

1/8 NPT, push-on tube & manifold conn.



Advantages/Benefits

- ▶ Air flow can be regulated with two separate restrictors
- ▶ Compact design
- ▶ Lockable manual override as standard
- ▶ and approval

The Type 5420 is a servo-assisted diaphragm valve. A minimal pressure differential of 36 PSI between pressure inlet port P and outlet port R is required to provide reliable switching of the valve.

The power consumption of the 3/2-way pilot is very low, which allows direct control via a PLC. The valve is compact and can be mounted on two-channel valve manifolds with common pressure supply and exhaust.

Process Specification

Seal Material	NBR														
Fluids	Lubricated or unlubricated compressed air														
Temperatures															
Fluids	14°F to 140°F														
Max. ambient	131°F														
Response times															
Opening	Approx. 30 ms														
Closing	Approx. 20 ms														
Port connections															
	<table border="1" style="border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="border-right: 1px solid black;">P, R</th> <th>A, B</th> </tr> </thead> <tbody> <tr> <td style="border-right: 1px solid black;">SL 6/4</td> <td>SL 6/4</td> </tr> <tr> <td style="border-right: 1px solid black;">1/8 NPT</td> <td>SL 6/4</td> </tr> <tr> <td style="border-right: 1px solid black;">manifold</td> <td>SL 6/4</td> </tr> <tr> <td style="border-right: 1px solid black;">SL 6/4</td> <td>1/8 NPT</td> </tr> <tr> <td style="border-right: 1px solid black;">1/8 NPT</td> <td>1/8 NPT</td> </tr> <tr> <td style="border-right: 1px solid black;">manifold</td> <td>1/8 NPT</td> </tr> </tbody> </table>	P, R	A, B	SL 6/4	SL 6/4	1/8 NPT	SL 6/4	manifold	SL 6/4	SL 6/4	1/8 NPT	1/8 NPT	1/8 NPT	manifold	1/8 NPT
P, R	A, B														
SL 6/4	SL 6/4														
1/8 NPT	SL 6/4														
manifold	SL 6/4														
SL 6/4	1/8 NPT														
1/8 NPT	1/8 NPT														
manifold	1/8 NPT														
	(SL 6/4 push-on tube connections for 1/4 inch OD tubing)														
Operating voltage	24 V/DC 24, 110, 120, and 230 V/50 - 60 Hz														
Voltage tolerance	±10%														
Power consumption	AC 11 VA / 6 VA (hold) DC 2 W														
Duty cycle	100% continuously rated														
Cycling rate	Up to 600 c.p.m.														
Rating	With IP 65 cable plug														
Installation	As required														
Electrical connection	Cable plug for 6-7 mm ø cable (supplied as standard) Type 2508														
Approvals for hazardous areas	On request														

Applications

Actuation of externally piloted valves



burkert
Fluid Control Systems

Burkert Contromatic USA

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

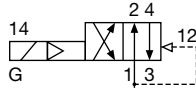
Burkert Contromatic Inc.

760 Pacific Road, Unit 3
Oakville, Ontario, Canada L6L 6M5
Tel. 905.847.5566
Fax 905.847.9006
www.burkert.ca

Technical Data

Circuit Function

G 4/2-way valve, when de-energized pressure port P connected to outlet B outlet port A exhausted. With manual override and two separate restrictors.



Body Material

Polyamide

Specification

Orifice [inch]	Qn-Value (air) ¹⁾ [l/min]	Pressure range ²⁾ [PSI]	Weight [lb.]
1/8	200	36.25 – 145	0.594 – 0.704

¹⁾ Measured with 87 PSI upstream pressure and 14.5 PSI pressure drop across the valve at 68°F
²⁾ 21.75-145 PSI version on request.

All pressures quoted are gauge pressures.

Specifications - Ordering Chart (Other Versions on Request)

Circuit function	Orifice [inch]	Port connection		Qn-Value (air) ¹⁾ [l/min]	Pressure range [PSI]	Voltage frequency [V/Hz]	Item-No.
		P and R	A and B				
G	1/8	1/8 NPT	1/8 NPT	200	36.25 – 145	024/DC	456 954 X
	1/8	1/8 NPT	1/8 NPT	200	36.25 – 145	024/50–60	456 955 Y
	1/8	1/8 NPT	1/8 NPT	200	36.25 – 145	120/60	456 956 Z
	1/8	1/8 NPT	1/8 NPT	200	36.25 – 145	240/60	456 957 S
G	1/8	1/8 NPT	SL 6/4	200	36.25 – 145	024/DC	US07313
	1/8	1/8 NPT	SL 6/4	200	36.25 – 145	024/50–60	US07314
	1/8	1/8 NPT	SL 6/4	200	36.25 – 145	120/60	US07315
	1/8	1/8 NPT	SL 6/4	200	36.25 – 145	230/50–60	US07316
G	1/8	SL 6/4	SL 6/4	200	36.25 – 145	024/DC	134 630 T
	1/8	SL 6/4	SL 6/4	200	36.25 – 145	024/50–60	134 631 Q
	1/8	SL 6/4	SL 6/4	200	36.25 – 145	110/50–60	134 632 R
	1/8	SL 6/4	SL 6/4	200	36.25 – 145	230/50–60	134 633 J
G	1/8	Sub-base	1/8 NPT	200	36.25 – 145	024/DC	456 950 F
	1/8	Sub-base	1/8 NPT	200	36.25 – 145	024/50–60	456 951 U
	1/8	Sub-base	1/8 NPT	200	36.25 – 145	120/60	456 952 V
	1/8	Sub-base	1/8 NPT	200	36.25 – 145	240/60	456 953 W
G	1/8	Sub-base	SL 6/4	200	36.25 – 145	024/DC	134 638 X
	1/8	Sub-base	SL 6/4	200	36.25 – 145	024/50–60	134 639 Y
	1/8	Sub-base	SL 6/4	200	36.25 – 145	110/50–60	134 640 D
	1/8	Sub-base	SL 6/4	200	36.25 – 145	230/50–60	134 641 S

¹⁾ Measured with 87 PSI upstream pressure and 14.5 PSI pressure drop across the valve at 68°F

