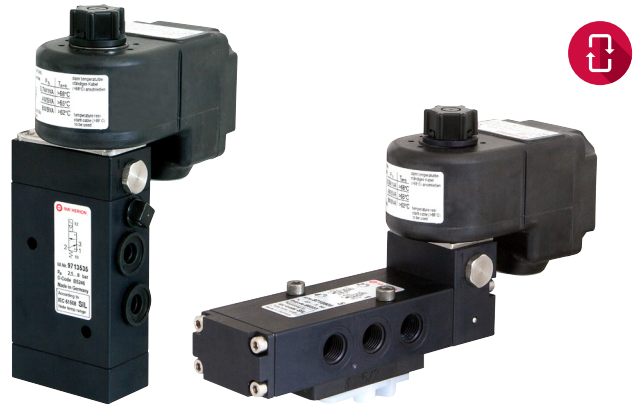




- > 1/4" & 1/2" (G or NPT) Inline & NAMUR
- > Main application: Single and double acting actuators
- > Approval according to DIN EN 161, DIN 3394 and IEC 61508, multi-channel up to SIL 3
- > Crossover-free switching
- > Suited for outdoor use under critical environment conditions
- > Variable valve solenoid combination
- > Add-on manual override



**Technical features**

**Medium:**

Neutral or aggressive, gaseous fluids which do not damage the product or affect the function (e.g. compressed air, nitrogen). Based on ISO 8573-1-2010 classification 1-2-3.

**Operation:**

Indirect solenoid operated spool valve

**Operating pressure:**

2,5 ... 8 bar (36 ... 116 psi) with internal air supply  
0 ... 8 bar (0 ... 116 psi) with external air supply

**Orifice:**

6 mm (1/4"); 8 mm (1/2")

**Port size:**

G1/4, G1/4 NAMUR, 1/4 NPT, 1/4 NPT NAMUR, G1/2, G1/2 NAMUR, 1/2 NPT, 1/2 NPT NAMUR

NAMUR Interface with integrated recirculation from the exhaust air to the actuator spring chamber

**Flow direction:**

Fixed

**Mounting position:**

Optional, impulse valves preferably horizontally

**Ambient/Media temperature:**

NBR:

-40 ... +65°C (-40 ... +149°F)

HNBR:

-25 ... +80°C (-13 ... +176°F)

Depending on solenoid system.

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (35°F).

For outdoor installations all connections must be protected against the penetration of moisture and a solenoid with IP66 protection must be used!

**Material:**

Body: Aluminium anodized (suitable for high humidity, sulphuric, sodium, chloride or ammonia environments, brass 2.0401, stainless steel 1.4404 (316 L))

Seals: NBR or HNBR

**Further versions:**

Manual reset on request

**Flow conversion:**

Cv US Gallon/min (water) = l/min (air) x 0,001  
Kv m<sup>3</sup>/h (water) = l/min (air) x 0,000906

Option selector

971 ★ ★ ★ ★ ★ ★ ★ ★ ★ ★

Function	Substitute
5/2 way with spring return (3/2 way with adapter plate for NAMUR flange)	0
5/2 way impuls (3/2 way with adapter plate for NAMUR flange)	1
5/3 way valve with spring return (APB)	2
3/2 way valve with spring return	3
<b>Materials:</b>	
<b>Housing/Seals</b>	<b>Substitute</b>
Aluminium/HNBR (-25...+ 80°C) *2)	2
Brass/HNBR (-25...+ 80°C) *2)	3
Stainless steel/HNBR (-25...+ 80°C) *2)	4
Aluminium/NBR (-40...+ 65°C) *3)	5
Brass/NBR (-40...+ 65°C) *3)	6
Stainless steel/NBR (-40...+ 65°C) *3)	7
Special version *4)	9

\*2) IEC 61508: -25...+65°C or 0...+80°C  
 \*3) IEC 61508: -40 ... +40°C  
 \*4) IMI Precision Engineering internal use  
 e.g. 971x901: Valve with inlet filter and exhaust guards according to customer requirement.  
 Valve function APB = All Ports Blocked

Air supply	Substitute
Internal	0
External (at 1/4" NAMUR version only possible with additional flange and through that a changed item number, except LPV, see page 7 and 8)	Z
<b>Voltage</b>	
24 V DC	024 0
230 V AC	230 5
<b>Solenoid</b>	
See solenoid table	
<b>Version</b>	
Without manual override (retrofitable) *	5
Without manual override * only for 1/2 NPT NAMUR	6
Low power pilot (see page 7 and 8)	9
<b>Port size</b>	
G1/4 NAMUR	0
1/4 NPT NAMUR	1
G1/4	3
1/4 NPT	4
G1/2	5
1/2 NPT	6
G1/2 NAMUR	9
1/2 NPT NAMUR (in connection with version code 6)	9

\*Manual override has to be ordered separately, see page 9.