

Selectomite[®] 71 and 76 Series

3-way Ball Valves

Selectomite[®] 3-way ball valves use 180° operation for diverting flow from one line to another. The handle points to the side port in use; when perpendicular to the side ports, it indicates the shutoff position.



Typical Applications

- Instrument air lines
- Sampling systems
- 2-way gauge readout of line pressure
- Manual cylinder actuation

Technical Data

| BODY MATERIAL* | 316 stainless steel, brass, Monel® |
|--------------------------------|---|
| OPERATING PRESSURE RANGE*** | Moderate vacuum** to 6000 psig @ 70° F (414 bar @ 21° C) |
| OPERATING TEMPERATURE RANGE | 7165 Series -40° F to +350° F (-40° C to +177° C) 7177 Series 0° F to +350° F (-18° C to +177° C) 7671, 7673 Series -40° F to +250° F (-40° C to +121° C) |
| ORIFICE SIZES | 0.093" to 0.187" (2.4 to 4.8mm) |
| Cv FACTORS | 0.15 to 0.57 |
| END CONNECTIONS | %" to ½" Gyrolok® %" to ¼" NPT 3 to 8mm Gyrolok® |

* Consult factory for other materials

** Moderate vacuum is 10⁻³ to 20 torr. Pressure rating is for inlet through Port 3. For side loading (inlet at Port 1 or 2), see note under How to Order table for each series on page 21 and 22. For differential pressures up to 6000 psig, see Selectomite[®] 76 Series 3-way trunnion valves.

*** Depending on valve series.

HOKE Incorporated

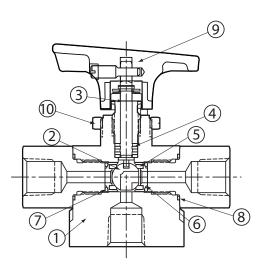
405 Centura Court • PO Box 4866 (29305)• Spartanburg, SC 29303 Phone (864) 574-7966 Fax (864) 587-5608 www.hoke.com • sales@hoke.com

Features & Benefits

- Handle points to port in use or to closed position, providing a visual cue and improved safety.
- Dyna-Pak[®] packing provides a leak-tight seal with low operating torque in vacuum or high pressure applications, helping to prevent fugitive emissions.
- Dual encapsulated TFE seats and microfinished ball ensure a leak tight seal. This combination provides greater valve reliability.
- TFE seats and washers provide excellent corrosion resistance, providing the correct material for the application.
- A wide variety of HOKE Gyrolok[®] end fittings or pipe fittings provide the correct fitting option for the application.
- Special High Tolerance NPT Thread

Selectomite® 71 and 76 Series

Materials of Construction



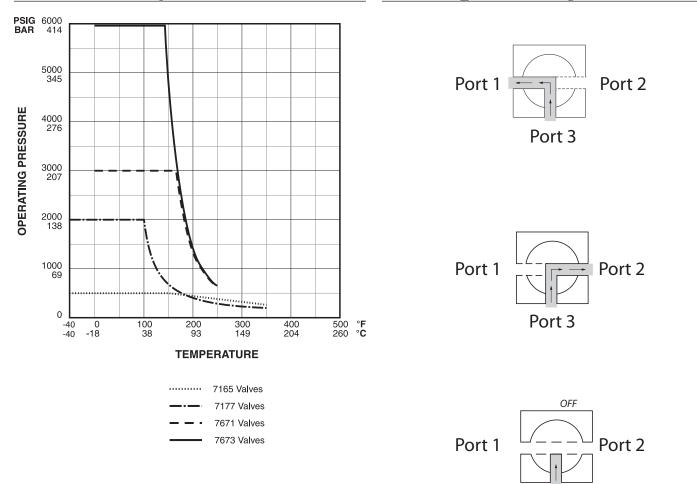
| | DESCRIPTION | BRASS | 316 STAINLESS STEEL | MONEL® |
|----|--|-----------------------------------|-----------------------------------|-------------------------------|
| 1 | Body | Brass | 316 stainless steel | Monel® |
| 2 | Ball | 316 stainless steel | 316 stainless steel | Monel® |
| 3 | Stem | 316 stainless steel | 316 stainless steel | Monel® |
| 4 | Stem packing | TFE/316 stainless steel wafers | TFE/316 stainless steel wafers | TFE/Monel [®] wafers |
| 5 | Seats 7165, 7177 Series 7671 Series 7673 Series | TFE Nylatron® | TFE Nylatron® | TFE |
| 6 | Seat retainers | Brass | 316 stainless steel | Monel® |
| 7 | Seat washers [†] 7177, 7673 Series 7165 Series 7671 Series | TFE Buna-N | Viton® TFE | TFE |
| 8 | End fitting gaskets | TFE | TFE | TFE |
| 9 | Handle | Nylon | Nylon | Nylon |
| 10 | Panel mounting nut | Nickel-plated brass | 316 stainless steel | Nickel-plated brass |

† Other elastomers are available upon request. Contact your local distributor

Pressure vs. Temperature Curve

Flow Diagrams 3-way valve

Port 3



Selectomite® 71 and 76 Series

Dimensions

Selectomite® 7177 Series

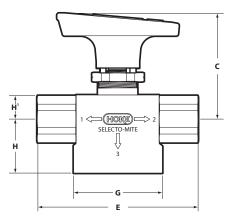
| END CONNECTIONS | | C | E | G | H | H1 |
|-----------------|------|--------|-------|------|---------------------|-------|
| ⅓″ Gyrolok® | inch | 127⁄64 | 21⁄8 | 11⁄4 | 123/32 | 23/64 |
| | mm | 36 | 73 | 32 | 44 | 9 |
| ⅛″ female NPT | inch | 127⁄64 | 21⁄4 | 11⁄4 | 3⁄4 | 23/64 |
| | mm | 36 | 57 | 32 | 19 | 9 |
| ¼″ Gyrolok® | inch | 127⁄64 | 33/32 | 11⁄4 | 1 ¹³ /16 | 23/64 |
| | mm | 36 | 78 | 32 | 46 | 9 |
| 3mm Gyrolok® | inch | 127⁄64 | 21⁄8 | 11⁄4 | 123/32 | 23/64 |
| | mm | 36 | 73 | 32 | 44 | 9 |
| 6mm Gyrolok® | inch | 127⁄64 | 33/32 | 11⁄4 | 1 ¹³ /16 | 23/64 |
| | mm | 36 | 78 | 32 | 46 | 9 |

Panel mounting

Panel hole: 19/32" (15.1mm) diameter Panel thickness: 3/16" (4.8mm) diameter

Selectomite® 7165, 7671, 7673 Series

| END CONNECTIONS | | C | E | G | H | H1 |
|---------------------------|------|--------|-------|------|-------|------|
| 1/″ Currelet® | inch | 115/16 | 37⁄16 | 13⁄4 | 2 | 7⁄16 |
| ⅓″ Gyrolok® | mm | 49 | 87 | 44 | 51 | 11 |
| ¼″ Gyrolok® | inch | 115/16 | 35⁄8 | 13⁄4 | 21/16 | 7⁄16 |
| 74 Gyrolok | mm | 49 | 92 | 44 | 52 | 11 |
| ¼″ female NPT | inch | 13⁄4 | 3 | 13⁄4 | 15/16 | 7⁄16 |
| ⁷ 4 Temale NPT | mm | 44 | 76 | 44 | 24 | 11 |
| ³⁄∞″ Gyrolok® | inch | 115/16 | 31/8 | 13⁄4 | 23/16 | 7⁄16 |
| % Gyrolok | mm | 49 | 98 | 44 | 56 | 11 |
| 3mm Gyrolok® | inch | 115/16 | 37⁄16 | 13⁄4 | 2 | 7⁄16 |
| Smin Gyrolok* | mm | 49 | 87 | 44 | 51 | 11 |
| 6mm Curalak® | inch | 115/16 | 35⁄8 | 13⁄4 | 21/16 | 7⁄16 |
| 6mm Gyrolok® | mm | 49 | 92 | 44 | 52 | 11 |
| 9mm Curalak® | inch | 115/16 | 31/8 | 13⁄4 | 23/16 | 7⁄16 |
| 8mm Gyrolok® | mm | 49 | 98 | 44 | 56 | 11 |



Dimensions for reference only, subject to change.

Panel mounting

Panel hole: 57/64" (22.6mm) diameter Panel thickness: 3/16" (4.8mm) diameter

How to Order Standard Valves

Selectomite® 7165 Series Pressure to 500 psig (34 bar), TFE Seats—TFE Washers

| | ORDER BY PART NUMBER | | | | |
|-----------------|----------------------|---------------|---------------------------|----------------|-------------------|
| END CONNECTIONS | BRASS | 316 ST. STEEL | MONEL [®] | ORIFICE | Cv |
| ⅓″ Gyrolok® | 7165G2B | 7165G2Y | | 0.093" (2.4mm) | 0.15 [‡] |
| 1⁄4″ Gyrolok® | 7165G4B | 7165G4Y | 7165G4M | 0.187″ (4.7mm) | 0.57 |
| ¼″ female NPT | 7165F4B | 7165F4Y | 7165F4M | 0.187" (4.7mm) | 0.57 |
| ³⁄∞″ Gyrolok® | 7165G6B | 7165G6Y | — | 0.187″ (4.7mm) | 0.57 |
| 1/2" Gyrolok® | 7165G8B | 7165G8Y | 7165G8M | 0.189″ (4.8mm) | 0.57 |
| 3mm Gyrolok® | — | 7165G3YMM | | 0.093" (2.4mm) | 0.15 [‡] |
| 6mm Gyrolok® | — | 7165G6YMM | | 0.187" (4.7mm) | 0.57 |
| 8mm Gyrolok® | _ | 7165G8YMM | | 0.187″ (4.7mm) | 0.57 |

NOTE: Maximum differential pressure between side ports is 500 psig (34 barg). # Orifice restricted by end connection.



Selectomite® 71 and 76 Series

How to Order Standard Valves (continued)



7177G2Y

Selectomite® 7177 Series Pressure to 2000 psig (138 bar)

TFE Seats—Viton[®] Washers

| | ORDER BY PART NUMBER | | |
|-----------------|----------------------|----------------|-------------------|
| END CONNECTIONS | 316 STAINLESS STEEL | ORIFICE | Cv |
| ⅓″ Gyrolok® | 7177G2Y | 0.093" (2.4mm) | 0.15 [‡] |
| ⅓″ female NPT | 7177F2Y | 0.125" (3.2mm) | 0.30 |
| 1⁄4″ Gyrolok® | 7177G4Y | 0.125" (3.2mm) | 0.30 |
| 3mm Gyrolok® | 7177G3YMM | 0.125" (3.2mm) | 0.15 [‡] |
| 6mm Gyrolok® | 7177G6YMM | 0.093" (2.4mm) | 0.15 [‡] |

Note: Maximum differential pressure between side ports is 1500 psig (103 bar). ‡ Orifice restricted by end connection.

Selectomite® 7671 Series Pressure to 3000 psig (207 bar) Nylatron[®] Seats—Buna-N Washers

| | ORDER BY PART NUMBER | | |
|-----------------|----------------------|----------------|------|
| END CONNECTIONS | BRASS | ORIFICE | Cv |
| 1⁄4″ Gyrolok® | 7671G4B | 0.187″ (4.7mm) | 0.53 |
| ¼″ female NPT | 7671F4B | 0.187″ (4.7mm) | 0.57 |
| 1⁄2″ Gyrolok® | 7671G8B | 0.188″ (4.8mm) | 0.53 |

Note: Maximum differential pressure between side ports is 1500 psig (103 bar).



7673F4Y

Selectomite® 7673 Series Pressure to 6000 psig (414 bar) Nylatron[®] Seats—Viton[®] Washers

| | ORDER BY PART NUMBER | | |
|-----------------|----------------------|----------------|------|
| END CONNECTIONS | 316 STAINLESS STEEL | ORIFICE | Cv |
| ¼″ Gyrolok® | 7673G4Y | 0.187" (4.7mm) | 0.57 |
| 1⁄4″ female NPT | 7673F4Y | 0.187″ (4.7mm) | 0.57 |
| ³⁄₀″ Gyrolok® | 7673G6Y | 0.187" (4.7mm) | 0.57 |
| 1⁄2″ Gyrolok® | 7673G8Y | 0.187″ (4.7mm) | 0.66 |
| 6mm Gyrolok® | 7673G6YMM | 0.187" (4.7mm) | 0.57 |

Note: Maximum differential pressure between side ports is 1500 psig (103 bar).

For Your Safety

It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.

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