256 - 356

MULTI-FLUID SOLENOID VALVES 1/8" AND 1/4"







MULTI FLUID SOLENOID VALVES 1/8"



For applications that require **robust** electrical valves with a **small footprint** frequently found in industrial applications, the **Series 256/356** in brass or stainless steel is an **ideal solution**.

- 2 AND 3 WAY NC, NO, U
- High differential pressures up to 28 bar.

Broad chemical compatibility with operating fluids and the environment:

- Brass or AISI 316 stainless steel
- FPM seals and disc

Ambient temperature -10 to +60°C Fluid temperature -10 à +100°C

Connections 1/8" and 1/4": Gas ISO 228/1

Optional G 1/8" version with ACS certification for use on potable water.

- Suitable for outdoor all-weather use. IP 65/IP 67 protection
- High reliability, long life, 20 million cycles
- 3.5 to 7 W, Low power consumption
- Compact solution
- Fast response time
- Unaffected by hard water

Electrical connections





Flying leads

 DIN Connectors with and without visual indication and peak voltage protection.

C25A

International approvals dual frequency coil 50/60 Hz

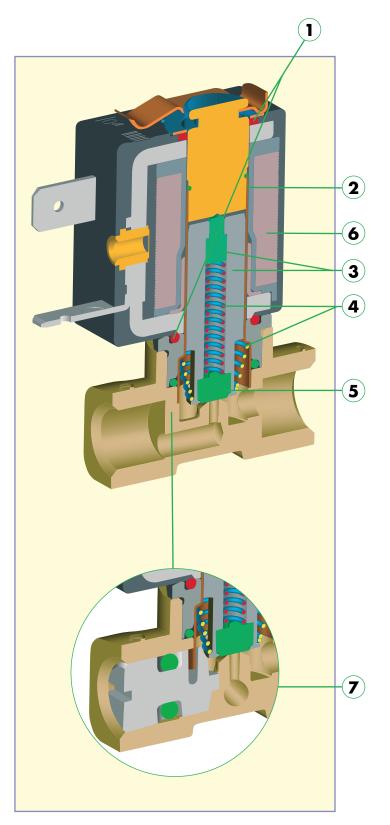




Coils for explosive atmospheres dust and gas zones

Enclosure protection IP65 (zone 22), m (zones 2, 1, 21)

UTILISING ORIGINAL



Double O-ring concept

2 O-rings positioned at the ends of the coil enable outdoor use, without any additional protection. A perfect seal and lack of moisture between the coil and the core tube avoid any degradation of the magnetic system and any accelerated aging of the coil.

2 Stainless steel core tube

3 Excellent flow rate

7.5 I/min (with the Ø 5 mm orifice) through optimisation of the valve stroke. Core design **adapted for fluid flow in 3-way version**.

4 Fast Response Time

The 256/356 series is very reactive (10 ms to open and 5 ms to close) and offers good repeatability (rates and higher frequencies: 1200 cycles / minute is 20 Hz) through the integration of the 2 springs.

Multi-fluid compatibility

Disc and valve seal in FPM; offers excellent resistance to oil, acid and temperature extremes (-40 to $+190^{\circ}$ C). Temperatures well above the maximum allowable by the solenoid.

IDEAS

PEACE OF MIND

Magnetic circuit optimisation

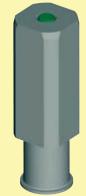
Moulded coil, class IP65/IP 67, PET (recyclable thermoplastic complies with European environmental WEEE/RoHS), compact (width 22 mm or 30 mm).

30 000 hours of continuous operation under load.

Manual control as standard

Facilitates startup and maintenance.

The square core design



To reduce friction, prevent limescale deposits and prevent the core from seizing when used on fluids containing particles. The integration of a damper reduces noise and prolongs the life of the magnetic system.

Easy installation:

- 2 M3 mounting holes in the body and manual screwdriver operation as standard
- quick and easy coil assembly and disassembly by means of a clip. The upper O-ring is captive.

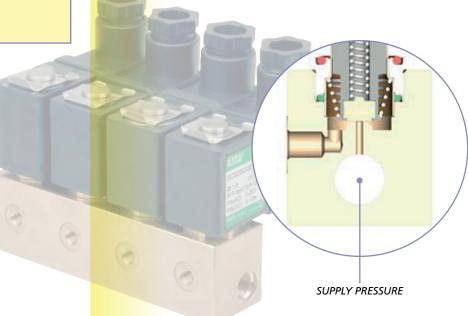
Easy maintenance:

- if impurities in the fluid disrupt operation, cleaning is carried out by simply unscrewing the tubecylinder with a 17 mm hexagonal box wrench
- interchangeable coils AC and DC

When space is limited:

Manifold versions, brass or stainless steel, 2 to 10 valves

- an even more compact solution (only 238 mm for a manifold of 10 valves)
- economic:
 - > reduces assembly time
 - > risk of leakage eliminated
 - > only one inlet connection to feed all the valves

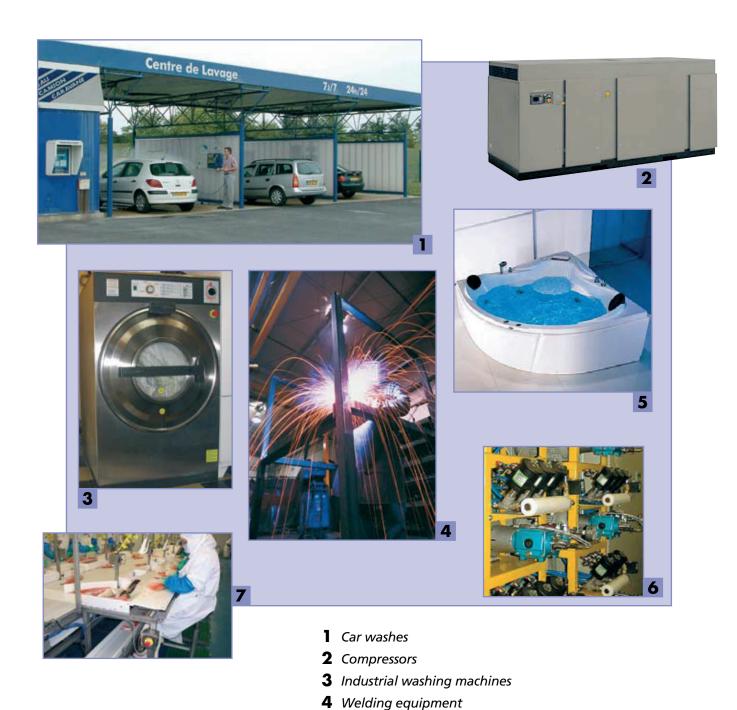


APPLICATIONS

The 1/8" and 1/4" valves can be used in a wide range of applications, such as:

- shut-off valve
- dosing and filling
- piloting valves and actuators

The valves can be used in machines for welding, sanitation, irrigation, for industrial laundries, compressors, refrigeration equipment, heating, washing, packaging, distribution of drinks, animal feed, milking and auxiliary fluid control in the agro-food industries.



5 Hydrotherapy baths

Valve pilotingFood industry

MULTI-FLUID SOLENOID 1/8" AND 1/4"

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TYPE-SERIES		2/2 threaded 256				•	readed 56	2/2 on manifold 256	3/2 on manifold 356
	G 1/8"		G 1/4"		G 1/8"		G 1/4"		
Function	NC - NO		NC		NC - NO - U		NC	NC	NC
Orifice Ø	1,2 1,6 2	2,4	1,6 2,4	4 5	1,2 1,6 2	2,4	1,6 2,4	1,6 2,4	1,6 2,4
Maximum CA 22 mm	28 20 15	5 12	20 12		15 10 5	4			-
differential 30 mm		_	20 15	5 3		-	10 4	20 12	10 4
pressure CC 22 mm	20 12 6	4	12 4		15 10 5	4			
in bar 30 mm		-	15 8	2 1		-	10 4	12 4	10 4
Flow coefficient m ³ /h			0,08 0,16	0,33 0,45	0,05 0,08 0,1	0 0,13	0,08 0,16	0,08 0,13	0,08 0,13
Kv l/min	0,8 1,33 1,8	33 2,16	1,33 2,67	5,5 7,5	0,8 1,33 1,6	6 2,1	1,33 2,67	1,33 2,16	1,33 2,16
Manual operator	Standard		Standard except ø 4 & 5		Standard		Standard except ø 4 & 5	· -	-

Other 1/4" multi-fluid valve solutions

Threaded valves 2/2 NC - NO, 3/2 NC - NO - U, brass and stainless steel





Threaded valves, three ports in the body 3/2 NC - NO - U, brass and stainless steel



Manifold valves 2/2 NC, 3/2 NC, brass

