10	5000	18000	-30 ÷ +70	5,08	75,75



### Non return valve 1/4 NPT

Ordering code

**A6.07.14**



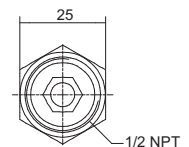
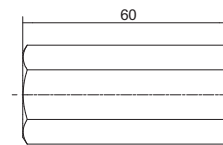
#### Operational characteristics

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**



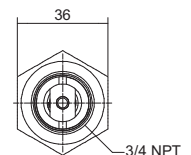
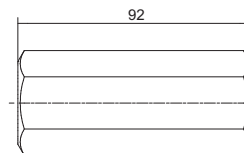
#### Operational characteristics

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**



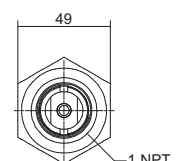
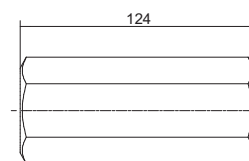
#### Operational characteristics

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

Poppet valves for high flow rates, for compressed air. Available in 3/2, normally closed, pneumatic-spring execution. For compressed air use, their functioning is similar to spool valves.

### Construction features

	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

### Terms of use

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:



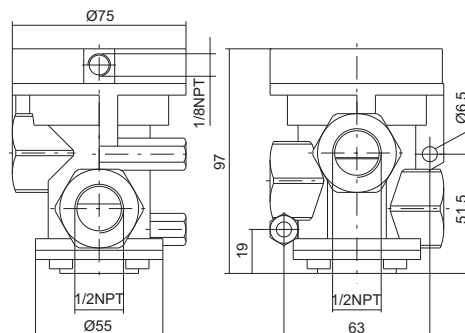
ATEX CE II 2 GD c IIB T5 T100°C

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

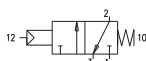
### Pneumatic-Spring - 1/2 NPT

Ordering code

**SA772321101C**



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



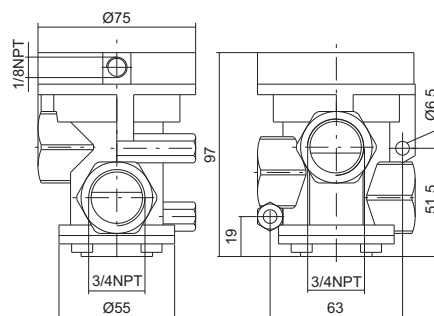
#### Operational characteristics

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

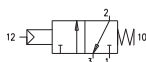
### Pneumatic-Spring - 3/4 NPT

Ordering code

**SA773321101C**



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



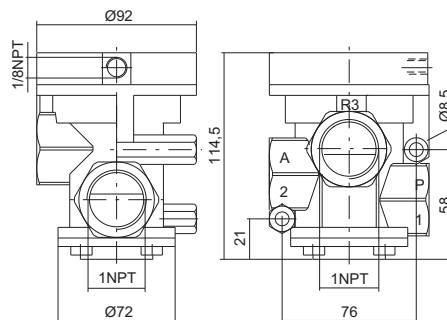
#### Operational characteristics

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

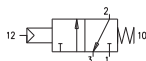
### Pneumatic-Spring - 1 NPT

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

In the new SAN776, (1 1/2" NPT) valve series, a rolling diaphragm have been introduced instead of the traditional piston, reducing friction and consequently the overall wear of the seal.

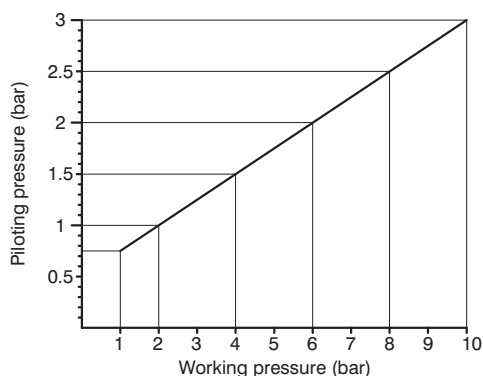
### Construction features

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

### Terms of use

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:

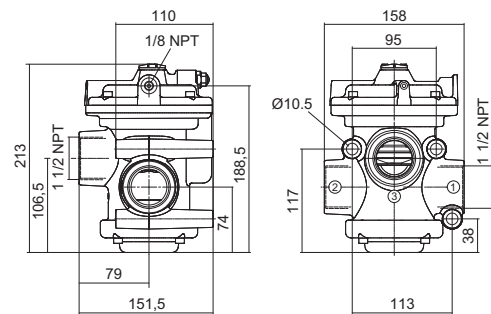


ATEX CE Ex II 2 GD c IIB T5 T100°C  
: [ CE Ex II 2G Ex h IIB T5 Gb  
CE Ex II 2D Ex h IIIC T100°C Db ]

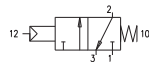
**Pneumatic-Spring - 1 1/2 NPT**

Ordering code

**SAN77632111C**

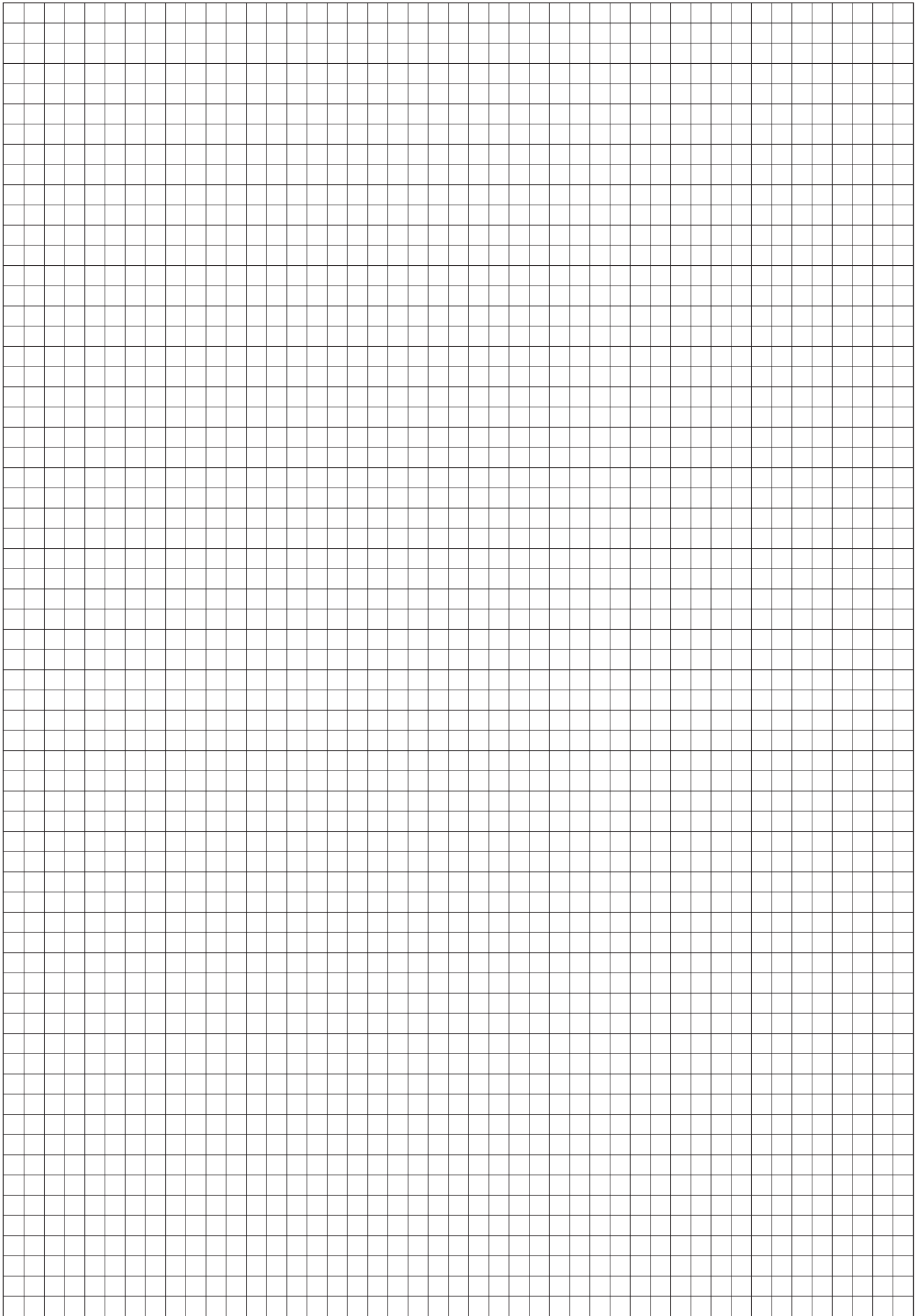


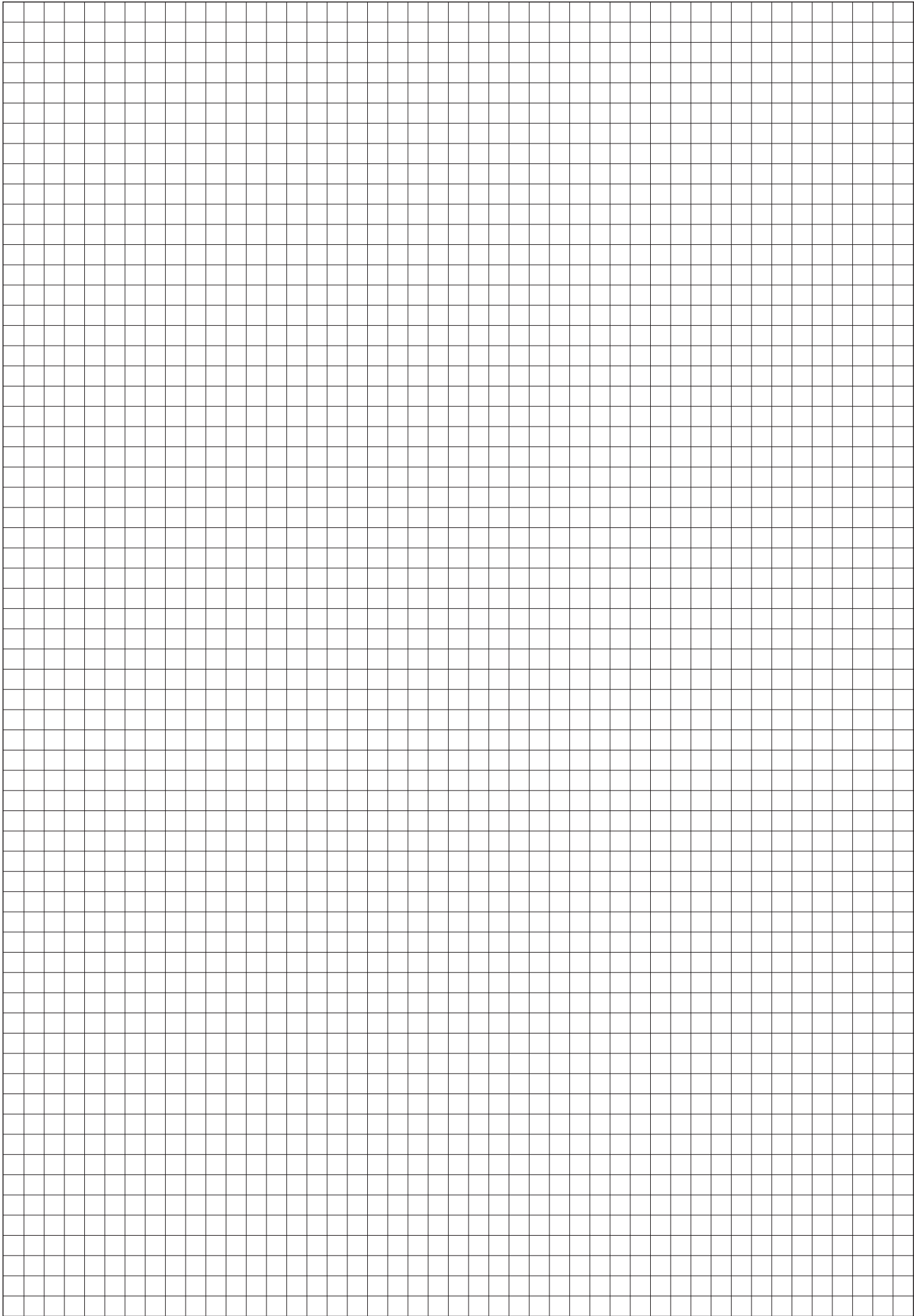
Weight gr. 3514  
Normally closed  
Minimum piloting pressure "See diagram on the General page"



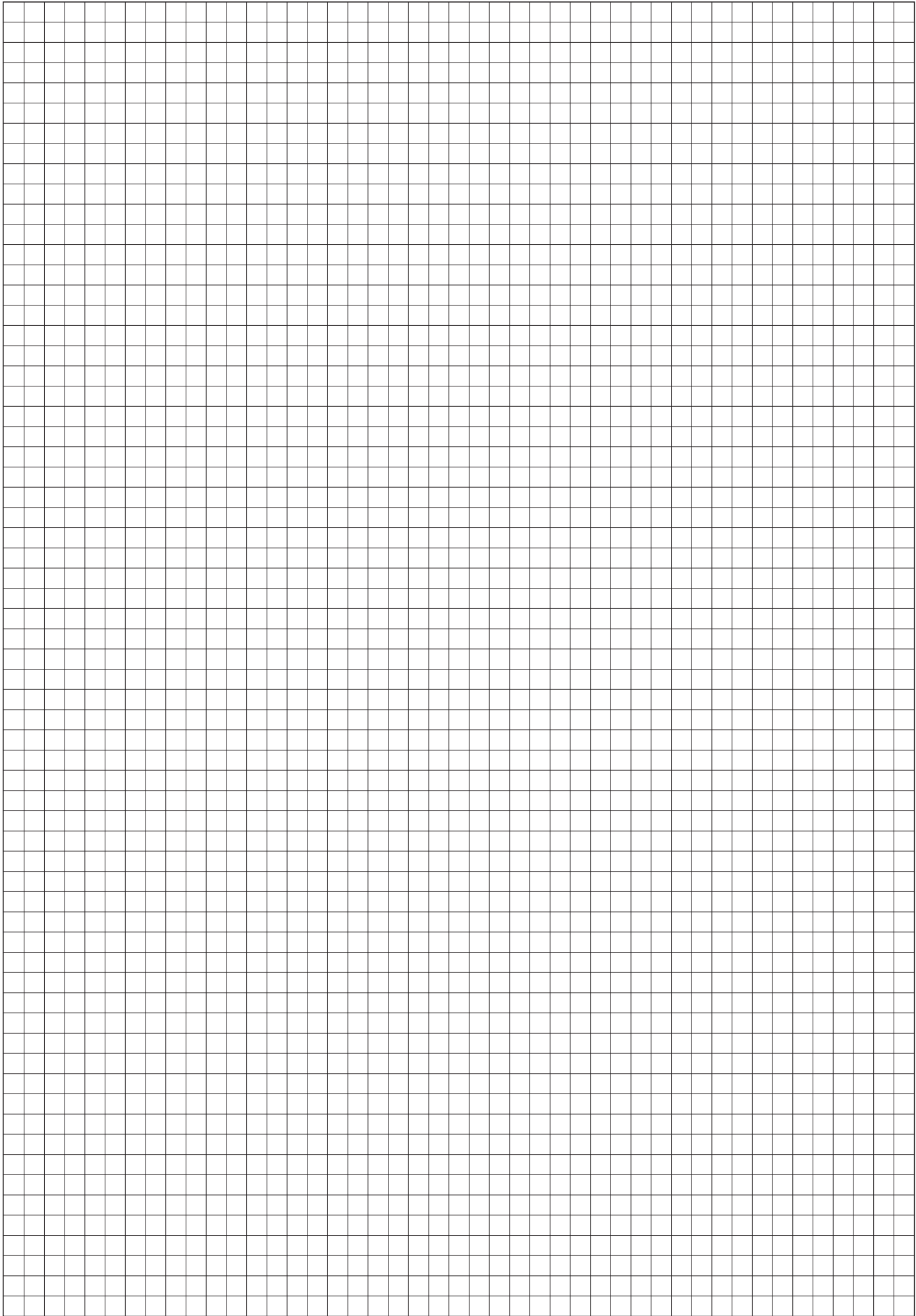
**Operational characteristics**

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  
info@pneumaxspa.com  
www.pneumaxspa.com