

Product Brief

The KL6 5-Valve Manifold is designed specifically for natural gas applications, especially for use with recording orifice meters. The KL6T and KL6TA options allow for flange-by-tube installation or flange-by-flange installation of these manifolds if desired.

Features/Benefits

- Lightweight construction. Installs in meter tubing without additional support.
- **Tested and qualified.** Cycle tested 500 times under full Cold Working Pressure (CWP) load.
- 1/4-inch FNPT ports standard. Connect static pressure to the upstream or downstream ports.
- Dual high-performance grade Viton™ O-Ring with PTFE backup ring packing design below stem threads.
- Metal-to-metal, bonnet-to-body seal to maintain shell pressure.
- Non-rotating taper tip stem plug design to reduce seat wear.
- Mirror internal bonnet finish for extended packing life.

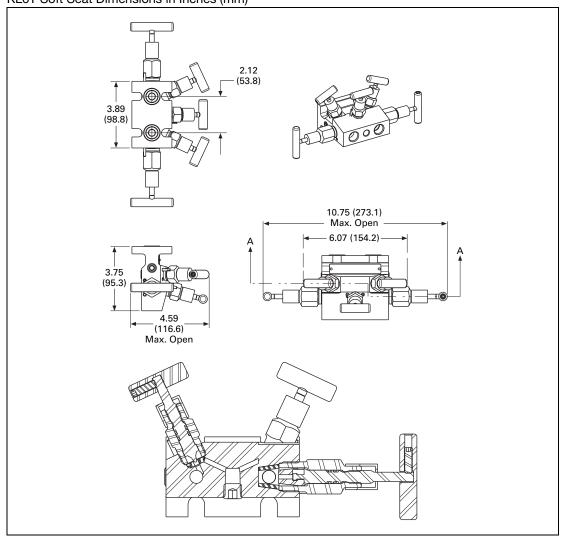
- Bonnet cap protection. Increases valve life and maintains integrity of stem threads.
- No more stem blowouts. No-backout stem design prevents blowout problems and removal while in use.
- Ergonomic, non-knuckle busting handle positioning for smooth turns and accurate adjustments.
- Built in ISO 9001 certified facility.
- Compliance with industry standards:
 - ASME B31.1 Power Piping
 - ASME B31.3 Process Piping
 - API 598 Valve Inspection and Testing
 - ISO 5208 Industrial Valves; Pressure Testing of Metallic Valves
 - MSS SP-99 Instrument Valves



An Employee-Owned Company

Specifications

KL6T Soft Seat Dimensions in Inches (mm)



Notes

Approximate valve weight: 7.4 lb (3.4 kg).

Soft Seat: 0.375-inch (9.5 mm) diameter orifice.

Cv = 2.43, full open.

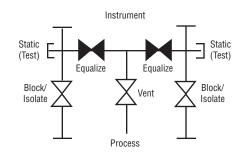
KL6T Installation Kit consists of 4 bolts, 7/16-inch – 20 x 1-inch,

4 washers, and 2 gaskets.

Shell Tested to 1.5x Cold Working Pressure.

Seat Tested to 1.1x Cold Working Pressure.

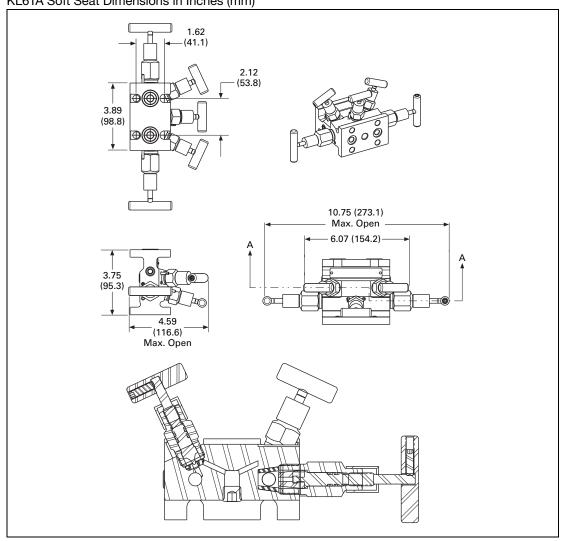
The KL6T high-pressure extrusion has flanged (integral) instrument connections and 1/2-inch NPT process connections.





Specifications

KL6TA Soft Seat Dimensions in Inches (mm)



Notes

Approximate valve weight: 8.0 lb (3.6 kg).

Soft Seat: 0.375-inch (9.5 mm) diameter orifice.

Cv = 2.43, full open.

KL6TA Installation Kit consists of

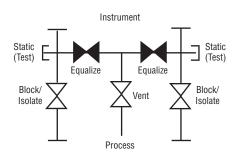
4 bolts, 7/16-inch – 20 x 1-inch,

4 washers, and 2 gaskets.

Shell Tested to 1.5x Cold Working Pressure.

Seat Tested to 1.1x Cold Working Pressure.

The KL6TA high-pressure extrusion has flanged (integral) instrument and process connections.





Standard Materials

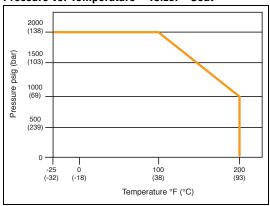
Valve	Seat	Body	Bonnet	Stem
CS ①	Soft	A576	A108	17-4
SS	Soft	A479-316	A479-316	17-4

① CS parts are zinc nickel-plated to prevent corrosion.

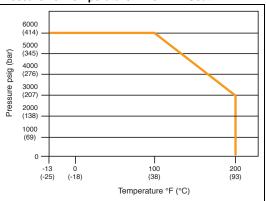
Pressure and Temperature Ratings

Seat Material	Rating
Tefzel®	2000 psi from –25°F to 100°F (138 bar from –32°C to 38°C) 1000 psi at 200°F (69 bar at 93°C)
Delrin®	6000 psi from –25°F to 100°F (414 bar from –32°C to 38°C) 3000 psi at 200°F (207 bar at 93°C)

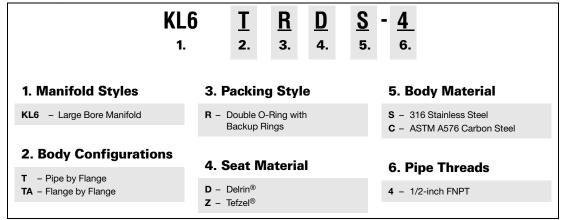
Pressure vs. Temperature – Tefzel® Seat



Pressure vs. Temperature – Delrin® Seat



Naming Convention



Example: KL6TRDS-4

Large Bore Manifold, Pipe by Flange, Double O-Ring with Backup Rings, Delrin[®] Seats, 316 Stainless Steel Body, 1/2-inch FNPT Pipe Threads.

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