

Pressure Isolators

"25" Series

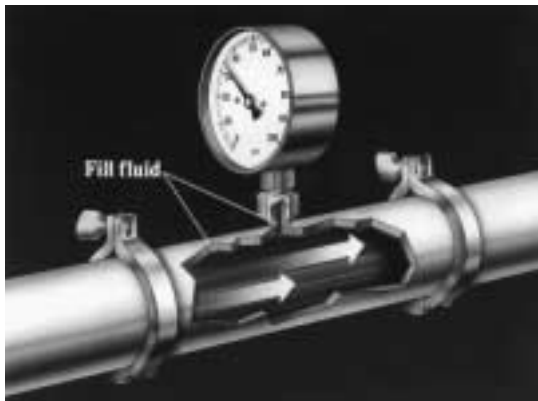
Solving fluid pressure measurement problems

Typical Applications

- Pharmaceutical
- Chemical processing
- Food processing
- SIP/CIP systems
- Pulp & Paper
- Paint spraying



Approval Options Available



Pipe pressure is hydraulically transferred to a dial gage.

Configuration

The "25" Series Isolators can be attached to a number of pressure instruments, including dial gages, pressure transmitters, and pressure switches. Viatran will provide the complete package for each of these options.

Pressure Transmitter

Viatran offers a full range of transmitters for use with the "25" Series Isolator. Capillary tubing can be attached for further temperature protection.

The Isolator can also be attached to customer provided pressure transmitters manufactured by other companies. Regardless of the transmitter unit, Viatran will meet the listed performance specifications. Viatran transmitters will ensure maximum performance and warranty coverage.

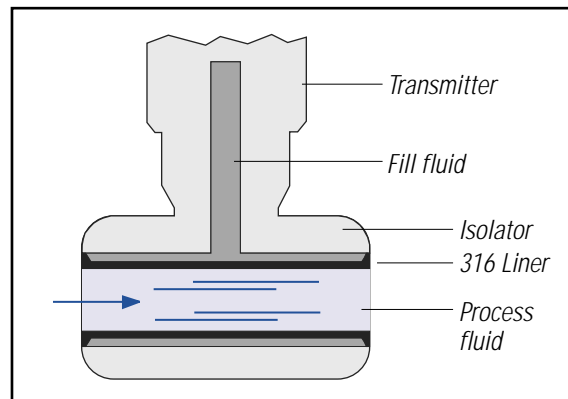
Dial Gages

The Isolator can be attached to a 2 1/2" or 4" mechanical dial gage. The available oil fills are listed in the specifications on the back page. Note: The dial gage will be oriented to the Isolator as shown in the photos. Other orientations should be requested at time of order.

Connections

Viatran also offers various pipe connections, depending on the application. Standard fittings include: Tri-Clamp, ANSI Flange or ISO process flanges.

**For product availability, or to order, call
1-800-688-0030, ext 506.**



An ISO 9001 Certified Company

Viatran "25" Series Specifications

Performance

Effect on Accuracy	≤ 0.5% of Full Scale Pressure Range
Maximum Pressure	Tri-Clover Limited to type of clamp used or 1K PSI, whichever is less
Cherry Burrell I Line	Limited to type of clamp used or 1K PSI, whichever is less
NPT	≥ 5K PSI
ANSI Connection	Limited by type of flange connection
Resolution	Infinite
Response time	≤ 100 mSec with no throttle screw used Use of throttle screw can slow response.
Temperature effect on Zero	Depends on type of output device, type of oil fill, and size of Isolator. Nominally 3-5 PSI per 100° F.
Temperature effect on Span	≤ 1% per 100° F
Operating Temperature Range	Determined by type of oil fill.

Mechanical

Materials of Construction

Body	316L stainless steel (except neck)
Liner	316L stainless steel
Oil Fills Available	Dow Coring 200 (Standard) Fluorolube Neo Bee M-20 DC-704 DC-710
Surface Finish	Foil: < 2 micro-inch RA Weld Seam: < 100 micro-inch RA (pipe size ≤ 2") < 30 micro-inch RA (pipe size ≥ 2 1/2")

Options Alternative liner materials

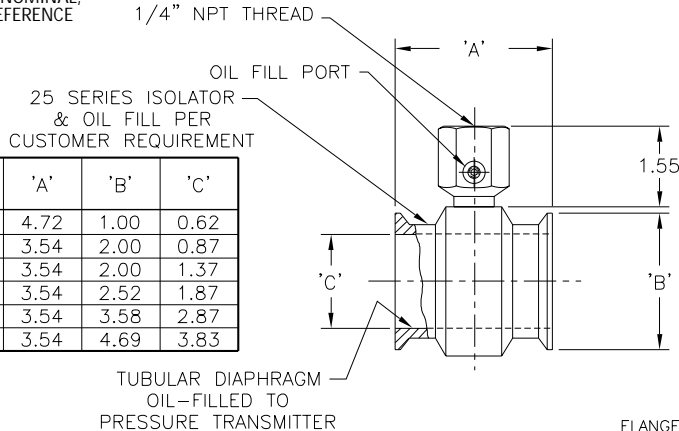
Accessories Throttle screw
Glycerine filled dial gage
Alarm contacts

Important: Application variables such as viscosity, temperature, pressure and media type may affect Isolator performance and operation. Always consult a Viatran Application Engineer for your specific application.

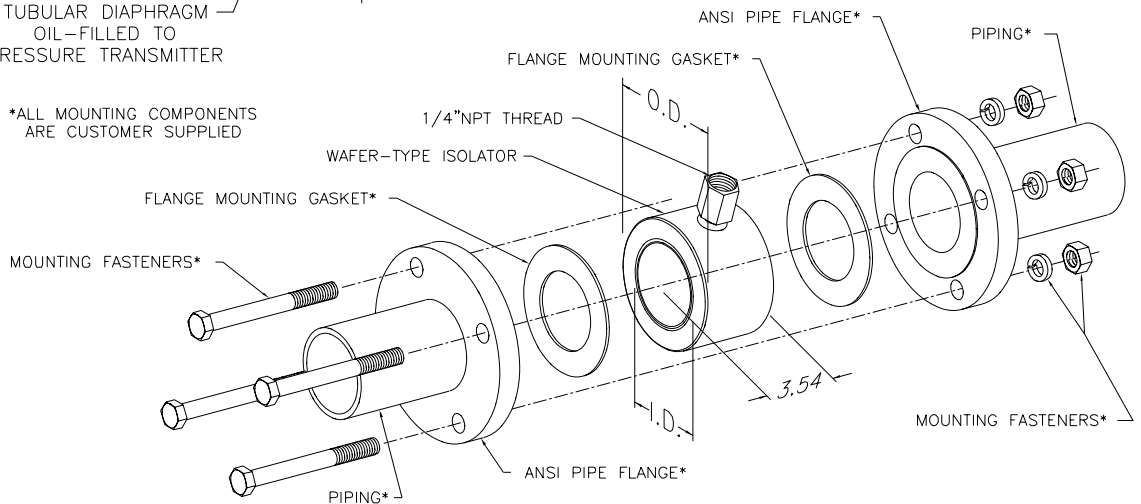
Dimensions

ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY

VIATRAN MODEL	TRI-CLAMP SIZE	'A'	'B'	'C'
25CT2	3/4"	4.72	1.00	0.62
25CT3	1"	3.54	2.00	0.87
25CT5	1-1/2"	3.54	2.00	1.37
25CT6	2"	3.54	2.52	1.87
25CT8	3"	3.54	3.58	2.87
25CT9	3-1/2"	3.54	4.69	3.83



*ALL MOUNTING COMPONENTS ARE CUSTOMER SUPPLIED



ISOLATOR DIMENSIONS			NEAREST FLANGE SIZE (WELD NECK - 150#)		
MODEL NO.	'O.D.'	I.D.	SIZE	HOLE I.D. (STD PIPE)	RAISED FACE O.D.
25W13	2.00	1.09	1	1.049	2
25W15	2.88	1.61	1 1/2	1.610	2.875
25W16	3.62	2.07	2	2.067	3.625
25W18	5.00	3.07	3	3.068	5
25W19	6.00	4.00	4	4.026	6.1875

This information is accurate to the best of the manufacturer's knowledge, however, we reserve the right to change product specifications at any time. Please contact your sales representative for specific order inquiries.

