

**KH/6 Series
Manual Ball Valve
Installation Instructions**

SPECIFICATIONS

KH Manually operated ball valve for gas piping carrying natural gas, propane, butane, air and inert gases.

<p>Body size</p> <p>KH 01/6-02 KH 01/6-03 KH 01/6-05 KH 01/6-07 KH 01/6-10 KH 01/6-12 KH 01/6-15 KH 01/6-20 KH 01/6-25 KH 01/6-30</p>	<p>Size</p> <p>1/4" NPT 3/8" NPT 1/2" NPT 3/4" NPT 1" NPT 1 1/4" NPT 1 1/2" NPT 2" NPT 2 1/2" NPT 3" NPT</p>	<p>Materials in contact with Gas</p> <p>Housing: Forged brass Seals: PTFE O-rings; Viton</p> <p>Mounting Position</p> <p>Vertically upright to horizontal</p> <p>Classification of Valve for up to 2"NPT</p> <p>UL 125 Subject 258 (125 PSI) ANSI Z21.15; CSA 9.1 (0.5 PSI) ANSI B16.33; CSA 3.16 (125 PSI) CSA 3-88 and CGA CR91-002 (125 PSI) ASME 16.44 (5 PSI)</p>
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Gases
Natural gas, propane, butane & other noncorrosive gases

Factory Rated Maximum Operating Pressure
125 PSI (4225 mbar)

Ambient / Fluid Temperature
-40 °F to +300 °F (-40 °C to +150 °C)

Approvals for up to 2" NPT

UL Listed: File # MH18741
CSA Certified: File # 209183
FM Approved: File # 1B7A5.AH
Commonwealth of Massachusetts Approved Product
Approval code G1-1107-35



ATTENTION

- Read these instructions carefully.
- Failure to follow them and/or improper installation may cause explosion, property damage and injuries.
- Installation must be done with the supervision of a licensed burner technician.
- Check the ratings in the specifications to make sure that it is suitable for your application.
- Never perform work if gas pressure or power is applied, or in the presence of an open flame.
- Once installed, perform a complete checkout including leak testing.
- Label all wires prior to disconnection when servicing. Wiring errors can cause improper and dangerous operation
- Verify proper operation after servicing.
- The system must be installed, used, and maintained to meet all applicable national and local code requirements such as but not limited to NFPA 86, CSD-1, ANSI Z21.13, UL 795, NFPA 85, or CSA B149.3.

LOCKING DEVICES

Locking devices are available for the KH series ball valves from 1/2" NT up to 2" NPT.

Description	Part Number
1/2" to 3/4"	48650-11
1" to 1 1/4"	48650-31
1 1/2" to 2"	48650-41

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MOUNTING

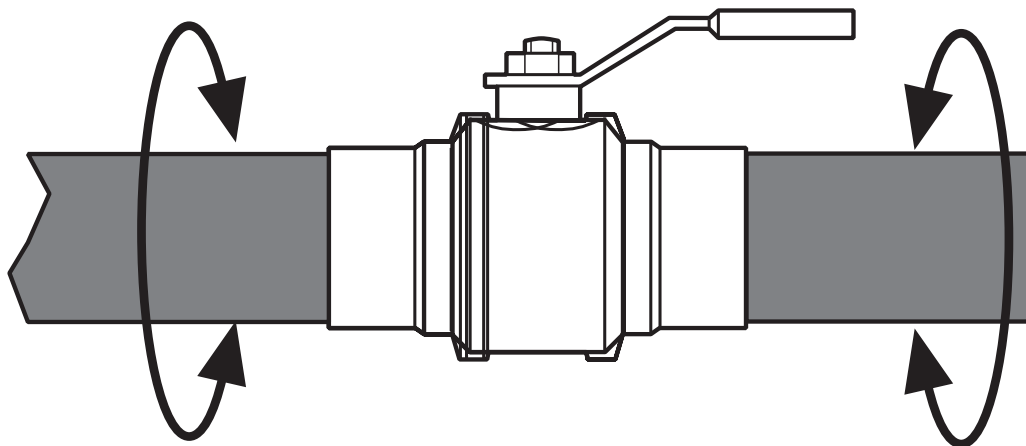
Recommended Piping Procedure

- Examine the valve for shipping damage.
- The main gas supply must be shut off before installation.
- The inside of the valve, threads and piping all must be clean and free of dirt and debris. Failure to remove dirt / debris could result in valve damage or cause improper performance.
- Use new, properly reamed and threaded pipe free of chips.
- Apply good quality pipe sealant, putting a moderate amount on the male threads only. If pipe sealant lodges on the valve seat, it will prevent proper operation. If using LP gas, use pipe sealant rated for use with LP gas.

- Do not thread pipe too far. Valve distortion and/or mal function may result from excess pipe in the valve body.
- Apply counter pressure only a parallel jaw wrench only to the flats on the flange when screwing the pipe into the flanges.
- Do not overtighten the pipe. Follow the maximum torque values listed below.
- After installation is complete, perform a leak test.

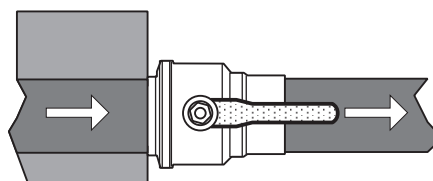
T= Torque

NPT	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2 1/2"	3"
Tmax [lb-in]	443	752	1106	1770	1991	2213	2876	3540

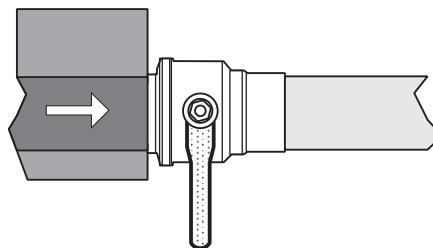


SPECIAL CONSIDERATION WHEN MOUNTING HANDLE ON SIDE

If the ball valve is mounted so that the handle is on the side, as shown to the right, the handle must close the ball valve when actuated downwards as illustrated to the right.



NOTE: When installing a new ball valve 1" and larger, there is a larger amount of torque require to actuate the ball valve first time because of the lack of lubrication on the ball itself. In order to actuate the valve, mount into a vice or on a gas train and turn the handle. Once actuated, the valve is now lubricated and easier to turn.



⚠ Never permanently remove the handle from the ball valve.