

# **High Cycle Ball Valves**

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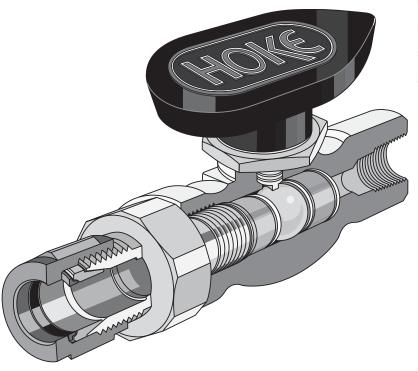


#### **Family Features**

Rated up to 100,000 cycles Working pressures up to 6000 psig (414 bar) Working temperatures up to 500° F (260° C) Wide range of end connections ball valves



# **High Cycle Ball Valves at a Glance**



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HOKE High Cycle ball valves are designed for repeatable, zero leakage sealing when control conditions demand valve actuation exceeding 50,000 cycles. Their unique stem- and seat designs provide packless-free operation and ease of maintenance.

HOKE High Cycle ball valves provide a wide range of capabilities for demanding applications. Temperature limits range from -65° F (-54° C) to 500° (260° C). Operating pressure limits run as high as 6000 psig (414 bar) for the D/DL Series valves. Choose a 2-way ball valve for fast, quarter-turn on-off operation. Alternatively, a 3-way ball valve such as the HOKE 7 Series employs 180° operation for diverting flow from one line to another. In situations where fire propagation is an issue, HOKE offers the 7 Series Fire Safe ball valve.

Before making your high cycle ball valve selection, be sure to consider the system pressure, operating temperature, required flow and materials of construction. If you application requires a ball valve not listed in this catalog, contact your local HOKE stocking distributor, or the factory.

#### **Family Features**

- Rated up to 100,000 cycles
- Working pressures up to 6000 psig (414 bar)
- Working temperatures up to 500° F (260° C)
- Wide range of end connections

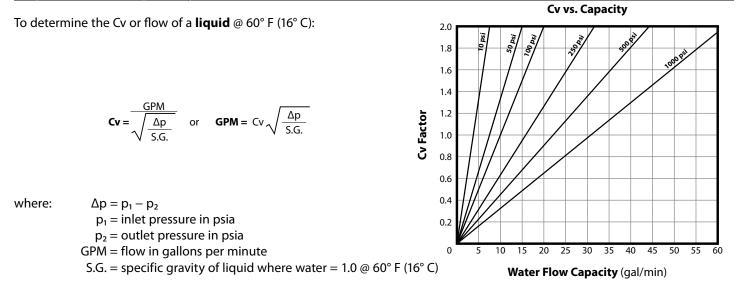
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## **High Cycle Ball Valves at a Glance**

	SERIES	DESCRIPTION/APPLICATIONS	FEATURES	STANDARD BODY MATERIAL
	D, DL, T & TL Series High Cycle, Zero Leak Ball Valves 2-way Ball Valves (page 5)	<ul> <li>DL/TL Series - 100K cycles</li> <li>D/T Series - 50K cycles</li> <li>D/DL Series - High pressure</li> </ul>	<ul> <li>Live-loaded seats (DL &amp; TL)</li> <li>Bi-directional (T &amp; D)</li> <li>Uni-directional (DL &amp; TL)</li> </ul>	316 stainless steel Brass (DL/T/TL) Monel®
(TITTY)	7223D Series High Performance Rotoball® 2-way Ball Valves (page 13)	<ul> <li>CNG fuel stations</li> <li>CNG vehicles</li> <li>Hydrogen fuel cells</li> <li>Pilot plants</li> </ul>	<ul> <li>Bi-directional</li> <li>Blow-out proof stem</li> <li>Extended life cycle</li> </ul>	316 stainless steel Monel® R-405
	7 Series 2- and 3-way 3-piece Bolted Ball Valves (page 17)	<ul> <li>On-off service</li> <li>High cycle life</li> <li>High flow</li> </ul>	<ul> <li>Removable valve center</li> <li>Live-loaded stem and seat seals compensate for thermal cycling and wear with zero leakage</li> <li>Blow-out proof stem</li> </ul>	316L stainless steel
Careford and Careford	7 Series – Fire Safe 2-way, 3-piece Bolted Ball Valve (page 32)	<ul> <li>High flow, high safety</li> <li>Chemical processing</li> <li>Petroleum refining</li> <li>Gas distribution</li> <li>Hydraulic fluids</li> </ul>	<ul> <li>Design retards propagation of downstream fire</li> <li>Meets API 607 4th edition requirements</li> <li>Bottom-loaded, blow-out proof stem</li> <li>Fully encapsulated bolts</li> </ul>	316 stainless steel, grade CF8M

## Liquid Flow capacity of HOKE Ball Valves



# **High Cycle Ball Valves at a Glance**

MAX. OPERATING PRESSURE @70° F (21° C)	OPERATING TEMPERATURE RANGE	Cv FLOW RANGE (VARIES W/ END CONNECTION)	<b>ORIFICE SIZES</b>	STANDARD END CONNECTIONS
<b>316 SS and Monel®</b> D & DL: 6000 psig (414 bar) T: 1500 psig (103 bar) TL: 3000 psig (207 bar)	-40° F to +350° F (-40° C to +177° C)	0.023 to 1.44	0.093″ to 0.250″ (2.36 mm to 6.35 mm)	½", ¼", ¾", ½" <b>GYROLOK®</b> ¼" male NPT × ¼" <b>GYROLOK®</b> ¼" female NPT 6 mm, 8 mm, 10 mm <b>GYROLOK®</b>
<b>Brass</b> DL: 3000 psig (207 bar) T: 1500 psig (103 bar) TL: 3000 psig (207 bar)				
5000 psig (345 bar)	-65° F to +400° F (-54° C to +204° C)	3.4	0.375″ (9.35 mm)	¾", ½″ <b>GYROLOK®</b> ¾", ½″ female NPT ¾", ½″ SAE 12 mm <b>GYROLOK®</b>
2500 psig (172 bar)	FKM (Viton®) -20° F to +450° F (-29° C to +232° C) Curved Disc Springs -65° F to +500° F	1.0 to 0.38	0.19″ to 0.81″ (4.8 mm to 20.6 mm)	<ul> <li>½", ¼", ¾", ½", ¾", 1" GYROLOK®</li> <li>¼", ¾", ½", ¾", 1" female NPT</li> <li>6, 8, 10, 12, 18, 20, 22, 25mm GYROLOK®</li> <li>¼", ¾", ½", ¾", 1" tube socket weld</li> <li>¼", ¾", ½", ¾", 1" pipe socket weld</li> <li>¼", ¾", ½", ¾", 1 " pipe butt weld</li> </ul>
	-65 + 10 + 500 + 600 +			%, %, %, %, %, %, 1 pipe butt weid

### Gas Flow capacity of HOKE Ball Valves

