- **Port size: DN 20 ... 80, 3/4" & 1" (ISO G/NPT)**
- **Quick release valve for Pantograph systems**
- **One-piece diaphragm**
- **Clear compact design**
- **High flow rate**
- **Aluminium body**
- **Wide temperature range**
- **Shock and vibration tested to EN 61373, Category 1, class A and B**

EN 61373

+85°C (+185°F)

-20°C (-4°F)

Technical features

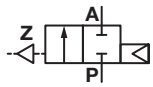
Medium:
Air
Switching function:
Normally closed
Operation:
Remote pilot operated
Flow direction:
Determined

Mounting position:
Optional
Port size:
G3/4, G1, G1 1/2,
G2, G2 1/2, G3,
3/4 NPT,1 NPT,1 1/2 NPT,
2 NPT, 2 1/2 NPT
Operating pressure:
0,4 ... 7/8 bar (5,8 ... 101,5 psi)

Pilot connection:
G1/8 or 1/8 NPT
Dusty gas temperature:
–20° ... +85°C (-4° ... +185°F)
Coil gas temperature:
–40° ... +85°C (-40° ... +185°F)
Ambient temperature:
–20° ... +85°C (-4° ... +185°F)

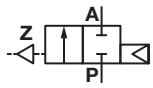
Material:
Body: Aluminium
Seat seal: TPE

Technical data - standard models

Symbol	Port size	Orifice (mm)	Valve length (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar)	Weight (kg)	Model
	G3/4	20	95	18	0,4 ... 8	0,32	8290300.0000.00000
	3/4 NPT	20	95	18	0,4 ... 8	0,32	8291300.0000.00000
	G1	25	95	22	0,4 ... 8	0,29	8290400.0000.00000
	1 NPT	25	95	22	0,4 ... 8	0,29	8291400.0000.00000

*1) Cv-value (US) ≈ kv value x 1,2

Special applications

Symbol	Application	Port size	Body material	Flow kv value (m³/h)	Operating pressure (bar)	Weight (kg)	Model
	Adapted switching speed	G3/4	Aluminium, anodized	18	0,4 ... 8	0,30	8590103.0000.00000

Option selector

829★★★★.0000.00000

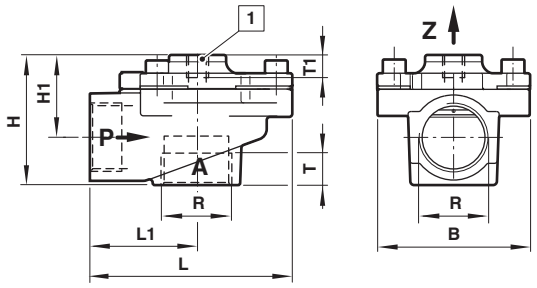
Thread form	Substitute
ISO G	0
NPT	1
Port size	**Substitute**
3/4"	3
1"	4

Valve options	Substitute
Normally closed (NC) Standard	00
Ambient temperature –40 ... +85°C (-40 ... +185°F),	71

Dimensions

Dimensions in mm
Projection/First angle

G3/4 ... 1
3/4 ... 1 NPT



1 Pilot connection G1/8 resp. 1/8 NPT

Port size R	B	H	H1	L	L1	T	T1	Model
G3/4	80	61,5	39	95	50	16	10	8290300.0000.00000
3/4 NPT	80	61,5	39	95	50	14	10	8291300.0000.00000
G1	80	61,5	39	95	50	18	10	8290400.0000.00000
1 NPT	80	61,5	39	95	50	17	10	8291400.0000.00000

Warning

These products are intended for use in industrial compressed air and rail transport systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI BUSCHJOST.
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.