JERGUSON®
A Division Of The Clark-Reliance Corporation

Specialists In Liquid Level Indication

WELDING PAD LIQUID LEVELGAGES

Series W20 & W300L

Section: J100
Bulletin: J100.15
Date: 1/1/99
Supercedes: WP

Flat glass liquid level gages designed to become an integral part of the vessel

Jerguson Welding Pad Gages are used where conventional gage and valve construction is impractical because of (1) solid matter in suspension, (2) under conditions where the thermal error caused by piping to a gage glass cannot be tolerated, or (3) where space requirements suggest their use.

Jerguson Welding Pad Gages are made in both Reflex and Transparent types… in most Jerguson standard sizes. Reflex gages are used where liquid level reading only is required. Transparent gages are usually used where installation is made on each side of the vessel to give see-through visibility.

TYPE RW STANDARD

TYPE RIW ISOLABLE

STANDARD WELDING PAD GAGES

Design and Installation: Standard Jerguson welding pad gages follow other Jerguson flat glass gages in general design and materials, except for the method of attaching to the tank or vessel. The chamber of the welding pad gage consists of a bar stock pad, which is welded to the tank after cutting a slot in the tank wall equal in dimension to the vision slot of the gage. Alternately, for maximum vessel strength without further reinforcement, two holes may be drilled in the tank wall with diameters equal to the width of the vision slot of the gage located at the top and the bottom of the visible range. For best results the tank wall behind a reflex gage should provide a dark background. The holes, in lieu of the slot method, can be used with the transparent type gage if there is sufficient visual contrast between the tank and the liquid to permit liquid level or interface observation.

Pressure Loads: Where it is necessary to slot the tank because of the nature of the liquid or there is need to observe the color or interface of the liquid, the following facts must be considered:

Standard welding pad gages will withstand loadings due to the pressure within the gage itself, but they are not designed to replace the tank strength lost when the tank wall is cut. The gage manufacturer has no control over the loading which the pressure vessel will impose on the pad. It is therefore impossible to rate welding pad gages. The tank fabricator must provide suitable tank wall reinforcement to prevent the pad from being distorted during welding or while under operating conditions.

Materials and Construction: Jerguson Welding Pad Gages are engineered and built to Jerguson's high standards, using materials found by test to be the best for the particular application. The welding pad may be made of any material desired to withstand corrosive or other conditions.

To prevent distortion during welding, welding pad gages may be furnished with a cold rolled steel spacer to replace glass and gaskets.

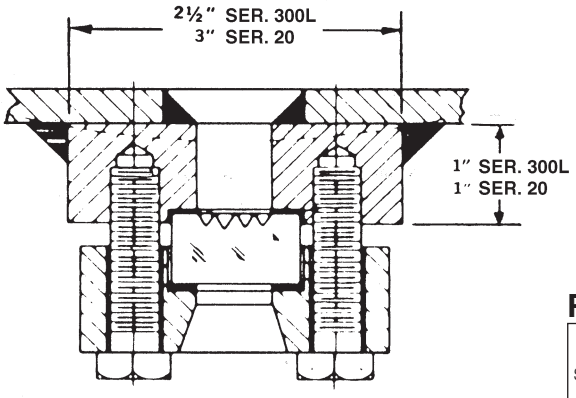
ISOLABLE WELDING PAD GAGES

Jerguson Isolable Welding Pad Gages with integral valves follow the general design of standard Jerguson welding pad gages but offer the additional advantages of integral valves.

Because the gage can be isolated from the vessel by the valves, gaskets or glass can be replaced without lowering the level of liquid below the gage inlet or relieving pressure from the vessel.

Isolable gages are installed by matching the valve inlets with holes drilled in the vessel and making a 100% fillet weld between the vessel wall and the valve inlets. The gage chamber is tack welded to the vessel.

SERIES WP WELDING PAD LIQUID LEVEL GAGES



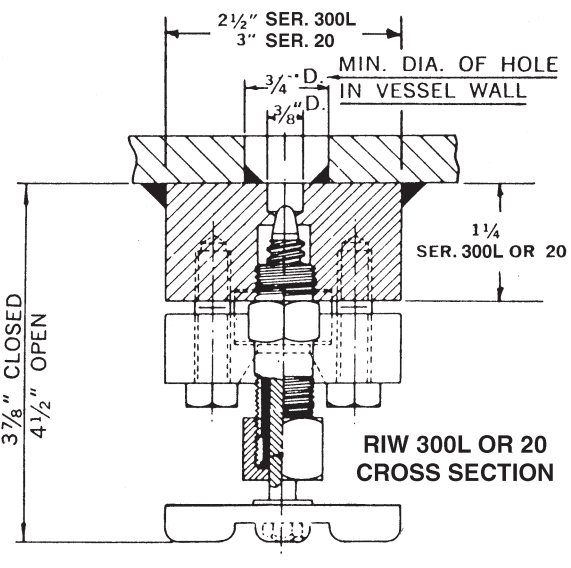
RW 300L or 20 Cross Section

RW-300L OR TW-300L

Size No.	No.of Bolts /Sect.	Visible Glass In Inches	Number of Sections — Dimension A In Inches			
			1	2	3	4
15	18	14¼	16⅛	32¼	48¼	64⅜
18	22	17¼	19⅛	38¼	57¼	76⅜
20	24	19¼	21⅛	42¼	63¼	84⅜

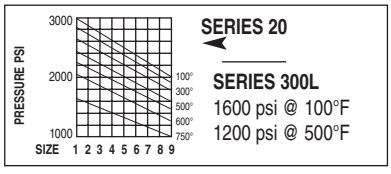
RW-20 OR TW-20

Size No.	Cap Screws /Sect.	Visible Glass	Number of Sections — Overall Length In Inches			
			1	2	3	4
1	6	3¾	5¼	10½	15¾	21
2	6	4¾	6¼	12½	18¾	25
3	8	5¾	7¼	14½	21¾	29
4	10	6¾	8¼	16½	24¾	33
5	10	7⅞	9⅜	18¾	28⅛	37½
6	12	9⅛	10⅝	21¼	31⅞	42½
7	14	10¼	11¾	23½	35¼	47
8	16	11⅞	13⅜	26¾	40⅛	53½
9	16	12⅝	14⅛	28¼	42⅜	56½



RIW 300L OR 20 CROSS SECTION

ISOLABLE WELDING PAD GAGES



RIW-300L OR TIW-300L

Size No.	No.of Bolts /Sect.	Visible Glass In Inches	Number of Sections — Overall Length In Inches			
			1	2	3	4
15	18	14¼	19⅝	35¾	51¾	67⅞
18	22	17¼	22⅝	41¾	60¾	79⅞
20	24	19¼	24⅝	45¾	66¾	87⅞

RIW-20 OR TIW-20

Size No.	Cap Screws /Sect.	Visible Glass	Number of Sections — Overall Length In Inches								
			1	2	3	4	5	6	7	8	9
1	6	3¾	8¾	14	19¼	24½	29¾	35	40¼	45½	50¾
2	6	4¾	9¾	16	22¼	28½	34¾	41	47¼	53½	59¾
3	8	5¾	10¾	18	25¼	32½	39¾	47	54¼	61½	68¾
4	10	6¾	11¾	20	28¼	36½	44¾	53	61¼	69½	77¾
5	10	7⅞	12⅞	22¼	31⅝	41	50⅜	59¾	69⅛	78½	87⅞
6	12	9⅛	14⅛	24¾	35⅜	46	56⅝	67¼	77⅞	88½	99⅛
7	14	10¼	15¼	27	38¾	50½	62¼	74	85¾	97½	109¼
8	16	11⅞	16⅞	30¼	43⅝	57	70⅜	83¾	97⅛	110½	123⅞
9	18	12⅝	17⅞	31¾	45⅞	60	74⅛	88¼	102⅝	116½	130⅝

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