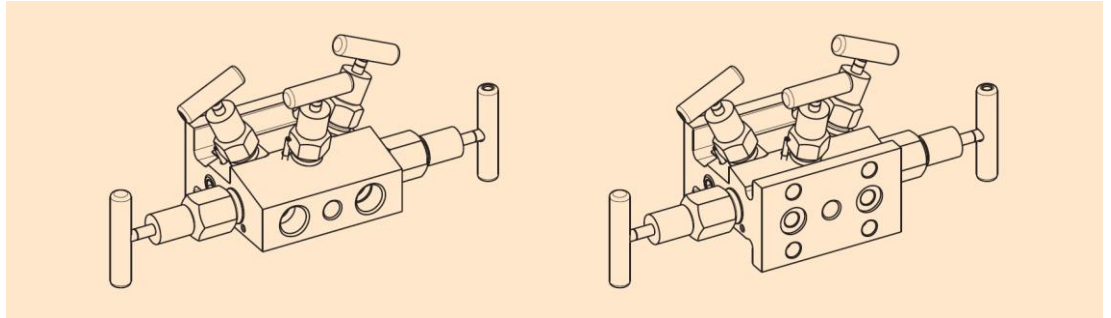


Kerotest KL Multi-Valve 3/8" Large Bore Natural Gas Manifolds



Product Brief

The KL Multi-Valve Manifold is designed specifically for natural gas applications, especially for use with recording orifice meters. The manifolds provide, in a single body, 3 or 5 valves for differential pressure measurement applications. This compact, industry standard-sized design results in fewer leaks to the environment. These manifolds have large 3/8" (9.5mm) bores connecting the process and instrumentation sides. The manifolds are available in Pipe by Pipe, Pipe by Flange, Flange by Flange configurations with inline or right-angle process flows in stainless or carbon steel.

Features/Benefits

- **Maximum operating pressure:** 2,000 psi (138 bar) or 6,000 psi (414 bar).
- **Tested and qualified.** Cycle tested 500 times with full Cold Working Pressure (CWP) load.
- **1/4" FNPT ports.** 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

Kerotest Large Bore Natural Gas Manifolds

Ordering and Catalog Number Convention

			KL6	T	R	D	S	-	4	<i>Example</i>
Style										
KL3	-	3/8" (9.5mm) Bore, 3 Valve								
KL6	-	3/8" (9.5mm) Bore, 5 Valve								
Body Configuration										
A	-	Pipe by Pipe								
T	-	Pipe by Flange								
TA	-	Flange by Flange								
AT	-	Angled Pipe by Flange								
ATA	-	Angled Flange by Flange								
Packing										
R	-	Double O-Ring with Backup Rings								
Seat										
D	-	Delrin®								
Z	-	Tefzel®								
Body Material										
S	-	316 Stainless Steel								
C	-	ASTM A576 or A105 Carbon Steel								
Pipe Threads										
4	-	1/2" FNPT								

Separate Orderable Options

60001123	Mount Kit, SS, 2.25" Bolts
60001124	Mount Kit, CS, 2.25" Bolts
60001212	Mount Kit, SS, 1.25" and 2.25" Bolts
60001213	Mount Kit, CS, 1.25" and 2.25" Bolts

Example: **KL6TRDS-4**

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

All manifolds except Pipe x Pipe configurations come standard with an Installation Kit which consists of

- 4 bolts, 7/16–20 x 1.25" long
- 4 bolts, 7/16–20 x 2.25" long
- 4 washers, and 2 gaskets.

All product names referenced herein are trademarks of their respective companies.

Kerotest Large Bore Natural Gas Manifolds

Standard Materials

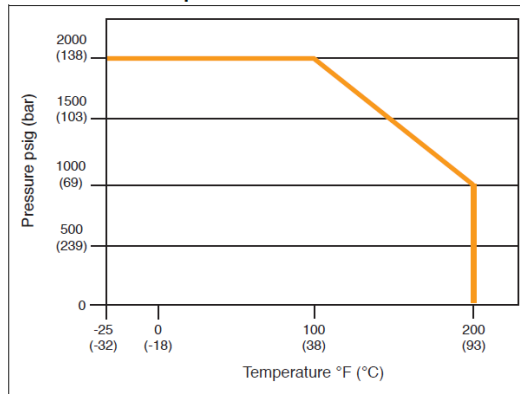
Valve	Seat	Body	Bonnet	Stem
CS	Soft	A576	A108	17-4
SS	Soft	A479-316	A479-316	17-4

Ⓞ Carbon Steel (CS) parts are zinc nickel-plated to prevent corrosion.

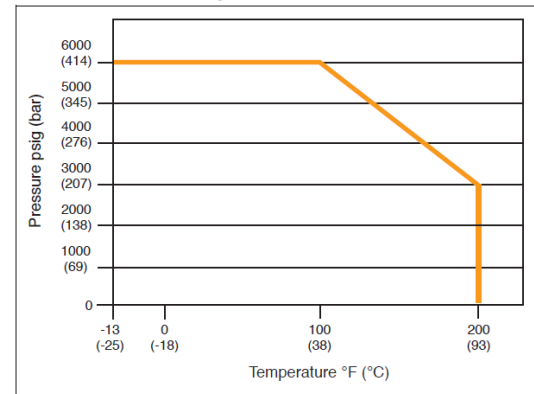
Pressure and Temperature Ratings

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



Manifold Production Testing

Each manifold is

- Shell Tested to 1.5x CWP
- All Seats Tested to 1.1x CWP

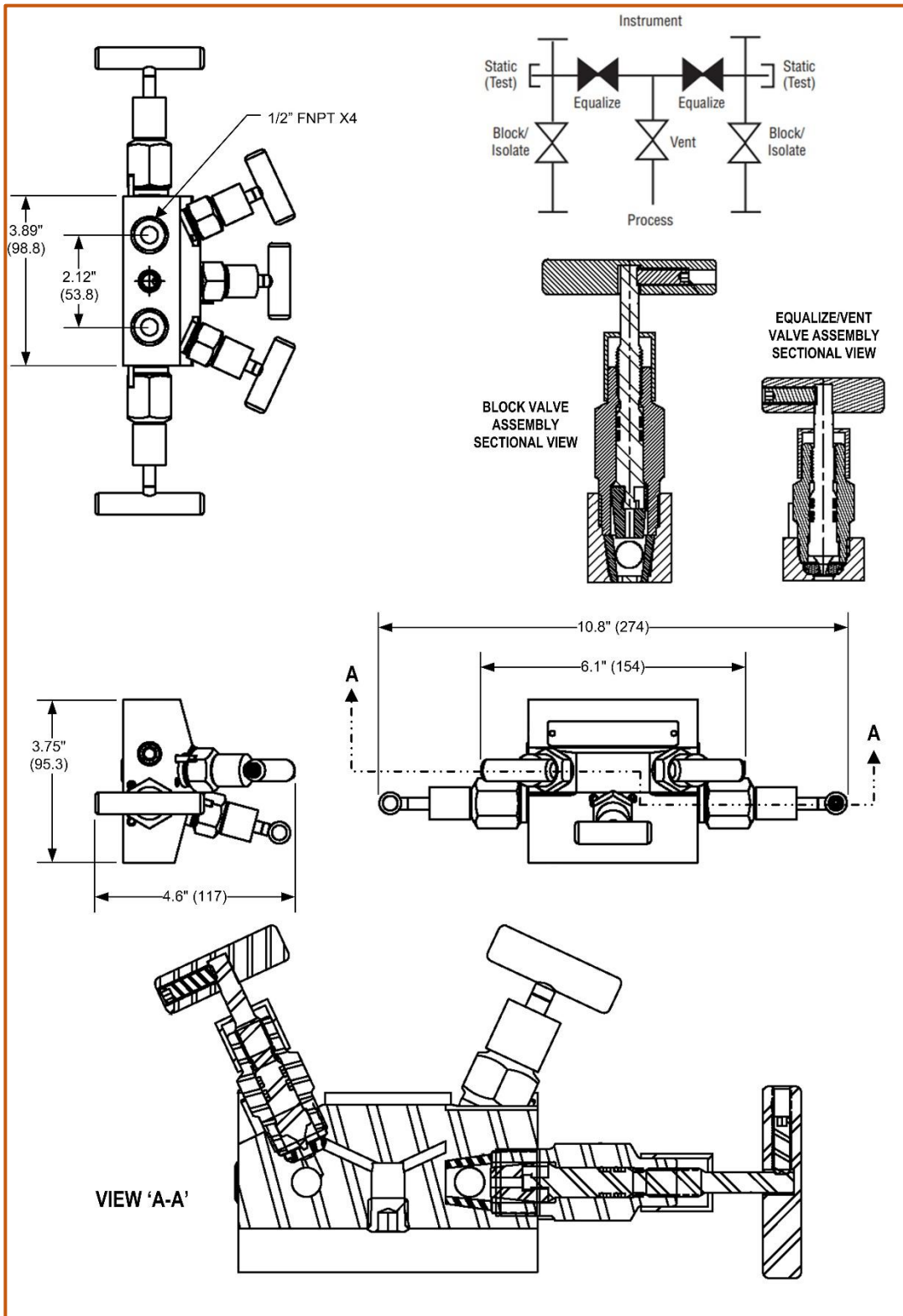
Cv = 2.43, full open for all manifolds

All product dimensions are shown as inches with mm as reference.

Kerotest Large Bore Natural Gas Manifolds

Specifications and Dimensions

KL6A: 5-Valve Pipe x Pipe Inline Manifold

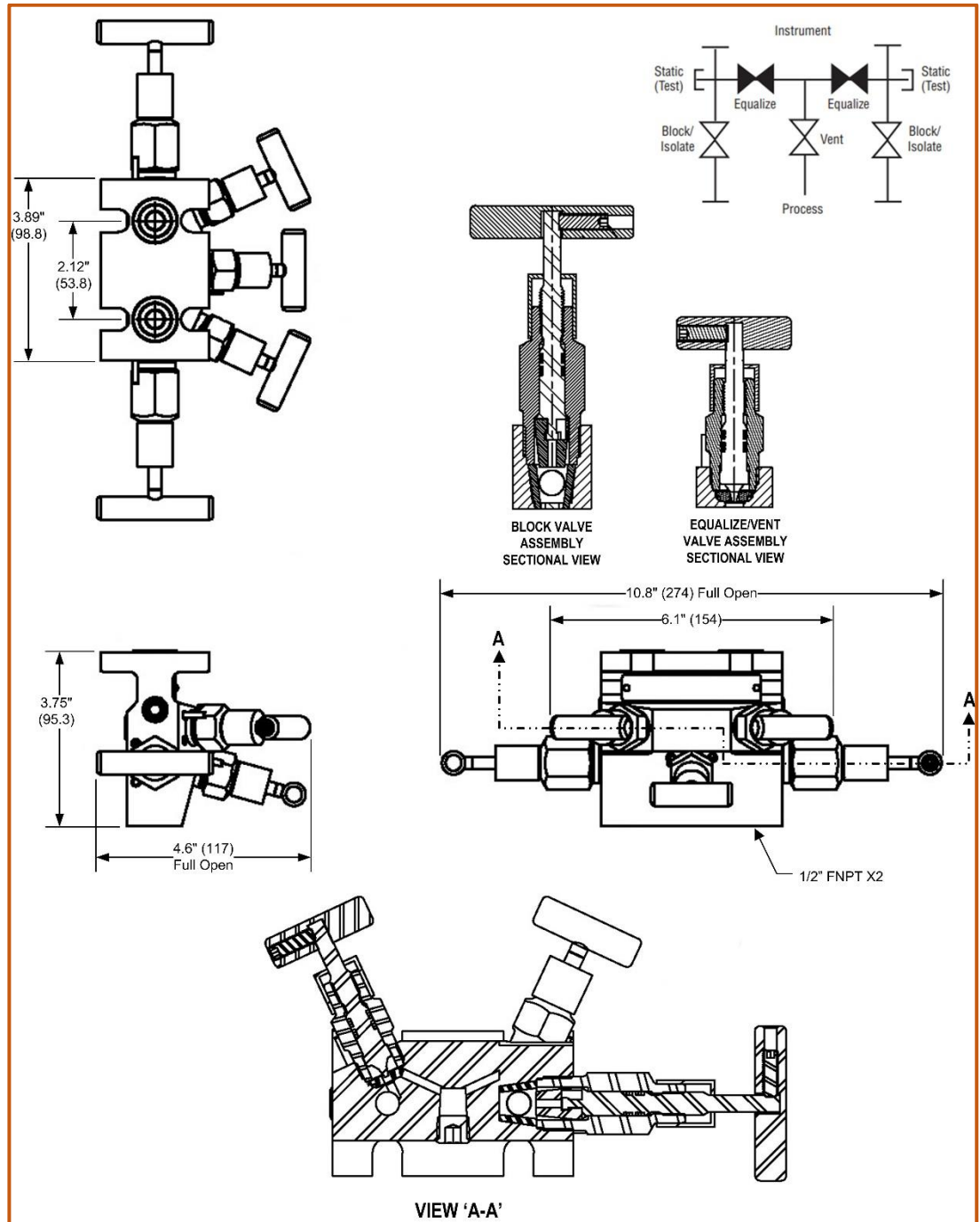


Notes:

The KL6A high-pressure extrusion has 1/2" NPT process connections.

Kerotest Large Bore Natural Gas Manifolds

KL6T: 5-Valve Pipe x Flange Inline Manifold



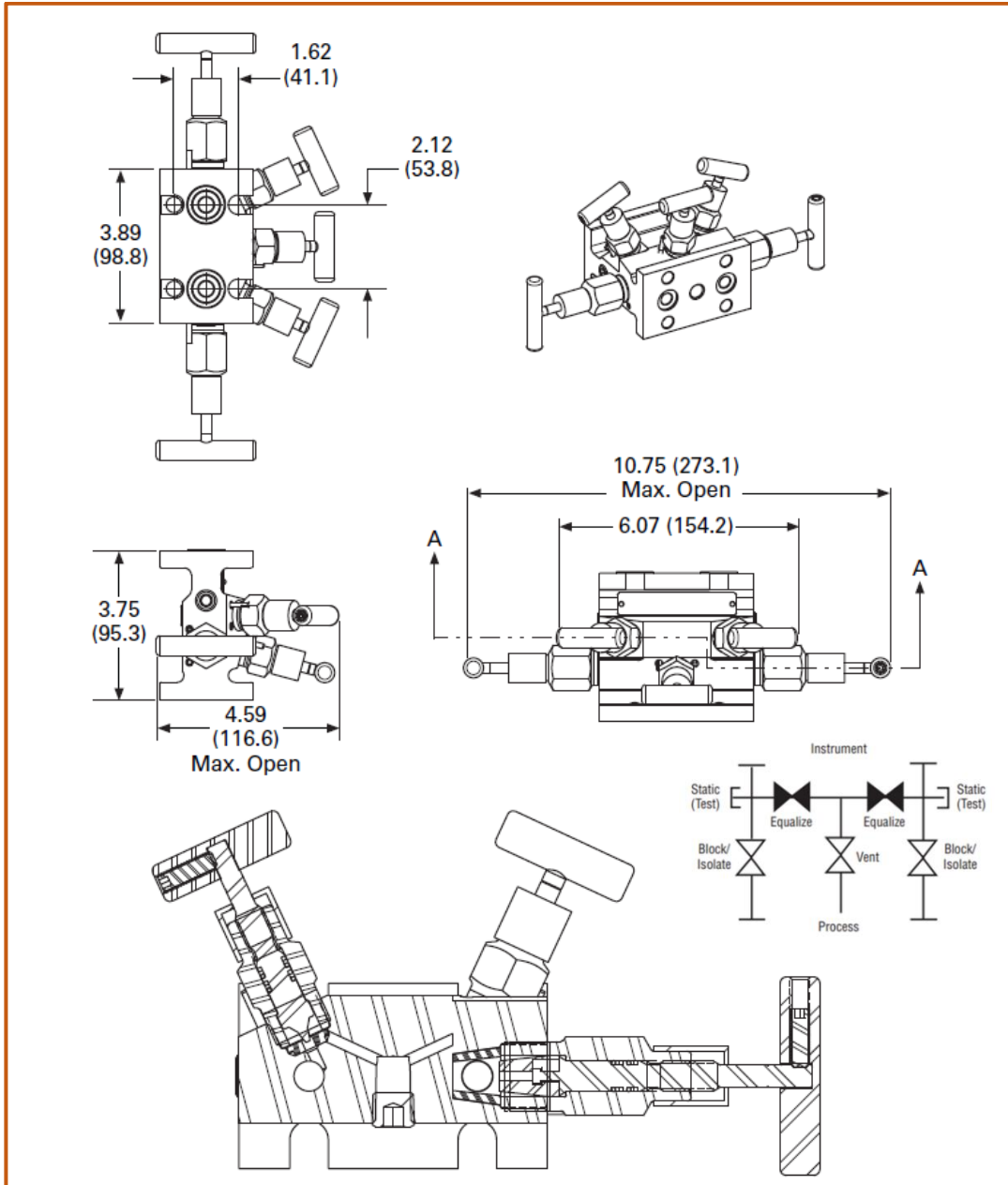
Notes:

Approximate valve weight: 6.8 lb (3.1 kg)

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

Kerotest Large Bore Natural Gas Manifolds

KL6TA: 5-Valve Flange x Flange Inline Manifold



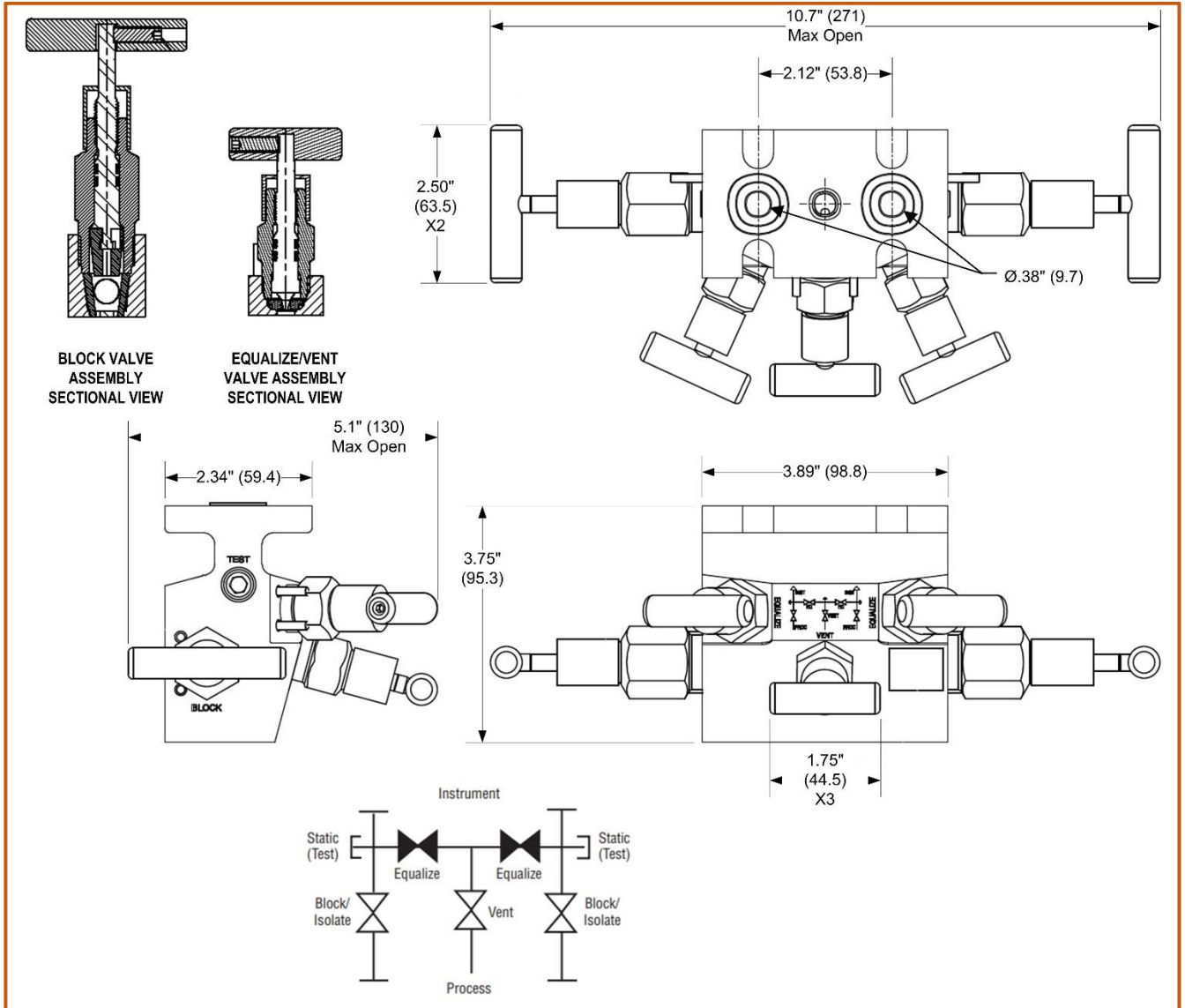
Notes:

Approximate valve weight: 7.3 lb (3.3 kg)

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

Kerotest Large Bore Natural Gas Manifolds

KL6AT: 5-Valve Flange x Pipe Angled Manifold

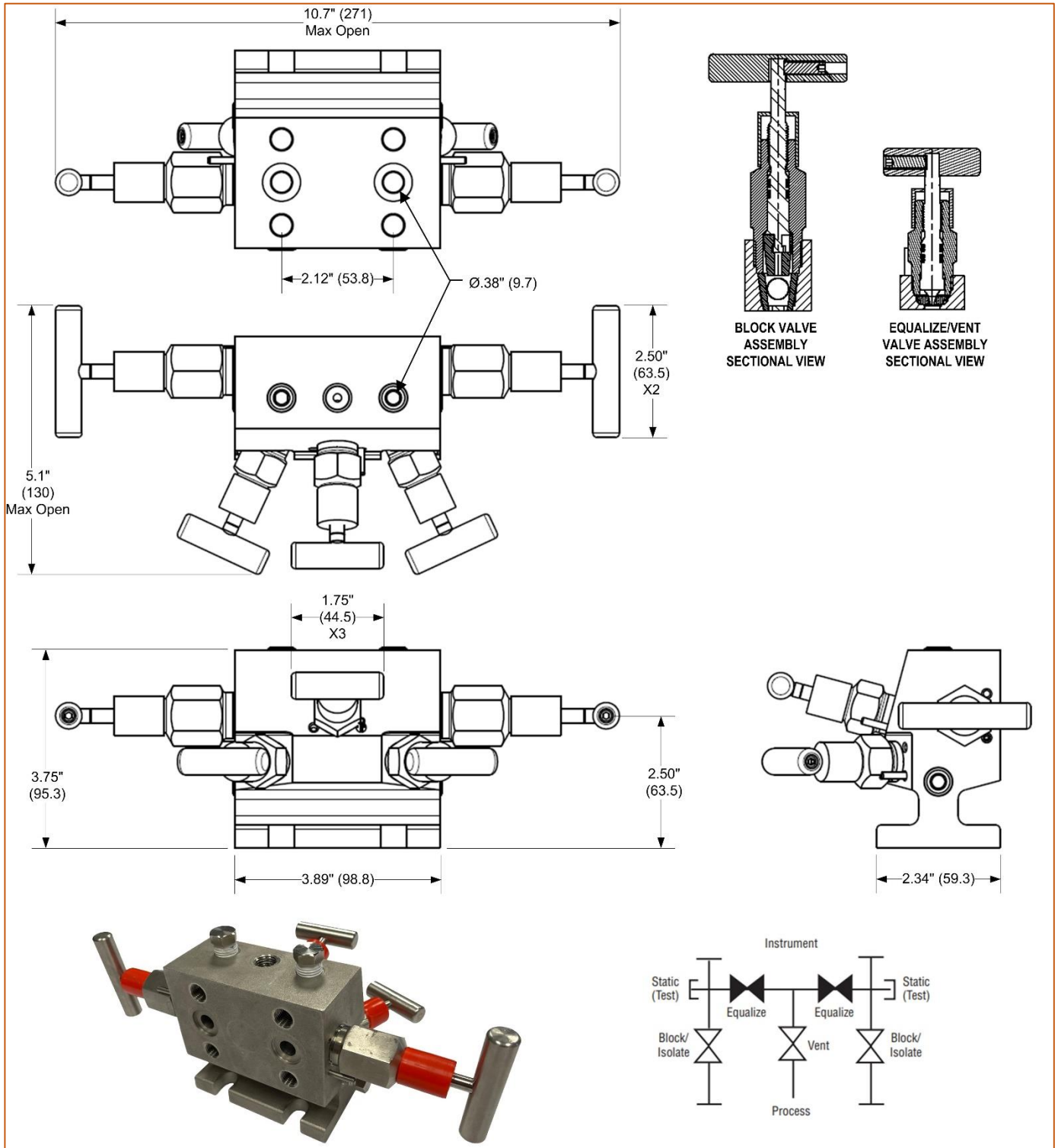


Notes:

The KL6AT high-pressure extrusion has flanged (integral) instrument connections and 1/2" NPT process connections in a right-angle configuration.

Kerotest Large Bore Natural Gas Manifolds

KL6ATA: 5-Valve Flange x Flange Angled Manifold



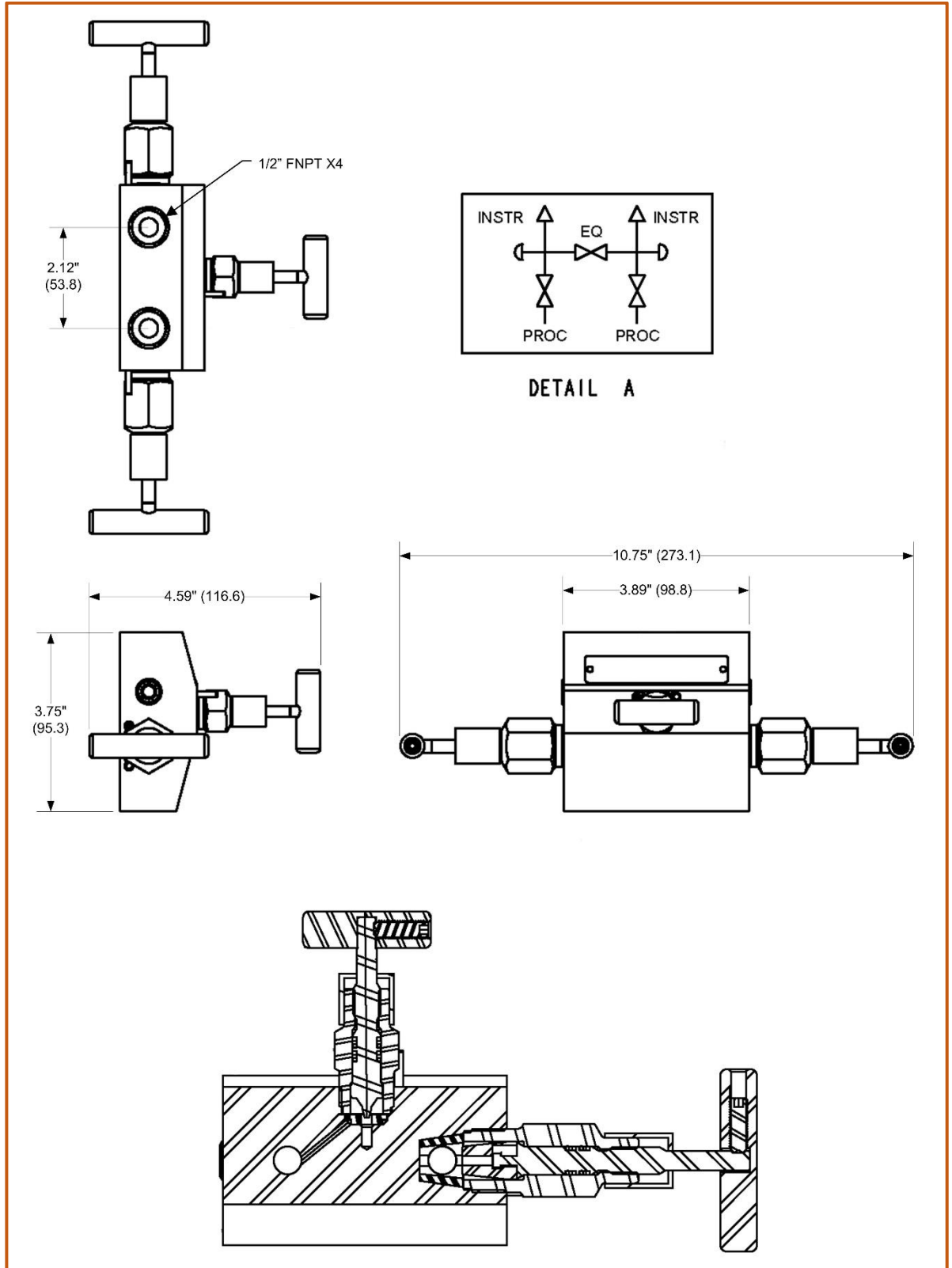
Notes:

Approximate weight: 8.6 lb (3.9 kg).

The KL6ATA high-pressure extrusion has flanged (integral) instrument connections in a right-angle configuration.

Kerotest Large Bore Natural Gas Manifolds

KL3A: 3-Valve Pipe x Pipe Inline Manifold

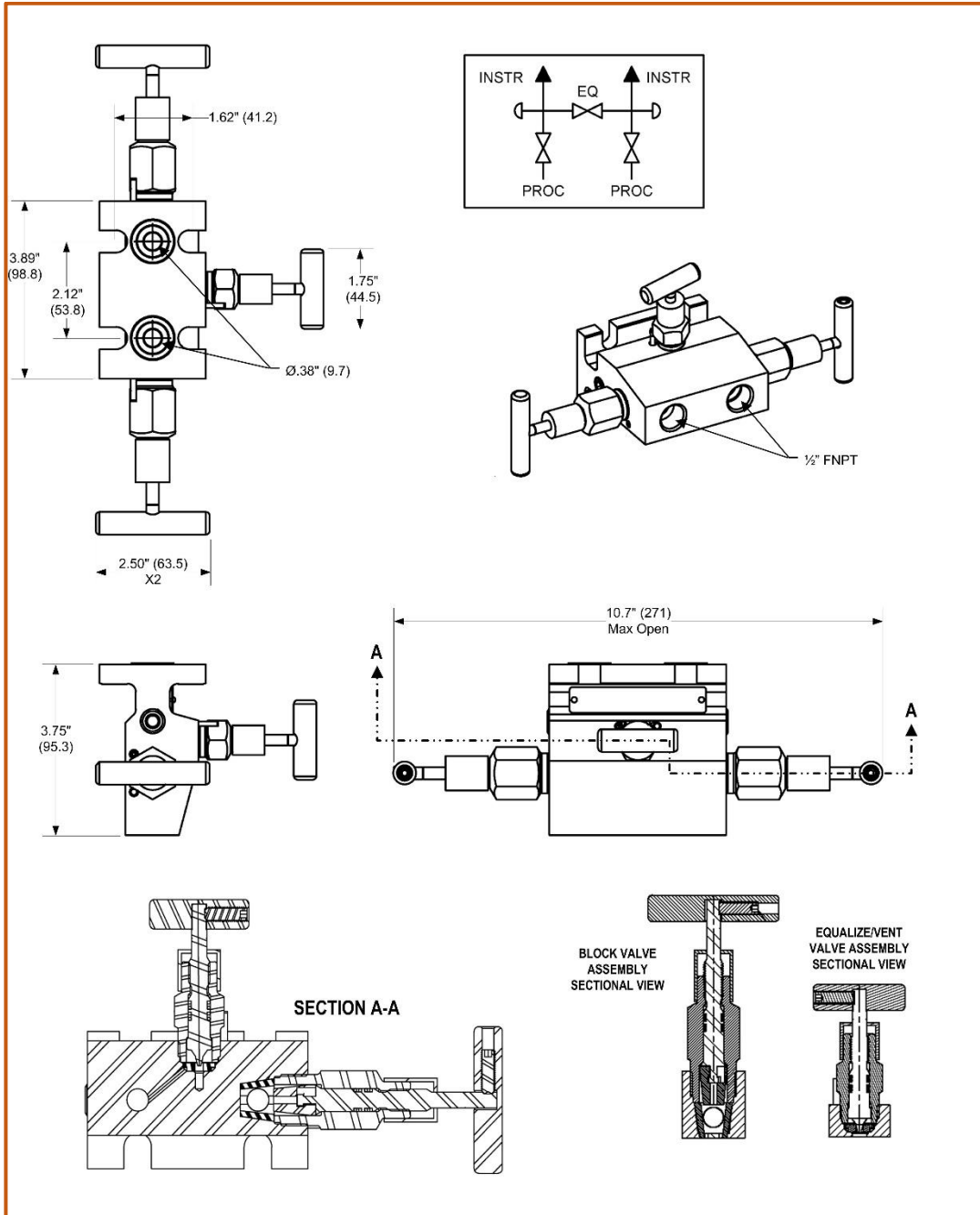


Notes:

The KL3A high-pressure extrusion has 1/2" NPT process connections.

Kerotest Large Bore Natural Gas Manifolds

KL3T: 3-Valve Pipe x Flange Inline Manifold

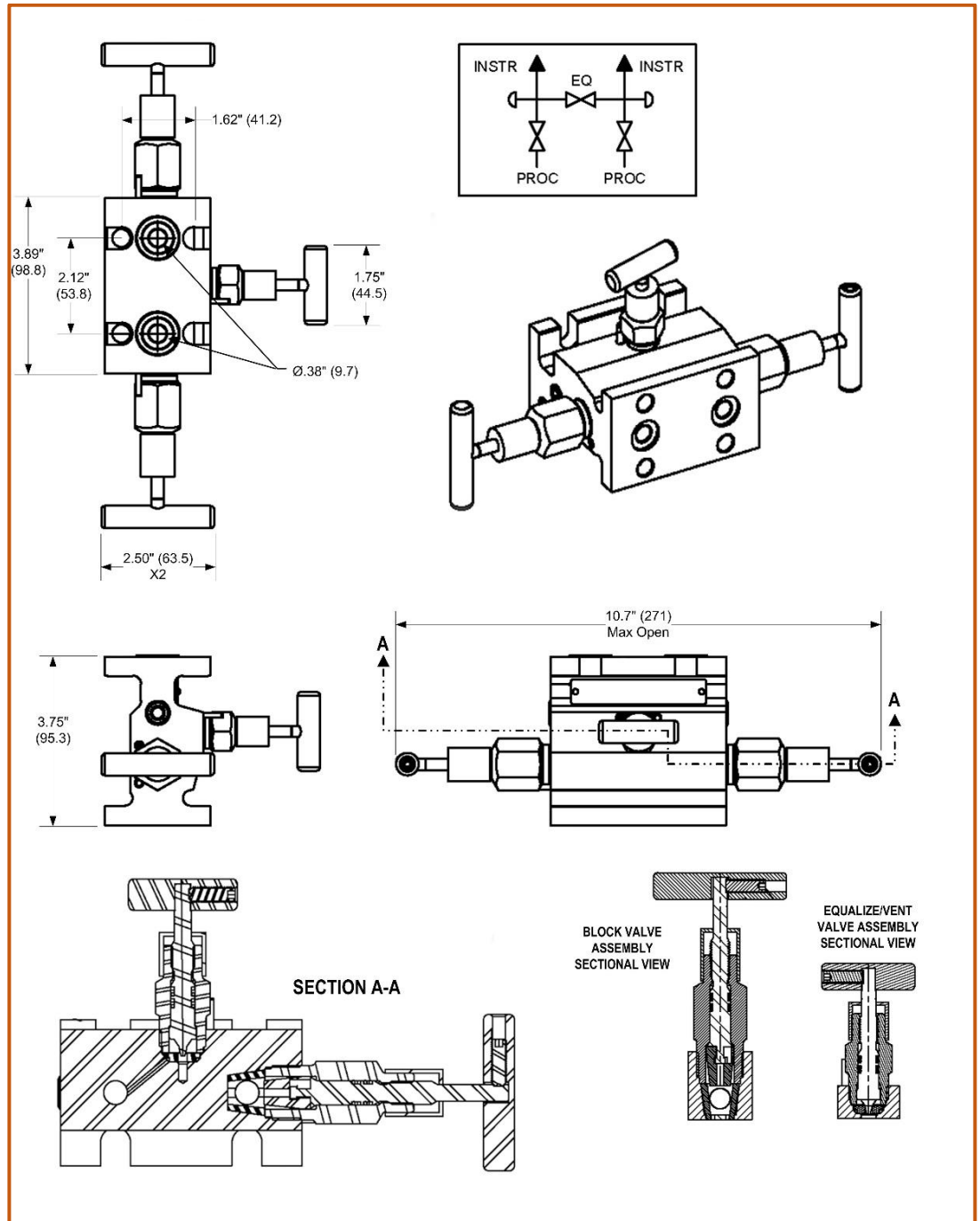


Notes:

The KL3T high-pressure extrusion has flanged (integral) instrument connections and 1/2" NPT process connections.

Kerotest Large Bore Natural Gas Manifolds

KL3TA: 3-Valve Flange x Flange Inline Manifold



Notes:

The KL3TA high-pressure extrusion has flanged (integral) instrument connections.

Kerotest Manufacturing Corp.

5500 Second Avenue, Pittsburgh PA 15207

412.521.4200

www.Kerotest.com

Sales@Kerotest.com

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