

MODEL 12T

GAGE VALVE

valves for
tubular glass

Bulletin 12T

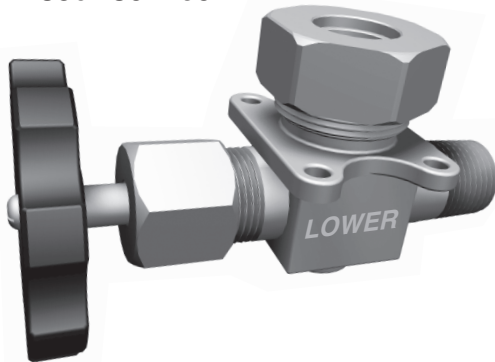
Issued 6/16

Replaces 1/06

600 PSIG @ 100°F (limited by glass)
NACE MR-01-75 Body & Trim

12T-CS... recommended for sweet service

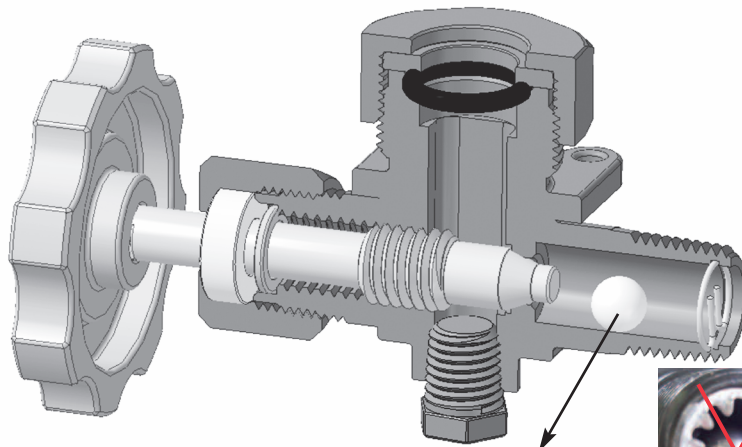
12T-SS... recommended for salt water and sour service



Superior O-ring Glass Seal—

- Readily available, Standard Parker size 2-208
Other brands use hard to find proprietary sleeve “rubbers”
- Standard Viton™ O-ring (rated to 400°F)
Other brands use EPDM (rated to 220°F) and neoprene (rated to 300°F)
- O-Ring permits lower torque on glass packing nut

STRAIGHT PATTERN INTEGRAL BONNET INTEGRAL SEAT		OPTIONAL
		STANDARD
VESSEL CONNECTION Solid Shank	1/2" NPTM	X
GAGE CONNECTION Glass Stuffingbox	5/8" Diameter	X
VENT / DRAIN CONNECTION Rigid	1/4" NPTF	X
GLASS SEAL, Size 2-208	Viton™ Aflas Kalrez™ TFE	X X X
STEM PACKING	TFE (up to 450°F) GRAFOIL™	X X
TRIM per NACE	T304 SS T316 SS	X X
BALL CHECK SHUT-OFF	Horizontal Lower & Upper Vertical rising ball check in lower valve (ASME) Omitted (acceptable for ASME service) Vacuum Service	X X X



Safety ball check provides automatic shut-off in case of glass breakage



Oilfield service frequently requires cleaning of ball cavity. Inferno snap ring type ball retainer permits easy access and easy re-installation with needle nose pliers.

Other designs using tooth lock washer require operator to re-form the margin of valve body using special tools. Imperfect re-forming is likely to result in loss of tooth lock washer and safety ball check



PRESSURE/TEMPERATURE RANGES

Maximum working pressure, PSI...pressure limited by tubular glass

	-100°F -73°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	450°F 232°C
12T-CS... Steel			600	600	600	600	600	600
12T-SS... T316	600	600	600	600	600	600	600	600
	TFE OR SPECIAL BUNA SEAL			STANDARD VITON™ GLASS SEAL				AFLAS SEAL



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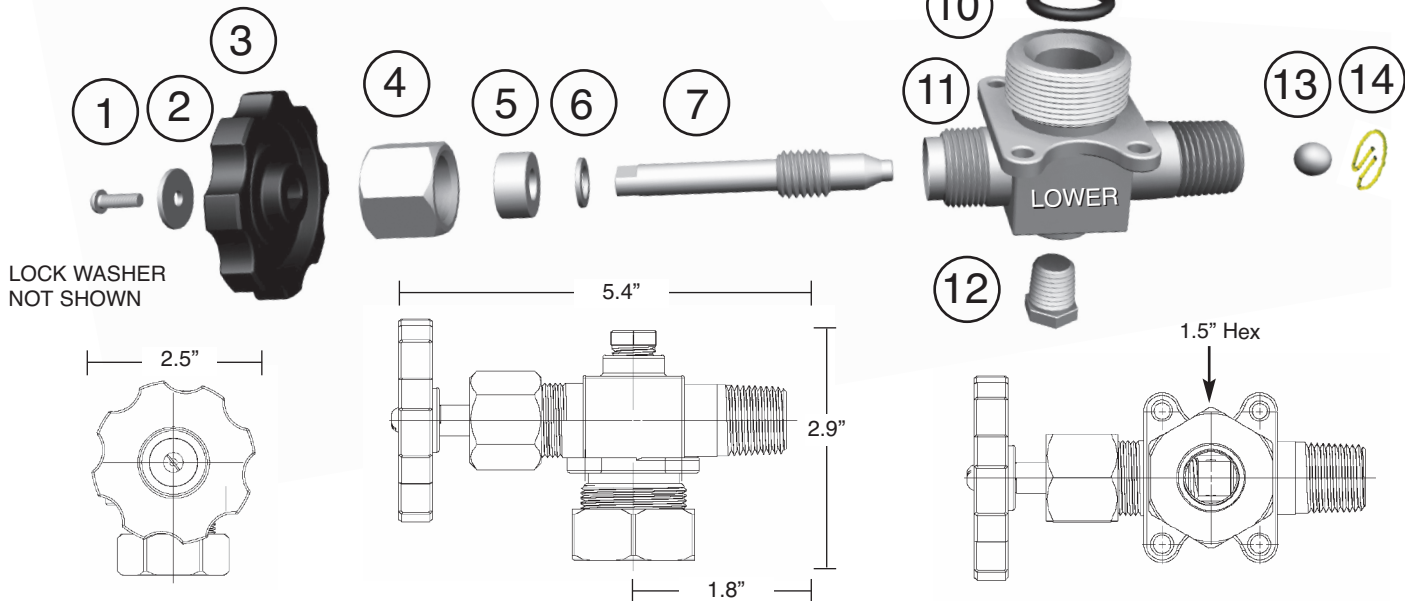
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MODEL 12T-CS OR 12T-SS PARTS LIST WEIGHT: 3.3 lbs (1.5 kg) per set

ITEM	DESCRIPTION	MATERIAL—Standard	Optional
1	Screw, #10-32	Stainless Steel	
2	Washer	Stainless Steel	
3	Hand Wheel	Aluminum: Yellow (12T-CS) or Blue (12T-SS)	
4	Packing Nut	Carbon Steel (12T-CS) or T316 SS (12T-SS)	
5	Packing	TFE	Grafoil™
6	Stem Washer*	T304 SS (12T-CS) or T316 SS (12T-SS)	
7	Stem*	T304 SS (12T-CS) or T316 SS (12T-SS)	
8	Stuffingbox Nut	Carbon Steel (12T-CS) or T316 SS (12T-SS)	
9	Washer	Carbon Steel (12T-CS) or T316 SS (12T-SS)	
10	O-Ring, 2-208	Viton™	Aflas™, TFE, Kalrez™
11	Body**	Carbon Steel (12T-CS) or T316 SS (12T-SS)	
12	Pipe Plug, 1/4" NPT	Carbon Steel (12T-CS) or T316 SS (12T-SS)	
13	Ball, 3/8"	T304 SS (12T-CS) or T316 SS (12T-SS)	
14	Snap Ring*	CRA per NACE MR0175	

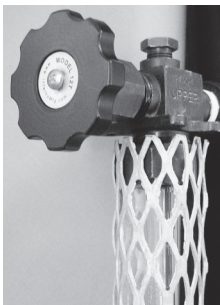
*Trim parts are annealed per mechanical requirements of NACE MR0175, Part 3
 ** Valve body cast per ASTM A-216 Gr WCB (Normalized) or A-351 Gr CF8M

Glass OAL = Valve C-C less 2"



BARE GLASS—PROTECTED WITH EXPANDED METAL OR GUARD RODS

- Expanded Metal Cage in standard 48" length-galvanized steel (welded option to 96" OAL)
- Stainless Steel hose clamps, not pictured, secure guard over compression nut for greater rigidity



Expanded Metal Guard (Cage) length: Vessel C-C less 2"

Guard Rod Length = Vessel C-C + 1/2"

WARNING: Guard rods are 3/16" Ø maximum and not recommended over 12" length



ARMORED TUBULAR GAGES

- Glass Isolated from force of compression nut
- O-Ring Sealed
- Protective Stainless Armor



MODEL TE



MODEL ATS