MODEL 12T

GAGE VALVE

valves for tubular glass

Bulletin 12T
Issued 7/16
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

STRAIGHT PATTERN INTEGRAL BONNET INTEGRAL SEAT		STANDARD	OPTIONAL
VESSEL CONNECTION Solid Shank	**1/2" NPTM**	X	
	3/4" NPTM (SS only)		X
GAGE CONNECTION Glass Stuffingbox	**5/8" Diameter**	X	
	3/4" Diameter		X
VENT / DRAIN CONNECTION Rigid	**1/4" NPTF**	X	
GLASS SEAL, Size 2-208	**Viton™**	X	
	Aflas		X
	Kalrez™		X
	TFE		X
STEM PACKING	**TFE** (up to 450°F)	X	
	GRAFOIL™		X
TRIM per NACE	**T304 SS**	X	
	T316 SS		X
BALL CHECK SHUT-OFF **Horizontal Lower & Upper**		X	
Vertical rising ball check in lower valve (ASME)			X
Omitted (acceptable for ASME service)			X
Vacuum Service			X

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

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

- "UPPER" and "LOWER" markings cast into valve bodies insure correct installation, with glass resting on ledge in lower valve. Markings permit inspector to confirm correct positioning without removing glass. *Reversing the two valves allows glass to drop down too far and disengage from seal in upper valve, causing leak.*
  Other brands lack adequate markings

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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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
** 1/2” 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 WTH 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

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