A CIRCOR International company

7223D Series

High Performance Rotoball® Valve; Bi-directional Flow



The 7223D Series was designed to meet demanding high cycle actuation applications. The high performance Rotoball® valve is ideally suited for manual or actuated CNG or hydrogen alternative fuels applications.

Features

- Blowout proof stem
- High performance delta stem seal design for extended cycle life
- Variety of end connections for leak-free performance
- Variety of o-rings to choose from to meet system/media demands
- Electric and pneumatic actuators are available for remote actuation.

Applications

- CNG fuel stations
- CNG vehicles
- Hydrogen fuel cells
- Hydrogen vehicles
- Test stands
- Pilot plants

Technical Data

MAXIMUM OPERATING PRESSURE	• 316 stainless steel and Monel®: 5,000 psig @ 70° F (345 BAR @ 21° C) • Brass: 2,000 psig @ 70° F (138 BAR @ 21° C)
OPERATING TEMPERATURE RANGE	–65° F to +400° F (–54° C to +204° C)
ORIFICE	0.375″ (9.35mm)
Cv FACTOR	3.4
END CONNECTIONS	Gyrolok®, NPT, SAE
PROOF PRESSURE	• 316 stainless steel and Monel®: 10,000 psig @ 70° F (690 BAR @ 21° C) • Brass: 4,000 psig @ 70° F (276 BAR @ 21° C)

ball valves

HOKE Incorporated
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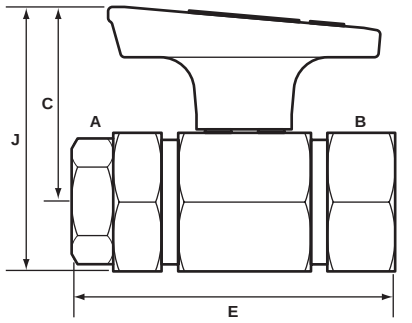
ООО «Нижегородские промышленные системы» дистрибьютор HOKE
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7223D Series

Materials of Construction

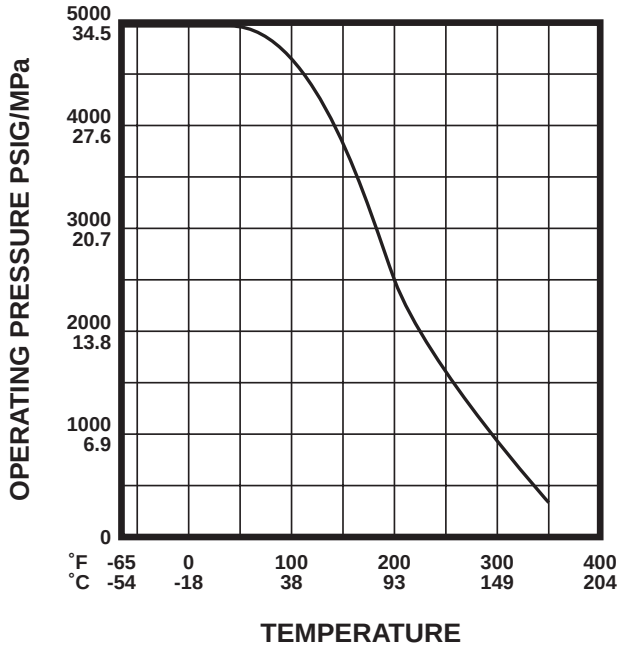
	DESCRIPTION	MATERIAL
1	Handle	Nylon
8	Body	316 stainless steel, Monel® R-405
6	Stem	316 stainless steel, Monel® R-405
10	O-ring	See o-ring selection chart, page 4
11	Seat retainer	316 stainless steel, Monel®, brass
12	Seat	Virgin Teflon®
13	Ball	316 stainless steel, Monel® R-405
16	Plug	316 stainless steel, Monel®, brass
17	Thrust washer	Du Steel
19	Back-up ring	Teflon®
20	Spring pin	302 stainless steel
2	Hole plug	Nylon
4	Washer	316 stainless steel

Dimensions Chart



INLET A & OUTLET B		C	E	J
⅜ Female NPT	inch	1⅞	3½	2⁹⁄₁₆
	mm	48	89	65
½ Female NPT & SAE	inch	1⅞	3½	2⁹⁄₁₆
	mm	48	89	65
½ Gyrolok®	inch	1⅞	4⅞	2⁹⁄₁₆
	mm	48	124	65
12mm Gyrolok®	inch	1⅞	4⅞	2⁹⁄₁₆
	mm	48	124	65

Pressure vs Temperature Curve



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7223D Series

Ordering Options

Metal Lever Handle
A red metal lever handle is available for the 7223D Series. To order specify LMKT7223 with plug button #5982.



7223G8YD with Metal Lever Handle

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 worldwide 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 Rotoball® 7223D Series specify kit #7200K7.



Ball Valve with Handle Lock

Panel Mounting
To order panel mounting, specify kit #7200K1.



Panel Mounting

Electric and Pneumatic Actuators
For remote control of Rotoball® 7223D Series valves, order an electric or pneumatic actuator. Electric actuators are supplied in either 115 VAC or 24 VDC with weatherproof or explosion-proof housings. Pneumatically actuated ball valves using HOKE's rack and pinion actuators can be used for both double acting and spring return applications.



Actuators

Spare Parts
Spare parts and repair kits are available for all ball valves.

SP7223D Y 50

MATERIAL	*O-RING COMPONENT*
Y 316 stainless steel	**20** Buna N
B Brass	**50** Viton®
M Monel®, R405	**64** Kalrez®

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

Additional Sizes
Additional sizes and options and materials are available. Please consult your local HOKE distributor.

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7223D Series

How to Order

7223 F 6 Y D 20 EA

CONNECTION CONFIGURATION
- **F** Female NPT
- **G** Gyrolok®
- **FS** SAE

CONNECTION SIZE
- **6** ⅜″
- **8** ½″
- **12** 12mm

BASIC MATERIAL
- **B** Brass
- **Y** 316 stainless steel
- **M** Monel®

ACTUATORS—FACTORY ASSEMBLED
omit for manual valve
- **WA** 115 VAC weatherproof
- **EA** 115 VAC explosion-proof
- **WD** 24 VDC weatherproof
- **NO** 90° spring return, normally open
- **NC** 90° spring return, normally closed
- **DA** 90° double action

O-RING MATERIAL
- **20** Buna N
- **50** Viton®
- **64** Kalrez®

- **D** Denotes 'Delta' backup

MATERIAL	OPERATING TEMPERATURE °F	°C
Buna N	–65° to +250°	–54° to +121°
Viton®	–20° to +400°	–29° to +204°
Kalrez®	+20° to +400°	–7° to +204°

Delta Seal

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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Teflon® is a registered trademark of the DuPont Company.
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