

# QUESTTEC SOLUTIONS VALVES TYPE 3A

## Premium Outside Screw & Yoke, Offset Level Gage Valves

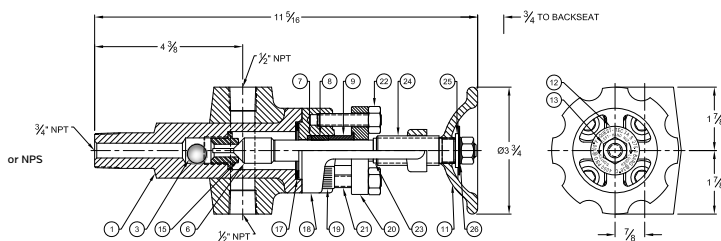
### TYPE 3A-S & 3A-U VALVES

Heavy Duty OS&Y

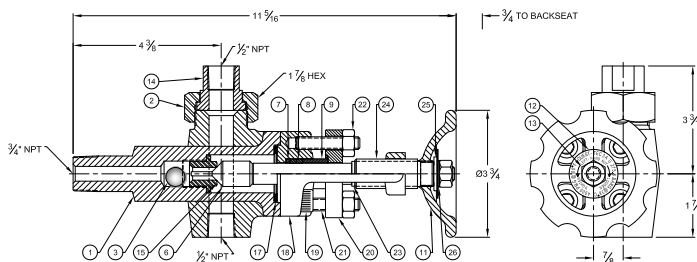
PRESSURE - TEMPERATURE RATINGS			
Temp	ASME B16.34 Class 900 Rating, SA-105, SA-350 LF2	ASME B16.34 Class 900 Rating, SA-182 F316 SS	Manufacture Rating
100° F	2220 psig	2160 psig	4000 psig
200° F	2035 psig	1860 psig	3730 psig
300° F	1965 psig	1680 psig	3470 psig
400° F	1900 psig	1540 psig	3200 psig
500° F	1810 psig	1435 psig	2950 psig
600° F	1705 psig	1355 psig	2700 psig
700° F	1590 psig	1305 psig	2430 psig

PARTS			
ITEM#	NAME	STANDARD	316 SS WETTED PARTS
		MATERIAL	MATERIAL
1	BODY	FORGED CARBON STEEL	316 SS
2	UNION NUT	CARBON STEEL	316 SS
3	BALL	440 SS	316 SS
6	STEM	416 SS	316 SS
7	PACKING WASHER	17-4 PH SS	316 SS
8	PACKING RING	TEFLON®	TEFLON®
9	PACKING FOLLOWER	316 SS	316 SS
11	HANDWHEEL	IRON	IRON
12	NAMEPLATE	304 SS	304 SS
13	HANDWHEEL NUT (LEFT HAND THREADS)	316 SS	316 SS
14	FEMALE CONNECTOR	CARBON STEEL	316 SS
15	SEAT	416 SS	316 SS
17	YOKE GASKET	304 SS/GRAPHITE	316 SS/GRAPHITE
18	YOKE	FORGED CARBON STEEL	316 SS
19	YOKE SCREW	SA-193 B7	SA-193 B7
20	PRESSURE BAR	CARBON STEEL	CARBON STEEL
21	PRESSURE BAR STUD	SA-193 B7	SA-193 B7
22	PRESSURE BAR NUT	SA-194 2H	SA-194 2H
23	INNER THRUST WASHER	17-4 PH SS	17-4 PH SS
24	HANDWHEEL SCREW	SIL BRZ	SIL BRZ
25	OUT THRUST WASHER	17-4 PH SS	17-4 PH SS
26	INTERNAL TOOTH LOCK WASHER	410 SS	410 SS

The Type 3 Valve is superseded by the Type 3A that brings forth the enhanced features of increased gasket joint rigidity, superior compression members for low emission packing and improved user serviceability. The Type 3A Valve maintains the same connection dimensions as the Type 3 and the Type 3 can be upgraded to a Type 3A by replacing the OS&Y topworks assembly.



**3A-S**



**3A-U**

(Weight per set approximately 18lbs)

### TYPE 3A VALVE OVERVIEW

Glass-Trac Type 3A Valves are the model to select for the most rigorous service. These Gage Valves have the following standard features:

- Outside Screw & Yoke - and are not exposed to the process media
- Reciprocating Stem - The stem rises and falls against the seat without rotational twisting through the packing
- Back-Seating Stem - Provides a secondary fluid seal when valve is in the full open position
- Automatic Ball Check - Prevents the escape of vessel fluid in the event of gage glass failure
- ASME B16.34 150-900 - Class compliance
- Offset Flow Path - This permits cleaning a top and bottom connected gage through the vent or drain port
- Solid Shank Vessel Connection - Male threaded NPT or socket weld or ASME B16.5 flanged

Type 3A Gage Valves are available in four basic gage connection configurations:

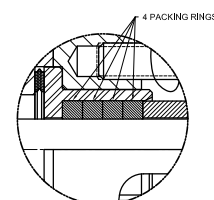
- Type 3A-S - With a rigid, 1/2" or 3/4", NPT or SW connection to the Level Gage
- Type 3A-U - With a metal-to-metal union connection to the Level Gage
- Type 3A-G - With a gasketed union connection to the Level Gage
- Type 3A-T - Tubular gage connection to the Level Gage

#### Low Emissions Valve

#### Type 3A-S-LE, 3A-U-LE, 3A-G-LE, 3A-T-LE

To combat the release of fugitive emissions into the environment, the Type 3A Valve is available with a low emissions stem packing design that has been tested and certified compliant by a 3rd party independent laboratory to the following standards:

- API Standard 622 Type Testing of Process Valve Packing for Fugitive Emissions
- API Standard 624 Type Testing Rising Stem Valves Equipped with Graphite Packing for Fugitive Emissions



Low Emissions  
Packing