


General

The large flow valves and solenoid poppet valves for compressed air and vacuum are manufactured for 3/2 and 2/2 versions only, either normally close and normally open.

For the compressed air operation, the application is similar to the equivalent spool valves while for the vacuum operation a particular attention should be paid to the valve selected and its connection to the pump.

For the electric pilot it is used a normal miniature solenoid M2 with pneumatic actuator and the special miniature solenoid M2/V with vacuum.

The ordering code are referring to the solenoid valves with mechanics "M2" or "M2/V" assembled (see Series 300). (Coil are not included and have to be ordered separately).

Coil  US homologated are available (see 300 Series).

Construction characteristics

	G 3/8"	G 1/2" - G 3/4"	G 1"	G 1 1/2"
Body	Aluminium	Zinc alloy	Aluminium	Aluminium
Bottom plates	Aluminium			
Actuators	NBR			
Pistons	Aluminium			
Actuators rod	Stainless steel			
Spring	Stainless steel			
Piston seals	NBR			

Use and maintenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.

Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.

Check that the operating conditions: pressure, temperature and so on are as suggested.

The exhaust port of the distributor has to be protected in a dusty and dirty environment.

For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

Vacuum valves connections

NORMALLY CLOSED INTERNAL PILOT

779/V.32.0.1AC

773/V.32.0.1AC

771/V.32.0.1AC

P = 1 = EXHAUST

A = 2 = OUTLET

R = 3 = PUMP

NORMALLY OPEN INTERNAL PILOT

779/V.32.0.1AA

773/V.32.0.1AA

771/V.32.0.1AA

P = 1 = PUMP

A = 2 = OUTLET

R = 3 = EXHAUST

NORMALLY CLOSED EXTERNAL PILOT

779/V.32.0.1C

773/V.32.0.1C

771/V.32.0.1C

P = 1 = PUMP

A = 2 = OUTLET

R = 3 = EXHAUST

NORMALLY OPEN EXTERNAL PILOT

779/V.32.0.1A

773/V.32.0.1A

771/V.32.0.1A

P = 1 = EXHAUST

A = 2 = OUTLET

R = 3 = PUMP

779/V.32.11.1C

773/V.32.11.1C

771/V.32.11.1C

779/V.32.11.1A

773/V.32.11.1A

771/V.32.11.1A

Pneumatic - Spring


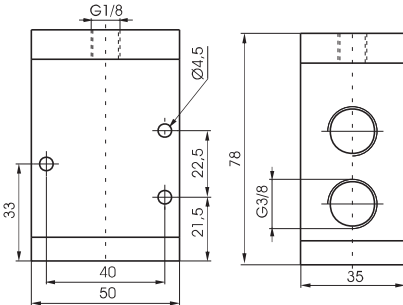
Ordering code

779.32.11.F

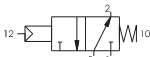
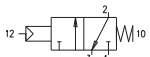
FUNCTION

1C=Normally Closed

1A=Normally Open

Weight gr. 360
Attention : for the Normally open version, connect the inlet port to the exhaust port No "3".
Minimum piloting pressure 2,5 bar

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-10 - +70	1800	10	G 3/8"	G 1/8"

Solenoid - Spring

Ordering code

779.32.0.F.M2


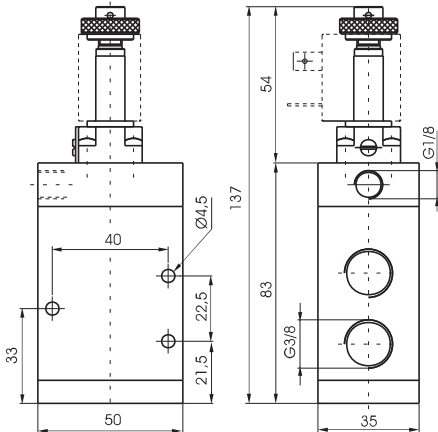
FUNCTION

1AC=Internal Pilot N.C.

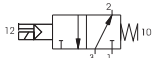
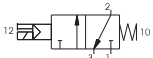
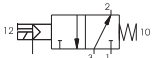
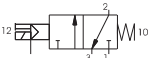
1C=External Pilot Normally Closed

1AA=Internal Pilot N.A.

1A=External Pilot Normally Open

Weight gr. 420
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-10 - +50	1800	10	G 3/8"	G 1/8"

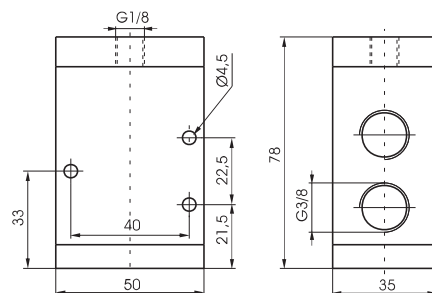
Pneumatic - Spring

Ordering code

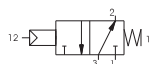
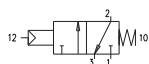
779/V.32.11.F

FUNCTION

F
1C=Normally Closed
1A=Normally Open



Weight gr. 360
Minimum piloting pressure 2 bar



Operational characteristic

Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-10 - + 70	10	G 3/8"	G 1/8"

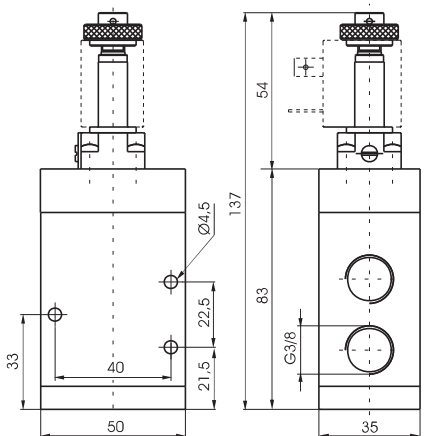
Solenoid - Spring - Internal Pilot

Ordering code

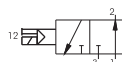
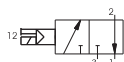
779/V.32.0.F.M2/V

FUNCTION

F
1AA=Normally Open
1AC=Normally Closed



Weight gr. 420



Operational characteristic

Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-10 - + 50	10	G 3/8"	G 1/8"

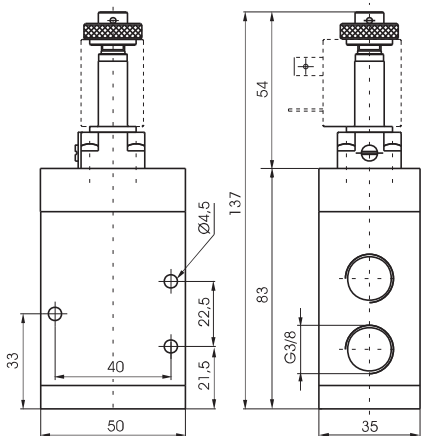
Solenoid - Spring - External Pilot

Ordering code

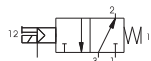
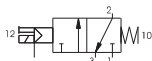
779/V.32.0.F.M2

FUNCTION

F
1A=Normally Open
1C=Normally Closed



Weight gr. 420
Minimum piloting pressure 2 bar (External Pilot)



Operational characteristic


Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-10 - + 50	10	G 3/8"	G 1/8"



Pneumatic - Spring

Ordering code

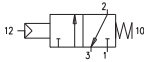
772.32.11.1C



Weight gr. 1100

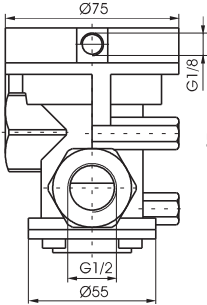
Normally Closed

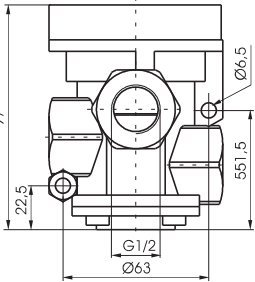
Minimum piloting pressure 2,5 bar



Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air	10	-5 - +70	4800	15	G 1/2"	G 1/8"





Solenoid - Spring

Ordering code

772.32.0.F.M2

FUNCTION

F

1AC=Internal Pilot Normally Closed


1C=External Pilot Normally Closed

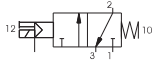
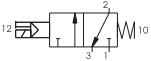
Weight gr. 1160

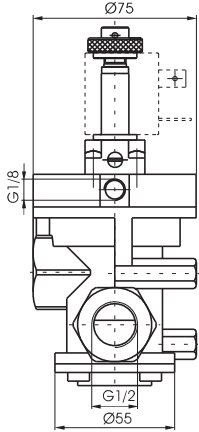
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

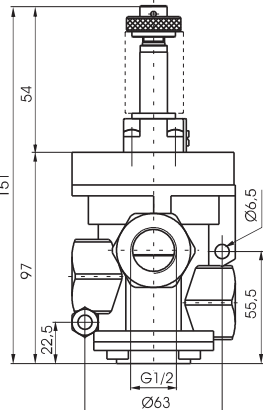
Operational characteristic

Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air	10	-5 - +50	4800	15	G 1/2"	G 1/8"









Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.

2.86

Pneumatic - Spring

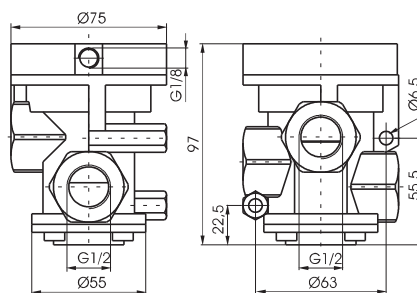
Ordering code

772/V.32.11.F

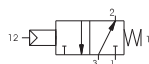
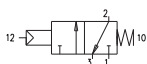
FUNCTION

1C=Normally Closed

1A=Normally Open



Weight gr. 1100
Minimum piloting pressure 2 bar



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 70

15

G 1/2"

G 1/8"

Solenoid - Spring - Internal Pilot

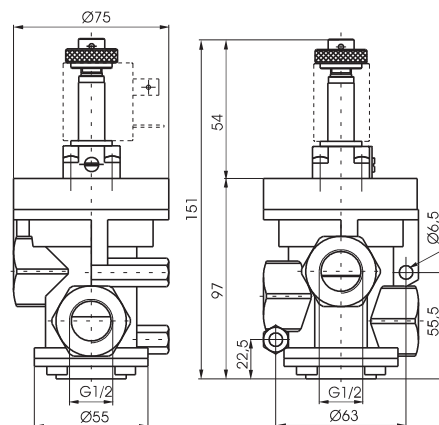
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772/V.32.0.F.M2/V

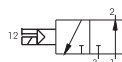
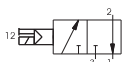
FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1160



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

15

G 1/2"

G 1/8"

Solenoid - Spring - External Pilot

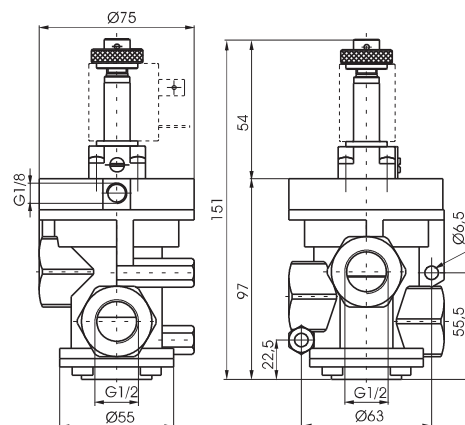
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772/V.32.0.F.M2

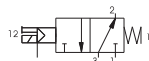
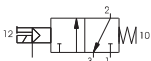
FUNCTION

1A=Normally Open

1C=Normally Closed



Weight gr. 1160
Minimum piloting pressure 2 bar (External Pilot)



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

15


G 1/2"

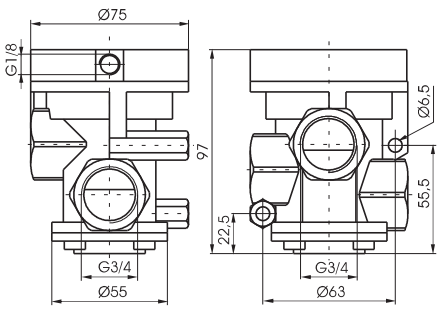
G 1/8"

Pneumatic - Spring

Ordering code

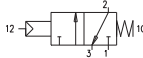
773.32.11.1C





Weight gr. 990

Normally Closed
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	6100	20	G 3/4"	G 1/8"

2

Solenoid - Spring

Ordering code


773.32.0.F.M2

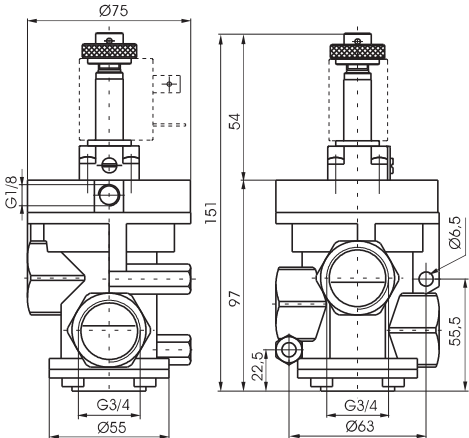
FUNCTION

F

1AC=Internal Pilot Normally Closed

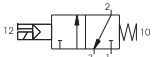
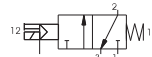
1C=External Pilot Normally Closed





Weight gr. 1050

Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	6100	20	G 3/4"	G 1/8"

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2.88

Pneumatic - Spring

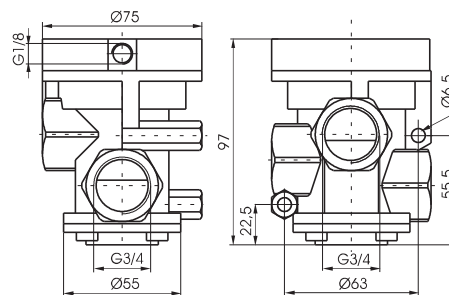
Ordering code

773/V.32.11.F

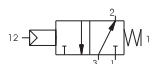
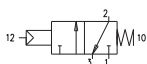
FUNCTION

1C=Normally Closed

1A=Normally Open



Weight gr. 990
Minimum piloting pressure 2 bar



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 70

20

G 3/4"

G 1/8"

Solenoid - Spring - Internal Pilot

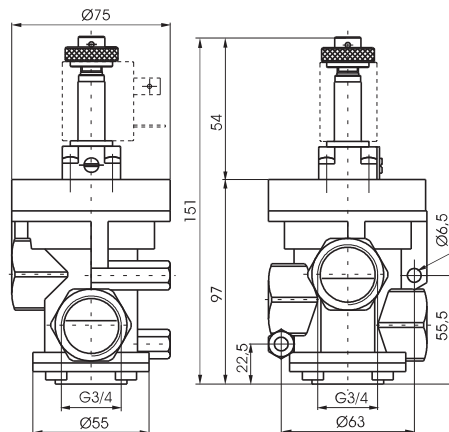
Ordering code

773/V.32.0.F.M2/V

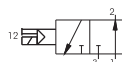
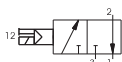
FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1050



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

20

G 3/4"

G 1/8"

Solenoid - Spring - External Pilot

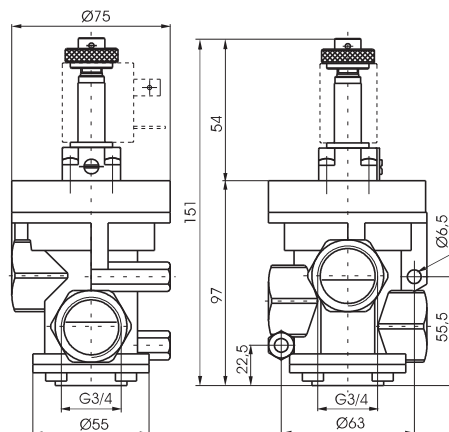
Ordering code

773/V.32.0.F.M2

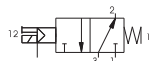
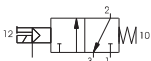
FUNCTION

1A=Normally Open

1C=Normally Closed



Weight gr. 1050
Minimum piloting pressure 2 bar (External Pilot)



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

20

G 3/4"


G 1/8"

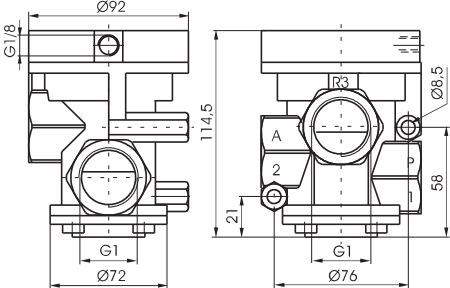


Pneumatic - Spring

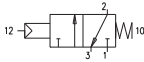
Ordering code

771.32.11.1C





Weight gr. 1060
Normally Closed
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	12000	25	G 1"	G 1/8"

Solenoid - Spring


Ordering code

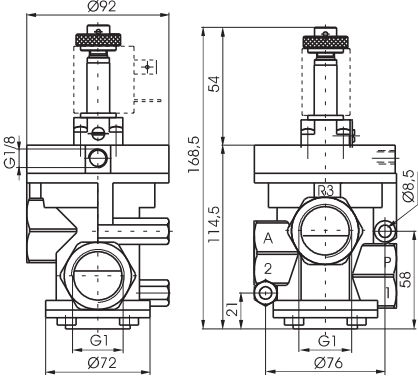
771.32.0.F.M2

FUNCTION

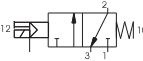
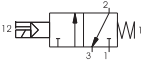
F

1AC=Internal Pilot Normally Closed
1C=External Pilot Normally Closed





Weight gr. 1120
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with Δp=1 (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	12000	25	G 1"	G 1/8"

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2.90

Pneumatic - Spring

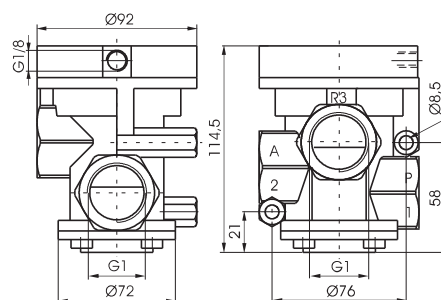
Ordering code

771/V.32.11.F

FUNCTION

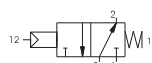
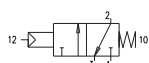
1C=Normally Closed

1A=Normally Open



Weight gr. 1060

Minimum piloting pressure 2 bar



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 70

25

G 1"

G 1/8"

Solenoid - Spring - Internal Pilot

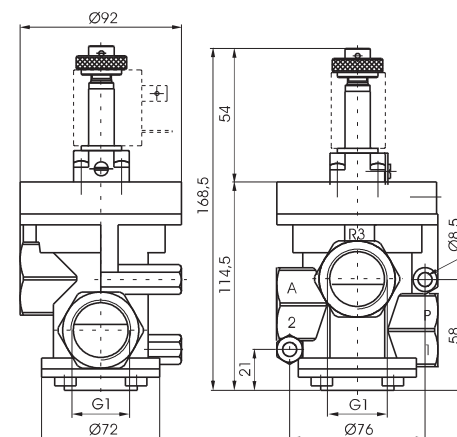
Ordering code

771/V.32.0.F.M2/V

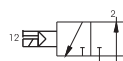
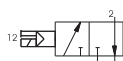
FUNCTION

1AA=Normally Open

1AC=Normally Closed



Weight gr. 1120



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

25

G 1"

G 1/8"

Solenoid - Spring - External Pilot

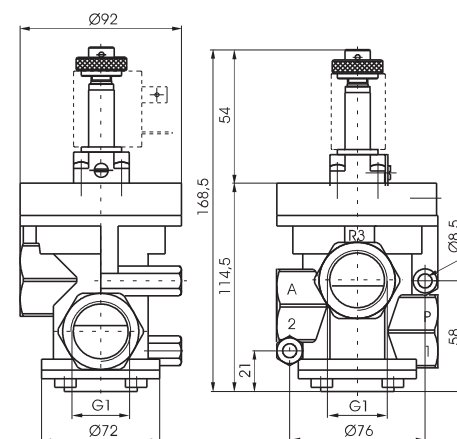
Ordering code

771/V.32.0.F.M2

FUNCTION

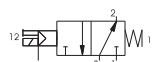
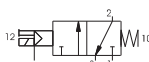
1A=Normally Open

1C=Normally Closed



Weight gr. 1120

Minimum piloting pressure 2 bar (External Pilot)



Operational characteristic

Fluid

Temperature °C

Orifice size (mm)

Working ports size

Pilot ports size

Vacuum

-5 - + 50

25

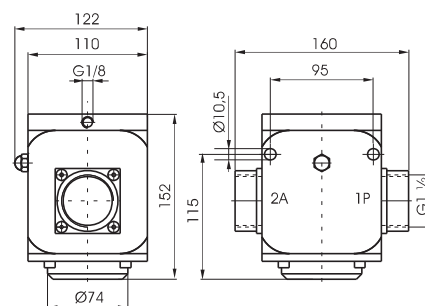
G 1"

G 1/8"

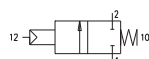
Pneumatic - Spring

Ordering code

776.22.11.1C



Weight gr. 3950
Normally Closed
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	33500	38	G1 1/2"	G 1/8"

Solenoid - Spring

Ordering code

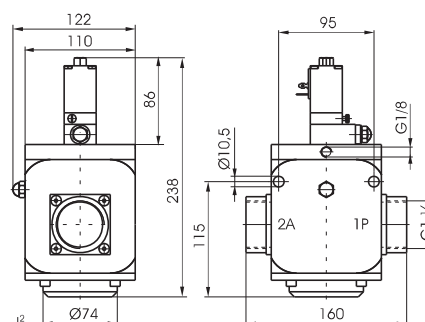
776.22.0.F.S

FUNCTION

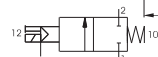
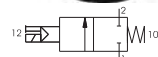
F 1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed

S SOLENOID CODE
See Valves Series 300 Type "S"



Weight gr. 4450
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

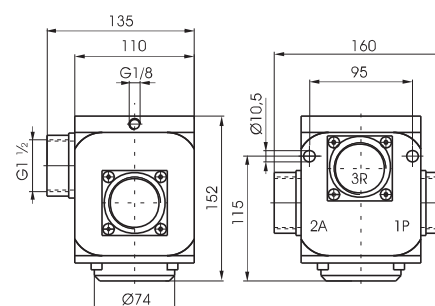


Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	33500	38	G1 1/2"	G 1/8"

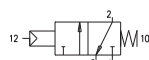
Pneumatic - Spring

Ordering code

776.32.11.1C



Weight gr. 3900
Normally Closed
Minimum piloting pressure 2,5 bar



Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +70	33500	38	G1 1/2"	G 1/8"

Solenoid - Spring

Ordering code

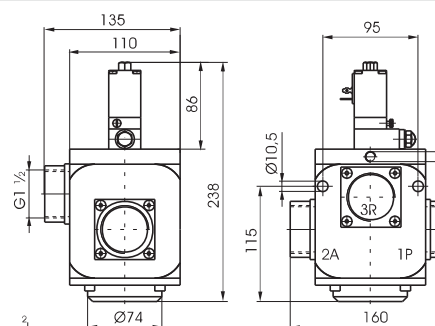
776.32.0.F.S

FUNCTION

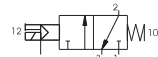
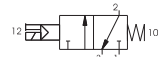
F 1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed

S SOLENOID CODE
See Valves Series 300 Type "S"



Weight gr. 4450
Minimum piloting pressure 2,5 bar (External Pilot) - 3 bar (Internal Pilot)

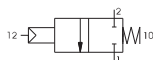
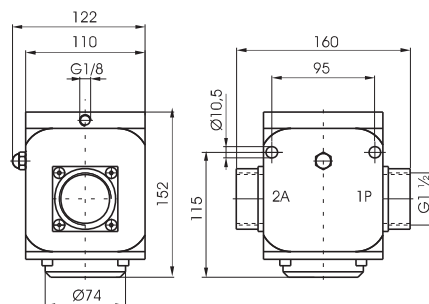


Operational characteristic	Fluid	Max working pressure (bar)	Temperature °C	Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
	Filtered and lubricated air	10	-5 - +50	33500	38	G1 1/2"	G 1/8"

Pneumatic - Spring

Ordering code

776/V.22.11.1C



Weight gr. 3950
Normally Closed
Minimum piloting pressure 2 bar

Operational characteristic

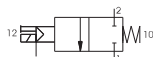
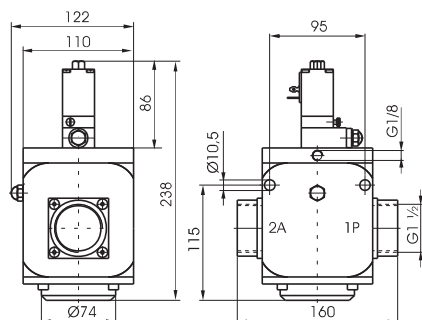
Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - + 70	38	G1 1/2"	G 1/8"

Solenoid - Spring

Ordering code

776/V.22.0.1C.S

S SOLENOID CODE
See Valves Series 300 Type "S"



Weight gr. 4450
External Pilot Normally Closed
Minimum piloting pressure 2 bar

Operational characteristic

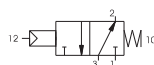
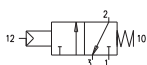
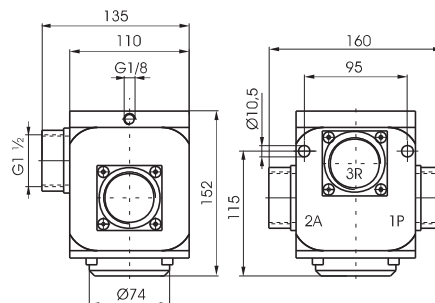
Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - + 50	38	G1 1/2"	G 1/8"

Pneumatic - Spring

Ordering code

776/V.32.11.F

F FUNCTION
1C=Normally Closed
1A=Normally Open



Weight gr. 3900
Minimum piloting pressure 2 bar

Operational characteristic

Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - + 70	38	G1 1/2"	G 1/8"

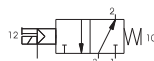
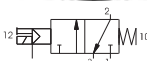
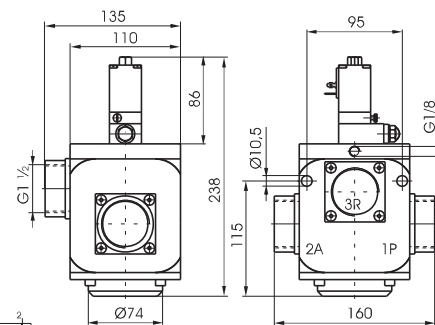
Solenoid - Spring

Ordering code

776/V.32.0.F.S

F FUNCTION
1C=External Pilot Normally Closed
1A=External Pilot Normally Open

S SOLENOID CODE
See Valves Series 300 Type "S"



Weight gr. 4500
Minimum piloting pressure 2 bar

Operational characteristic

Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
Vacuum	-5 - + 50	38	G1 1/2"	G 1/8"


General

This new range of G1/2" and G3/4" pilot and solenoid operated poppet valves represents an evolution of the current popular Zama series. The main feature of this new series is the high impact resistant thermoplastic used to mould the valve components.

The use of this material results in a versatile, lightweight and economical valve. The new series also has other technical and functional enhancements over the existing range. Firstly, the traditional piston lip seal has been replaced with a rolling diaphragm, thereby eliminating frictional wear and tear to this seal. The new series (with the exception of certain vacuum models) also features a seal, which separates port 3 from the piston head. The inclusion of this seal has enhanced the valve's performance and allows the valve to be used as normally open (a configuration not possible in the Zama series).

Solenoid operated valves (both internal and external pilot versions) are fitted with a quick exhaust unit, which reduces the return stroke operating time by 60%. The bulk of the valves in this series use the MP type operator, the exception being internally piloted vacuum models, which use the MV operator. These operators differ from the M2 type in that they have self-tapping mounting screws for use in plastics.

Coils are not included and have to be ordered separately (series 300, Section 1, General Catalogue), with the exception of the bistable versions which already include 24V Dc Coils (N331.0A).

Coils  US homologated are also available. (see series 300).

Construction characteristics

Body, operator and end cover	High resistance technopolymer
Seals and poppets	Oil resistant rubber (NBR)
Piston and shaft	Acetal resin
Springs	AISI 302 stainless steel
Diaphragm	Oil resistant rubber coated (NBR)

Use and maintenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.
Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.
Check that the operating conditions: pressure, temperature and so on are as suggested.
The exhaust port of the distributor has to be protected in a dusty and dirty environment.
For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.
When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

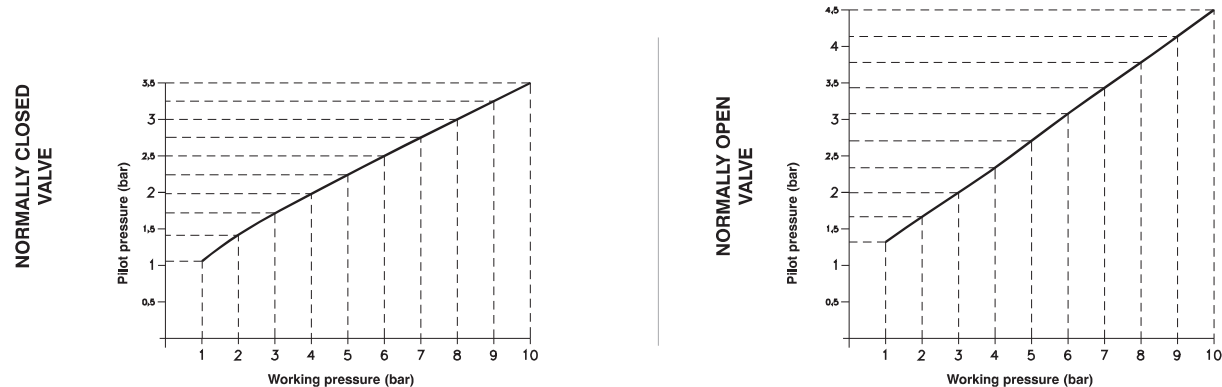
Air valve port layout:

- Normally closed:
- 1 = LINE IN
2 = CONSUMPTION
3 = EXHAUST
- Normally open:
- 1 = EXHAUST
2 = CONSUMPTION
3 = LINE IN

Vacuum valve port layout:

- Normally closed internal pilot
- 1 = EXHAUST
- Normally open (servoassisted) external pilot
- 2 = CONSUMPTION
3 = PUMP
- Normally open internal pilot
- 1 = PUMP
- Normally closed (servoassisted) external pilot
- 2 = CONSUMPTION
3 = EXHAUST

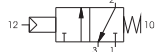
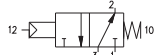
MINIMUM WORKING PRESSURE DIAGRAM (Valves for compressed air)
PNEUMATIC/SPRING AND EXTERNAL SOLENOID PILOT VERSION



3/2

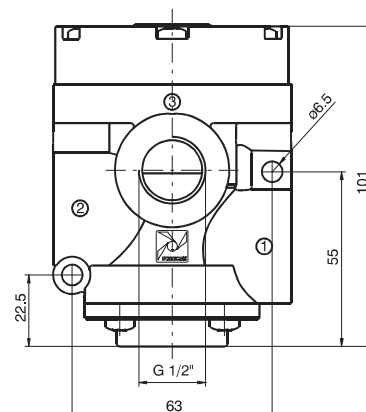
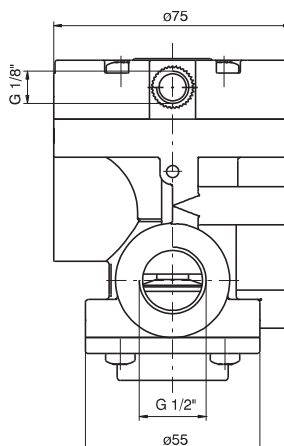
Valve Pneumatic spring

Ordering code

T772.32.11.1
Normally closed

Normally open


Weight gr. 350

Minimum piloting pressure: see diagram at General page

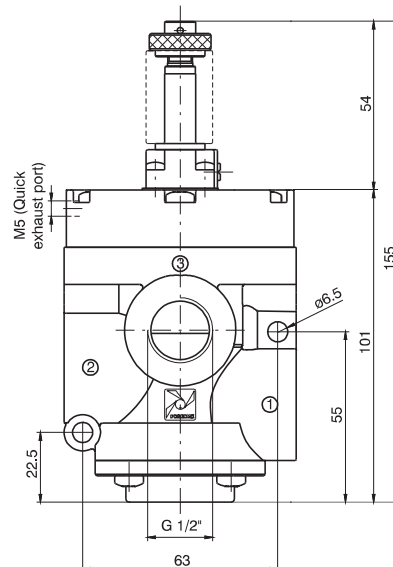
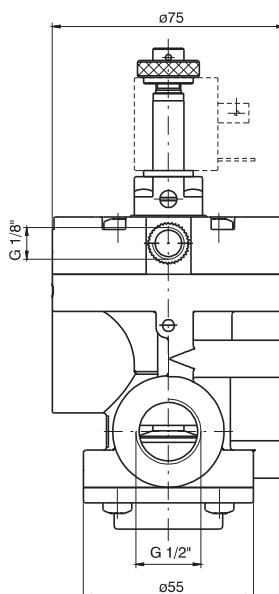


Solenoid valve Solenoid spring

3/2



Weight gr. 390



Ordering code

Internal pilot	Servoassisted external pilot	Internal pilot with quick exhaust	Servoassisted external pilot with quick exhaust
T772.32.0.1AC.MP <i>Normally closed</i> 	T772.32.0.1.MP <i>Normally closed</i> 	T772S.32.0.1AC.MP <i>Normally closed</i> 	T772S.32.0.1.MP <i>Normally closed</i>
T772.32.0.1AA.MP <i>Normally open</i> 	T772.32.0.1.MP <i>Normally open</i> 	T772S.32.0.1AA.MP <i>Normally open</i> 	T772S.32.0.1.MP <i>Normally open</i>
Minimum piloting pressure: 2.5 bar	Minimum piloting pressure: see diagram at General page	Minimum piloting pressure: 2.5 bar	Minimum piloting pressure: see diagram at General page

Operational characteristics	Fluid	Max working pressure	Operating temperature		Flow rate at 6 bar with Δp = 1 bar	Orifice size	Inlet port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	min.	max.				
			-5° C	+50°C	4100 NI/min	mm 15	G 1/2"	G 1/8"

Valve

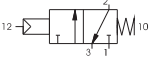
Pneumatic spring

3/2

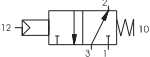
Ordering code

T772/V.32.11.1

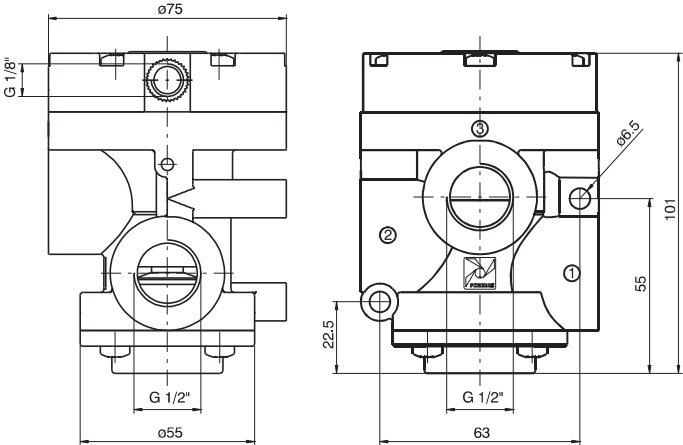
Normally open



Normally closed



Weight gr. 350



Minimum piloting pressure: 2,5 bar

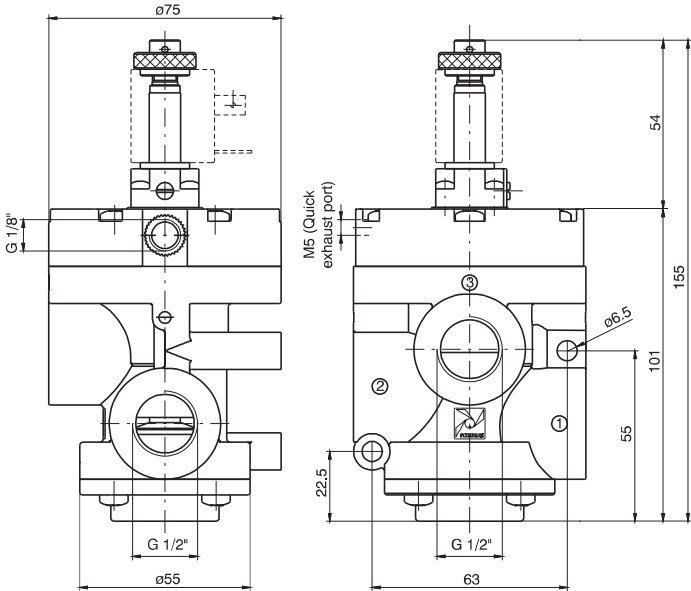
Solenoid valve

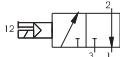
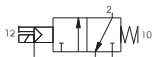
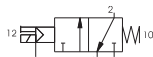
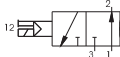
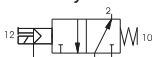
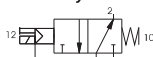
Solenoid spring

3/2



Weight gr. 390



Ordering code		
Internal pilot	Servoassisted external pilot	Servoassisted external pilot with quick exhaust
<p>T772/V.32.0.1AA.MV Normally open</p> 	<p>T772/V.32.0.1.MP Normally open</p> 	<p>T772/VS.32.0.1.MP Normally open</p> 
<p>T772/V.32.0.1AC.MV Normally closed</p> 	<p>Normally closed</p> 	<p>Normally closed</p> 
Minimum piloting pressure: 2.5 bar		

Operational characteristics	Fluid	Operating temperature		Orifice Size	Inlet port size	Pilot ports size
	Vacuum	min.	max.	mm 15	G 1/2"	G 1/8"
		-5°C	+50°C			

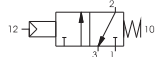
3/2

Valve Pneumatic spring

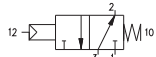
Ordering code

T773.32.11.1

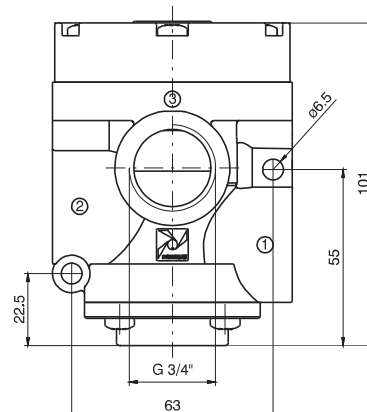
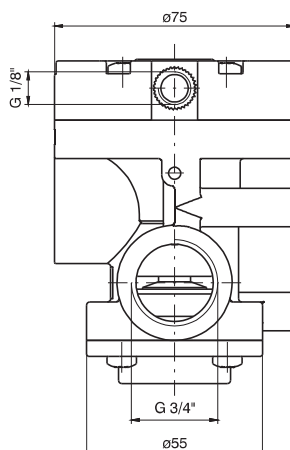
Normally closed



Normally open



Weight gr. 330

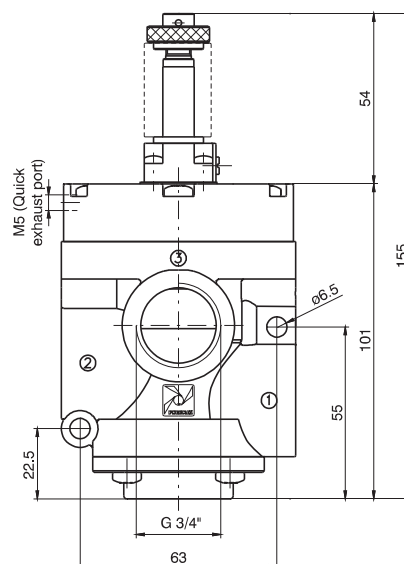
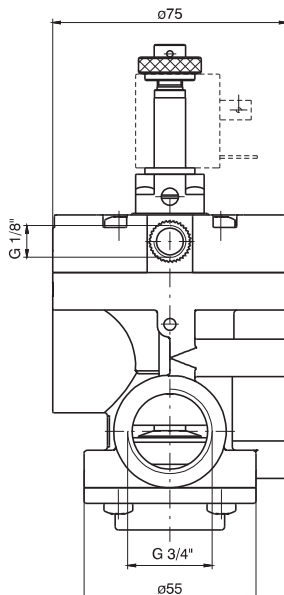


Minimum piloting pressure: see diagram at General page

Solenoid valve Solenoid spring



Weight gr. 370



3/2

Ordering code

Internal pilot	Servoassisted external pilot	Internal pilot with quick exhaust	Servoassisted external pilot with quick exhaust
T773.32.0.1AC.MP <i>Normally closed</i> 	T773.32.0.1.MP <i>Normally closed</i> 	T773S.32.0.1AC.MP <i>Normally closed</i> 	T773S.32.0.1.MP <i>Normally closed</i>
T773.32.0.1AA.MP <i>Normally open</i> 	T773.32.0.1.MP <i>Normally open</i> 	T773S.32.0.1AA.MP <i>Normally open</i> 	T773S.32.0.1.MP <i>Normally open</i>
Minimum piloting pressure: 2.5 bar	Minimum piloting pressure: see diagram at General page	Minimum piloting pressure: 2.5 bar	Minimum piloting pressure: see diagram at General page

Operational characteristics	Fluid	Max piloting pressure	Operating temperature		Flow rate at 6 bar with Δp = 1 bar	Orifice size	Inlet port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	-5° C	+50°C	6400 NI/min	mm 20	G 3/4"	G 1/8"

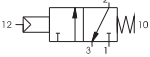
Valve
Pneumatic spring

3/2

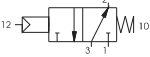
Ordering code

T773/V.32.11.1

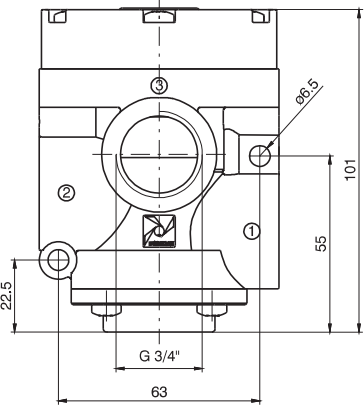
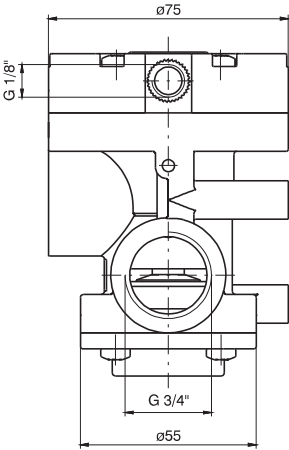
Normally open



Normally closed



Weight gr. 330



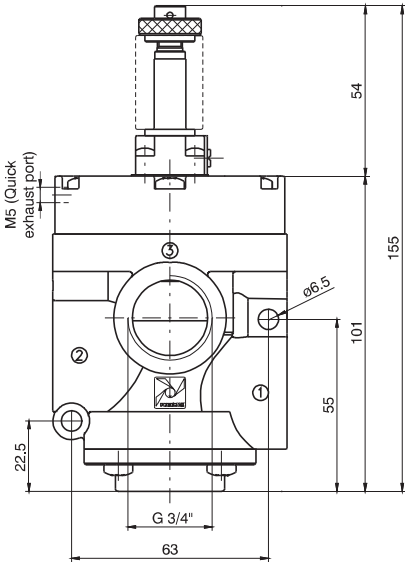
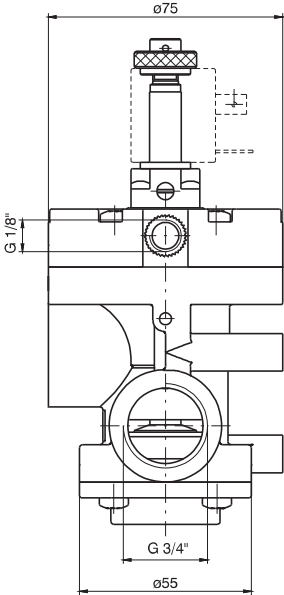
Minimum piloting pressure: 2,5 bar

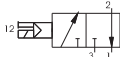
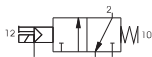
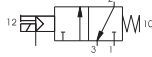
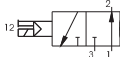
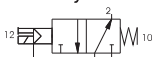
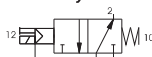
Solenoid valve
Solenoid spring

3/2



Weight gr. 370

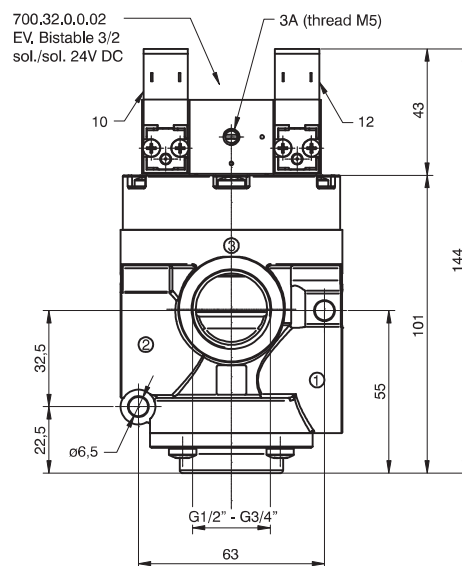
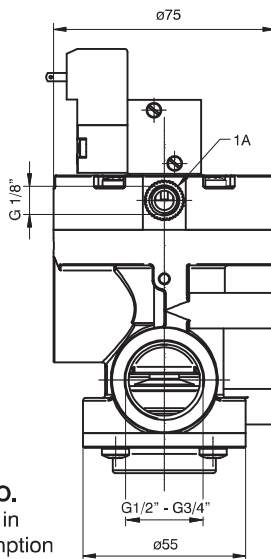


Ordering code		
Internal pilot	Servoassisted external pilot	Servoassisted external pilot with quick exhaust
T773/V.32.0.1AA.MV Normally open	T773/V.32.0.1.MP Normally open	T773/VS.32.0.1.MP Normally open
		
T773/V.32.0.1AC.MV Normally closed	T773/V.32.0.1.MP Normally closed	T773/VS.32.0.1.MP Normally closed
		
Minimum piloting pressure: 2.5 bar		

Operational characteristics	Fluid	Operating temperature		Orifice Size	Inlet port size	Pilot ports size
	Vacuum	min.	max.	mm 20	G 3/4"	G 1/8"
		-5°C	+50°C			

Bistable version for Compressed air

3/2

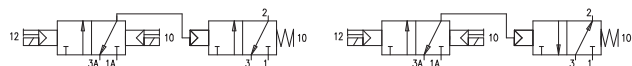


Air - N.C.

1 = line in
2 = consumption
1 = exhaust

Air - N.O.

3 = line in
2 = consumption
1 = exhaust



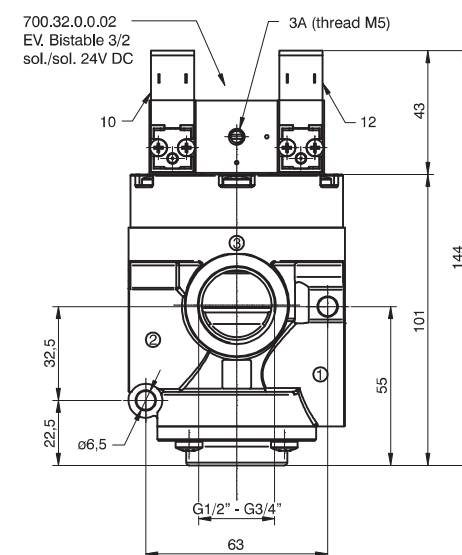
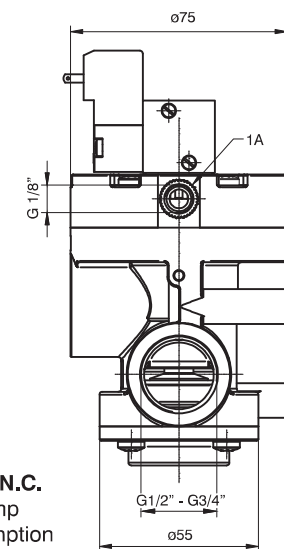
Weight gr. 550

Ordering code

G 1/2"		G 3/4"		G 1/2" (with quick exhaust)		G 3/4" (with quick exhaust)			
T772.32.0.1BP <i>Normally closed</i> <i>Normally open</i>		T773.32.0.1.BP <i>Normally closed</i> <i>Normally open</i>		T772S.32.0.1.BP <i>Normally closed</i> <i>Normally open</i>		T773S.32.0.1.BP <i>Normally closed</i> <i>Normally open</i>			
Operational characteristics	Fluid	Max piloting pressure	Min. Pilot pressure	Temperature min. max.		Flow rate at 6 bar with Δp = 1 bar	Orifice Size	piloting port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	2 bar	-5° C	+50°C	G1/2": 4100 NI/min G3/4": 6400 NI/min	mm 15	G 1/2" G 3/4"	G 1/8"

Bistable version for Vacuum

3/2

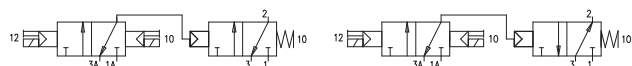


Vacuum - N.O.

3 = pump
2 = consumption
1 = exhaust

Vacuum - N.C.

1 = pump
2 = consumption
3 = exhaust



Weight gr. 550

Ordering code

G 1/2"		G 3/4"		G 1/2" (with quick exhaust)		G 3/4" (with quick exhaust)	
T772/V.32.0.1BP Normally closed Normally open		T773/V.32.0.1.BP Normally closed Normally open		T772/VS.32.0.1.BP Normally closed Normally open		T773/VS.32.0.1.BP Normally closed Normally open	
Operational characteristics	Fluid	Min. Pilot pressure	Temperature		Orifice Size	Inlet port size	Pilot ports size
	Vacuum	2,5 bar	min. -5° C	max. +50° C	mm 15	G 1/2" G 3/4"	G 1/8"

General

This new range of G1" pilot and solenoid operated poppet valves represents an evolution of the current popular Zama series and of the series T772-T773 (G1/2" - 3/4").


Also for this series the main feature is the technopolimer material used to mould most of its components. The use of this materiel results in a versatile, lightweight and economical valve.

The new series also has other technical and functional enhancements over the existing range. Firstly, the traditional piston lip seal has been replaced with a rolling diaphragm, thereby eliminating frictional wear and tear to this seal. The new series (with the exception of certain vacuum models) also features a seal, which separates port 3 from the piston head. The inclusion of this seal has enhanced the valve's performance and allows the valve to be used as normally open (a configuration not possible in the Zama series).

Solenoid operated valves (both internal and external pilot versions) are fitted with a quick exhaust unit, which reduces the return stroke operating time by 80%. The bulk of the valves in this series use the MP type operator, the exception being internally piloted vacuum models, which use the MV operator. These operators differ from the M2 type in that they have self-tapping mounting screws for use in plastics.

Bistable versions are also available, both for air or for vacuum. These valves are fitted with a 3/2 sol-sol valve (instead of the standard pilot valve) fitted with two 15mm 24V Dc microvalves (N331.0A).Ordering codes refer to solenoid valves with MP or MV assembled on them.

Coils are not included and have to be ordered separately (series 300, Section 1, General Catalogue), with the exception of the bistable versions which already include 24V Dc Coils (N331.0A).

Coils  US homologated are also available (see series 300).

Construction characteristics

Body, operator and end cover	High resistance technopolymer
Seals and poppets	NBR
Piston and shaft	Acetal resin
Springs	AISI 302 stainless steel
Diaphragm	NBR

Use and mainutenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.

Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.

Check that the operating conditions: pressure, temperature and so on are as suggested.

The exhaust port of the distributor has to be protected in a dusty and dirty environment.

For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

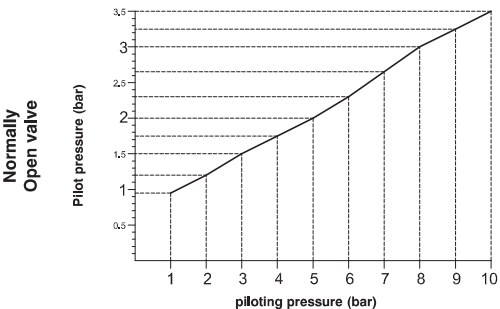
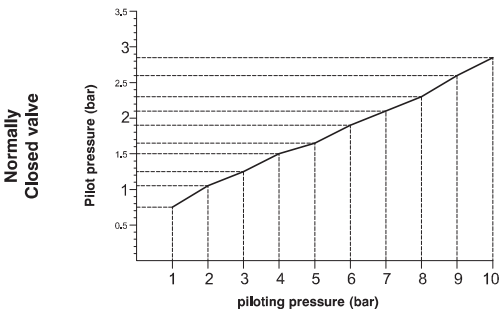
Air valve port layout:

- Normally closed:
- 1 = LINE IN
2 = CONSUMPTION
3 = EXHAUST
- Normally open:
- 1 = EXHAUST
2 = CONSUMPTION
3 = LINE IN

Vacuum valve port layout:

- Normally closed internal pilot
- Normally open (servoassisted) external pilot
- 1 = EXHAUST
2 = CONSUMPTION
3 = PUMP
- Normally open internal pilot
- Normally closed (servoassisted) external pilot
- 1 = PUMP
2 = CONSUMPTION
3 = EXHAUST

MINIMUM piloting PRESSURE DIAGRAM (Valves for compressed air)
PNEUMATIC/SPRING AND EXTERNAL SOLENOID PILOT VERSION



3/2

Valve Pneumatic spring

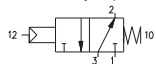
Ordering code

T771.32.11.1

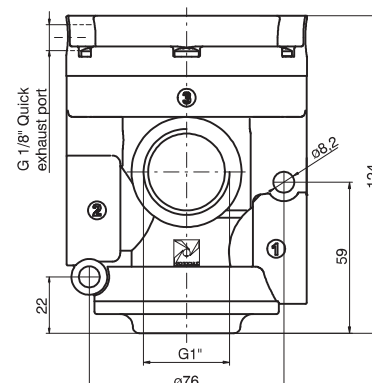
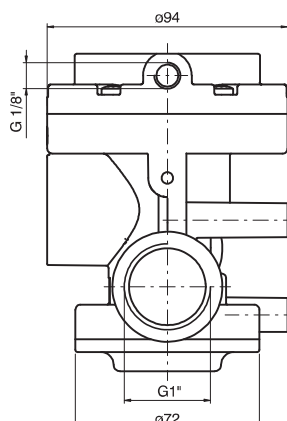
Normally closed



Normally open



Weight gr. 480



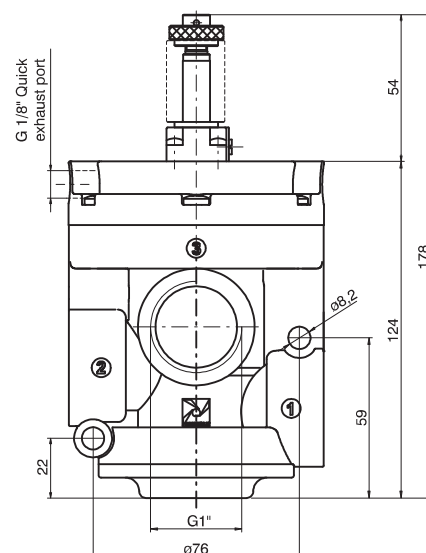
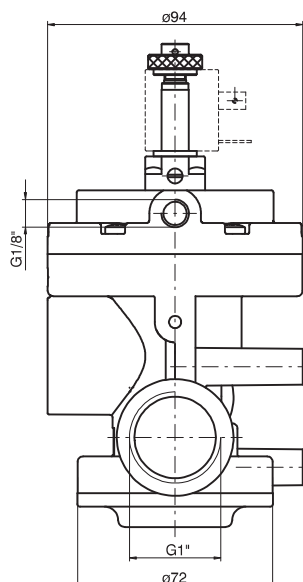
Minimum piloting pressure: see diagram at General page

Solenoid valve Solenoid spring

3/2



Weight gr. 520



Ordering code

Internal pilot	Servoassisted external pilot	Internal pilot with quick exhaust	Servoassisted external pilot with quick exhaust
T771.32.0.1AC.MP <i>Normally closed</i> 	T771.32.0.1.MP <i>Normally closed</i> 	T771S.32.0.1AC.MP <i>Normally closed</i> 	T771S.32.0.1.MP <i>Normally closed</i>
T771.32.0.1AA.MP <i>Normally open</i> 	T771.32.0.1.MP <i>Normally open</i> 	T771S.32.0.1AA.MP <i>Normally open</i> 	T771S.32.0.1.MP <i>Normally open</i>
Minimum piloting pressure: 2,5 bar	Minimum piloting pressure: see diagram at General page	Minimum piloting pressure: 2,5 bar	Minimum piloting pressure: see diagram at General page

Operational characteristics	Fluid	Max piloting pressure	Operating temperature		Flow rate at 6 bar with $\Delta p = 1$ bar	Orifice size	Inlet port size	Pilot ports size
	Filtered and lubricated or non lubricated air	10 bar	-5° C	+50° C	12.000 NI/min	mm 25	G 1"	G 1/8"

Valve

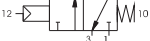
Pneumatic spring

3/2

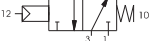
Ordering code

T771/V.32.11.1

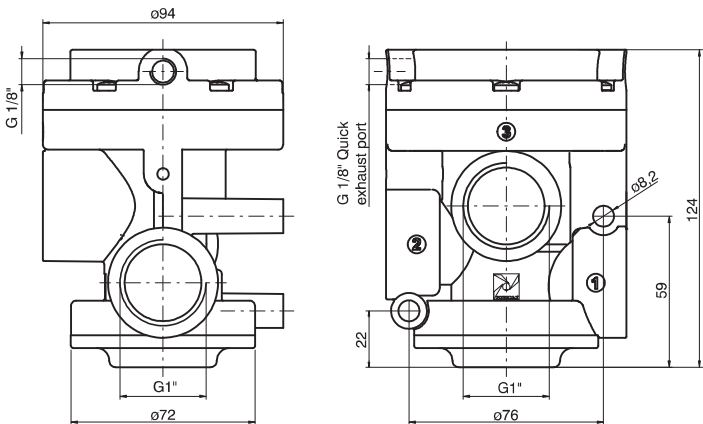
Normally open



Normally closed



Weight gr. 480



Minimum piloting pressure: 2 bar

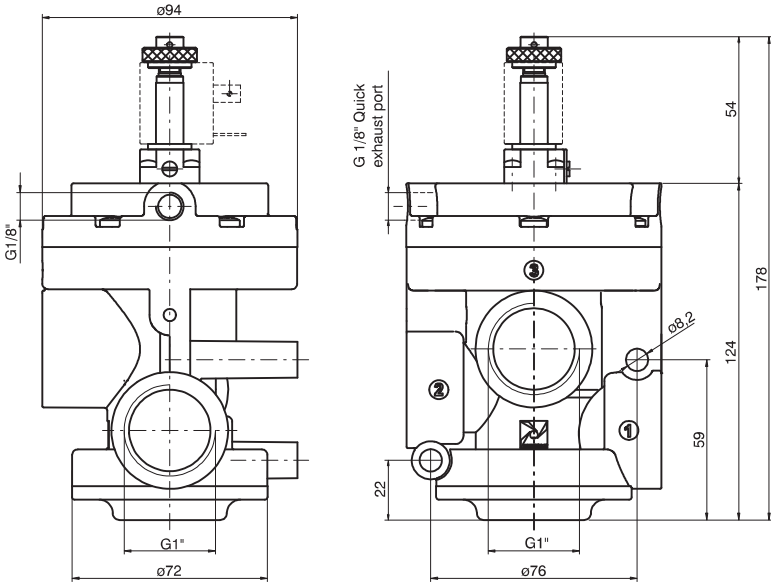
Solenoid valve

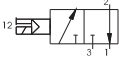
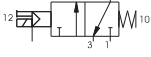
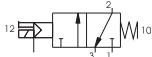
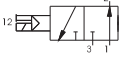
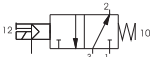

Solenoid spring

3/2



Weight gr. 520



Ordering code		
Internal pilot	Servoassisted external pilot	Servoassisted external pilot with quick exhaust
T771/V.32.0.1AA.MV Normally open 	T771/V.32.0.1.MP Normally open 	T771/VS.32.0.1.MP Normally open 
T771/V.32.0.1AC.MV Normally closed 	Normally closed 	Normally closed 

Minimum piloting pressure: 2 bar

Operational characteristics	Fluid	Temperature		Orifice size	Inlet port size	Pilot ports size
	Vacuum	min.	max.	mm 25	G 1"	G 1/8"

Bistable version for Compressed air

3/2

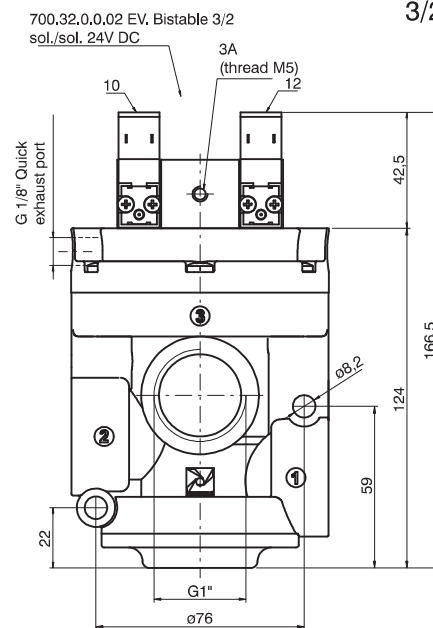
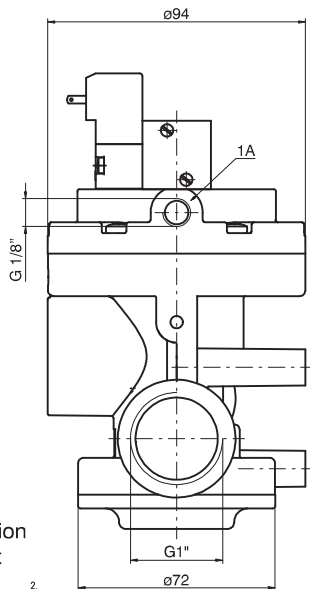
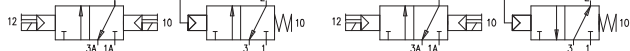


Air - N.C.

1 = line in
2 = consumption
3 = exhaust

Air - N.O.

3 = line in
2 = consumption
1 = exhaust



Weight gr. 680

Ordering code

T771.32.0.1BP

Normally closed / Normally open

with quick exhaust

T771S.32.0.1.BP

Normally closed / Normally open

Operational characteristics	Fluid	Max piloting pressure	Minumum piloting pressure	Operating temperature		Flow rate at 6 bar with $\Delta p = 1$ bar	Orifice size	inlet port size	Pilot ports size
	Filtered and lubricated air	10 bar	2,5 bar	-5° C	+50° C				

Bistable version for Vacuum

3/2

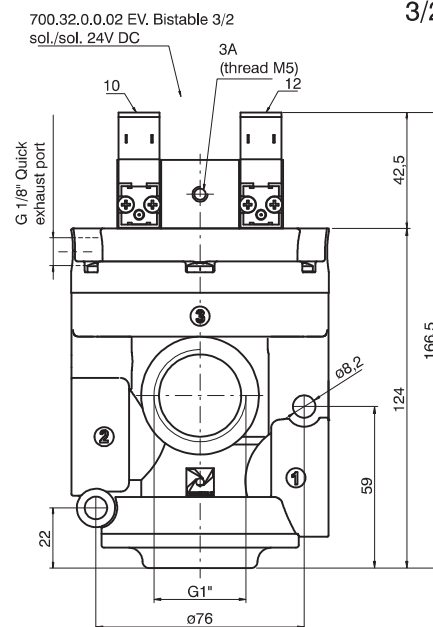
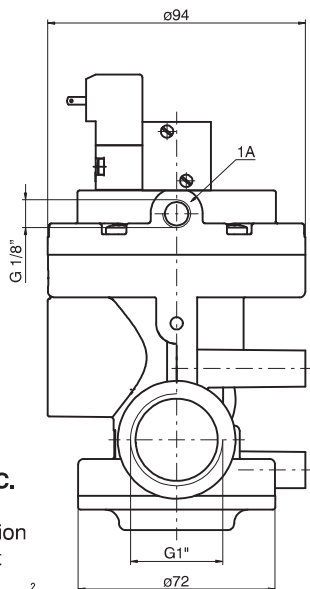
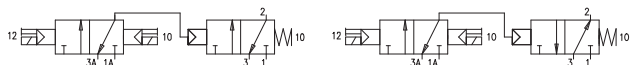


Vacuum - N.O.

3 = pump
2 = consumption
1 = exhaust

Vacuum - N.C.

1 = pump
2 = consumption
3 = exhaust



Weight gr. 680

Ordering code

T771/V.32.0.1BP

Normally closed / Normally open

with quick exhaust

T771/VS.32.0.1.BP

Normally closed / Normally open

Operational characteristics	Fluid	Minumum piloting pressure	Temperature		Orifice size	Inlet port size	Pilot ports size
	Vacuum	2,5 bar	-5° C	+50° C			

General

The N776 G1.1/2" series of valves and solenoid operated poppet valves is the result of the technical evolution of the 776 series. A rolling diaphragm construction has replaced the previously used piston design ensure lower frictions and longer life. Connection 3 is isolated via a dedicated seal which allow to have the N.O. version as well as the self feed for vacuum which was not available on the 776 series.

The pilot valves are the M3R (CNOMO Stile) with bistable manual override.

Coils are not included and have to be ordered separately (see 300 series, 22mm MB coils and 30mm CNOMO MC coils).

Coils C RU US homologated are also available. (series 300).

Construction characteristics

Body, operator and end cover:	Die casting Aluminium
Seals and poppets:	NBR oil resistant rubber
Piston:	Aluminium (for Air) - Acetylic resin (for Vacuum)
Pin guide:	Nickel plated steel
Spring:	Steel
Diaphragm:	NBR oil resistant rubber

Use and mainutenance

These valves have a mean life of 10 to 15 million cycles under normal operating conditions.

Lubrication is not required for good operation but we recommend good filtration to avoid dirty deposit causing malfunction.

Check that the operating conditions: pressure, temperature and so on are as suggested.

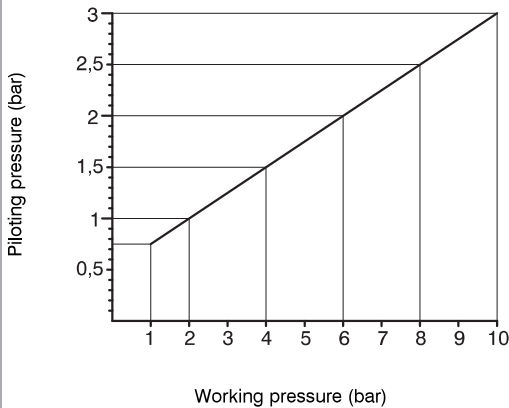
The exhaust port of the distributor has to be protected in a dusty and dirty environment.

For these products, according to the construction technique and special application, is not required any maintenance with parts replacement. When necessary it is sufficient to clean the internal parts.

When it is used the solenoid valves with internal pilot, either for air or vacuum, inlet flow rate must be equal or higher that the required consumption flow rate, otherwise is better choose the external pilot version.

Air valves port layout:		Vacuum valves port layout:	
Normally Closed:	1 = LINE IN	Normally Closed internal Pilot	1 = EXHAUST
	2 = CONSUMPTION	Normally Open (servoassisted) external pilot	2 = CONSUMPTION
	3 = EXHAUST		3 = PUMP
Normally Open:	1 = EXHAUST	Normally Open internal Pilot	1 = PUMP
	2 = CONSUMPTION	Normally Closed servoassisted) external pilot	2 = CONSUMPTION
	3 = LINE IN		3 = EXHAUST

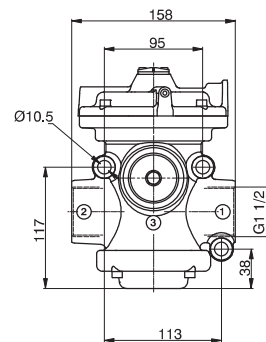
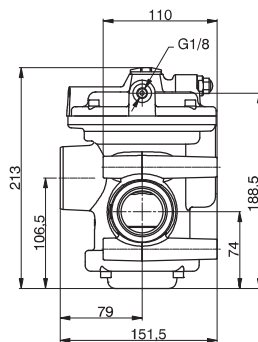
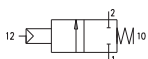
Minumum working pressure diagram
for external pilot versions
Normally Closed & Normally Open



Pneumatic - Spring

Ordering code

N776.22.11.1C



Weight gr.3560
Normally Closed
Minimum piloting pressure "See diagram on the General page"

Operational characteristics

Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air or non	-5 ÷ +70	10	33500	38	G1 1/2"	G1/8"

Solenoid - Spring

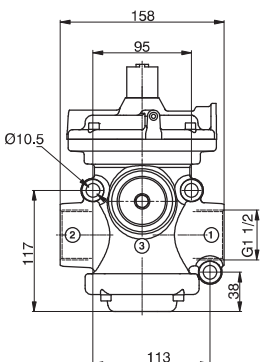
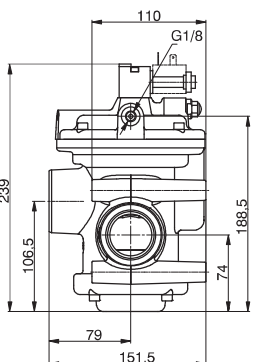
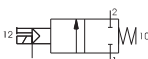
Ordering code

N776.22.0.F.M3R

FUNCTION

1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed



Weight gr.3620
Minimum piloting pressure: Servoassisted external pilot version, "See diagram on the General page" / 3,5 bar internal pilot version,

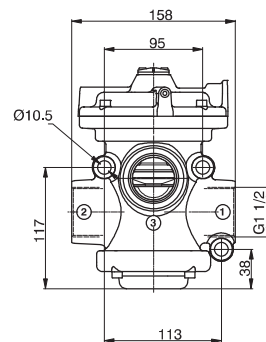
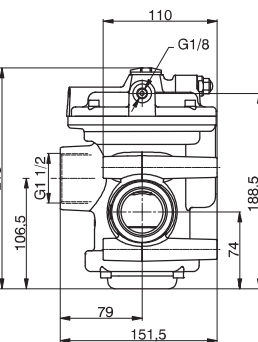
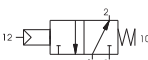
Operational characteristics

Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air or non	-5 ÷ +50	10	33500	38	G1 1/2"	G1/8"

Pneumatic - Spring

Ordering code

N776.32.11.1



Weight gr.3550
Normally Closed / Normally open
Minimum piloting pressure "See diagram on the General page"

Operational characteristics

Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air or non	-5 ÷ +70	10	33500	38	G1 1/2"	G1/8"

Solenoid - Spring

Ordering code

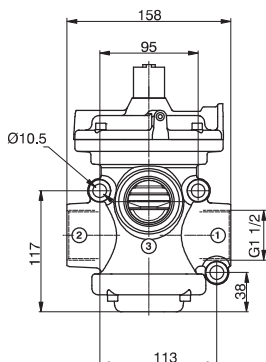
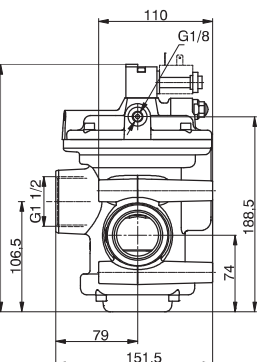
N776.32.0.F.M3R

FUNCTION

1AC=Internal Pilot Normally Closed

1AA=Internal Pilot Normally Open

1=External Pilot Normally Closed-Normally Open



Weight gr.3610
Minimum piloting pressure: Servoassisted external pilot "See diagram on the General page" / 3,5 bar Internal pilot version,

Operational characteristics

Fluid	Temperature °C	Max working pressure (bar)	Flow rate at 6 bar with $\Delta p=1$ (NI/min)	Orifice size (mm)	Working ports size	Pilot ports size
Filtered and lubricated air or non	-5 ÷ +50	10	33500	38	G1 1/2"	G1/8"

Pneumatic - Spring


Ordering code

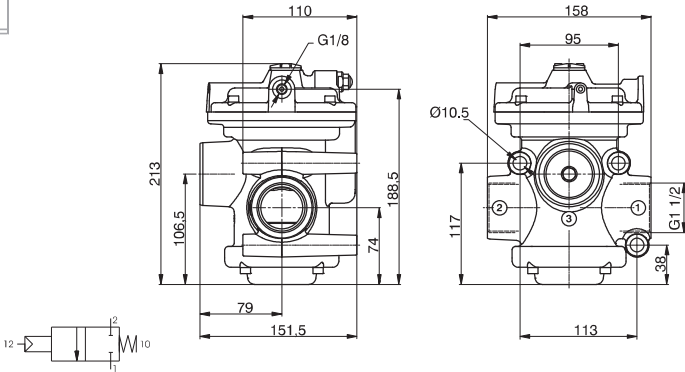
N776/V.22.11.1C

Weight gr.3178

Normally Closed

Minimum piloting pressur 2 bar





Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"

Solenoid - Spring


Ordering code

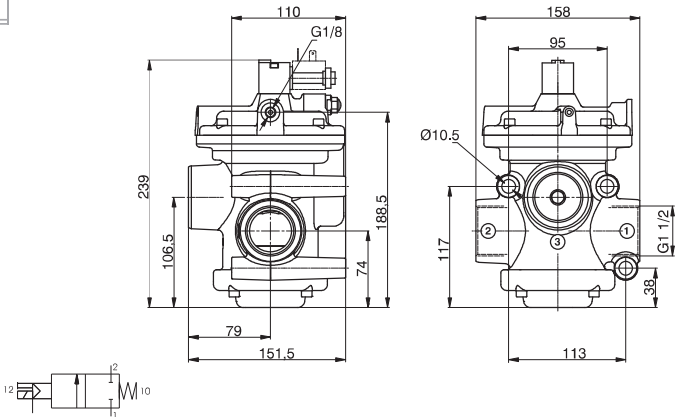
N776/V.22.0.F.M3R

FUNCTION

F 1AC=Internal Pilot Normally Closed

1C=External Pilot Normally Closed





Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"

Pneumatic - Spring


Ordering code

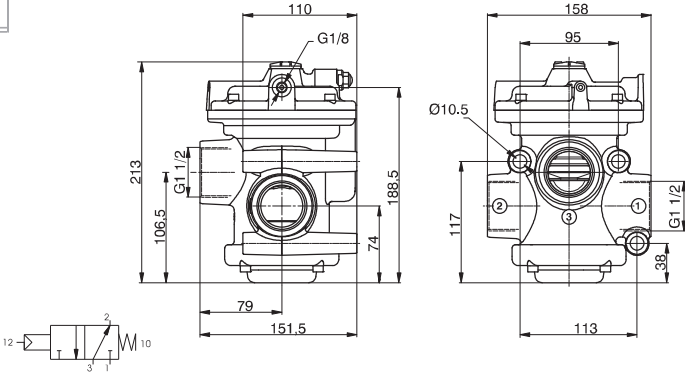
N776/V.32.11.1

Weight gr.3168

Normally Closed / Normally open

Minimum piloting pressur 2 bar





Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +70	38	G1 1/2"	G1/8"

Solenoid - Spring

Ordering code


N776/V.32.0.F.M3R

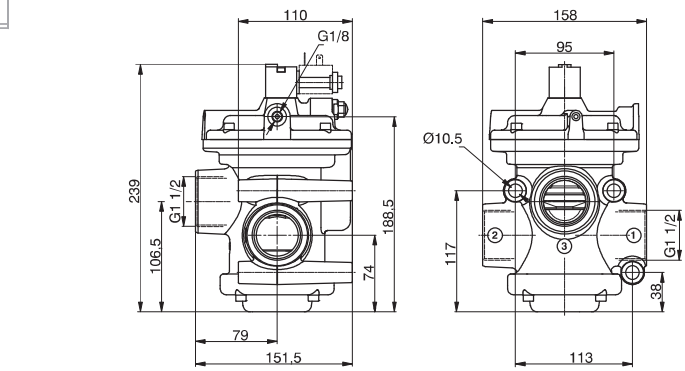
FUNCTION

F 1AC=Internal Pilot Normally Closed

1AA=Internal Pilot Normally Open

1=External Pilot Normally Closed-Normally Open





Operational characteristics	Fluid	Temperature °C	Orifice size (mm)	Working ports size	Pilot ports size
	Vacuum	-5 ÷ +50	38	G1 1/2"	G1/8"

Overall dimensions and technical information are provided solely for informative purposes and may be modified without notice.

2.106

General

Pad Valves offer a reliable and economic solution to fluid control.

The valve is manufactured with a 2 way Bronze body and actuated pneumatically using either a single or double acting compact cylinder which can be rotated 360°.

Versions are available with NBR, FPM or PTFE valve seals.

The barrel profile allows the use of magnetic sensors code "1500._", "RS._", "HS._", for slots "A" type.
(see the Pneumax General catalogue, chapter 4).

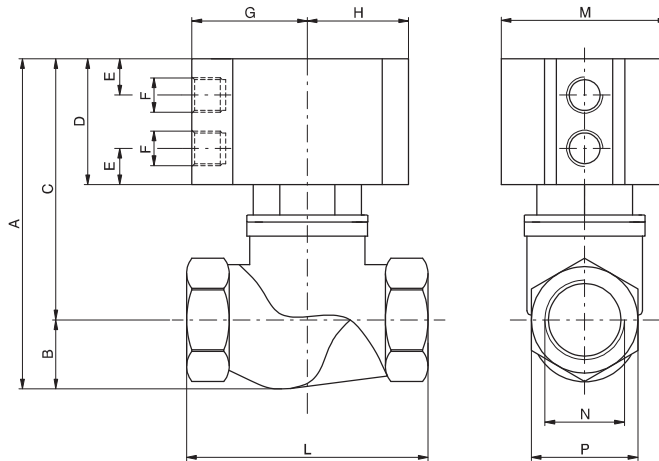
Construction characteristics

Rear eye, Piston and Rod bushing	Anodized aluminium
Cylinder	Aluminium alloy Anodized
Spring	Zinc plated steel
Pneumatic cylinder seals	NBR (FPM for variants with seals in contact with fluid in FPM or PTFE)
Seals in contact with fluid	NBR, FPM, PTFE
Piston rod	Chromed stainless steel
Bushing, Bushing pad, Nut pad	Brass

Working characteristics

Pneumatic cylinder fluid	Filtered and lubricated air or non
Valve fluid	Fluid compatible with gasket compounds available
Maximum working pressure (bar)	10
Temperature °C, non magnetic piston, NBR seals	-10 / + 70
non magnetic piston, FPM seals	-10 / + 150
non magnetic piston, PTFE seals	-10 / + 150
magnetic piston, NBR, FPM, PTFE seals	-10 / + 70

"T" body version Pad valves

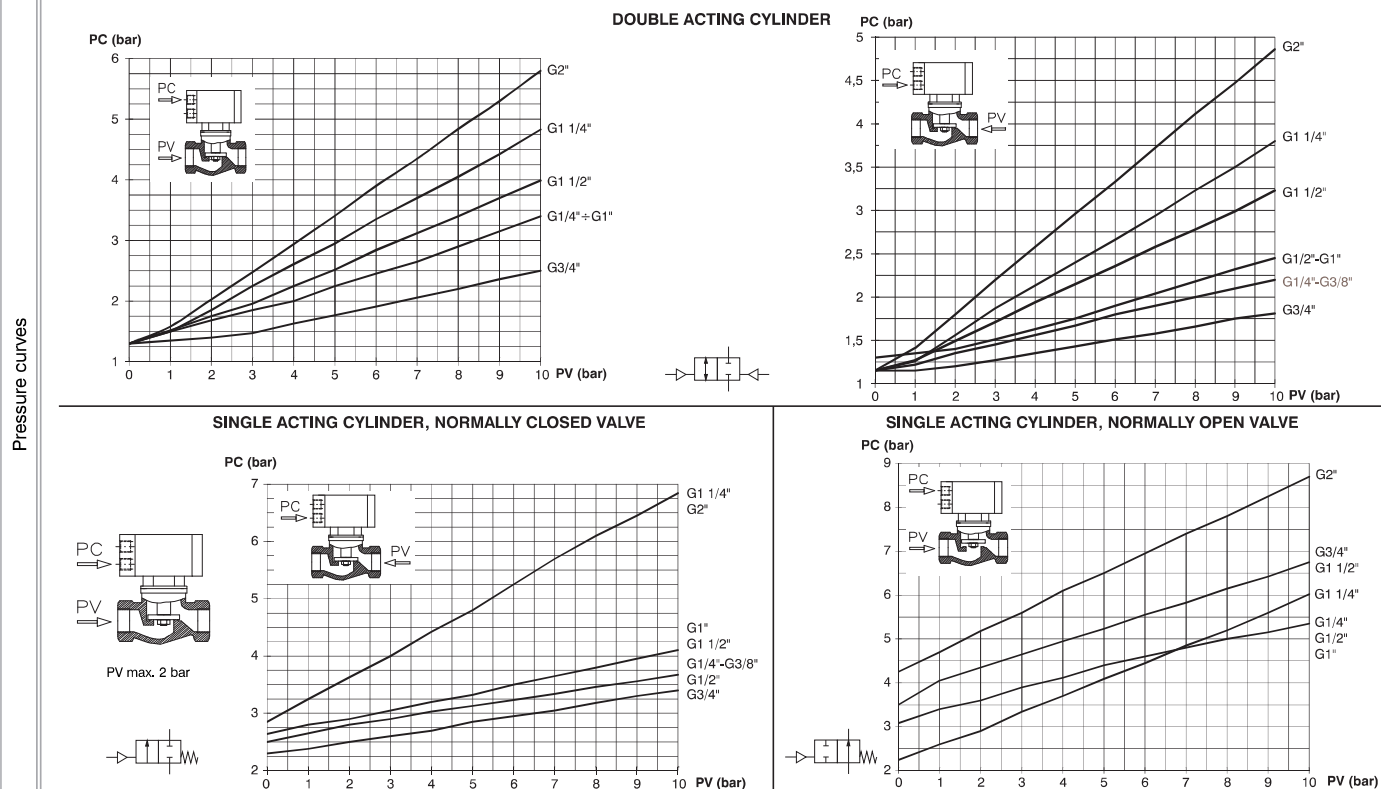


Ordering code	
PVA.B.A.P.T.C.S	
ACTING	
A	DE=Double acting
	SC=Normally closed
	SA=Normally open
PISTON	
P	N=Non magnetic
	M= Magnetic
CONNECTIONS	
	A=G1/4"
	B=G3/8"
	C=G1/2"
C	D=G3/4"
	E=G1"
	F=G1 1/4"
	G=G1 1/2"
	H=G2"
SEALS	
S	N=NBR
	V=FPM
	F=PTFE

TABLE OF DIMENSIONS

Connection (N)	Non magnetic version			Magnetic version			TECHNICAL DATA													
	A	C	D	A	C	D	B	E	F	G	H	L	M	P	Actuator (Ø)	Nominal Valve (Ø)	Weight (gr.)			
G1/4"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	Ø40	Ø13,5	350			
G3/8"	93,5	77,5	41	97,5	81,5	45	16	10,25	G1/8"	32,5	28,5	64	47	25	Ø40	Ø13,5	350			
G1/2"	93,5	78	41	99,5	82	45	17,5	10,25	G1/8"	32,5	28,5	68	47	30	Ø40	Ø15	400			
G 3/4"	105	83	41	113	90	48	22	11,25	G1/8"	44	40	79	70	36	Ø63	Ø20,5	850			
G1"	117	89	41	125	101	53	28	11,25	G1/8"	44	40	94	70	44	Ø63	Ø25	1100			
G1 1/4"	131	103	48	136	108	53	28	11,25	G1/8"	44	40	110	70	55	Ø63	Ø30	1400			
G1 1/2"	154	118	57	166	130	69	36	13,75	G1/8"	56	49	120	90	60	Ø80	Ø38	2100			
G2"	169	124	57	181	136	69	45	13,75	G1/8"	56	49	140	90	73	Ø80	Ø49,5	3000			

Pad valves, 2-ways, are a reliable and economic solution to control fluid. Pneumatically actuated by a compact double or single acting cylinder with 360° revolving connections. Standard seals in contact with fluid are made in NBR, FPM or PTFE. The barrel profile allows the use of Pneumax magnetic sensors series 1500 (see the Pneumax General catalogue, chapter 4).



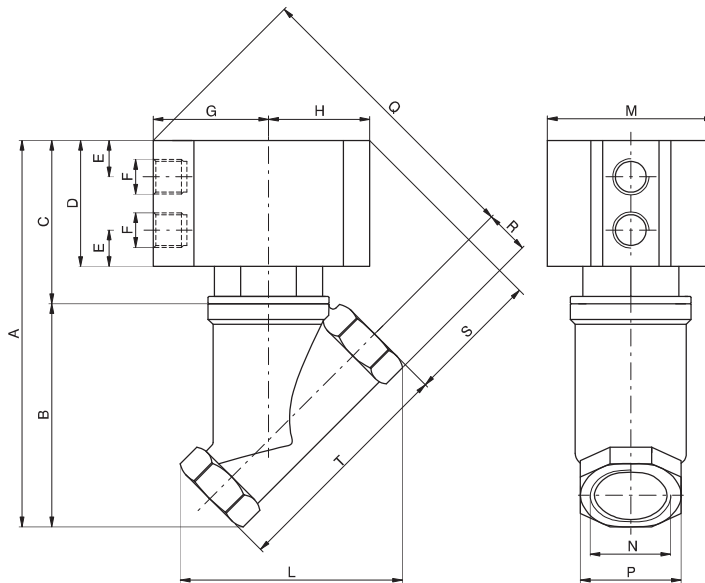
Operational characteristics

- Rear eye, Piston and Rod bushing=Anodized aluminium
- Cylinder=Aluminium alloy Anodized
- Spring=Zinc plated steel
- Seals=NBR, FPM, PTFE
- Piston rod=Chromed stainless steel
- Bushing, Bushing pad, Nut pad=Brass

Technical characteristics

Fluid	Filtered and lubricated air or non
Maximum working pressure (bar)	10
Temperature °C (non magnetic piston, NBR seals)	-10 / + 70
Temperature °C (non magnetic piston, FPM seals)	-10 / + 150
Temperature °C (non magnetic piston, PTFE seals)	-10 / + 150
Temperature °C (magnetic piston, NBR, FPM, PTFE seals)	-10 / + 70

"Y" body version Pad valves



Ordering code

PVA.B.A.P.Y.C.S

ACTING

- A** DE=Double acting
- SC=Normally closed
- SA=Normally open

PISTON

- P** N=Non magnetic
- M= Magnetic

CONNECTIONS

- C** A=G1/4"
- B=G3/8"
- C=G1/2"
- D=G3/4"
- E=G1"
- F=G1 1/4"
- G=G1 1/2"
- H=G2"

SEALS

- S** N=NBR
- V=FPM
- F=PTFE

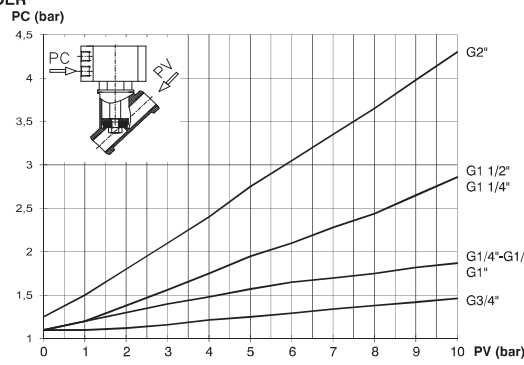
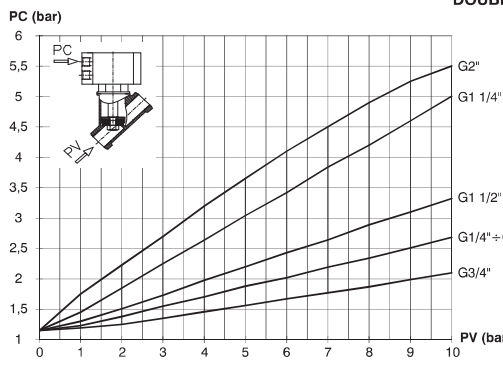
TABLE OF DIMENSIONS

Connection (N)		Non magnetic version					Magnetic version															TECHNICAL DATA		
		A	C	D	Q	S	A	C	D	Q	S	B	E	F	G	H	L	M	P	R	T	Actuator (Ø)	Nominal Valve (Ø)	Weight (gr.)
G1/4"		121	71	45	95	51	124	74	48	97	53	50	10,3	G1/8"	32,5	28,5	52	47	21	10,5	50	Ø40	Ø13	350
G3/8"		121	71	45	95	51	124	74	48	97	53	50	10,3	G1/8"	32,5	28,5	52	47	21	10,5	50	Ø40	Ø13	350
G1/2"		127	71	45	97	54	130	74	48	99	56	56	10,3	G1/8"	32,5	28,5	57	47	27	13,5	56	Ø40	Ø13	400
G 3/4"		148	80	48	119	66	201	133	104	175	92	68	11,3	G1/8"	44	40	70	70	32	16	66	Ø63	Ø18	850
G1"		159	75	48	123	75	215	131	104	175	92	84	11,3	G1/8"	44	40	82	70	38	19	78	Ø63	Ø21,5	850
G1 1/4"		184	91	65	140	70	231	138	112	172	96	93	11,3	G1/8"	44	40	105	70	47	23,5	101	Ø63	Ø30	1200
G1 1/2"		180	99	81	173	85	255	129	111	187	107	126	13,8	G1/8"	56	49	125	90	55	27,5	113	Ø80	Ø36	2000
G2"		246	106	88	182	88	269	129	111	203	109	140	13,8	G1/8"	56	49	136	90	68	34	125	Ø80	Ø46	2300

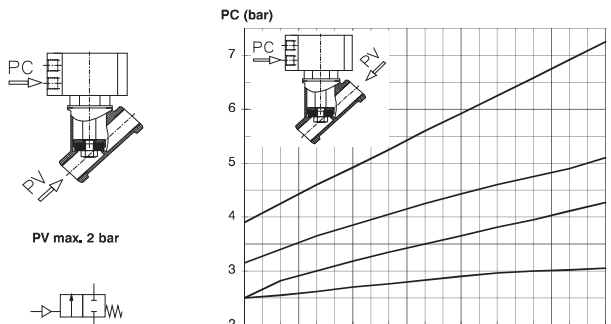
Pad valves, 2-ways, are a reliable and economic solution to control fluid. Pneumatically actuated by a compact double or single acting cylinder with 360° revolving connections. Standard seals in contact with fluid are made in NBR, FPM or PTFE. The barrel profile allows the use of Pneumax magnetic sensors series 1500 (see the Pneumax General catalogue, chapter 4).

Pressure curves

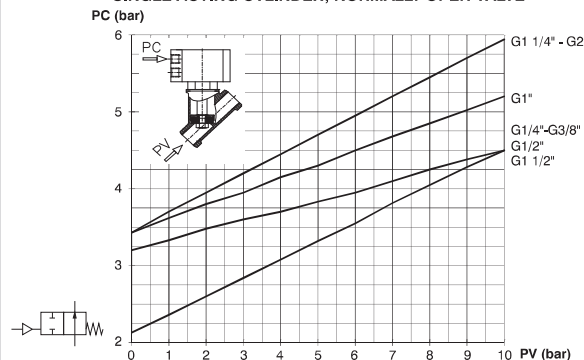
DOUBLE ACTING CYLINDER



SINGLE ACTING CYLINDER, NORMALLY CLOSED VALVE



SINGLE ACTING CYLINDER, NORMALLY OPEN VALVE



Operational characteristics

- Rear eye, Piston and Rod bushing=Anodized aluminium
- Cylinder=Aluminium alloy Anodized
- Spring=Zinc plated steel
- Seals=NBR, FPM, PTFE
- Piston rod=Chromed stainless steel
- Bushing, Bushing pad, Nut pad=Brass

Technical characteristics

Fluid	Filtered and lubricated air or non
Maximum working pressure (bar)	10
Temperature °C (non magnetic piston, NBR seals)	-10 / + 70
Temperature °C (non magnetic piston, FPM seals)	-10 / + 150
Temperature °C (non magnetic piston, PTFE seals)	-10 / + 150
Temperature °C (magnetic piston, NBR, FPM, PTFE seals)	-10 / + 70