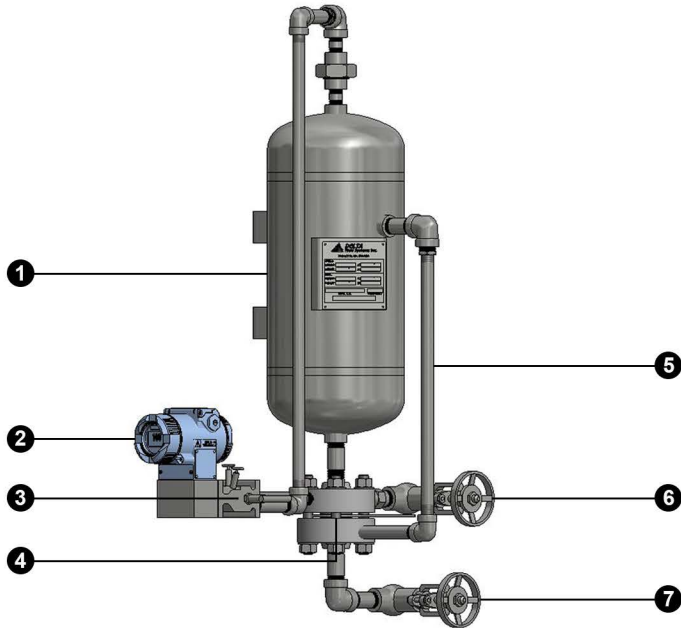
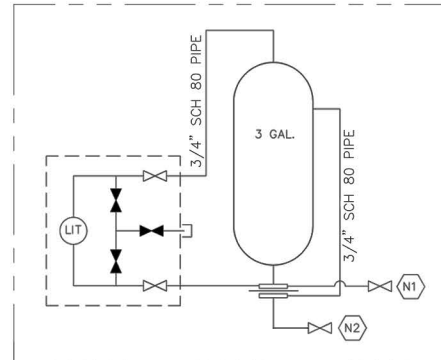


# DFS - 65A



## Model Key

- |                                  |                            |
|----------------------------------|----------------------------|
| 1 - Reservoir                    | 5 - Rigid Pipe             |
| 2 - Level Indicating Transmitter | 6 - Gate Valve (From Seal) |
| 3 - Block & Bleed                | 7 - Gate Valve (To Drain)  |
| 4 - Paddle Orifice               |                            |



## P&ID Key

- LIT - Level Indicating Transmitter
- N1 - From Seal
- N2 - To Drain
- ◊ - Gate Valve Normally Open
- ◄ - Gate Valve Normally Closed

## Description

API 682 Plan 65A is used as a seal leakage detection system for a single mechanical seal with either an outboard segmental bushing or containment seal. This system is actuated by high flowing leakage levels entering the reservoir and should only be used on condensing fluids.

When the primary inboard mechanical seal fails, high flowing leakage enters the reservoir of the Plan 65A. This will actuate a level transmitter at a desired set point. Over flow from the reservoir is diverted to the facilities drainage collection system. This system is ideal for seals which have the tendency to weep during regular operation because level actuation only occurs in high flow situations.

### Standard Design Features

- ASME Sec. VIII Div. 1, 2013
- 3 Gallon Reservoir
- Level Indicating Transmitter
- 5 Valve Block & Bleed
- 3/4" Sch. 80 Rigid Pipe
- Threaded Connections
- Class 300 OS&Y Gate Valves
- 1/4" Paddle Orifice
- Class 300 RF Orifice Flanges

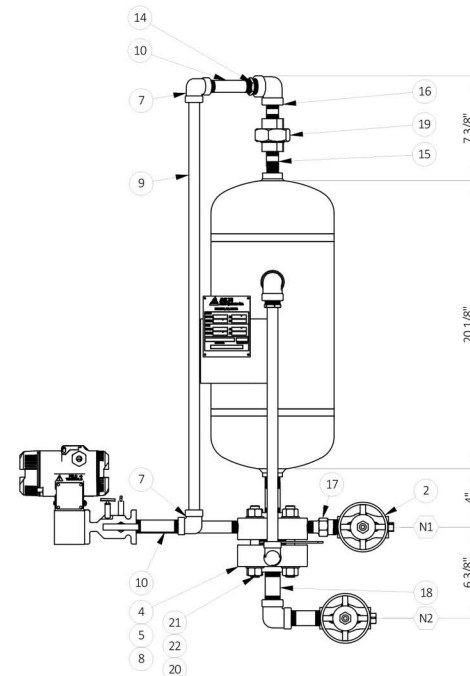
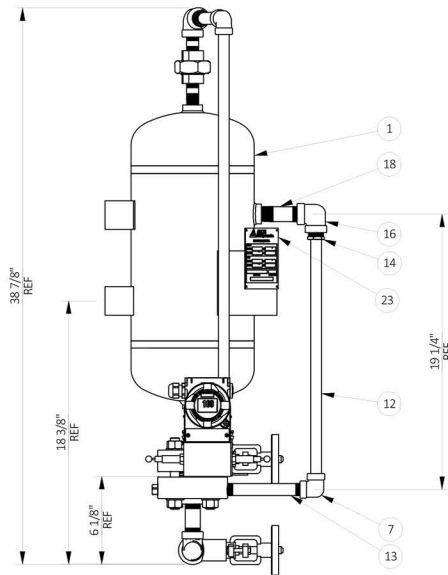
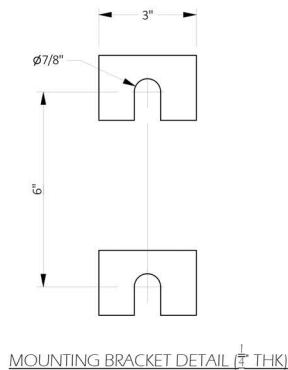
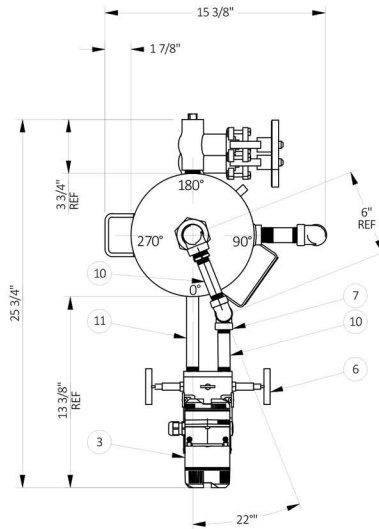
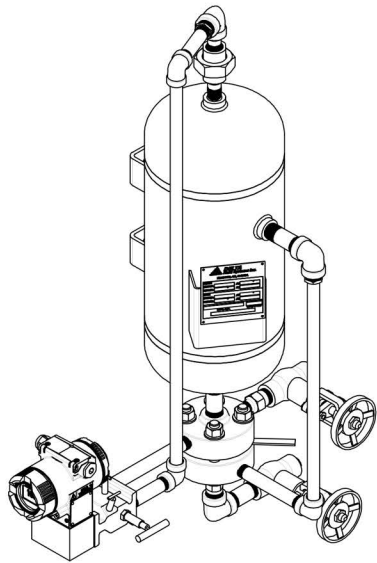
### Optional Design Features

- ASME U Stamp
- 3/4 or 2 Gallon Reservoir
- Point Level Switch
- 3/4" X .095 Wall Tubing
- Flanged Connections
- Socket Welded Connections
- System Support Stand

## Materials of Construction

Elements	Standard	Options
Reservoir	Painted Carbon Steel	316 SS / Application Specific
Fittings / Valves / Flanges	Carbon Steel	316 SS / Application Specific
Transmitters / Switches	316 Stainless Steel (Wetted)	Application Specific
Impulse Lines / Orifice Paddle	316 / 316L Stainless Steel	Application Specific

\*All materials used per ASME Section VIII Div. 1



PARTS LIST			
#	QTY	DESCRIPTION	MATERIAL
1	1	8" SCH40 SHELL ASSY	316/316L SS
2	2	GATE VALVE 3/4" NPT- CLASS 800#	316/316L SS
3	1	LEVEL INDICATING TRANSMITTER	316 SS
4	2	1" x 3/4" 300# RF S80 ORIFICE FLANGE WITH SIDE HOLE	316/316L SS
5	1	ORIFICE PLATE 0.125" THK x 1/4" BORE 3/4" 300/600#	316/316L SS
6	1	5 VALVE MANIFOLD	316/316L SS
7	3	1/2" NPT 90 ELBOW #3000	316/316L SS
8	2	1/2" MNPT SQUARE HEAD PIPE PLUG	316/316L SS
9	1	1/2" NPT PIPE 29.5" Lg SCH 80	316/316L SS
10	2	1/2" NPT PIPE NIPPLE 4" Lg SCH80	316/316L SS
11	1	1/2" PIPE NIPPLE 7" Lg SCH 80	316/316L SS
12	1	1/2" NPT PIPE 18.25" Lg SCH 80	316/316L SS
13	1	1/2" PIPE NIPPLE 6" Lg SCH 80	316/316L SS
14	2	3/4" NPT TO 1/2" REDUCING BUSHING	316/316L SS
15	2	3/4" PIPE NIPPLE 1.5" LG SCH80	316/316L SS
16	3	3/4" NPT 90 ELBOW #3000	316/316L SS
17	1	3/4" TO 1/2" REDUCING PIPE NIPPLE	316/316L SS
18	4	3/4" NPT PIPE NIPPLE 3" LG SCH 80	316/316L SS
19	1	3/4" PIPE UNION	316/316L SS
20	8	5/8-11 HEX NUT	316/316L SS
21	4	5/8-11 UNC STUD 5" Lg	316/316L SS
22	8	5/8" NARROW PLAIN WASHER	316/316L SS
23	1	DELTA CODE PLATE	316 SS

NOZZLE CONNECTION TABLE			
#	QTY	DESCRIPTION	SIZE
N1	1	FROM SEAL	3/4" NPT
N2	1	TO DRAIN	3/4" NPT

DESIGN CODE ASME, SEC. VIII, DIV. 1 2013

DRAWN: J. HOWE 29-May-14  
 CHECKED:  
 APPROVED:



UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES  
 +/- .1/8"  
 ANGLE +/- 1°

CLIENT:  
 PROJECT:  
 TITLE:  
 DWG No.:

ORDER #:  
 API 682 PLAN 65A RESERVOIR ASSY  
 R65A-0000



REV 0

\* REFERENCE DRAWING ONLY

\* BASIC MODEL SHOWN - CONFIGURATION TO CUSTOMERS REQUEST