3/2-Way; 1/8" and 1/4" NPT Connection



Advantages/Benefits

- ► Lower cost of ownership
- Quick and direct mounting to process valves
- ► Low power consumption, direct connection to PLC possible
- ► Any desired mounting position
- ► Coil can be changed easily with valve in place
- ▶ Coil can be locked every 90° or move freely between, as required
- Compact design
- ▶ Wide range of cable plugs and options

Design/Function

The banjo valve concept offers a unique, quick method of mounting single pilot valves directly to pneumatic actuators. The banjo assembly threads directly into the supply pressure port of the actuator utilizing a gasket seal. This permits mounting of the pilots in any position while eliminating the need for extra fittings and tubing.

When used with banjo assemblies, valve Types 6012 and 6014 provide increased serviceability with their modular, pushover coil, and can be locked in any position. The banjo valve design offers flexibility to satisfy many application requirements, C_v values to .13 and pressures to 230 PSI.

cable plugs, DIN 43 650 forms A, B and C. Valve type 6014 is also available with 1/2" conduit connection and EEx m II T6 (See separate data sheet for EEx valves).

Applications

Fluids

Neutral gases and compressed air

Applications

- Pneumatic control
- Pilot control valve for pneumatic controlled process valves

Power is connected via three standard

Burkert Contromatic USA

2602 McGaw Avenue Irvine, CA 92614 Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com **Burkert Contromatic Inc.**

760 Pacific Road, Unit 3 Oakville, Ontario, Canada L6L 6M5 Tel. (905) 847-5566

Fax (905) 847-9006



Technical Data Type 6012

Circuit Function

Symbol

C - 3/2-way valve,

when de-energized, outlet A pressure relieved



Operating Data (Valve) - Type 300, 6012	Operating	Data	(Valve)) - Tvr	oe 300.	6012
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Pressure range 0-145 PSI max.

(see specifications)

Port connection see specifications

Orifice 3/64"

Material:

Polyamide (PA) Valve body Banjo bolt Brass, nickel plated

Seal material **NBR**

Fluid Neutral gases and

compressed air

Medium temperature 14°F to 212°F

(-10°C to 100°C)

Max. ambient temperature 130°F (55°C)

Response times

opening 7-10 ms (AC), 7-12 ms (DC) closing 9-12 ms (AC), 7-12 ms (DC) Operating Data (Actuator) - Type 300, 6012

Operating voltages AC: 24, 120, 240 V/60 Hz,

DC: 24

Voltage tolerance ±10%

Power consumption AC inrush | AC hold DC 4 W

9 VA 6 VA/4 W

Duty cycle 100% continuously rated

Protection class with

cable plug

NEMA 4 (IP 65)

Electrical connection Type 300:

Cable plug DIN 43 650, Form B

Type 6012:

Cable plug DIN 43 650, Form C

Operating Data (Valve) - Type 6014

Pressure range 230 PSI max.

(see specifications)

Port connection See specifications

1/16" to 5/64" Orifice

Material:

Valve body Polyamide (PA) or brass Banjo coupler Aluminum, anodized Banjo bolt Brass, nickel plated

Seal material FPM (Viton) Fluid Neutral gases and

compressed air

14°F to 212°F Medium temperature

(-10°C to 100°C)

Max. ambient temperature 130°F (+55°C)

Response times

1/16" orifice (25 ms) opening

5/64" orifice (18 ms)

closing 1/16" orifice (35 ms) 5/64" orifice (22 ms)

Operating Data (Actuator) - Type 6014

Operating voltages AC: 24, 110, 230 V/60 Hz,

DC: 24

±10% Voltage tolerance

AC inrush | AC hold Power consumption DC (0-85 PSI) 11 VA 6 VA/ 2W 2W

(0-145 PSI) 24 VA 17VA/8W 8W

Duty cycle 100% continuously rated

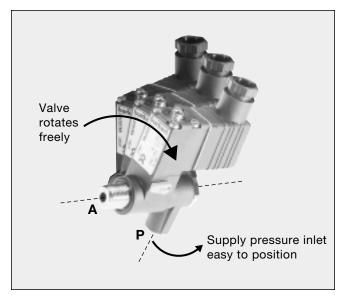
Protection class with NEMA 4 (IP 65)

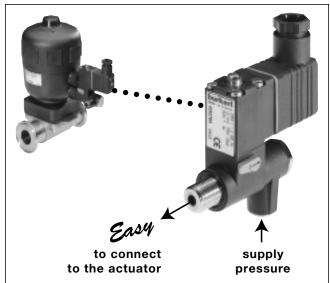
cable plug

Electrical connection Type 6014:

Cable plug DIN 43 650, Form A

Installation





Specifications - Ordering Chart (Other Versions on Request)

Type 6012, Seal Material NBR, Cable Plug DIN 43 650 Form C, Manual Override Standard



Port		Orifice	Pressure	Body-	Seal-	Cable-
connection			Range	material	material	plug
(P)	(A)	[inch]	[PSI]			Form
NPT 1/4	G 1/8	3/64	0-145	PA	NBR	С
NPT 1/4	G 1/8	3/64	0-145	PA	NBR	С

I T E M - N O.							
Voltage / Frequency [V/Hz]							
24/DC	24/50-60	120/60	240/60				
427 923 B	427 924 C	428 551 X	428 552 Y				
428 565 V	428 566 W	428 567 X	428 568 G				

Type 300, Seal Material NBR, Cable Plug DIN 43 650 Form B, Manual Override Standard



Port		Orifice	Pressure	Body-	Seal-	Cable-
connection			Range	material	material	plug
(P)	(A)	[inch]	[PSI]			Form
NPT 1/4	G 1/8	3/64	0-145	PA	NBR	В
NPT 1/4	G 1/4	3/64	0-145	PA	NBR	В

I T E M - N O.								
Voltage / Frequency [V/Hz]								
24/DC	24/50-60	120/60	240/60					
429 122 J	429 123 K	429 124 L	429 125 M					
429 118 W	429 119 X	429 120 U	429 121 R					

Type 6014, Seal Material FPM (Viton), Cable Plug DIN 43 650 Form A, Manual Override Standard



Port		Orifice	Pressure	Body-	Seal-	Cable-
connection			Range	material	material	plug
(P)	(A)	[inch]	[PSI]			Form*
NPT 1/4	G 1/4	1/16	0-230	PA	FPM	Α
NPT 1/4	G 1/4	5/64	0-145	Brass	FPM	Α

	ITEM-NO.							
	Voltage / Frequency [V/Hz]							
	24/DC	24/60	120/60	240/60				
	429 138 S	429 139 T	429 140 G	429 141 V				
	429 134 N	429 135 P	429 136 Q	429 137 R				

^{*} Also Available with "H" plug for UL Listed and FM Approved

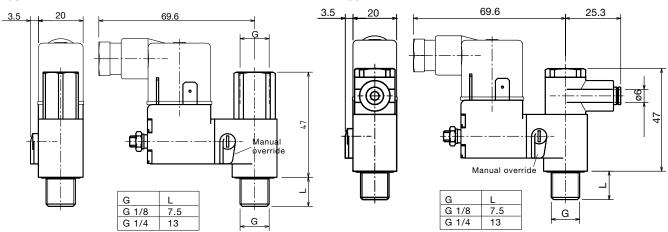
CL.I Div 2 Groups A,B,C & D

^{** 2} Watt Coil

Dimensions [mm]

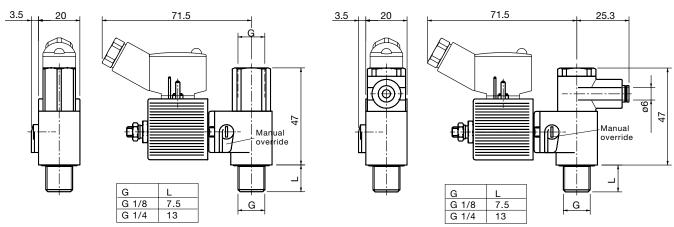
Type 300, G-Port Connection

Type 300, Tube Push-In Connection

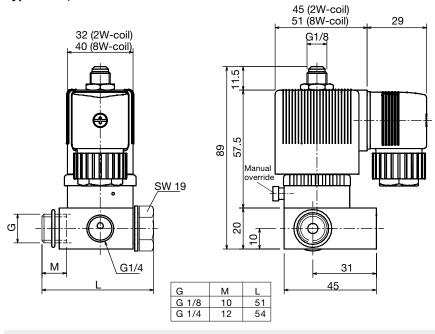


Type 6012, G-Port Connection

Type 6012, Tube Push-In Connection



Type 6014, G-Port Connection





bürkert