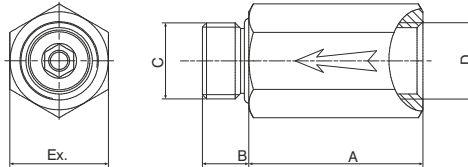


**General details**

They are special non-return valves that can close the suction line in the event of air leakage from the suction cup that is not located on the workpiece or fully adherent thereto. Designed to be applied to the suction cups, the shut-off valves - if there is no object to be lifted, if the suction grip is defective or in the presence of leakage - automatically closes off the suction, preventing the degree of vacuum in the still-gripping suction cups from dropping. These can shut off completely with characteristics described above or control leakage, where the principle of operation is the same as the abovementioned, differing from the sealing shutter in that, even when shut off entirely, it still allows a small air flow to the vacuum source. This feature allows a suction cup that has not gripped the object to be lifted to recreate the vacuum inside of it, and therefore carry out its gripping action without having to repeat the work cycle; if, on the other hand, the suction cup does not grip due to the fact that there is no object to lift, the valve will not stop the degree of vacuum from dropping on the remaining gripping suction cups, but the small percentage of loss is easily controllable and therefore recoverable.

**Shut-off valves**



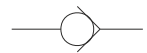
A	B	C	D	Ex.
27	7	G1/8"	G1/8"	13
30	8	G1/4"	G1/4"	17
33	9	G3/8"	G3/8"	20

Ordering code

**19E0.A.00.MF**

THREAD DIAMETER

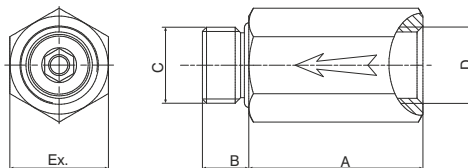
- D** 18 = G1/8"
- 14 = G1/4"
- 38 = G3/8"



**Performance characteristics**

- Minimum trigger flow rate (l/min)	25
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**Shut-off valves with controlled leakage loss**



A	B	C	D	Ex.
27	7	G1/8"	G1/8"	13
30	8	G1/4"	G1/4"	17
33	9	G3/8"	G3/8"	20

Ordering code

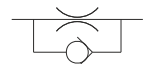
**19E0.A.0.MF**

Ø THREAD

- D** 18 = G1/8"
- 14 = G1/4"
- 38 = G3/8"

Ø NOZZLE ORIFICE

- F** 03 = orifice Ø0.3
- 05 = orifice Ø0.5
- 07 = orifice Ø0.7
- 10 = orifice Ø1



**Performance characteristics**

- Minimum trigger flow rate (l/min)	25
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### General details

Valves and solenoid valves with shutter for larger flow rates, for vacuum.

These are manufactured only in 3/2 and 2/2 versions, either normally closed or normally open.

Selection of the right type and connection to the pump requires some knowledge and skill.

For electrical actuation a normal M2 microsolenoid is used in the case of control via air and a special M2/V microsolenoid is used when control is via vacuum.

**The ordering codes correspond to the solenoid valves with mechanisms that are "M2" or "M2/V" mounted.**

**The windings are not included and have to be ordered separately (see summary page for electric windings).**

Certified windings are also available. US

Construction features	G 3/8"	G 1/2" - G 3/4"	G 1"	G 1 1/2"
Body	Aluminium	Die-cast Zamak	Aluminium	Aluminium
End caps	Aluminium			
Shutters	NBR			
Control piston	Aluminium			
Shutter mount	Stainless steel INOX			
Springs	Stainless steel INOX			
Piston seals	NBR			

### Wear and maintenance

These valves and solenoid valves have an average service life of approximately 10 - 15 million cycles under optimum conditions of usage. They do not need to be lubricated to operate well, but good filtration is recommended to prevent dirt accumulation and consequently likely malfunctioning. Ensure that the conditions of use are consistent with the indicated limits, pressure, temperature, etc. Take care to protect the discharge outlets of the valves in the presence of dirt and powder. For these products, due to the manner in which they are constructed and the particular use for which they are intended, maintenance by replacing valve parts does not have to be carried out. When necessary, basic internal cleaning can be performed, carefully removing any dirt accumulations. When the version of solenoid valves with self-supply is used, take care that it is never used to supply flow rate since in this case there would not be sufficient vacuum for actuation. This is normally found on shutter valves, since they do not have the closed centres position and insufficient actuation could cause the system to discharge from outlet 3. In this case, switch to the version with external actuation.

### Connections of valves

#### NORMALLY CLOSED SELF-SUPPLIED

**779/V.32.0.1AC** P = 1 = DISCHARGE

**773/V.32.0.1AC** A = 2 = USE

**771/V.32.0.1AC** R = 3 = PUMP

#### NORMALLY CLOSED EXTERNALLY SUPPLIED

**779/V.32.0.1C**

**773/V.32.0.1C**

**771/V.32.0.1C**

P = 1 = PUMP

A = 2 = USE

R = 3 = DISCHARGE

**779/V.32.11.1C**

**773/V.32.11.1C**

**771/V.32.11.1C**

#### NORMALLY OPEN SELF-SUPPLIED

**779/V.32.0.1A** P = 1 = PUMP

**773/V.32.0.1A** A = 2 = USE

**771/V.32.0.1A** R = 3 = DISCHARGE

#### NORMALLY OPEN EXTERNALLY SUPPLIED

**779/V.32.0.1A**

**773/V.32.0.1A**

**771/V.32.0.1A**

P = 1 = DISCHARGE

A = 2 = USE

R = 3 = PUMP

**779/V.32.11.1A**

**773/V.32.11.1A**

**771/V.32.11.1A**

### Response time (ms)

*"The response time of the directional control valves or the moving parts of logic devices was measured in accordance with standard ISO 12238:2001"*

Code	Type	Response time (ms)	
		energised	de-energised
779/V.32.11.1C	N.C.	12	46
779/V.32.11.1A	N.O.	13	48
779/V.32.0.1AC.M2/V	N.C.	26	9
779/V.32.0.1AA.M2/V	N.O.	16	11
779/V.32.0.1C.M2	N.C.	10	35
779/V.32.0.1A.M2	N.O.	11	36
772/V.32.11.1C	N.C.	30	105
772/V.32.11.1A	N.O.	17	150
772/V.32.0.1AC.M2/V	N.C.	80	20
772/V.32.0.1AA.M2/V	N.O.	25	20
772/V.32.0.1C.M2	N.C.	25	95
772/V.32.0.1A.M2	N.O.	15	140
773/V.32.11.1C	N.C.	30	105
773/V.32.11.1A	N.O.	17	145
773/V.32.0.1AC.M2/V	N.C.	75	13

Code	Type	Response time (ms)	
		energised	de-energised
773/V.32.0.1AA.M2/V	N.O.	33	22
773/V.32.0.1C.M2	N.C.	25	95
773/V.32.0.1A.M2	N.O.	13	140
771/V.32.11.1C	N.C.	45	250
771/V.32.11.1A	N.O.	18	260
771/V.32.0.1AC.M2/V	N.C.	120	20
771/V.32.0.1AA.M2/V	N.O.	35	40
771/V.32.0.1C.M2	N.C.	45	250
771/V.32.0.1A.M2	N.O.	17	325