

LP-10x Series
LOW PRESSURE COMBO's

Consist of a kit containing valve set
& one glass tube

Kit may include accessories such as
Hail Guard & clamps; angle iron
support for rigidity on lengths over 6';
ball valves at vent & drain locations;
colored ball designed to float on water,
oil, or interface

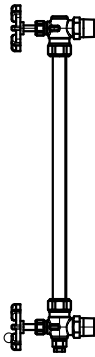
Choice of Glass type, see below

Recommendation: choose LP-101
(SS only) or LP-103 patented "Free
Turn" (CS or SS) for saltwater
and/or sour service

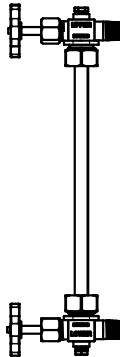
Straight Pattern

Offset Pattern

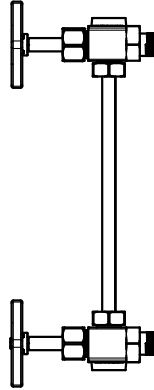
LP-100



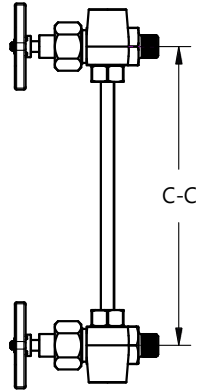
LP-101



LP-102



LP-103



Valve Model
Material

20-250-03

Brass
1/2"

12T

CS or SS
1/2"

15T

CS
3/4"

FT-TUB

CS or SS
3/4"

Process Connection, NPT

5/8" O.D. Glass Tube: Type Wall / I.D. Stocked Lengths (in)	Max. Tube Length (in)	Maximum C-C (in)			
		LP-100	LP-101	LP-102	LP-103
Plain, 3/32" wall, 7/16" I.D. 12, 18, 24, 36, 48, 60, 72, 84	144	145.25 73.25 max recommended	146 74 max recommended	145.625 73.625 max recommended	146 74 max recommended
Redline, 3/32" wall, 7/16" I.D. 12, 18, 24, 36, 48, 60, 72	72	73.25	74	73.625	74
Plain Extra Heavy, 3/16" wall, 1/4" I.D. 12, 18, 24, 30, 36, 48	48	49.25	50	49.625	50
Redline Extra Heavy, 3/16" wall, 1/4" I.D. 36, 48	48	49.25	50	49.625	50

Pressure Rating (PSI @ 150°F, No Corrosion)

Glass manufacturers publish pressure ratings for lengths up to 72", at 150°F. They also provide ratings for lengths up to 24", at 425°F (including steam boiler). Lengths over 24" are "Not Recommended" for high tempaure.

Glass Tube	Glass Tube Length (in)						
	24	36	48	60	72	84	96
Plain 3/32" wall - 7/16" I.D.	260	200	160	150	100	Not Rated	
Redline 3/32" wall - 7/16" I.D.	265	205	165	125	90	Not Available	
Plain Heavy 3/16" wall - 1/4" I.D.	580	500	340	Not Available			
Redline Heavy 3/16" wall - 1/4" I.D.	580	500	340				

Ratings decrease with length to avoid "slender column" buckling. Buckling occurs on longer lengths as a result of hydraulic force (caused by fluid pressure) applied at each end of tube in opposite directions.

When designing locations for tank nozzles we recommend you take into account that glass is stocked in 12" increments. Example, for LP-101 choose 26", 38", 50" etc vessel centers to take advantage of stock glass lengths... for less expensive & quicker glass replacement in the field.

* Offset Pattern valves (15T & FT-TUB) permit "straight through" access for cleaning brush while valve is in closed position, and glass is isolated from vessel and vented to atomosphere. Model 12T straight pattern valve can only be swabbed in open position

* Vent & Drain Connections:
15T & FT-TUB: 1/2" NPT, open, not plugged
12T: 1/4" NPT, plugged
20-250: no vent conn. in upper valve, bleed fitting in lower valve

[Glass Tube Pressure Rating](#)



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5/8" O.D. Bare Glass Tube:
Length & Pressure Limitations
LP-100 thru LP-103

Drawing No: A262921

Drawing Date: 6/9/2026

Drawn by: TB

Approved by: AO

Apprvd Date: 6/9/2026

Revision: B

Rev Date: 6/20/2026

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