



Flomite® 71 Series

2-way Integral Panel Mount Ball Valves

Used for quick on-off service with a visual indication of flow, HOKE's 2-way ball valves offer orifice sizes up to 0.25" (6.4mm). Flomite® valves feature a floating ball design, encapsulated replaceable seats and check seals to ensure leak-tight service and extended service life.



Typical Applications

- Instrument panels
- High pressure instrument lines
- Gas sampling in pilot plants
- Full flow and shutoff in chromatographs
- Hydraulic test stands
- Gas sampling cylinders
- Handling corrosive and viscous fluids

Technical Data

| | |
|------------------------------------|--|
| BODY MATERIAL* | 316 stainless steel, brass, Monel® |
| OPERATING PRESSURE RANGE*** | Moderate vacuum** to 6000 psig (414 bar) @ 70° F (414 bar @ 21° C) |
| OPERATING TEMPERATURE RANGE | -20° F to +425° F (-29° C to +218° C) 7122 and 7142: -40° F to +350° F (-40° C to +177° C) |
| ORIFICE SIZES | 0.093" to 0.250" (2.4 to 6.4mm) |
| Cv FACTORS | 0.23 to 1.40 |
| END CONNECTIONS | 1/8" to 3/8" Gyrolok® 1/8" to 1/2" NPT 3 to 12mm Gyrolok® |

* Consult factory for other materials

** Moderate vacuum is 10⁻³ to 20 torr.

*** Maximum pressure rating depends on valve series.

Features & Benefits

- Quarter turn handle provides a visual indication of on/off valve position, improving safety.
- Dual encapsulated TFE seats and microfinished ball ensure a leak tight seal. This combination provides greater valve reliability.
- Dyna-Pak® packing provides a leak-tight seal with low operating torque in vacuum or high pressure applications, helping to prevent fugitive emissions.
- Floating ball provides pressure-assisted sealing and temperature wear compensation for longer valve cycle life and greater value.
- A wide variety of Hoke Gyrolok® end fittings or pipe fittings provide the correct fitting option for the application.
- Special High Tolerance NPT Thread

ball valves

HOKE Incorporated

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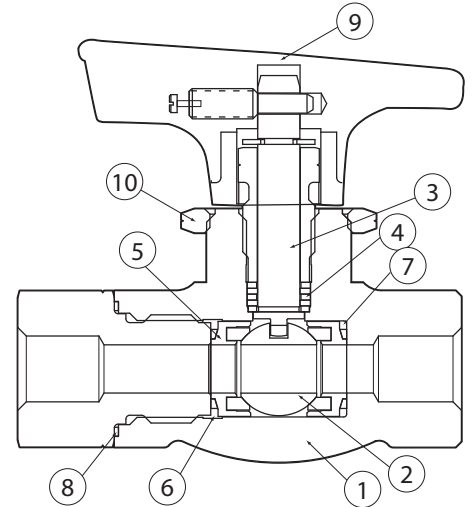
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Flomite® 71 Series

Materials of Construction

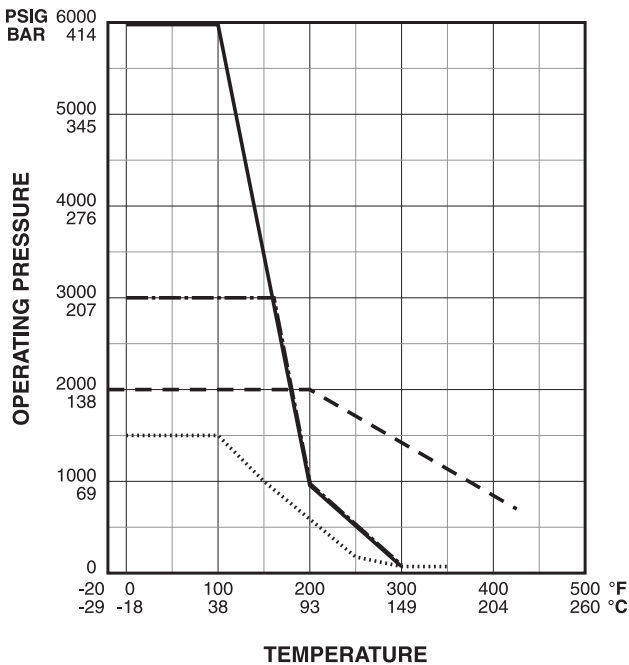
| DESCRIPTION | BRASS | 316 STAINLESS STEEL | MONEL® |
|---|--------------------------------|--------------------------------|---------------------|
| 1 Body | Brass | 316 stainless steel | Monel® |
| 2 Ball | 316 stainless steel | 316 stainless steel | Monel® |
| 3 Stem | 316 stainless steel | 316 stainless steel | Monel® |
| 4 Stem packing 7188 Series | — | Dyneon™ TFM 1700 | — |
| Other valves | TFE/316 stainless steel wafers | TFE/316 stainless steel wafers | TFE/Monel® wafers |
| 5 Seats: 7115 & 7155 Series 7122 & 7142 Series 7188 Series | PCTFE TFE — | PCTFE TFE Filled TFE | PCTFE TFE — |
| 6 Seat retainers | Brass | 316 stainless steel | Monel® |
| 7 Seat washers† 7115, 7155 & 7188 Series 7122 & 7142 Series | Viton® TFE | Viton® TFE | Viton® TFE |
| 8 End fitting gaskets 7188 Series | — | Dyneon™ TFM 1700 | — |
| Other valves | TFE | TFE | TFE |
| 9 Handle | Nylon | Nylon | Nylon |
| 10 Panel mounting nut 7115 Series | Nickel-plated brass | Nickel-plated brass | Nickel-plated brass |
| Other valves | Nickel-plated brass | 316 stainless steel | Nickel-plated brass |



All 6000 psig valves come with long red handles for reduced operating force. All other models have a short blue handle.

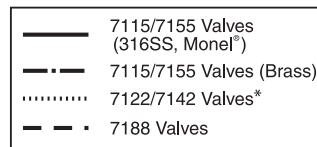
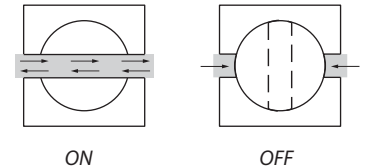
† Other elastomers are available upon request. Contact your local distributor for details.

Pressure vs. Temperature Curve



Flow Diagrams 2-way valve

Straight Pattern Valve



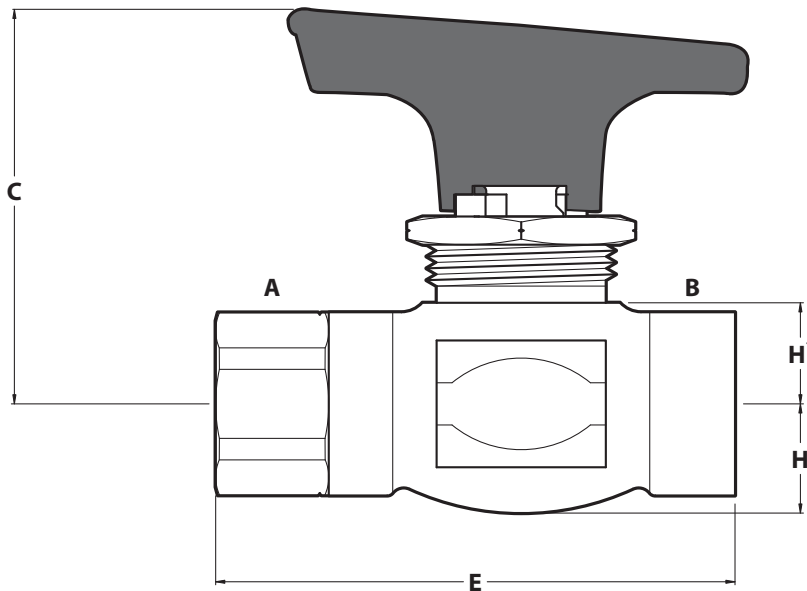
* Minimum temperature -40° F (-40° C)

Flomite® 71 Series

Dimensions

| INLET A | OUTLET B | UNIT | ORIFICE | C | E | H | H ¹ | PANEL MOUNTING | |
|-----------------|-----------------|------|---------|-------|--------|-------|----------------|----------------|-----------|
| | | | | | | | | MAX. THICKNESS | HOLE SIZE |
| 1/8" Gyrolok | 1/8" Gyrolok | inch | 0.093 | 1 1/2 | 2 1/2 | 1 3/2 | 1 1/2 | 3/16 | 1 1/2 |
| | | mm | 2.4 | 33 | 66 | 10 | 9 | 5 | 15 |
| 1/8" female NPT | 1/8" female NPT | inch | 0.125 | 1 1/2 | 1 3/2 | 1 3/2 | 1 1/2 | 3/16 | 1 1/2 |
| | | mm | 3.2 | 33 | 50 | 10 | 9 | 5 | 15 |
| 1/8" female NPT | 1/8" female NPT | inch | 0.250 | 1 1/2 | 2 1/4 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 41 | 58 | 13 | 11 | 6 | 19 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | inch | 0.125 | 1 1/2 | 2 1/16 | 1 3/2 | 1 1/2 | 3/16 | 1 1/2 |
| | | mm | 3.2 | 33 | 68 | 10 | 9 | 5 | 15 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | inch | 0.187 | 1 1/2 | 3 3/2 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 4.7 | 41 | 78 | 13 | 11 | 6 | 19 |
| 1/4" male NPT | 1/4" Gyrolok® | inch | 0.187 | 1 3/4 | 2 7/8 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 4.7 | 45 | 73 | 13 | 11 | 6 | 19 |
| 1/4" male NPT | 3/8" Gyrolok® | inch | 0.250 | 1 3/4 | 2 7/8 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 73 | 13 | 11 | 6 | 19 |
| 1/4" male NPT | 1/4" male NPT | inch | 0.187 | 1 1/2 | 2 1/2 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 4.7 | 41 | 64 | 13 | 11 | 6 | 19 |
| 1/4" male NPT | 1/4" female NPT | inch | 0.250 | 1 3/4 | 2 1/2 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 64 | 13 | 11 | 6 | 19 |
| 1/4" female NPT | 1/4" female NPT | inch | 0.250 | 1 3/4 | 2 1/16 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 62 | 13 | 11 | 6 | 19 |
| 3/8" Gyrolok® | 3/8" Gyrolok® | inch | 0.250 | 1 3/4 | 3 1/4 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 83 | 13 | 11 | 6 | 19 |
| 1/2" Gyrolok® | 1/2" Gyrolok® | inch | 0.250 | 1 7/2 | 4 1/8 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 49 | 106 | 13 | 11 | 6 | 19 |
| 3mm Gyrolok® | 3mm Gyrolok® | inch | 0.093 | 1 1/2 | 2 1/2 | 1 3/2 | 1 1/2 | 3/16 | 1 1/2 |
| | | mm | 2.4 | 33 | 66 | 10 | 9 | 5 | 15 |
| 6mm Gyrolok® | 6mm Gyrolok® | inch | 0.125 | 1 1/2 | 2 1/16 | 1 3/2 | 1 1/2 | 3/16 | 1 1/2 |
| | | mm | 3.2 | 33 | 68 | 10 | 9 | 5 | 15 |
| 6mm Gyrolok® | 6mm Gyrolok® | inch | 0.187 | 1 1/2 | 3 3/2 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 4.7 | 41 | 78 | 13 | 11 | 6 | 19 |
| 8mm Gyrolok® | 8mm Gyrolok® | inch | 0.250 | 1 3/4 | 3 1/4 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 83 | 13 | 11 | 6 | 19 |
| 10mm Gyrolok® | 10mm Gyrolok® | inch | 0.250 | 1 3/4 | 3 3/8 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 45 | 79 | 13 | 11 | 6 | 19 |
| 12mm Gyrolok® | 12mm Gyrolok® | inch | 0.250 | 1 7/8 | 4 | 1/2 | 7/16 | 1/4 | 4 3/4 |
| | | mm | 6.4 | 48 | 103 | 13 | 11 | 6 | 19 |

Dimensions for reference only, subject to change.



Flomite® 71 Series

How to Order Standard Valves

Flomite® 7115 & 7155 Series PCTFE Seats—Viton® Washers

Brass: Pressure to 3000 psig (207 bar)

316 Stainless Steel/Monel®: Pressure to 6000 psig

Temperature range: 0° F to 300° F (–18° C to 149° C)

| END CONNECTIONS | | ORDER BY PART NUMBER | | | ORIFICE | Cv |
|-----------------|-----------------|----------------------|---------------|---------|---------|------|
| INLET | OUTLET | BRASS | 316 ST. STEEL | MONEL® | | |
| 1/8" Gyrolok® | 1/8" Gyrolok® | 7155G2B | 7155G2Y | — | 0.093 | 0.23 |
| 1/8" female NPT | 1/8" female NPT | 7155F2B | 7155F2Y | — | 0.125 | 0.40 |
| 1/8" female NPT | 1/8" female NPT | — | 7115F2Y | — | 0.250 | 1.40 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | 7155G4B | 7155G4Y | — | 0.125 | 0.40 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | 7115G4B | 7115G4Y | 7115G4M | 0.187 | 0.80 |
| 1/4" male NPT | 1/4" Gyrolok® | 7115H4B | 7115H4Y | — | 0.187 | 0.80 |
| 1/4" male NPT | 1/4" female NPT | 7115L4B | 7115L4Y | — | 0.250 | 1.40 |
| 1/4" female NPT | 1/4" female NPT | 7115F4B | 7115F4Y | 7115F4M | 0.250 | 1.40 |
| 3/8" Gyrolok® | 3/8" Gyrolok® | 7115G6B | 7115G6Y | — | 0.250 | 1.40 |
| 1/2" Gyrolok® | 1/2" Gyrolok® | 7115G8B | 7115G8Y | — | 0.250 | 1.40 |
| 1/2" female NPT | 1/2" female NPT | 7115F8B | 7115F8Y | — | 0.250 | 1.40 |
| 3mm Gyrolok® | 3mm Gyrolok® | — | 7155G3YMM | — | 0.093 | 0.23 |
| 6mm Gyrolok® | 6mm Gyrolok® | — | 7155G6YMM | — | 0.125 | 0.40 |
| 6mm Gyrolok® | 6mm Gyrolok® | — | 7115G6YMM | — | 0.187 | 0.80 |
| 8mm Gyrolok® | 8mm Gyrolok® | — | 7115G8YMM | — | 0.250 | 1.40 |
| 10mm Gyrolok® | 10mm Gyrolok® | — | 7115G10YMM | — | 0.250 | 1.40 |
| 12mm Gyrolok® | 12mm Gyrolok® | — | 7115G12YMM | — | 0.250 | 1.40 |



7155G2Y

Flomite® 7122 & 7142 Series TFE Seats—TFE Washers

Pressure to 1500 psig (103 bar)

Temperature range: –40° F to +350° F (–40° C to +176° C)

| END CONNECTIONS | | ORDER BY PART NUMBER | | | ORIFICE | Cv |
|-----------------|-----------------|----------------------|---------------|---------|---------|------|
| INLET | OUTLET | BRASS | 316 ST. STEEL | MONEL® | | |
| 1/8" Gyrolok® | 1/8" Gyrolok® | 7142G2B | 7142G2Y | — | 0.093 | 0.23 |
| 1/8" female NPT | 1/8" female NPT | 7142F2B | 7142F2Y | — | 0.125 | 0.40 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | 7142G4B | 7142G4Y | — | 0.125 | 0.40 |
| 1/4" Gyrolok® | 1/4" Gyrolok® | 7122G4B | 7122G4Y | 7122G4M | 0.187 | 0.80 |
| 1/4" male NPT | 1/4" Gyrolok® | 7122H4B | 7122H4Y | — | 0.187 | 0.80 |
| 1/4" male NPT | 3/8" Gyrolok® | — | 7122H46Y | — | 0.250 | 1.40 |
| 1/4" male NPT | 1/4" male NPT | — | 7122M4Y | — | 0.250 | 1.40 |
| 1/4" male NPT | 1/4" female NPT | 7122L4B | 7122L4Y | — | 0.250 | 1.40 |
| 1/4" female NPT | 1/4" female NPT | 7122F4B | 7122F4Y | 7122F4M | 0.250 | 1.40 |
| 3/8" Gyrolok® | 3/8" Gyrolok® | 7122G6B | 7122G6Y | — | 0.250 | 1.40 |
| 1/2" Gyrolok® | 1/2" Gyrolok® | — | 7122G8Y | — | 0.250 | 1.40 |
| 3mm Gyrolok® | 3mm Gyrolok® | — | 7142G3YMM | — | 0.093 | 0.23 |
| 6mm Gyrolok® | 6mm Gyrolok® | — | 7142G6YMM | — | 0.125 | 0.40 |
| 6mm Gyrolok® | 6mm Gyrolok® | — | 7122G6YMM | — | 0.187 | 0.80 |
| 8mm Gyrolok® | 8mm Gyrolok® | — | 7122G8YMM | — | 0.250 | 1.40 |
| 10mm Gyrolok® | 10mm Gyrolok® | — | 7122G10YMM | — | 0.250 | 1.40 |



7122F4B

Flomite® 7188 Series Filled TFE Seats—Viton® Washers

Pressure to 2000 psig (138 bar)

Temperature range: –20° F to +425° F (–29° C to +218° C)

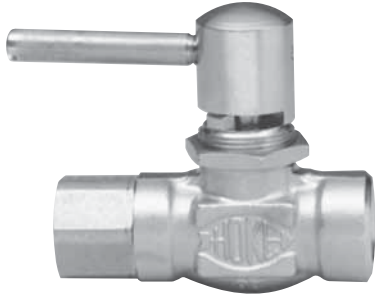
| END CONNECTIONS | | ORDER BY PART NUMBER | | CV |
|-----------------|-----------------|----------------------|---------|------|
| INLET | OUTLET | 316 STAINLESS STEEL | ORIFICE | |
| 1/4" Gyrolok® | 1/4" Gyrolok® | 7188G4Y | 0.187 | 0.80 |
| 1/4" female NPT | 1/4" female NPT | 7188F4Y | 0.250 | 1.40 |
| 3/8" Gyrolok® | 3/8" Gyrolok® | 7188G6Y | 0.250 | 0.80 |
| 1/2" Gyrolok® | 1/2" Gyrolok® | 7188G8Y | 0.250 | 0.80 |



7188F4Y

Flomite® 71 Series

Ordering Options



Metal Handles

Metal handles can be ordered for Flomite® 71 Series 2-way valves with an orifice of 0.187" or 0.250". To order, specify kit 7100K13 following the valve number (Example: 7155G2Y-7100K13).

Color-coded Handles

Color-coded handles are available for Flomite® 71 Series valves. Order by the part numbers listed below.

| HANDLE COLOR | 7115, 7122 & 7188 SERIES | 7142 & 7155 SERIES |
|--------------|--------------------------|--------------------|
| Red | 95683-030 | 97346-030 |
| Blue | 95683-031 | 97346-031 |
| Black | 95683-032 | 97346-032 |
| Green | 95683-033 | 97346-033 |
| Orange | 95683-034 | 97346-034 |



Handle Locking Kit

Safety lockout kits are available for applications which must conform to Code of Federal Regulations 29CFR Part 1910, OSHA Safety and Health Act, and other international regulations. Valves can be locked in either an opened or closed position with the stainless steel upper and lower locking plates. Lock with readily available padlocks or commercially available multiple lockout devices. Locking kits include the locking plates and assembly instructions. To order a safety lockout kit for 7115, 7122 and 7188 Series valves, specify kit 7100K18.

Spare Parts

Spare parts and repair kits are available for all ball valves. Please contact your distributor for specific information.

Cleaning and Testing

When ordering, please specify if oxygen cleaning or helium leak testing is required.

Additional Sizes

Additional sizes and options are available on special request. Please consult your local HOKE distributor.

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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