3/2-way pilot valves

Electro-pneumatic
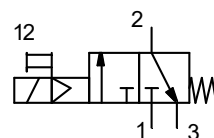
Size 1

»FU 91X« Series – Part 1

G 1/4	G 3/8

24 V= ; 24/50 ; 115/50 ; 230/50

FU 913

Description

Electro-pneumatically operated **3/2-way** solenoid valve for pressurising and relieving downstream pneumatic systems by remote control.
The valve is operated by a **continuous electrical signal**.

Characteristics

Type	FU 91X – Part 1	
Port (thread)	**G 1/4**	**G 3/8**
Port (air relief)	**G 1/4**	**G 1/4**
Type of construction Start-up valve	3/2-way seat valve	
Medium	Compressed air, neutral gases	
Mounting position	Interconnected devices vertical / single devices any	
Temperature Medium / ambient	**Max.** 50 °C	
Input pressure Pin	2 to 10 bar (higher pressures on request)	
Standard voltage	**24 V= ; 24 V/50 Hz ; 115 V/50 Hz ; 230 V/50 Hz**	
Cyclic duration factor	100%	
Nominal flow Qn	1400 l/min (Pin 6 bar, Δp = 1 bar)	
Operation	**Electro-pneumatic** Optional: Pneumatic	
Electrical connection	**Connector EN 175301-803, form C / ISO 15217 2 poles + PE**	
Mounting type	Bracket, wall mounting	

Materials

Part	Material:
Head piece	PA66 GF60
Cover	Schulaform®
Piston	Brass / NBR
Grooved ring	Al
Counter-pressure spring	Stainless steel
O-ring 32 x 2.5	NBR
Threaded plate	Die-cast zinc

Ordering information

- The valves are delivered in single packs.

Accessories

Designation	Art. No.
Mounting bracket, incl. screws	H 850
Wall bracket, incl. screws	WK 100
Joiner set, incl. screws	KP 100
Silencer, sintered bronze, short	564-2
Connector, form C	1920.FU
Silencer, sintered bronze	567-2/M

Spare parts

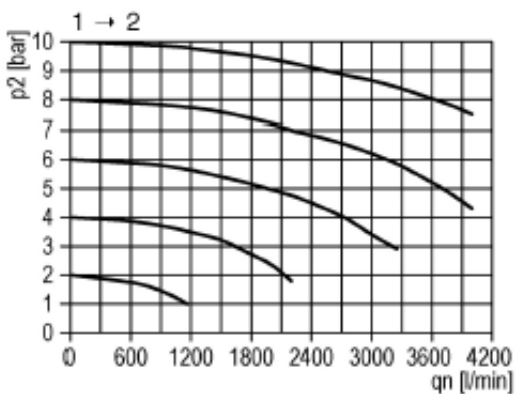| Designation	Art. No.
Solenoid 24 VDC	400-900-42
Solenoid 115 VAC/50 Hz	400-900-115
Solenoid 230 VAC/50 Hz	400-900-17
Solenoid 24 VAC/50Hz	400-900-301
Wall bracket with connection thread G 1/4	WK 101-14
Wall bracket with connection thread G 3/8	WK 101-38

Dimensions

electrical activity

pneumatical activity

G 1/4

Clamping torque: Max. 10 Nm   1,5 Nm
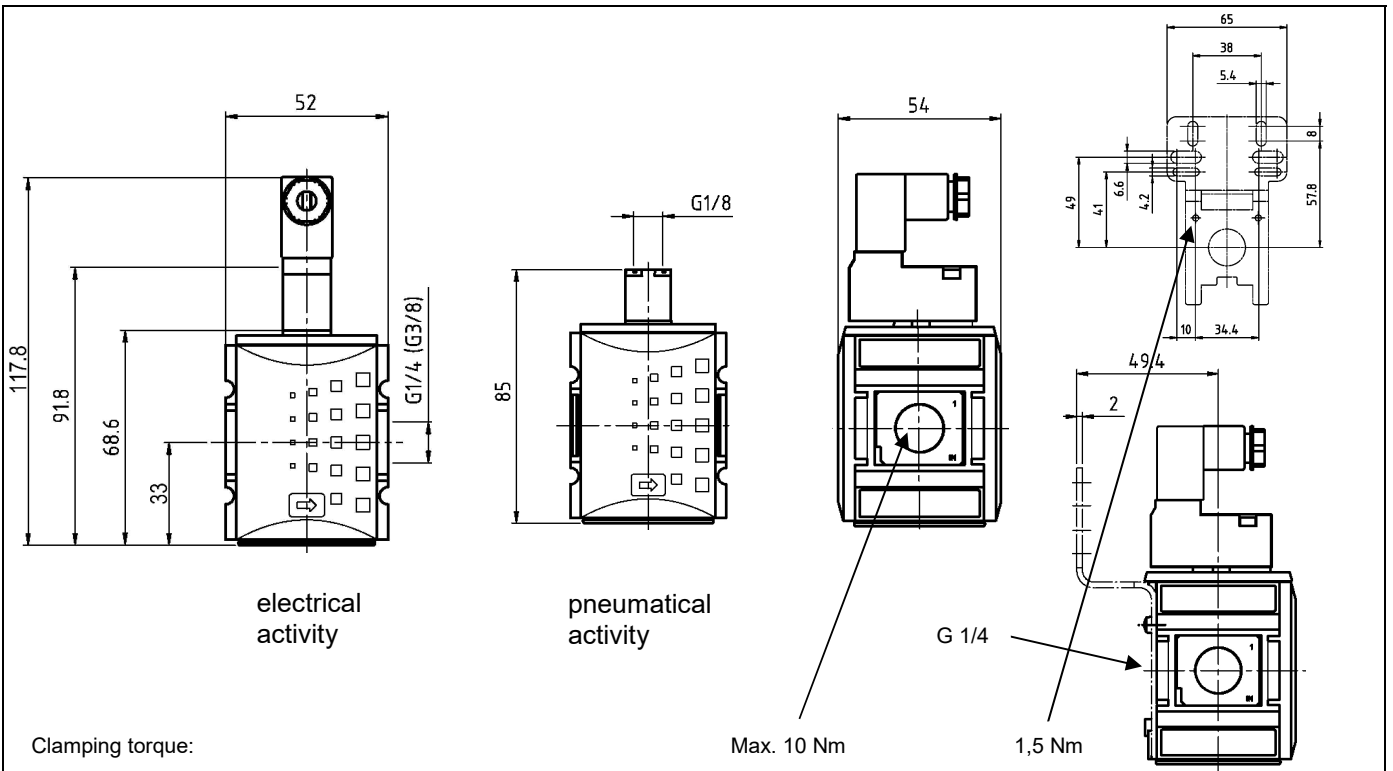
Flow rates

Flow characteristic

Return exhaust
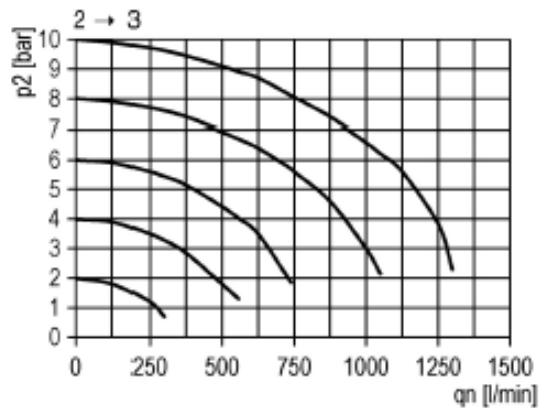
Start-up valve
Size 1

»FU 93X« Series – Part 2	
G 1/4	**G 3/8**

2.5 to 16 bar

FU 913
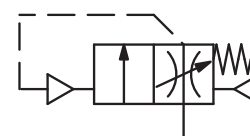
Description

Start-up valve (filling valve) for a **delayed build-up of pressure** in pneumatic systems.
The **delay time** can be **altered** by turning the adjusting screw on the top.
If a pneumatic system is pressurised after it has come to a standstill, undesirable pressure surges may occur that could significantly impair the service life of the components. Connected actuators are likely to be operated in an uncontrolled way, leading to a high hazard potential.

Characteristics

Type	FU 93X – Part 2	
Port (thread)	**G 1/4**	**G 3/8**
Type of construction Start-up valve	Seat valve, pneumatically operated by secondary pressure	
Medium	Compressed air, neutral gases	
Mounting position	Interconnected devices vertical / single devices any	
Temperature Medium / ambient	**Max.** 50 °C	
Input pressure Pin	2.5 to 16 bar (higher pressures on request)	
Output pressure	**50% input pressure (closed systems only)**	
Nominal flow Qn	1400 l/min (Pin 6 bar, Δp = 1 bar)	
Mounting type	Bracket, wall mounting	

Materials

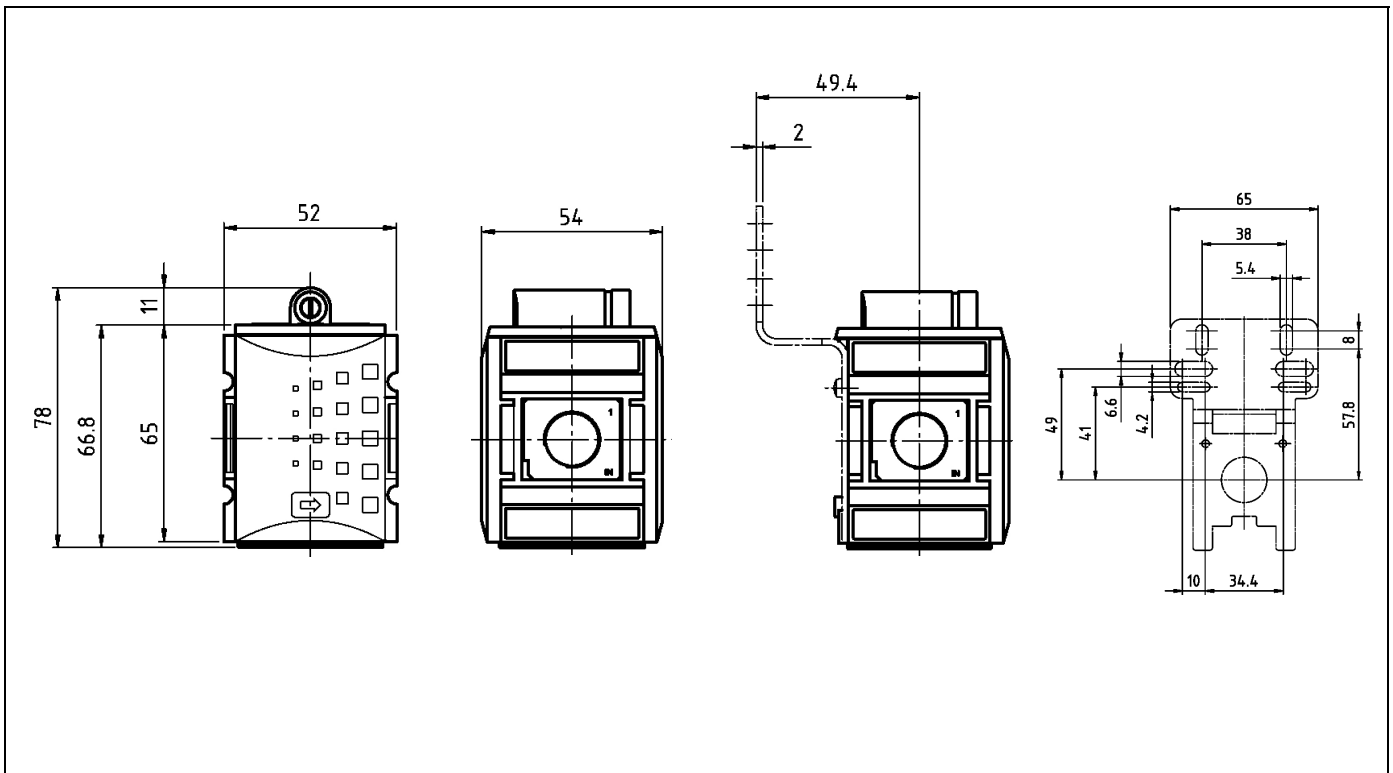| Part	Material:
Head piece	PA66 GF60
Cover	Schulaform®
Adjusting screw	Brass
Piston	Brass / NBR
Valve cone	Brass / NBR
Valve tappet	PA 6
Counter-pressure spring	Stainless steel
O-ring 32 x 2.5	NBR
Threaded plate	Die-cast zinc

Ordering information

- The valves are delivered in single packs.

Accessories

Designation	Art. No.
Mounting bracket, incl. screws	H 850
Wall bracket, incl. screws	WK 100
Joiner set, incl. screws	KP 100
Wall bracket with connection thread G 1/4	WK 101-14
Wall bracket with connection thread G 3/8	WK 101-38

Dimensions

Flow rates

Flow characteristic