

MODEL FT15

SIGHT GLASS GAGE VALVE

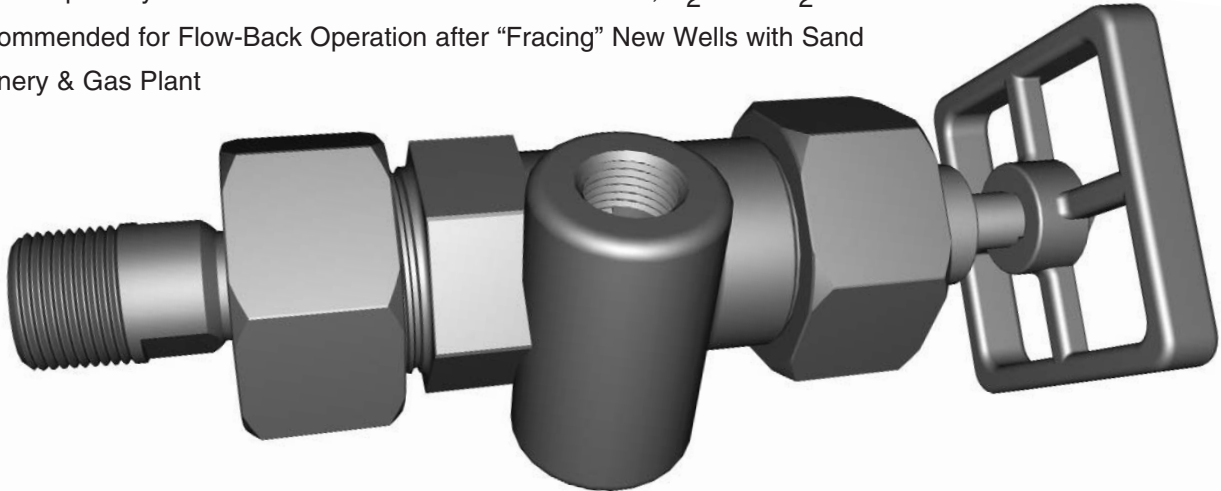
**“FREE TURN”
valves for
flat glass
gages**

Bulletin FT15
Issued 6/10
Replaces 1/06

NO-FREEZE VALVES

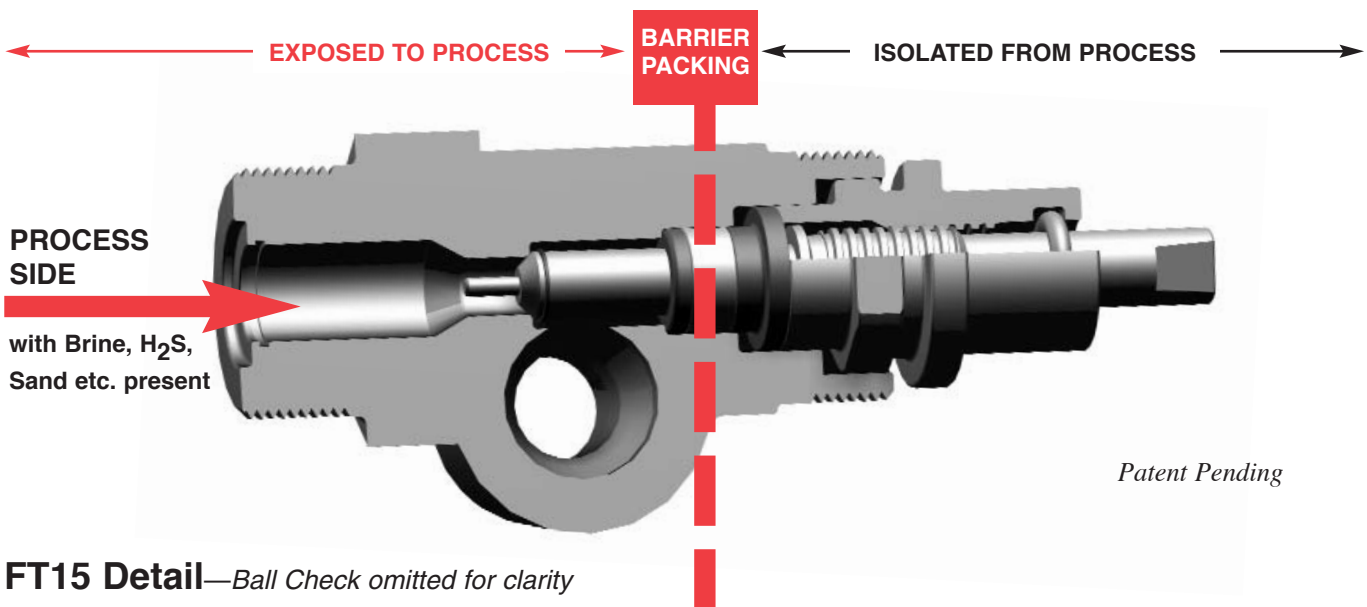
4000 PSIG @ 100°F
NACE MR-01-75 conformance

- Oil & Gas Separators
- Compressor Scrubbers
- Especially Suited for Natural Gas Service with Brine, H₂S or CO₂
- Recommended for Flow-Back Operation after “Fracing” New Wells with Sand
- Refinery & Gas Plant



EXCLUSIVE DESIGN... ISOLATED WORKING THREADS

- **Sealed Workings**—Not vulnerable to process corrosion
- **Cost Savings**— “FT” valves stay operable—no need to add double block valves
- **Clean & Readable Sight Glasses**— Operable gage valves permit sight glass to be isolated from vessel & accessed for cleaning
- **Safer Operation**—Large wrench not needed to break loose a frozen valve stem operating under high pressure.
- **Environmental Advantage**— Operator is assured that valve stem is in correct position because the stem stays free to turn. Ball checks are designed to shut off automatically in event of glass breakage but they will not work when valve is partially open. A broken sight glass with no ball check protection can result in environmental spill.



FT15 Detail—Ball Check omitted for clarity

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MODEL FT15

OFFSET PATTERN UNION 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	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		
	T304 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
SEAT DIAMETER	3/8" Ø	X

STANDARD BENEFITS

O-Ring Seal



Union Nut omitted for clarity

O-Ring improves sealing in union when minor piping misalignment is present. No more paper gaskets!

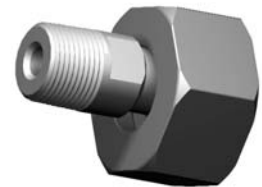
Replacement Ring size: Parker 2-116

Conventional metal to metal union is designed with one flat face and one beveled face.

Tightening the union nut causes the two halves to crush together and seal without need of a gasket. However when misalignment is present there may be inadequate compression to make a seal.

FLOATING SHANK

Vessel Connector "floats" off center by 1/8" in all directions, more than any other brand. Combined float in upper and lower valves allows for up to ±1/4" variation in vessel centers.



NAME PLATE INSTRUCTIONS

Safety ball check operation instructions provided on name plate

CORROSION RESISTANT SS TRIM

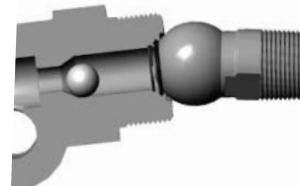
Stem, ball, packing washer & follower

TFE STEM PACKING

Low friction turning

OPTIONAL SPHERICAL UNION

Recommended when angular misalignment of fittings makes installation difficult, or causes broken tailpieces. Especially useful on compressor packages where there's a lot of **VIBRATION**.

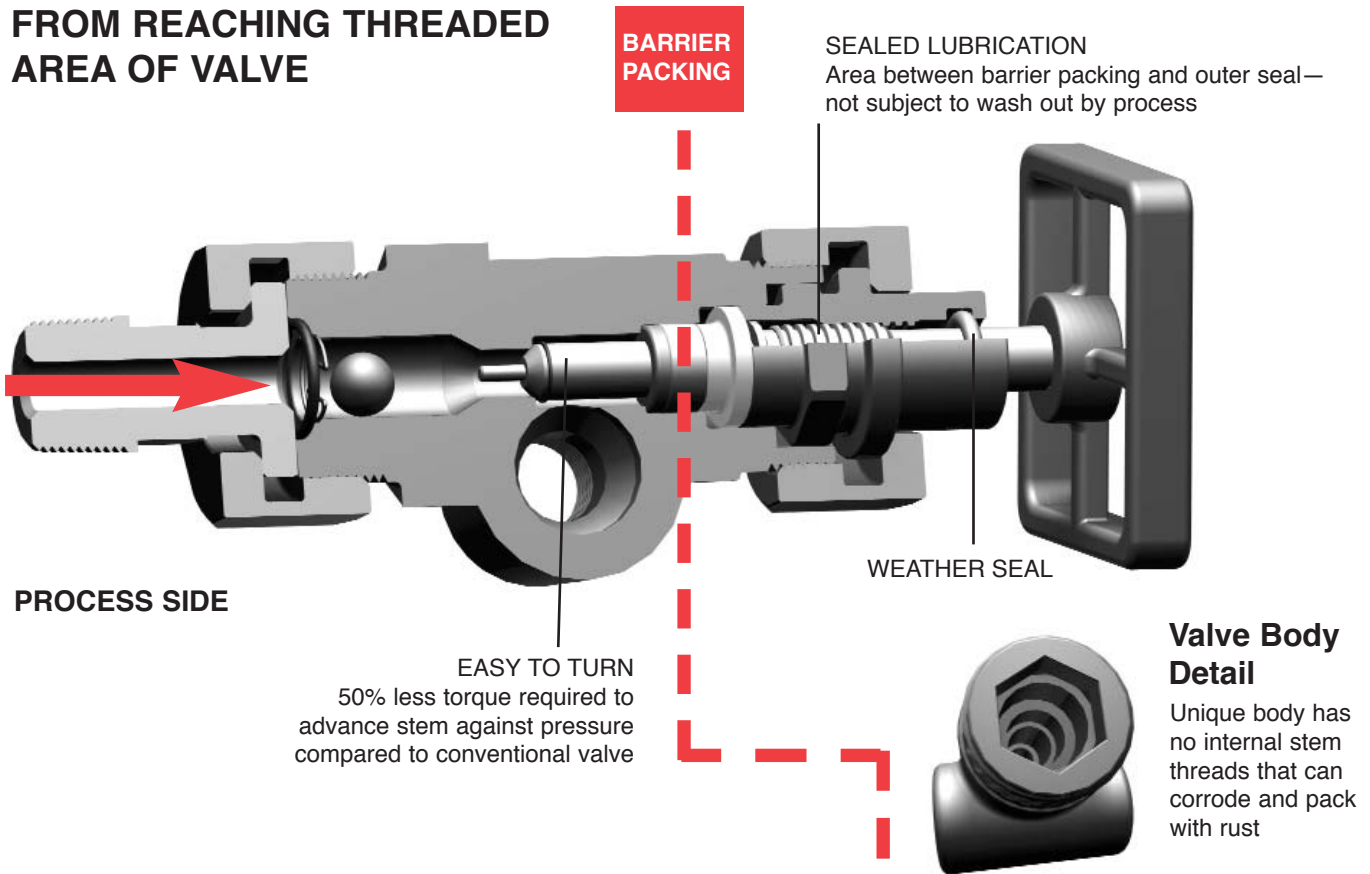


Allows +/- 8° movement and center-to-center adjustment when used with end connected gages & Tee fittings, or with "close hook up" style gages.

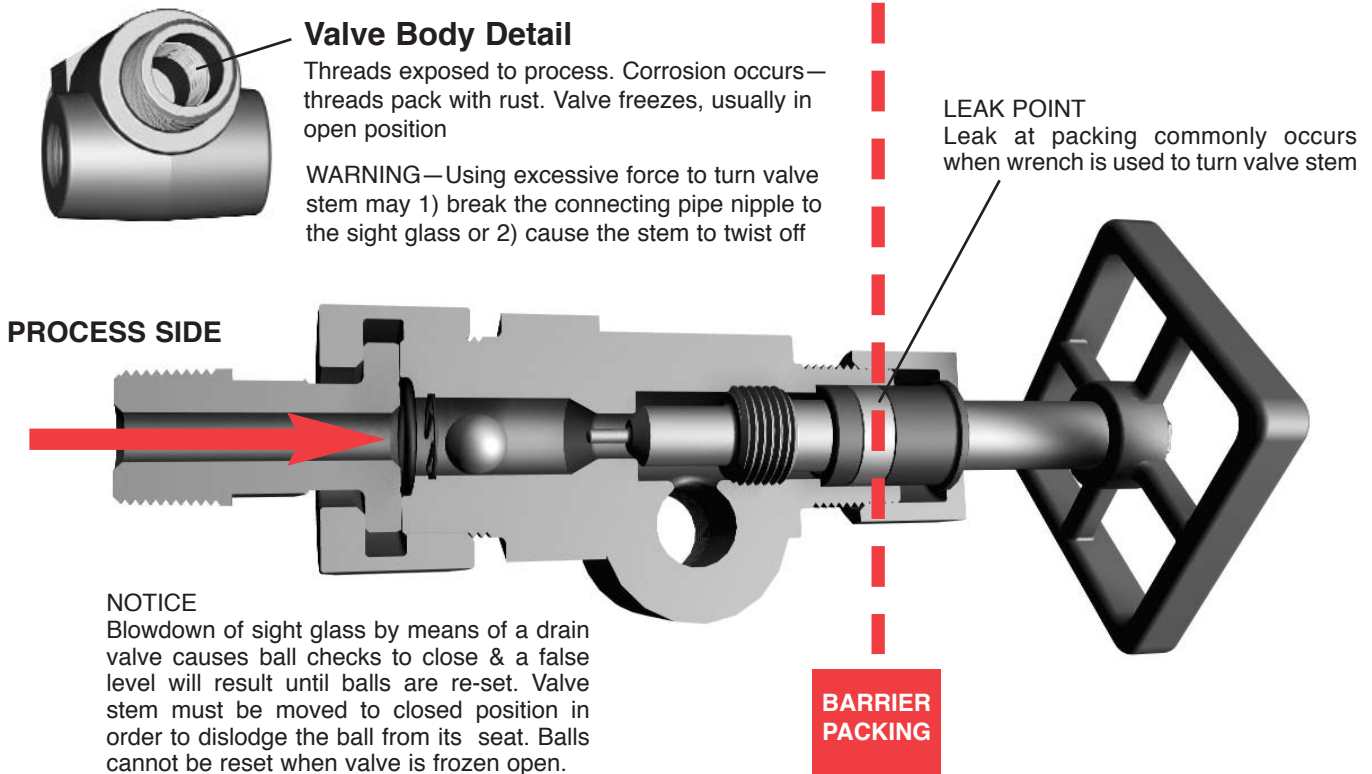
Matching spherical surfaces can be made up repeatedly w/o leakage.

NEW MODEL FT15

PACKING STOPS PROCESS FROM REACHING THREADED AREA OF VALVE

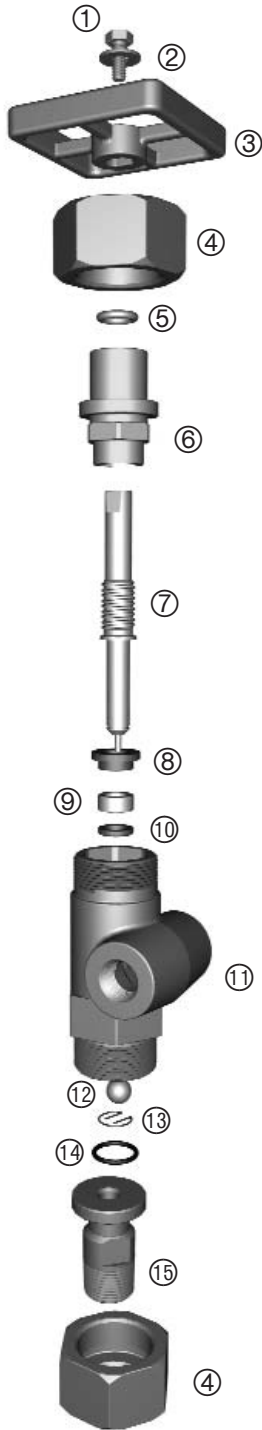


“OLD STYLE” CONVENTIONAL GAGE VALVE



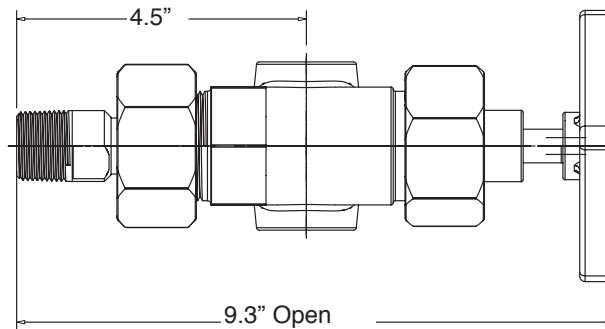
MODEL FT15 PARTS LIST

WEIGHT: 12.5 lbs (5.7 kg) per set



ITEM	DESCRIPTION	MATERIAL—Standard	MATERIAL—Optional
1	Screw	Steel	SS
2	Washer	Steel	SS
3	Hand Wheel	Ductile Iron	
4	Nut	Forged Steel	T316 SS
5	Lube & Weather Seal	TFE	
6	Packing Bonnet	T304 SS	
7	Stem	T316 SS	
8	Follower	T304 SS	
9	Packing	TFE standard	Grafoil™ optional
10	Packing Washer	T304 SS	
11	Body	Forged Steel, A-105	T316 SS
12	Ball	T304 SS	T316 SS
13	Snap Ring	SS	
14	O-Ring, Size 2-116	Viton™ standard	Various
15	Floating Shank	Forged Steel, A-105	T316 SS

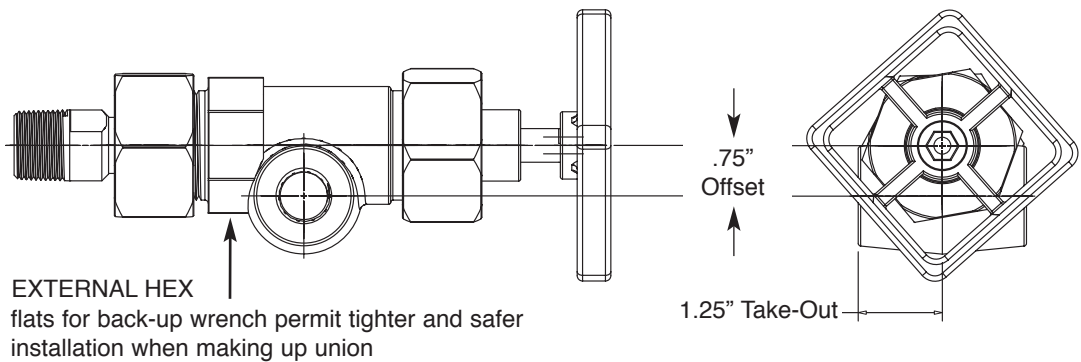
All materials conform to NACE MR-01-75



TO TIGHTEN PACKING:

When tightening packing, stem travels with bonnet towards seat. In closed position, seating contact prevents further downward movement of packing bonnet.

Valve must be at least partially open before packing nut can be tightened.



PRESSURE/TEMPERATURE RANGES

Maximum working pressure, PSI

	-300°F -184°C	-50°F -46°C	-20°F -29°C	100°F 38°C	200°F 93°C	300°F 149°C	400°F 204°C	500°F 260°C	600°F 316°C	750°F 399°C
Forged Steel			4000	4000	3900	3820	3740	3500	3150	2625
Heat Treated Steel		4000	4000	4000	3900	3820	3740	3500	3150	2625
Stainless Steel	4000	4000	4000	4000	3900	3820	3740	3500	3150	2625

Grafoil Packing Req'd
3150 2625
3150 2625
3150 2625

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