

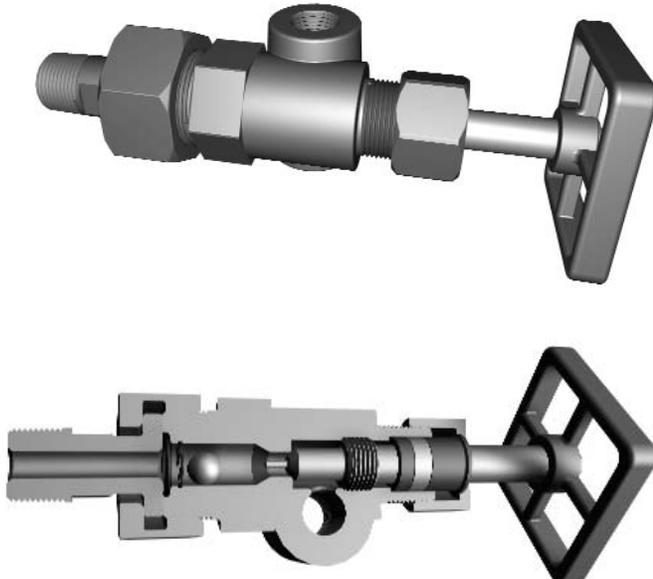
MODEL 15A

SIGHT GLASS GAGE VALVE

valves for
flat glass
gages

Bulletin 15A
Issued 3/07
Replaces 10/04

3000 PSIG @ 100°F



STANDARD INFERNO BENEFITS

- Secondary Seal— O-Ring in union overcomes effects of minor piping misalignment
- Hex area of valve body allows space for back-up wrench when making up union— more secure grip for wrench—tighter and safer installation
- “Floating Union” vessel connectors allow $\pm 1/4$ ” center-to-center adjustment— **more “float” than any other brand**
- Name plate includes instructions for correct operation of safety ball checks
- Corrosion resistant SS trim (ball check, packing washer, stem)
- TFE Stem Packing standard—low friction turning

OFFSET PATTERN INTEGRAL BONNET INTEGRAL SEAT		OPTIONAL
		STANDARD
VESSEL CONNECTION		
Union	3/8" NPTM	X
	1/2" NPTM	X
	3/4" NPTM	X
	1" NPTM (Non-Float)	X
Spherical Union	1/2" NPTM	X
	3/4" NPTM	X
	1" NPTM	X
Socket Weld	1/2" S/W Male	X
	3/4" S/W Male	X
	1" S/W Male (Non-Float)	X
Solid Shank	1/2" NPTM	X
	3/4" NPTM	X
	1" NPTM	X
Flanged		X
UNION VESSEL SEAL		
	Viton™	X
	Buna (Nitrile)	X
	Aflas™ (to 400°F Steam)	X
	Hi-Temp (to 525°F Steam)	X
	TFE	X
	Omitted	X
GAGE CONNECTION		
Rigid	1/2" NPTF	X
	3/4" NPTF	X
Socket Weld	1/2" S/W F	X
	3/4" S/W F	X
Flanged		X
VENT / DRAIN CONNECTION		
Rigid	1/2" NPTF	X
	3/4" NPTF	X
STEM PACKING		
	TFE (up to 500°F)	X
	GRAFOIL™	X
TRIM		
	T410 SS	X
	T316 SS	X
BALL CHECK SHUT-OFF		
	Horizontal Lower & Upper	X
	Omitted (acceptable for ASME service)	X
	Vacuum-Horizontal Lower & Upper	X
	Handwheel with Standard Pitch Thread	X
	Lever with Quick Closing Thread	X
SEAT DIAMETER		
	3/8" Ø	X
	1/2" Ø	X

PRESSURE/TEMPERATURE RANGES

	-300°F	-50°F	-20°F	100°F	200°F	300°F	400°F	500°F	600°F	750°F
	-184°C	-46°C	-29°C	38°C	93°C	149°C	204°C	260°C	316°C	399°C
Forged Steel			3000	3000	2925	2850	2800	2625	2350	1950
Heat Treated Steel		3000	3000	3000	2925	2850	2800	2625	2350	1950
Stainless Steel	3000	3000	3000	3000	2925	2850	2800	2625	2350	1950

Maximum working pressure, PSI

Grafoil Packing Req'd

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INFERNO

MANUFACTURING CORPORATION

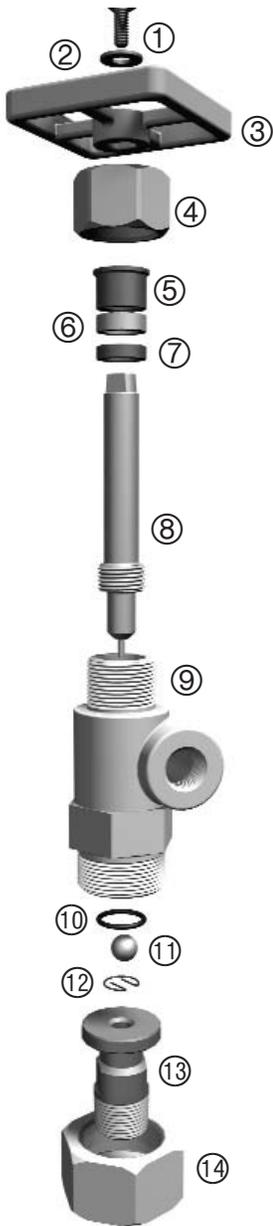
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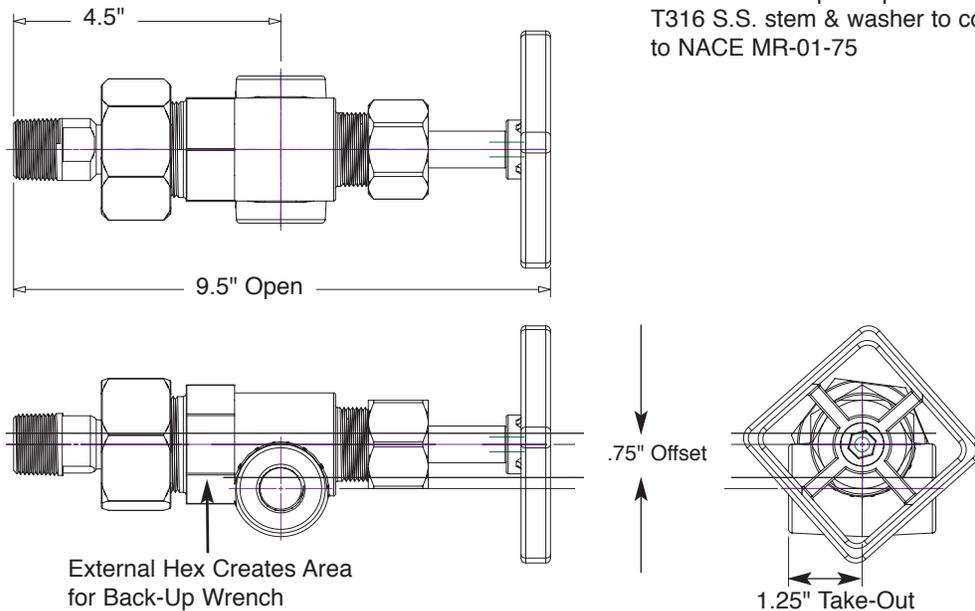
MODEL 15A PARTS LIST

WEIGHT: 11.1 lbs (5.0 kg) per set



ITEM	DESCRIPTION	MATERIAL—Standard	MATERIAL—Optional
1	Screw	Steel	SS
2	Washer	Steel	SS
3	Hand Wheel	Ductile Iron	
4	Packing Nut	Steel	T316 SS
5	Packing Gland	Steel	T316 SS
6	Packing	TFE	Grafoil™
7	Stem Washer	T410 SS (CR13)	T316 SS
8	Stem	T410 SS (CR13)	T316 SS
9	Body	Forged Steel, A-105	T316 SS
10	O-Ring, Size 2-116	Viton™	various
11	Ball	T304 SS	T316 SS
12	Snap Ring	SS	T316 SS
13	Floating Shank	Forged Steel, A-105	T316 SS
14	Union Nut	Forged Steel	T316 SS

Steel valves require optional T304 or T316 S.S. stem & washer to conform to NACE MR-01-75



STANDARD

O-RING SEAL



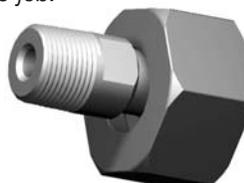
Union Nut omitted for clarity

Unique Design— Secondary O-Ring Seal Improves Sealing
No more paper gaskets! **Replacement Ring size: Parker 2-116**

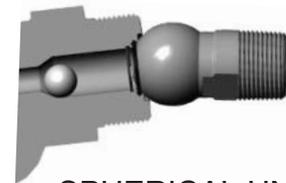
Conventional metal to metal union without O-Ring or gasket is designed with one flat face and one beveled face. Tightening the nut causes the two surfaces to c-r-u-s-h together. However when misalignment is present, too much work is diverted into bending the various piping elements and not enough force is available to crush the two faces together. Without an additional seal a leaky joint can result. A bevel & flat face geometry is still used in the Inferno union but now an O-Ring is present to finish the job.

FLOATING SHANK

Vessel Connector “floats” off center by 1/8” in all directions. Combined float in upper and lower valves allows for up to ±1/4” variation in vessel centers.



OPTIONAL



SPHERICAL UNION

Provides ± 8° movement to compensate for angular misalignment. Also provides for center-to-center variation when used with elbow fittings—or when used with a “close hook-up” gage. Matching spherical surfaces can be made up repeatedly w/o leakage.