

Flat Glass Gauges – Medium Pressure

LIQUID LEVEL GAUGES



Model 480

These gauges are designed for the most common process conditions and can be used for Steam/Water applications. (See Page 39).

High pressure gauges are available in Model 481 Reflex and Model 491 Transparent. Illuminators and Frost Proof Extensions are also available.

Model 480 Reflex - has a single vision slot on one side of the chamber in which light can enter to determine liquid level. Above the liquid level, glass prisms reflect the surrounding light giving typically a silvery appearance. Below the level, the liquid fills the prisms causing the glass to become relatively transparent giving a typically dark appearance.

Model 490 Transparent - has a vision slot on both sides of the chamber allowing light to enter the gauge opposite the observer so that the level or the liquid and its characteristics can be seen.

Features

- ◆ Armored Design
- ◆ Reflex & Transparent Design
- ◆ Maximum Protection
- ◆ Conforms to AISI / ASTM Specs
- ◆ Up to 12 Feet Long
- ◆ 10 Section Maximum
- ◆ 1/2"NPT Female Ends (std)

Ratings

- ◆ Pressures up to 3000 PSIG
- ◆ Temperatures up to 800°F

Materials

- ◆ Chamber: Carbon Steel
316LSS (Opt.)
- ◆ Covers: Carbon Steel
- ◆ Glass: Tempered Borosilicate
- ◆ Gaskets/Cushions: Grafoil GHP (std)

For Notes about Corrosion: (See Page 33)

Pressure/Temperature Ratings are for Non-Steam Service

Model	Temp	Pressure Range for Glass Sizes in PSIG with Std. Gaskets								
		1	2	3	4	5	6	7	8	9
480	100°F	3000	2910	2820	2725	2630	2535	2440	2345	2250
480	600°F	2220	2150	2080	2040	1950	1875	1805	1740	1660
490	100°F	2500	2315	2130	1940	1750	1565	1375	1190	1000
490	600°F	1850	1720	1575	1435	1295	1160	1015	880	740

Temperatures up to 800°F with Aluminosilicate Glass.

For Valve Selection, See Page 36.

For End Connected Gauges Only

Models		Glass Size	Overall Length	Length Of Visible Glass	Minimum Centers if using the following Valve				Number of Sections
Reflex	Trans-parent				Rigid Gauge		Union Gauge		
					450 460	498	450 460	498	
480R11	490T11	1	5-1/4	3-3/4	8-1/8	9-7/8	11-1/8	11-7/8	1
480R12	490T12	2	6-1/4	4-3/4	9-1/8	10-7/8	12-1/8	12-7/8	
480R13	490T13	3	7-1/4	5-3/4	10-1/8	11-7/8	13-1/8	13-7/8	
480R14	490T14	4	8-1/4	6-3/4	11-1/8	12-7/8	14-1/8	14-7/8	
480R15	490T15	5	9-3/8	7-7/8	12-1/4	14	15-1/4	16	
480R16	490T16	6	10-5/8	9-1/8	13-1/2	15-1/4	16-1/2	17-1/4	
480R17	490T17	7	11-3/4	10-1/4	14-5/8	16-3/8	17-5/8	18-3/8	
480R18	490T18	8	13-3/8	11-7/8	16-1/4	18	19-1/4	20	
480R19	490T19	9	14-1/8	12-5/8	17	18-3/4	20	20-3/4	
480R24	490T24	4	16-1/2	15	19-3/8	21-1/8	22-3/8	23-1/8	2
480R25	490T25	5	18-3/4	17-1/4	21-5/8	23-3/8	24-5/8	25-3/8	
480R26	490T26	6	21-1/4	19-3/4	24-1/8	25-7/8	27-1/8	25-7/8	
480R27	490T27	7	23-1/2	22	26-3/8	28-1/8	29-3/8	30-1/8	
480R28	490T28	8	26-3/4	25-1/4	29-5/8	31-3/8	32-5/8	33-3/8	
480R29	490T29	9	28-1/4	26-3/4	31-1/8	32-7/8	34-1/8	34-7/8	
480R36	490T36	6	31-7/8	30-3/8	34-3/4	36-1/2	37-3/4	38-1/2	
480R37	490T37	7	35-1/4	33-3/4	38-1/8	39-7/8	41-1/8	41-7/8	
480R38	490T38	8	40-1/8	38-5/8	43	44-3/4	46-1/8	46-3/4	
480R39	490T39	9	42-3/8	40-7/8	45-1/4	47	48-1/4	49	
480R47	490T47	7	47	45-1/2	49-7/8	51-5/8	52-7/8	53-5/8	4
480R48	490T48	8	53-1/2	52	56-3/8	58-1/8	59-3/8	60-1/8	
480R49	490T49	9	56-1/2	55	59-3/8	61-1/8	62-3/8	63-1/8	

For Gauges of 5 to 10 Sections consult Sales Office



Model 490