

**Design:**

3-way solenoid valve, internally piloted

**Seal Materials and Fluids handled:**

See Table 1.

**Fluid and Ambient Temperature:**

**For Hazardous Locations Div. 1 (T4 rated)**

Max. Ambient Temperature 104 F (40 C)  
 Max. Fluid Temperature 140 F (60 C)

**For Hazardous Locations Div. 1 (T6 rated)**

Max. Ambient Temperature 104 F (40 C)  
 Max. Fluid Temperature 140 F (60 C)

**For Intrinsically Safe Apparatus for use in Class I, II and III, Division 1 Hazardous Locations.**

Max. Ambient Temperature 140 F (60 C)  
 Max. Fluid Temperature 140 F (60 C)

**For Hazardous Locations Div. 2 and Ordinary Locations:**

See Table 1.

**Pressure Range:**

Maximum inlet pressure see label on valve.

**Installation:**

Before installing valve ensure that piping etc. is free of foreign matter (metal shavings, pipe sealing materials, welding scale etc.). Installation as required but preferable with coil uppermost. Installation in this position tends to prevent foreign matter remaining in core tube (increased life). Do not put any loads on coil unit.

PTFE tape is recommended for sealing ports. Mounting is accomplished by means of four M4 x 8 mm tapped holes located on the valve underside. Letters on valve body indicate pressure port, exhaust and outlet of the valve.

**Marking (example):**

**Body Material**

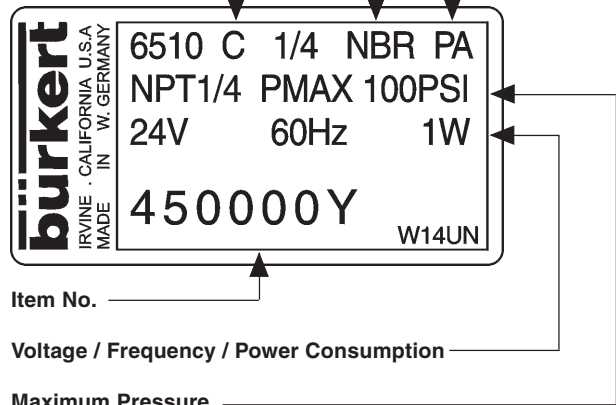
PA = Polyamide  
 AL = Aluminium

**Seal Material**

NBR = NBR  
 FKM = FKM

**Circuit function**

C = 3-way, Normally Closed  
 D = 3-way, Normally Open



**Approvals**

The valve is either approved as

- General Purpose valve for Hazardous Locations
  - Class I, Division 1, Group A, B, C, D
  - Class II, Division 1, Group E, F, G
  - Class III, Division 1 and 2
  - Operating Temperature T 4

or

- General Purpose valve for Hazardous Locations
  - Class I, Division 1, Group A, B, C, D
  - Class II, Division 1, Group E, F, G
  - Class III, Division 1 and 2
  - Operating Temperature T 6

or

- Intrinsically Safe Apparatus for Hazardous Locations
  - Class I, Division 1, Group A, B, C, D
  - Class II, Division 1, Group E, F, G
  - Class III, Division 1 and 2
  - Operating Temperature T 6

or

- FM approved as
  - Nonincendive for Hazardous Locations
    - Class I, Division 2, Group A, B, C, D
    - Class II, Division 2, Group F, G
    - Class III, Division 1 and 2
    - Operating Temperature T 4

UL listed for General Purpose

CSA approved for General Purpose

See label on the valve.

Operating Instructions 0512/09\_EU-EN\_00801863

Table 1		Seal Materials	
Fluid	Temperatures [°F]	PB	Buna "N" NBR
Air	Fluid Temp.	+ 10 to +122	+ 10 to +122
	Ambient	+ 10 to +130	+ 10 to +130

For this product to be considered UL-listed and CSA approved for General Purpose and FM approved for Hazardous Locations Division 2, it must be in conjunction with either the type 2509 or the type H cable plug connector (Electrically Operated Valves Parts, YSYI2). The connector and gasket must be assembled to the valve with the screw provided after the connection of the wire leads. This valve and connector assembly is delivered together and is to be used as one unit.

For valves to be used in Intrinsically Safe Applications the positive pole is identified by a "+" on the pin or wire No. 1 has to be connected to the "+".

See Control Drawing for the Rules of Interconnection.

**Warning:**

All valves to be used in Intrinsically Safe Applications must be clearly marked as Intrinsically Safe Apparatus.

**Trouble-Shooting:**

Check port connections, minimum operating pressure differential if required and supply voltage. Ensure pilot hole in piston is clear and pilot bore in the valve outlet is not abstracted. If core does not pull in, check for short circuit, coil burn-out or foreign matter impeding core movement. A jammed or missing core causes the coil to overheat in the case of AC supply.

**Warning:**

These products are designed to operate in a wide variety of applications, it is the user's responsibility to select a model that is appropriate for the application. This product is designed to be installed only by suitably qualified and trained personnel. Specifications should not be exceeded under any circumstances.

Changes made to this product will render any applicable warranty null and void.

Specifications subject to change without notice.

Any questions? Please call Bürkert Contromatic Technical Service at (949) 223 31 00.

---

**bürkert**

Steuer- und Regeltechnik  
Christian-Bürkert-Str. 13-17  
74653 Ingelfingen  
Telefon (0 79 40) 10-111  
Telefax (0 79 40) 10-448  
www.buerkert.com  
info@de.buerkert.com

Australia: Seven Hills NSW 2147, Ph. (02) 1300 888 868  
Austria: 1150 Wien, Ph. (01) 894 13 33  
Belgium: B-2110 Wijnegem, Ph. (03) 325 89 00  
Brazil: 04715-005 São Paulo - SP, Ph. (011) 51 82 00 11  
Canada: Oakville, Ontario L6L 6M5, Ph. (905) 847 55 66  
China: Shanghai, Ph. (8621) 58 68 21 19  
Czech Republic: 60200 Brno, Ph. (543) 25 25 05  
Denmark: 2730 Herlev, Ph. (44) 50 75 00  
Estonia: EE-12915 Tallin, Ph. (372)644 06 98  
Finland: FI-00370 Helsinki, Ph. (09) 54 97 06 00  
France: 67220 Triembach au Val, Ph. (0388) 58 91 11  
Hong Kong: Kwai Chung NT, Ph. 24 80 12 02  
India: Chennai 600 028, Ph. (044)52 30 34 56  
Italy: 20060 Cassina De 'Pecchi (Mi), Ph. (02) 95 90 71  
Japan: Tokyo 166-0004, Ph.(03) 53 05 36 10  
Korea: Seoul 153-811, Ph. (02) 34 62 55 92  
Malaysia: 11960 Penang, Ph. (04) 64 350 08

Berlin, Ph. (0 30) 67 97 17-0  
Frankfurt, Ph. (0 61 03) 9 41 40  
Hannover, Ph. (05 11) 902 76-0  
Dresden, Ph. (03 59 52) 36-300  
Dortmund, Ph. (0 23 73) 96 81-0  
München, Ph. (0 89) 8 29 22 80  
Stuttgart, Ph. (07 11) 451 10-0

Netherlands: NL-3542 DP Utrecht, Ph. (0346) 58 10 10  
New Zealand: Penrose, Auckland, Ph. (09) 622 28 40  
Norway: 2013 Skjetten, Ph. (63) 84 44 10  
Philippines: Paranaque City, Ph. (02) 776 43 84  
Poland: PL-02-904 Warszawa, Ph. (022) 840 60 10  
Portugal: Sales office in Spain, Ph. (21) 21 28 490  
Singapore: Singapore 408933, Ph. 68 44 22 33  
South Africa: Millenium Business Park, Ph. (011) 574 60 00  
Spain: 08970 Sant Joan Despi, Barcelona, Ph. (93) 477 79 80  
Sweden: 21120 Malmö, Ph. (040) 664 51 00  
Switzerland: 6331 Hünenberg ZG, Ph. (041) 785 66 66  
Taiwan: Taiwan 115, Ph. (02) 26 53 78 68  
Turkey: TR-Yenisehir-Izmir, Ph. (0232) 459 53 95  
United Kingdom: Stroud, Glos, GL5 2QF, Ph. (01453) 731353  
USA: Irvine, CA 92614, Ph. (949) 223 31 00