




Series 700 - For compressed air and vacuum

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.

Coil are not included and have to be ordered separately (see Series 300).

Coil c  **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
Actuators			NBR	
Bottom plates			Aluminium	
Springs			Stainless steel	
Actuators rod			Stainless steel	
Pistons			Aluminium	
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. Please ensure that the valve is being used according with the manufacturers specification, such as air pressure and temperature. 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.

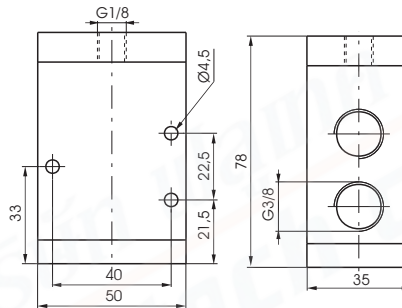
Otherwise is better choose the external pilot version.

Pneumatic - Spring

Coding: 779.32.11.Ⓡ

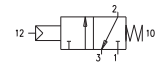
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-10 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	1800
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

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



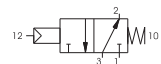
For compressed air - N.C.

Inlet port 1
Outlet port 2
Exhaust port 3



For compressed air - N.O.

Inlet port 3
Outlet port 2
Outlet port 1



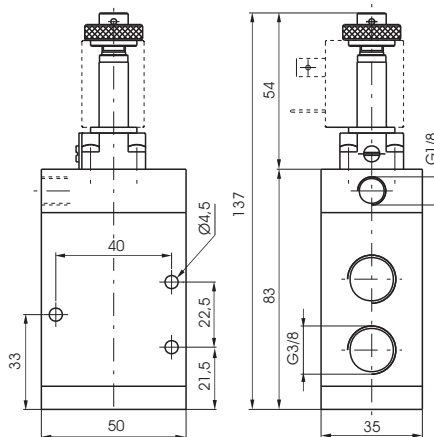
Weight 360 g
Attention: for the Normally open version, connect the inlet port to the exhaust port No "3".

Solenoid - Spring

Coding: 779.32.0.Ⓡ.M2

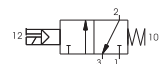
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilot version)
Temperature °C	-10 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	1800
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

FUNCTION	
1AC =	Internal pilot normally closed
Ⓡ	1C = External pilot normally closed
1AA =	Internal pilot normally open
1A =	External pilot normally open



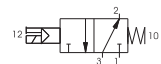
Internal pilot - N.C.

Inlet port 1
Outlet port 2
Exhaust port 3



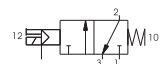
Internal pilot - N.O.

Inlet port 3
Outlet port 2
Outlet port 1



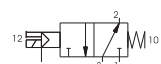
External pilot - N.C.

Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.O.

Inlet port 3
Outlet port 2
Outlet port 1



Weight 420 g



Valves and solenoid valves poppet system Series 700 - For vacuum - G3/8"

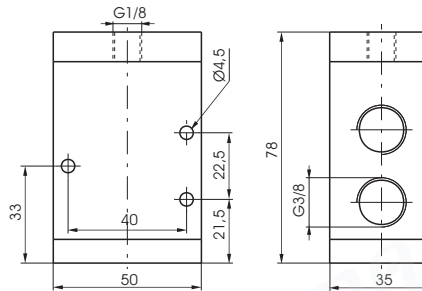
1
AIR DISTRIBUTION

Pneumatic - Spring

Coding: 779/V.32.11. **F**

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ÷ +70
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

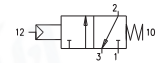
FUNCTION	
F	1C = Normally Closed
	1A = Normally Open



Weight 360 g

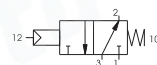
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1

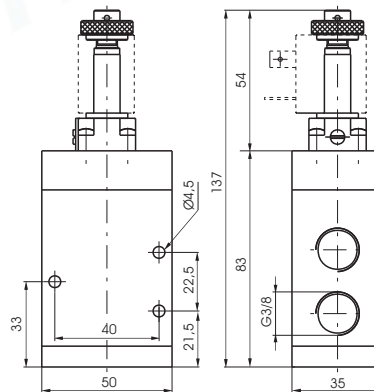


Solenoid-Spring - Internal pilot

Coding: 779/V.32.0. **F**.M2/V

Operational characteristics	
Fluid	Vacuum
Temperature °C	-10 ÷ +50
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

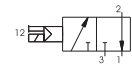
FUNCTION	
F	1AA = Normally Open
	1AC = Normally Closed



Weight 420 g

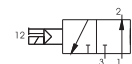
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1

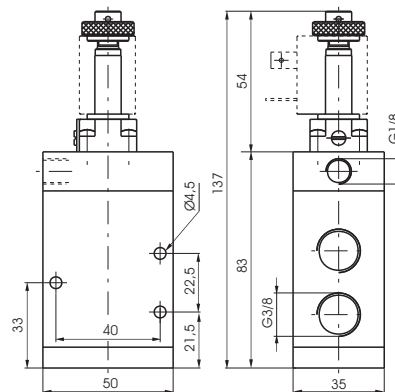


Solenoid-Spring - External pilot

Coding: 779/V.32.0. **F**.M2

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-10 ÷ +50
Orifice size (mm)	10
Working ports size	G3/8"
Pilot ports size	G1/8"

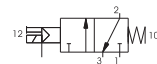
FUNCTION	
F	1A = Normally Open
	1C = Normally Closed



Weight 420 g

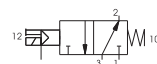
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

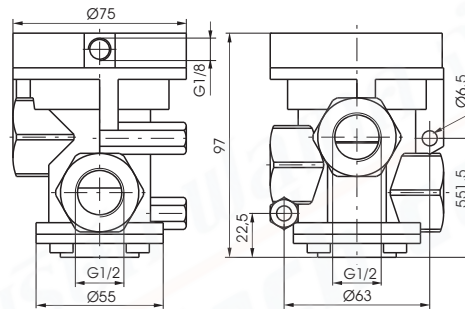
Exhaust port 3
Outlet port 2
Pump 1



Pneumatic - Spring

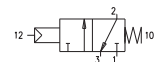
Coding: 772.32.11.1C

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	4800
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"



Weight 1100 g
Normally Closed

For compressed air - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3

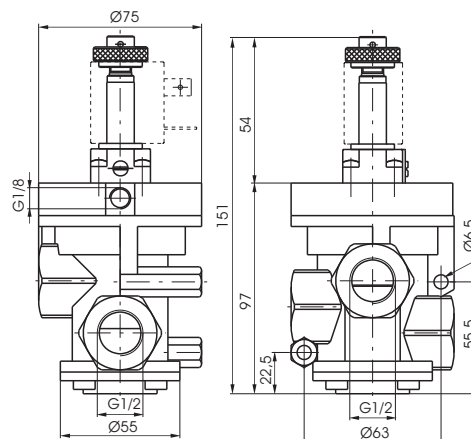


Solenoid - Spring

Coding: 772.32.0.Ⓜ.M2

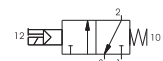
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilot version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	4800
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

FUNCTION	
Ⓜ	1AC = Internal pilot normally closed
	1C = External pilot normally closed

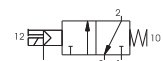


Weight 1160 g

Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3





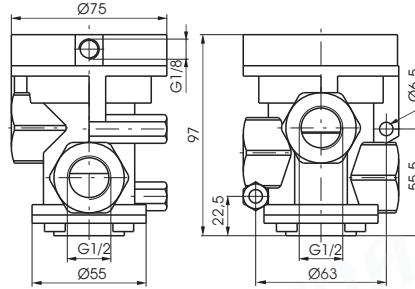
Valves and solenoid valves poppet system Series 700 - For vacuum - G1/2"

Pneumatic - Spring

Coding: 772/V.32.11.ⓕ

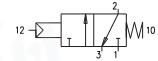
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +70
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

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



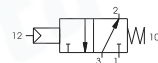
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1



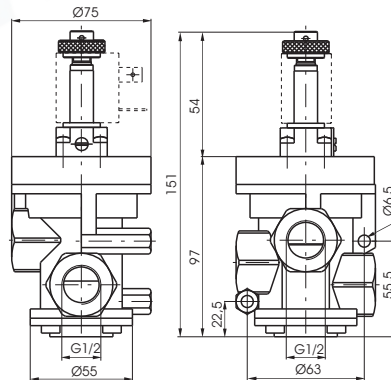
Weight 1100 g

Solenoid-Spring - Internal pilot

Coding: 772/V.32.0.ⓕ.M2/V

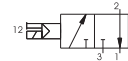
Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

FUNCTION	
ⓕ	1AA = Normally Open
	1AC = Normally Closed



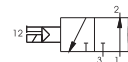
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1



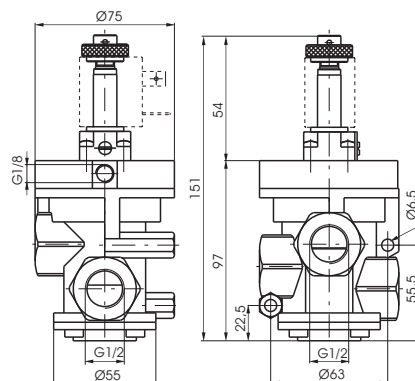
Weight 1160 g

Solenoid-Spring - External pilot

Coding: 772/V.32.0.ⓕ.M2

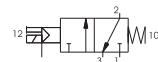
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Orifice size (mm)	15
Working ports size	G1/2"
Pilot ports size	G1/8"

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



For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1

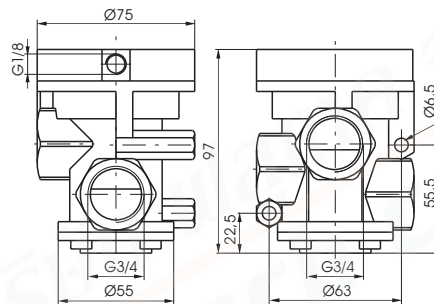


Weight 1160 g

Pneumatic - Spring

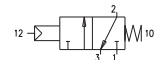
Coding: 773.32.11.1C

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 bar
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	7000
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"



Weight 990 g
Normally Closed

For compressed air - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3

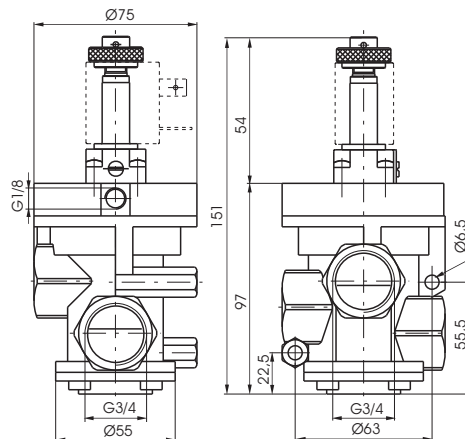


Solenoid - Spring

Coding: 773.32.0.Ⓜ.M2

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilot version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	7000
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

FUNCTION	
Ⓜ	1AC = Internal pilot normally closed
	1C = External pilot normally closed

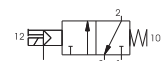


Weight 1050 g

Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3





Valves and solenoid valves poppet system

Series 700 - For vacuum - G3/4"

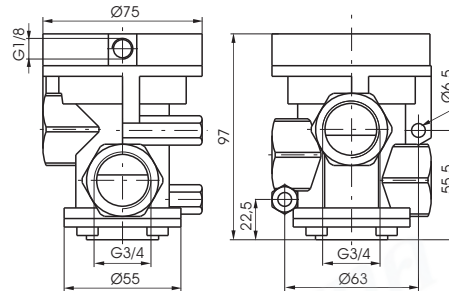
AIR DISTRIBUTION 1

Pneumatic - Spring

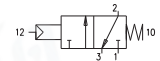
Coding: 773/V.32.11.F

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +70
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

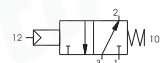
FUNCTION	
F	1C = Normally Closed
	1A = Normally Open



For vacuum - N.O.
Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.
Exhaust port 3
Outlet port 2
Pump 1



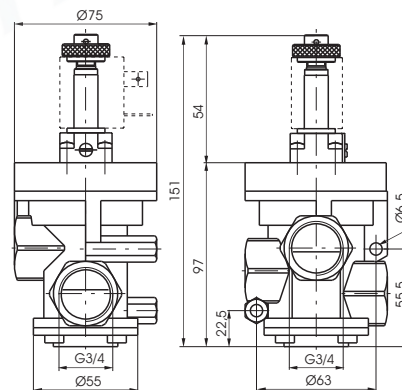
Weight 990 g

Solenoid-Spring - Internal pilot

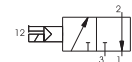
Coding: 773/V.32.0.F.M2/V

Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

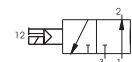
FUNCTION	
F	1AA = Normally Open
	1AC = Normally Closed



For vacuum - N.O.
Exhaust port 3
Outlet port 2
Pump 1



For vacuum - N.C.
Outlet port 1
Outlet port 2
Pump 3



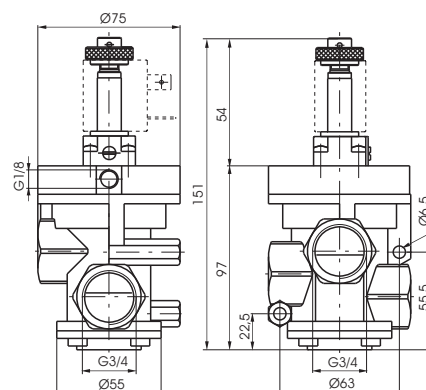
Weight 1050 g

Solenoid-Spring - External pilot

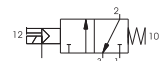
Coding: 773/V.32.0.F.M2

Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Orifice size (mm)	20
Working ports size	G3/4"
Pilot ports size	G1/8"

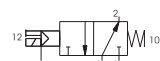
FUNCTION	
F	1A = Normally Open
	1C = Normally Closed



For vacuum - N.O.
Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.
Exhaust port 3
Outlet port 2
Pump 1

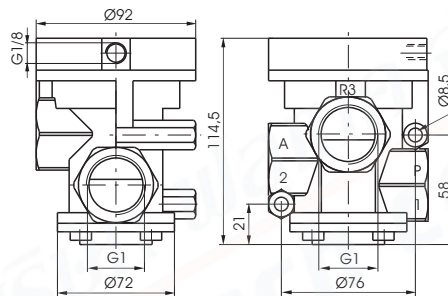


Weight 1050 g

Pneumatic - Spring

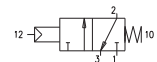
Coding: 771.32.11.1C

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	12500
Orifice size (mm)	25
Working ports size	G1"
Pilot ports size	G1/8"



Weight 1060 g
Normally Closed

For compressed air - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3

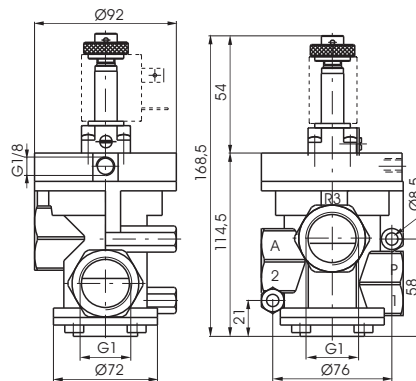


Solenoid - Spring

Coding: 771.32.0.0.M2

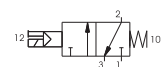
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilot version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	12500
Orifice size (mm)	25
Working ports size	G1"
Pilot ports size	G1/8"

FUNCTION	
F 1AC	Internal pilot normally closed
1C	External pilot normally closed

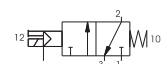


Weight 1120 g

Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3





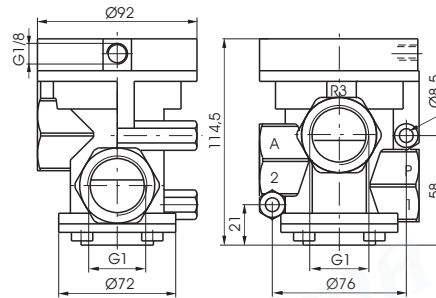
AIR DISTRIBUTION 1

Pneumatic - Spring

Coding: 771/V.32.11.Ⓡ

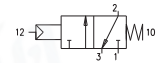
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +70
Orifice size (mm)	25
Working ports size	G1"
Pilot ports size	G1/8"

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



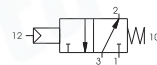
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1



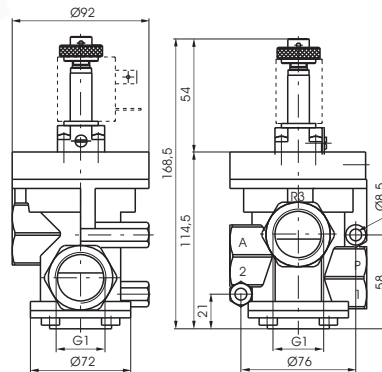
Weight 1060 g

Solenoid-Spring - Internal pilot

Coding: 771/V.32.0.Ⓡ.M2/V

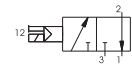
Operational characteristics	
Fluid	Vacuum
Temperature °C	-5 ÷ +50
Orifice size (mm)	25
Working ports size	G1"
Pilot ports size	G1/8"

FUNCTION	
Ⓡ	1AA = Normally Open
	1AC = Normally Closed



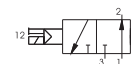
For vacuum - N.O.

Exhaust port 3
Outlet port 2
Pump 1



For vacuum - N.C.

Outlet port 1
Outlet port 2
Pump 3



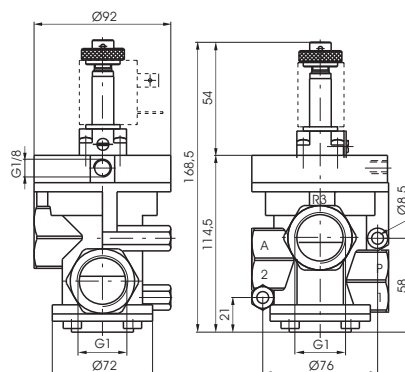
Weight 1120 g

Solenoid-Spring - External pilot

Coding: 771/V.32.0.Ⓡ.M2

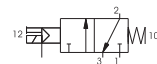
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Orifice size (mm)	25
Working ports size	G1"
Pilot ports size	G1/8"

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



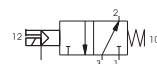
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1



Weight 1120 g

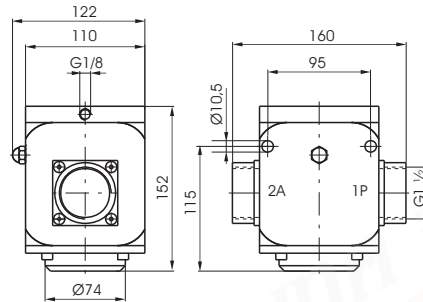
Pneumatic - Spring

Coding: 776.22.11.1C

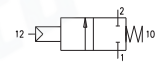
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	33500
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"



Weight 3950 g
Normally Closed



For compressed air - N.C.
Inlet port 1
Outlet port 2



Solenoid - Spring

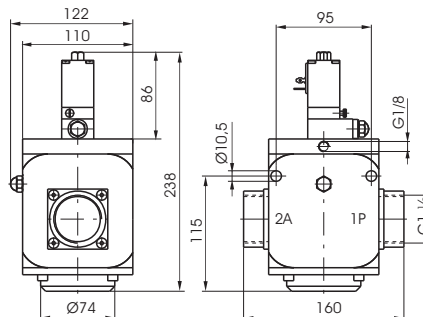
Coding: 776.22.0.F.S

Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilot version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	33500
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"

FUNCTION	
F	1AC = Internal pilot normally closed
	1C = External pilot normally closed
SOLENOID CODE	
S	SEE SOLENOID VALVES "S" TYPE, SERIES 300

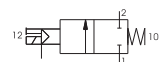
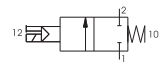


Weight 4450 g



Internal pilot - N.C.
Inlet port 1
Outlet port 2

External pilot - N.C.
Inlet port 1
Outlet port 2



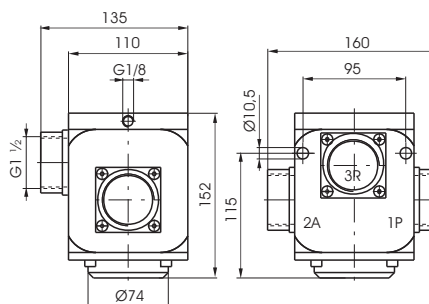
Pneumatic - Spring

Coding: 776.32.11.1C

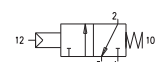
Operational characteristics	
Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5
Temperature °C	-5 ÷ +70
Flow rate at 6 bar with Δp=1 (NI/min)	33500
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"



Weight 3900 g
Normally Closed



For compressed air - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3





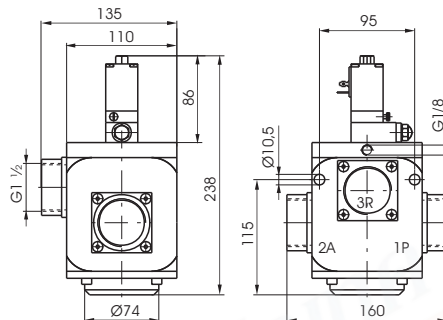
Solenoid - Spring

Coding: 776.32.0.F.S

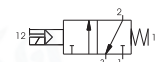
Operational characteristics

Fluid	Filtered air. No lubrication needed, if applied it shall be continuous
Max working pressure (bar)	10
Minimum piloting pressure (bar)	2,5 (External pilot version) 3 (Internal pilo version)
Temperature °C	-5 ÷ +50
Flow rate at 6 bar with Δp=1 (NI/min)	33500
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"

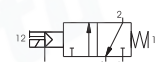
FUNCTION	
F	1AC = Internal pilot normally closed
	1C = External pilot normally closed
SOLENOID CODE	
S	SEE SOLENOID VALVES "S" TYPE, SERIES 300



Internal pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



External pilot - N.C.
Inlet port 1
Outlet port 2
Exhaust port 3



Weight 4450 g

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AIR DISTRIBUTION



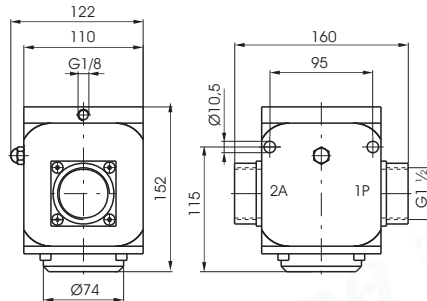
Pneumatic - Spring

Coding: 776/V.22.11.1C

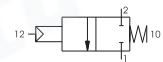
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +70
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"



Weight 3950 g
Normally Closed



For vacuum - N.C.
Outlet port 2
Pump 1



Solenoid - Spring

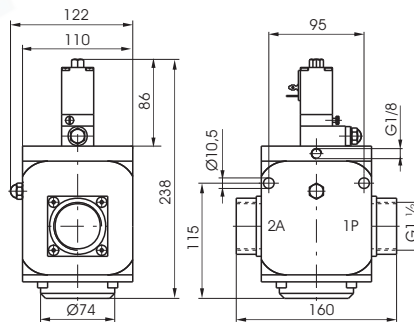
Coding: 776/V.22.0.1C.S

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

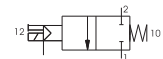
SOLENOID CODE
S SEE SOLENOID VALVES "S" TYPE,
SERIES 300



Weight 4450 g
External pilot normally closed



For vacuum - N.C.
Outlet port 2
Pump 1



Pneumatic - Spring

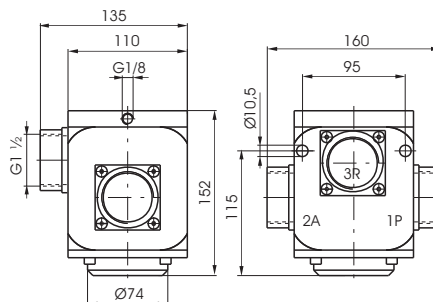
Coding: 776/V.32.11.F

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

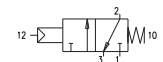
FUNCTION
F 1C = Normally Closed
1A = Normally Open



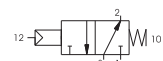
Weight 3900 g



For vacuum - N.O.
Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.
Exhaust port 3
Outlet port 2
Pump 1





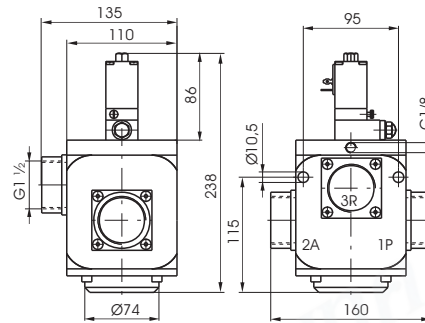
**Valves and solenoid valves poppet system
Series 700 - For vacuum - G1 1/2"**

Solenoid - Spring

Coding: 776/V.32.0.F.S

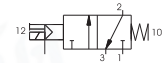
Operational characteristics	
Fluid	Vacuum
Minimum piloting pressure (bar)	2
Temperature °C	-5 ÷ +50
Orifice size (mm)	38
Working ports size	G1 1/2"
Pilot ports size	G1/8"

FUNCTION	
F	1C = External pilot normally closed
	1A = External pilot normally open
SOLENOID CODE	
S	SEE SOLENOID VALVES "S" TYPE, SERIES 300



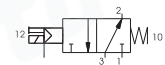
For vacuum - N.O.

Outlet port 1
Outlet port 2
Pump 3



For vacuum - N.C.

Exhaust port 3
Outlet port 2
Pump 1



Weight 4500 g

1
AIR DISTRIBUTION



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