High Pressure Ball Valves

KHB Series
Block Housing

KHM Series
Forged Housing

Specifications
- 1/4” - 2” Full Port Design
- BSP or DIN2353 Connections
- Carbon Steel or Stainless Steel Housings
- Block Housing: Sizes 06 - 25
- Forged Housing: Sizes 32 - 50
- Ball Seals: Polyacetal (standard)
- O-Rings: Fluoroelastomer (FPM) (standard)
- Operating Pressure to 7250 psi (500 bar) depending on valve size and seal materials selected
- Temperature Range: 14˚F to 176˚F with standard materials (1114) up to maximum pressure rating. Extended temperature range -40˚F to 392˚F on request with special materials and reduced pressure rating.

Available Connections
- SAE & NPT, BSP & Metric Tube, and Split Flange

Locking Devices and Seal Kits are available for these series.

Ball Valve Actuator
Pneumatic Operation

Specifications
- Full Port Design
- Carbon Steel or Stainless Steel Housing
- Standard Polyacetal Ball Seals
- Operating Pressures up to 7250 psi* 
- Standard Fluoroelastomer O-Rings (FPM)

Standard Ball Valve Design Feature and Options & Engineering Data for the KHB, KHM, KHP, and KHB3K series of valves can be found in the valves section of the online catalog utilizing the QR code at the bottom of the page.

To reach model numbers, detailed part breakdowns, technical specifications and options scan the QR code with your smartphone in order to utilize the links embedded in this document.
High Pressure Ball Valves

KHF3/6 Series
Direct Mount SAE Flange 1/2” to 2”

Specifications
- Connection: Dual bolt pattern fits Code 61 and 62 SAE flanges
- Operating Pressure: to 6000 psi
- Ball Seal Material: Polyacetal
- O-ring Material: Fluoroelastomer (FPM)
- Housing Material: Carbon Steel
- Temperature Range: 14˚ to 176˚F

KHF3 Series
Direct Mount SAE Flange 2 1/2” to 4”

Specifications
- Connection: Bolt pattern fits code 61 SAE flanges
- Operating Pressure: to 2500 psi
- Ball Seal Material: Polyacetal
- O-ring Material: Fluoroelastomer (FPM)
- Housing Material: Carbon Steel
- Temperature Range: 14˚ to 176˚F

KHP Series
2-way Manifold Mounted Ball Valves

Specifications
- Sizes 3/8” - 2”
- Carbon Steel Housing
- Ball Seals: Polyacetal (standard)
- O-Rings: Fluoroelastomer (FPM) (standard)
- Operating Pressure: to 5000 psi depending on seal materials selected
- Temperature Range: 14˚ to 176˚F with standard materials (1114) up to maximum pressure rating. Extended temperature range -40˚ to 392˚F on request with special materials and reduced pressure rating.

KHB3H Series
3 Piece Ball Valve

Specifications
- 1/2” - 4” Standard Port
- 1/2” - 2” Class 2500 ANSI (up to 6000 psi)
- 3” - 4” Class 1500 ANSI (up to 3800 psi)
- Blow-out proof stem
- Handle operated or actuated
- Applications: Offshore, Oil & Gas, Chemical, Petrochemical, Refining, Energy
- Media: Liquid or gas
- Material: Stainless Steel
- End Connections: Socket weld and threaded. Other options available (consult factory)
- Locking devices available

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High Pressure Ball Valves
KHB3K Series
3-way Diverter Ball Valves

 Specifications
• 1/4” - 1” Full Port Design
• 2 Position
• Carbon Steel Housing
• NPT or SAE O-Ring Connections
• Ball Seals: Polyacetal (standard)
• O-Rings: Fluoroelastomer (FPM) (standard)
• Operating Pressure: to 7250 psi depending on valve size and seal materials selected
• Temperature Range: 14˚ to 176˚F with standard materials (1114) up to maximum pressure rating. Extended temperature range -40˚ to 392˚F on request with special materials and reduced pressure rating.

KH3 & KH4 Series
Multiway Ball Valves

 Specifications
• Sizes 1/4” to 3/4”
• 2 Positions, 90˚ Switching Standard
• Carbon Steel Housing
• L and T Ball Drilling: KH3
• L, T and X Ball Drilling: KH4
• NPT or SAE O-Ring Connections
• Ball Seals: Polyacetal (standard)
• O-Rings: Fluoroelastomer (FPM) (standard)
• Operating Pressure: to 7250 psi depending on valve size and seal materials selected
• Temperature Range: 14˚ to 176˚F with standard materials (1114) up to maximum pressure rating. Extended temperature range -40˚ to 392˚F on request with special materials and reduced pressure rating.

Note: Valves use a trunion design, rather than the “floating ball” design used on all other ball valves.

The KH3 & KH4 series are the only valves in the HYDAC lineup that utilize a trunion design rather than the floating ball design used on all other series. These series also allow for T and X style drillings, opening up new flow configurations.

Locking Devices are available for these series.

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