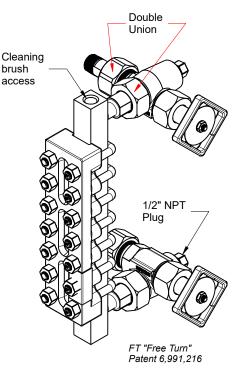
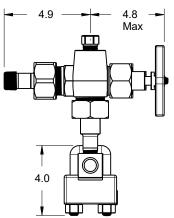


For cleaning purposes minimum bore thru LG is .59" Ø







Close Hook-Up "CH" Style LG

- Close Hook-up design insures the longest possible glass length for a given vessel C-C
- LG chamber elongated to accomodate lateral ports
- Gage valves can be set closer together than a standard end connected gage, within 3/8" of the visible glass dimension, see Table
- Permits use of spherical unions

cause the vessel unions to be out of square. The two point strain of the connector and the "connecting nipples" will result

- 1.7x stronger in bending than regular Flat Floating Union vessel connector.... more suitable for long and heavy gages

M991980, MOC

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Hillside

Drawing Date: 2/20/2020

Revision: 0

Angular misalignment often

seen on horizontal vessels

and field constructed piping

spherical unions - as shown

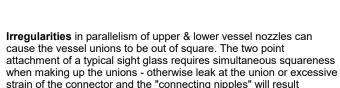
Corrected with use of

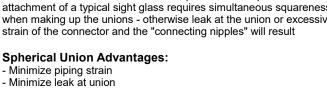
Rev Date: N/A

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Drawing No: GA.RD5-4-R

Sheet: 1/4





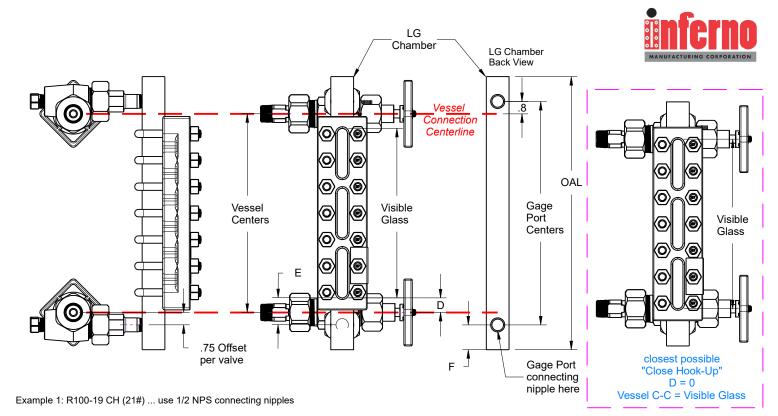
Reference Documents: EN.RT-D5, Eng. Notes

Reflex Style: R100 / R200 Level Gage, Back Connected Gage Valves, Double Union: FT25 Assembly Orientation: Fig. 5-4-R Offsets Inside

General Arrangement Drawing

Level Gage & Gage Valve Combo

All dimensions in Inches



Case A, Typical arrangement: mounted on 14" vessel centers ... D = (14 - 12.625 vis. glass) / 2 = .687"

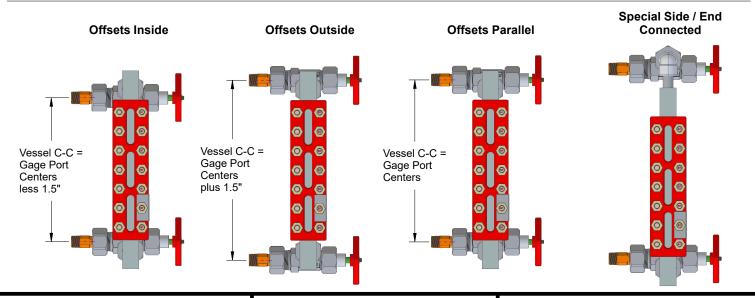
Case B, Factory minimum - Catalog standard: design vessel nozzles at 12.625" C-C, to match the visible glass length ... D=0

Example 2: R100-89 CH (163#) ... use 3/4 NPS connecting nipples

Case A, Typical arrangement: mounted on 114" vessel centers ... D = (114 - 111.5 vis. glass) / 2 = 1.25"

Case B, Factory minimum - Catalog standard: design vessel nozzles at 111.875" C-C (111.5 +.375), to "match" the visible glass length ... D = .187"

Table - Ref. Fig. 5-4						
Gage Port NPS	Minimum Vessel C-C Equals	D = distance from lower glass view to lower vessel C/L	Min. D	Min. Gage Port C-C	E = distance from lower glass view to lower gage port	F
1/2	Visible Glass	(Vessel C-C minus Visible Glass / 2)or specify asymmetry if required	0	Visible Glass + 1.5"	Min. .75"	1.5"
3/4	Visible Glass + .375"		.187"	Visible Glass + 1.875"	Min. 1.062"	2"



General Arrangement Drawing Level Gage & Gage Valve Combo

Reflex Style: R100 / R200 Level Gage, Back Connected Gage Valves, Double Union: FT25 Assembly Orientation: Fig. 5-4-R Offsets Inside

All dimensions in Inches

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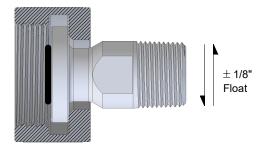
Choice of Vessel Union Connector

3/8" inside diameter flow path



FLAT / FLOATING UNION

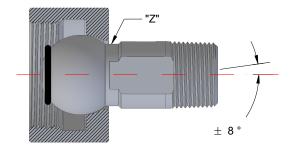
Linear Adjustment



Permits up to 1/4" on vessel centers (pair)

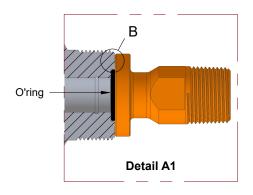
SPHERICAL UNION

Angular Adjustment

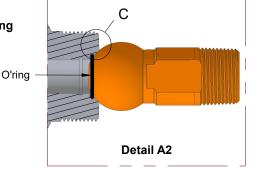


Larger section modulus "Z" than FLAT floating union connector, 1.7x stronger in bending

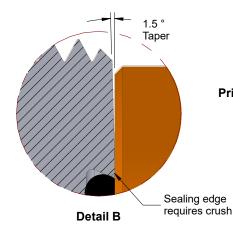
Recommended for angular misalignment due to non-jig set construction, vibration service, & long / heavy gages



Soft Seal: Static O'ring Standard feature

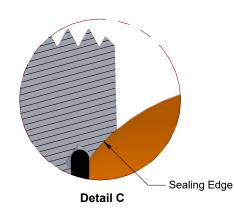


Union Nut omitted for clarity



Primary Seal: Metal to Metal

O'ring not required



General Arrangement Drawing Level Gage & Gage Valve Combo

Reflex Style: R100 / R200 Level Gage, Back Connected Gage Valves, Double Union: FT25 Assembly Orientation: Fig. 5-4-R Offsets Inside

All dimensions in Inches

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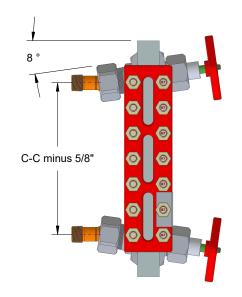
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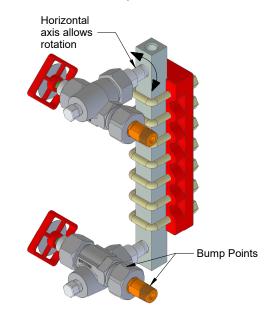
Sheet: 3/4

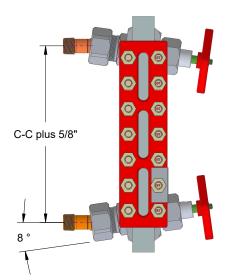
Center to Center Adjustment using Spherical Unions



Vessel connectors remain parallel after rotation

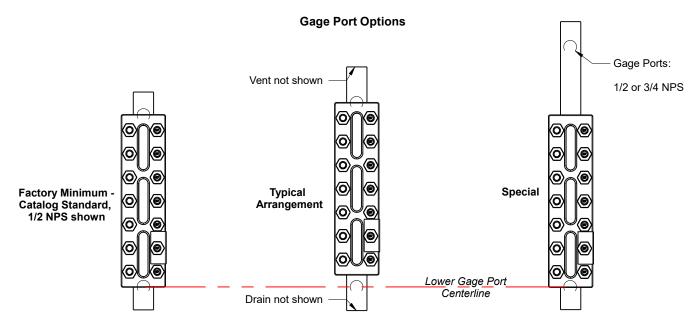






If required, use a soft hammer to "bump" the spherical union vessel connector into "rotated" position.

Note: the horizontal connecting axis between LG and GV permits use of spherical union, which will overcome both angular AND vessel C-C misalignment at the same time.



Minimum Gage Port C-C

Design vessel C-C distance using Table 1... where Vessel C-C = Visible Glass (1/2 NPS), or Vessel C-C = Visible Glass + .375" (3/4 NPS)

Extended Gage Port C-C

Factory customized to match vessel centers

Asymmetrical Gage Port C-C

General Arrangement Drawing Level Gage & Gage Valve Combo

Reflex Style: R100 / R200 Level Gage, Back Connected Gage Valves, Double Union: FT25 Assembly Orientation: Fig. 5-4-R Offsets Inside

All dimensions in Inches

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