

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 alluminium valve series, developed following the latest and most technologically advanced testing and prototyping methodologies, ensure high performances; in case of new plants or retrofitting, 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	Alluminium
Operators	Alluminium
Spacers	Alluminium
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:



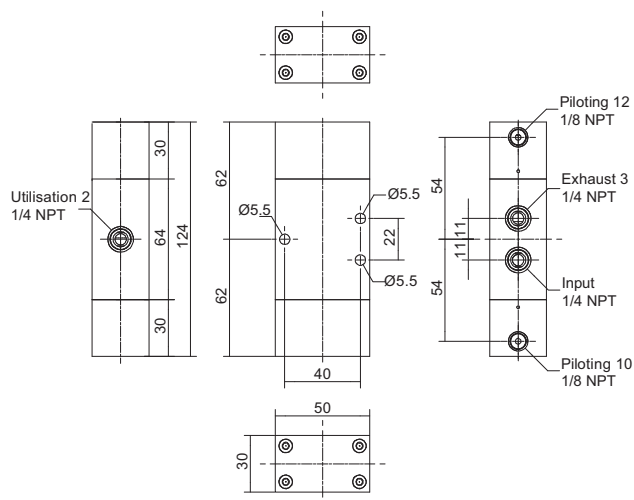
ATEX **CE**  II 2 GD c IIC T5 T100°C
: **CE**  II 2G Ex h IIC T5 Gb
CE  II 2D Ex h IIC T100°C Db

Pneumatic-Pneumatic

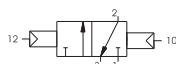
3/2

Ordering code

SA1432C1111L



Weight gr. 470
Minimum piloting pressure 2 bar



Operational characteristics

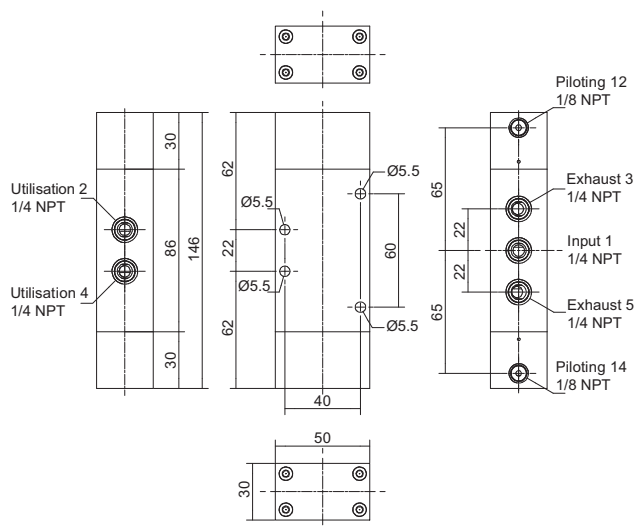
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	1360	8	1/4 NPT	1/8 NPT	1,38	20,60

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	20,60

Pneumatic-Spring

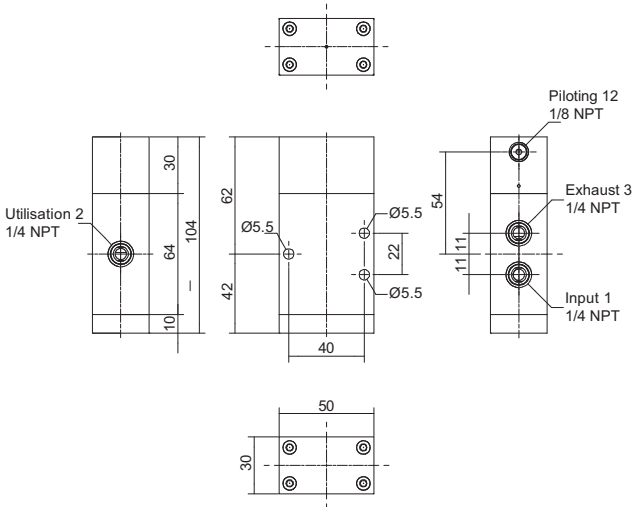
3/2

Ordering code

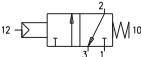
SA1432C1101L







Weight gr. 394
Minimum piloting pressure 2,5 bar



Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=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	20,60

Pneumatic-Spring

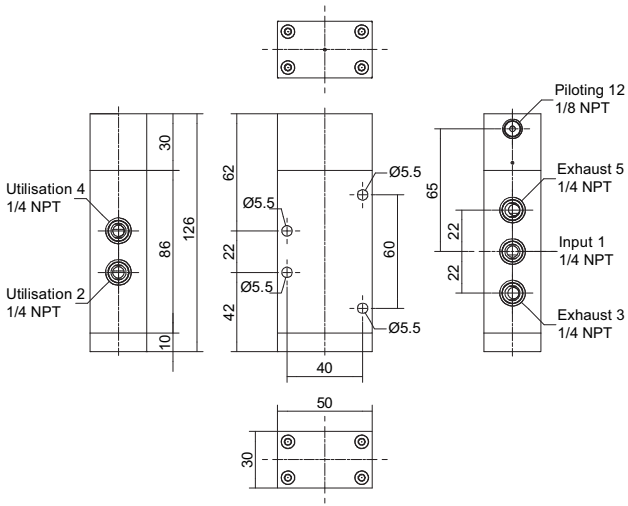
5/2

Ordering code

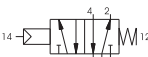
SA145201101L







Weight gr. 475
Minimum piloting pressure 2,5 bar



Operational characteristics

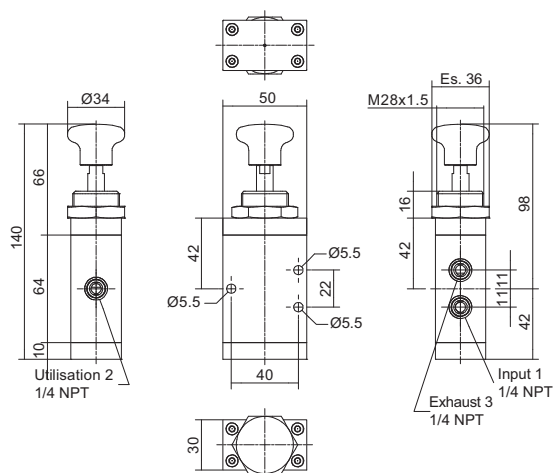
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min))	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	1360	8	1/4 NPT	1/8 NPT	1,38	20,60

Push button - Spring valve

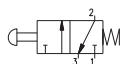
3/2

Ordering code

SA1432C0801L



Weight gr. 405
Actuation force 71,5N



Operational characteristics

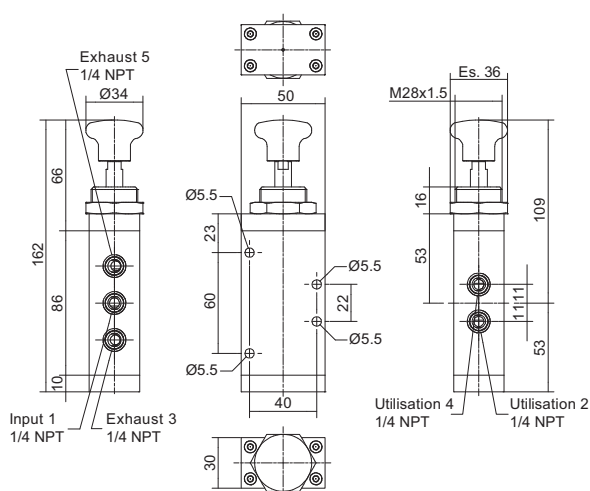
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Push button - Spring valve

5/2

Ordering code

SA145200801L



Weight gr. 487
Actuation force 71.5N



Operational characteristics

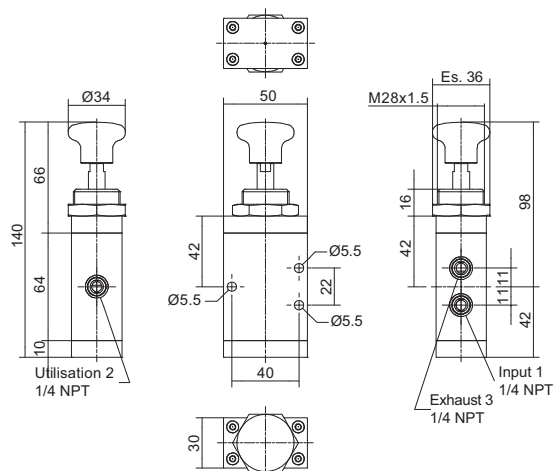
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

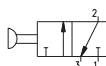
3/2

Ordering code

SA1432C0803L



Weight gr. 395
Actuation force 105N



Operational characteristics

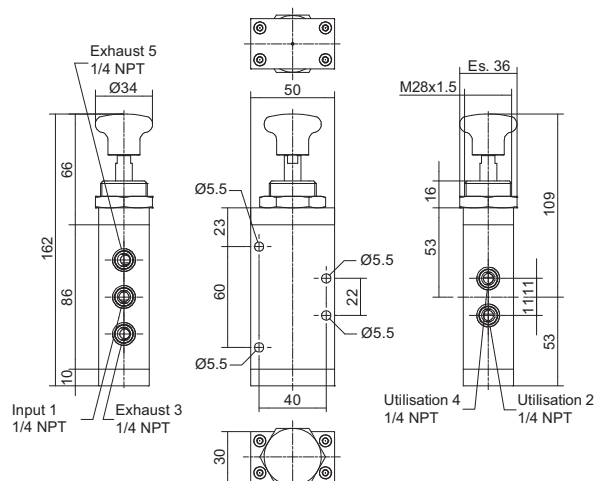
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Bistable push button valve

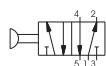
5/2

Ordering code

SA145200803L



Weight gr. 483
Actuation force 105N



Operational characteristics

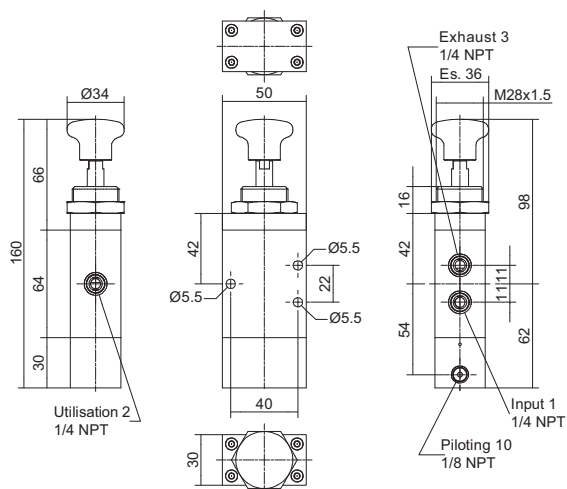
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 ÷ +70	1360	8	1/4 NPT	1,38	20,60

Push button - Pneumatic valve

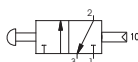
3/2

Ordering code

SA1432C0811L



Weight gr. 481
Minimum piloting pressure 2 bar



Operational characteristics

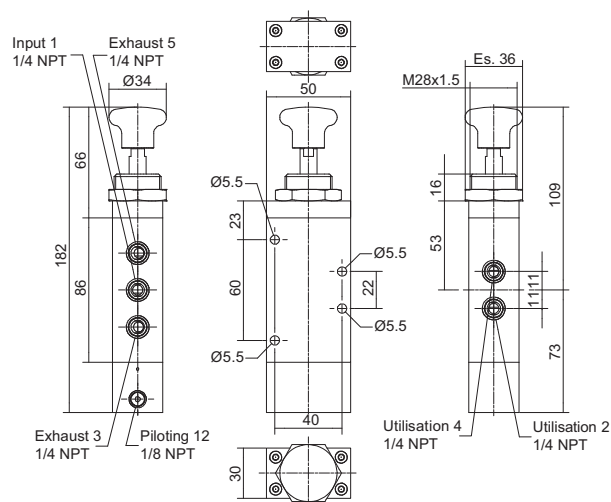
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	1360	8	1/4 NPT	1/8 NPT	2,54	37,88

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 $\Delta p=1$ (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	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 Δp=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

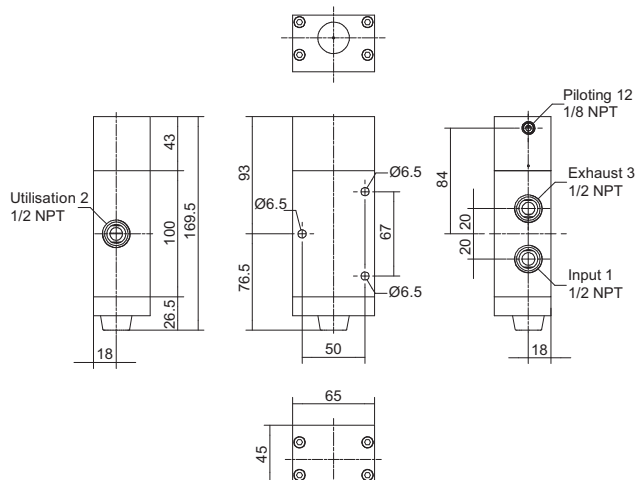
Operational characteristics								
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min))	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Spring

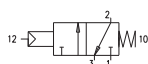
3/2

Ordering code

SA1232C1101L



Weight gr. 1135
Minimum piloting pressure 2,5 bar



Operational characteristics

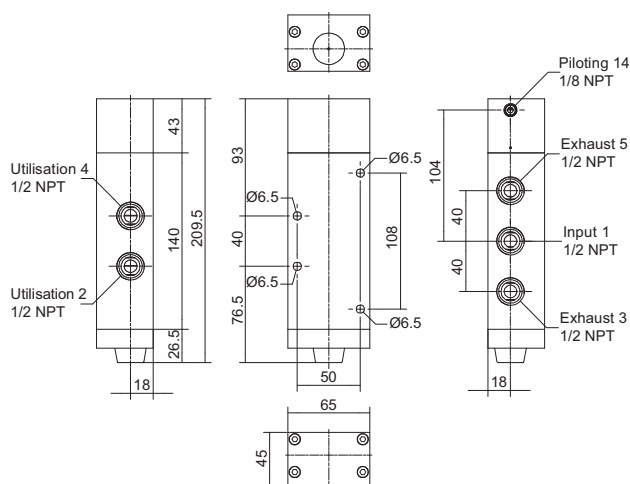
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	2500	15	1/2 NPT	1/8 NPT	2,54	37,88

Pneumatic-Spring

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 $\Delta p=1$ (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

3/2

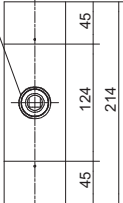
Ordering code

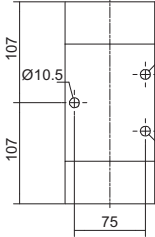
SA1132C1111L

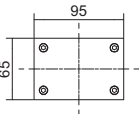


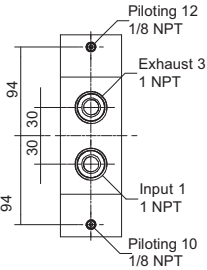


Utilisation 2
1 NPT

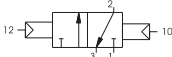








Weight gr. 3315
Minimum piloting pressure 2 bar



Operational characteristics

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

Pneumatic-Pneumatic

5/2

Ordering code

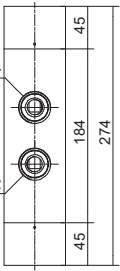
SA115201111L

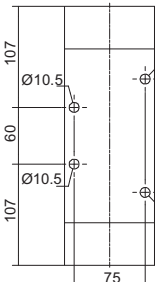


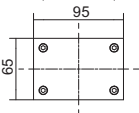


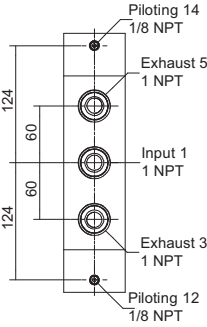
Utilisation 4
1 NPT

Utilisation 2
1 NPT









Weight gr. 4220
Minimum piloting pressure 2 bar



Operational characteristics

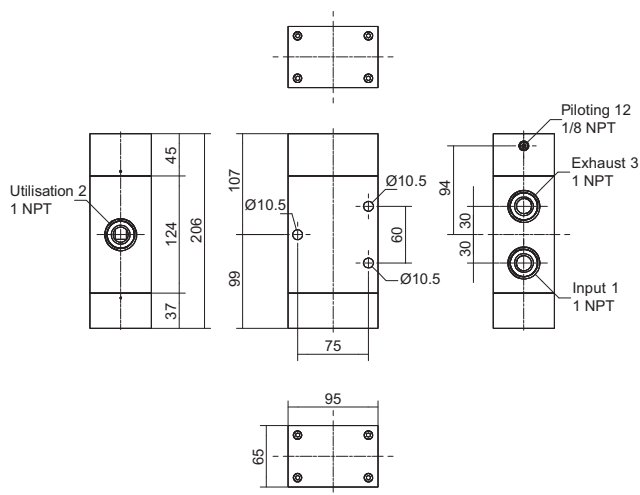
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min))	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	6500	20	1 NPT	1/8 NPT	6,60	98,48

Pneumatic-Spring

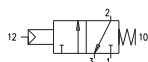
3/2

Ordering code

SA1132C1101L



Weight gr. 3225
Minimum piloting pressure 2,5 bar



Operational characteristics

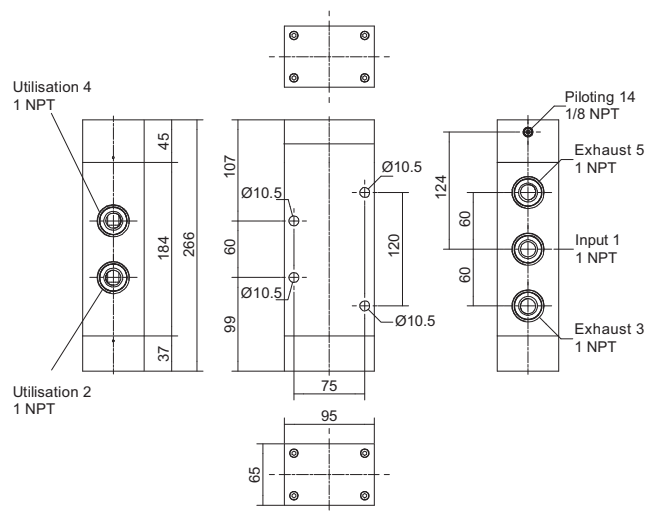
Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	6500	20	1 NPT	1/8 NPT	6,60	98,48

Pneumatic-Spring

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 $\Delta p=1$ (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

Flow control valve 1/4 NPT

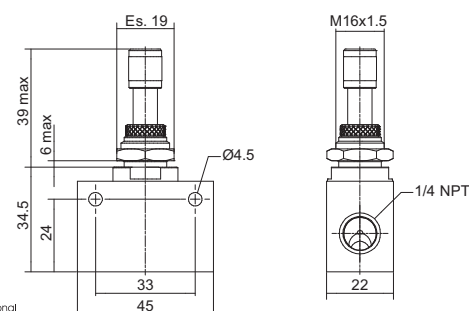
Ordering code

A6.01.Ⓕ

FUNCTION
 Ⓕ 14N=Unidirectional
 14/1N=Bidirectional



Weight gr. 102

**Operational characteristics**

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

Flow control valve 1/2 NPT

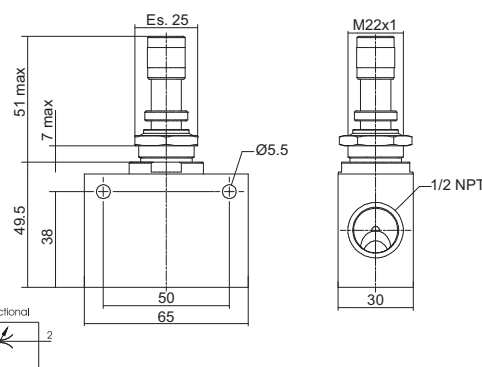
Ordering code

A6.01.Ⓖ

FUNCTION
 Ⓖ 12N=Unidirectional
 12/1N=Bidirectional



Weight gr. 276

**Operational characteristics**

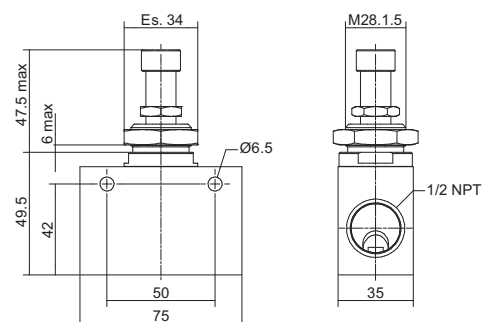
Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Temperature °C	Cv	kv
Filtered air	12	2000	12	-30 - +70	2,03	30,30

Flow control valve 3/4 NPT - Unidirectional

Ordering code

A6.01.34

Weight gr. 482

**Operational characteristics**

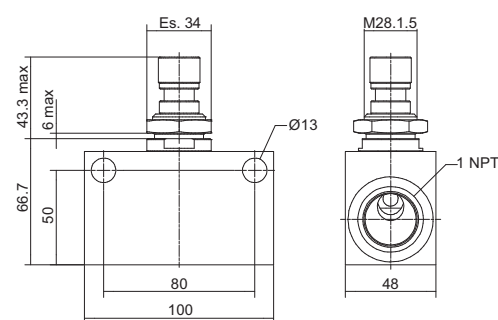
Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Temperature °C	Cv	kv
Filtered air	12	2800	12	-30 - +70	2,84	42,42

Flow control valve 1 NPT - Unidirectional

Ordering code

A6.01.11

Weight gr. 874

**Operational characteristics**

Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (Nl/min)	Orifice size (mm)	Temperature °C	Cv	kv
Filtered air	12	3300	14	-30 - +70	3,35	50

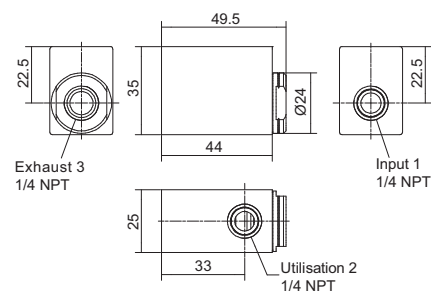
Quick exhaust valve 1/4 NPT

Ordering code

A6.02.14



Weight gr. 112



Operational characteristics

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

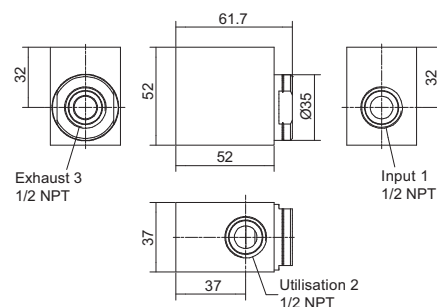
Quick exhaust valve 1/2 NPT

Ordering code

A6.02.12



Weight gr. 310



Operational characteristics

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

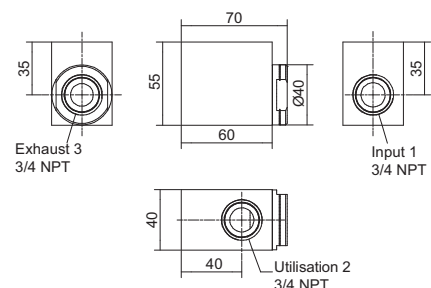
Quick exhaust valve 3/4 NPT

Ordering code

A6.02.34



Weight gr. 400



Operational characteristics

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

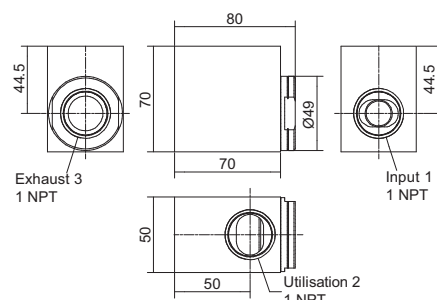
Quick exhaust valve 1 NPT

Ordering code

A6.02.11



Weight gr. 670

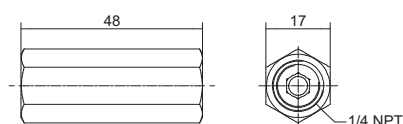


Operational characteristics

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

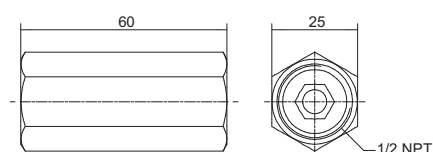
A6.07.14

Operational characteristics

Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/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

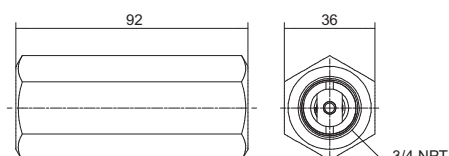
A6.07.12

Operational characteristics

Fluid	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (l/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

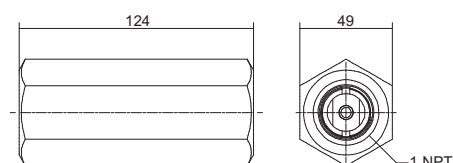
A6.07.34

Operational characteristics

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

General

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:



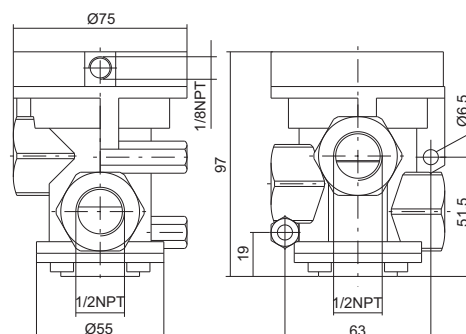
ATEX CE II 2 GD c IIB T5 T100°C

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

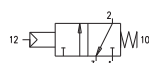
Pneumatic-Spring - 1/2 NPT

Ordering code

SA772321101C



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



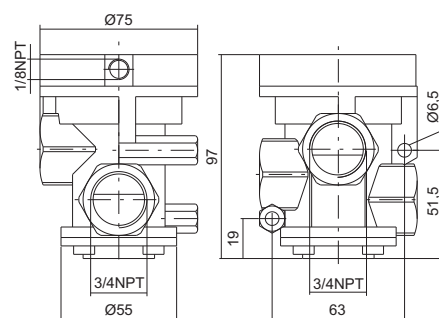
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/min)	Orifice size (mm)	Working port size	Pilot connections	Cv	kv
Filtered and lubricated air	12	-30 - +70	4800	20	1/2 NPT	1/8 NPT	4,88	72,72

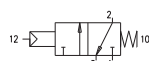
Pneumatic-Spring - 3/4 NPT

Ordering code

SA773321101C



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



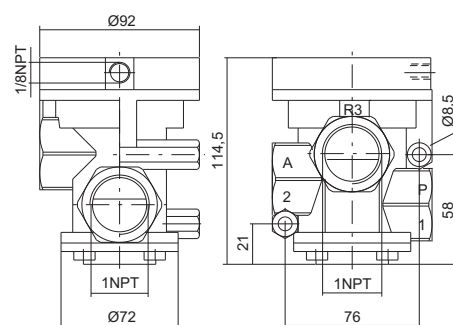
Operational characteristics

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p=1$ (l/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

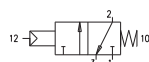
Pneumatic-Spring - 1 NPT

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 $\Delta p=1$ (l/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

General

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.

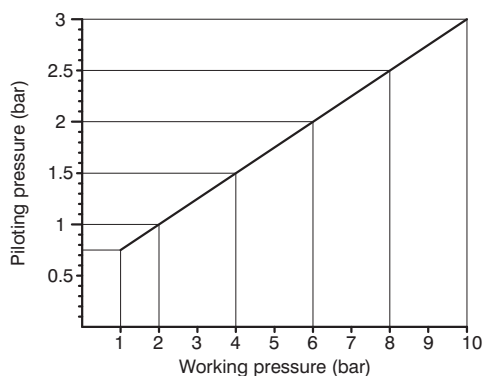
Construction features

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   II 2 GD c IIB T5 T100°C

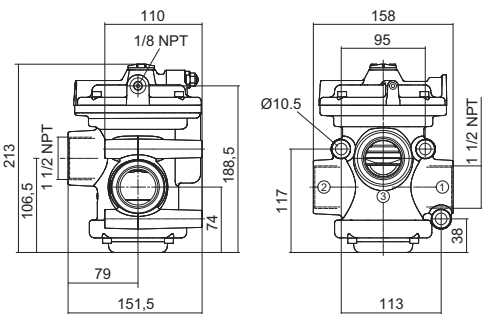
:   II 2G Ex h IIB T5 Gb
  II 2D Ex h IIIC T100°C Db



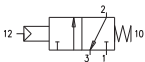
Pneumatic-Spring - 1 1/2 NPT

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 $\Delta p=1$ (l/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