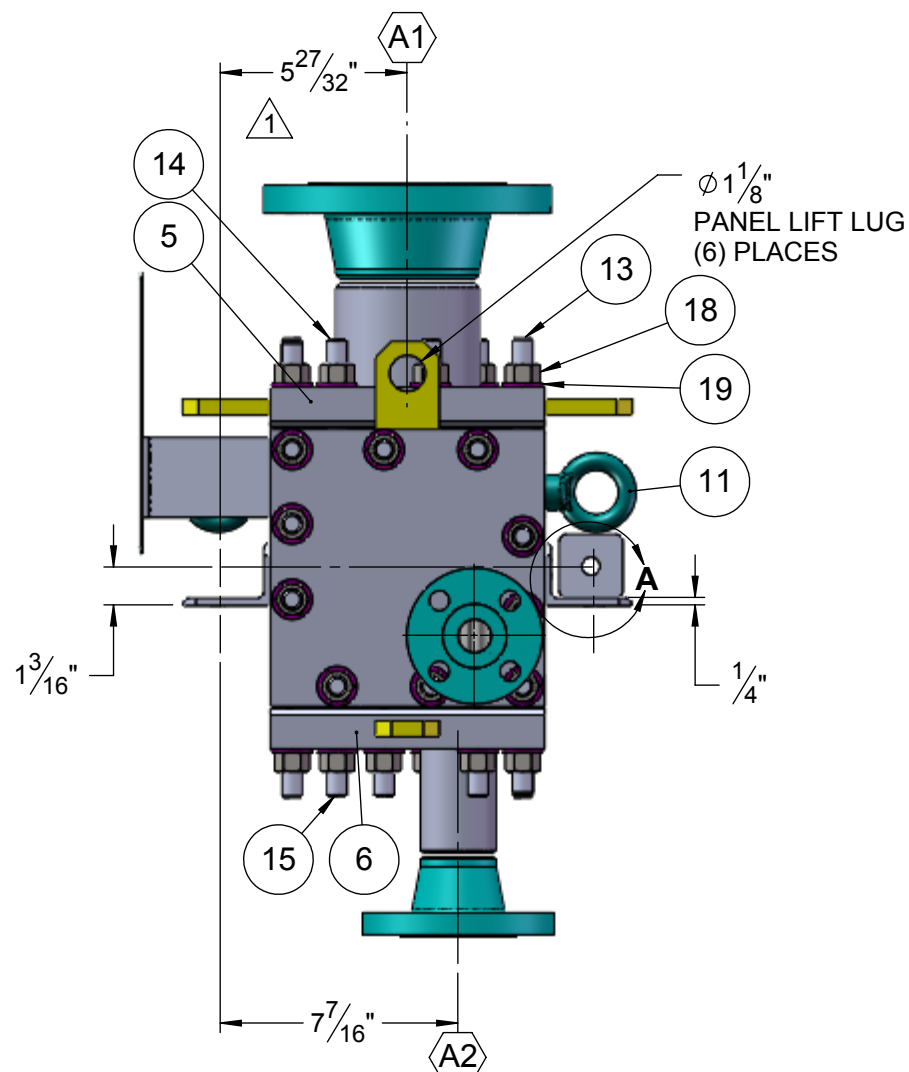
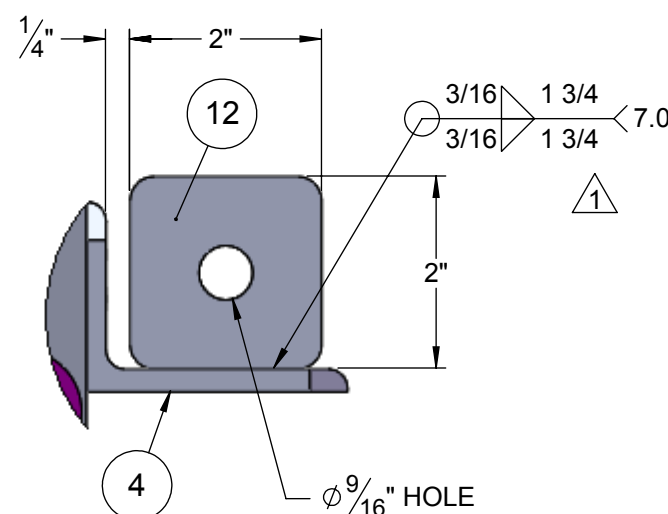
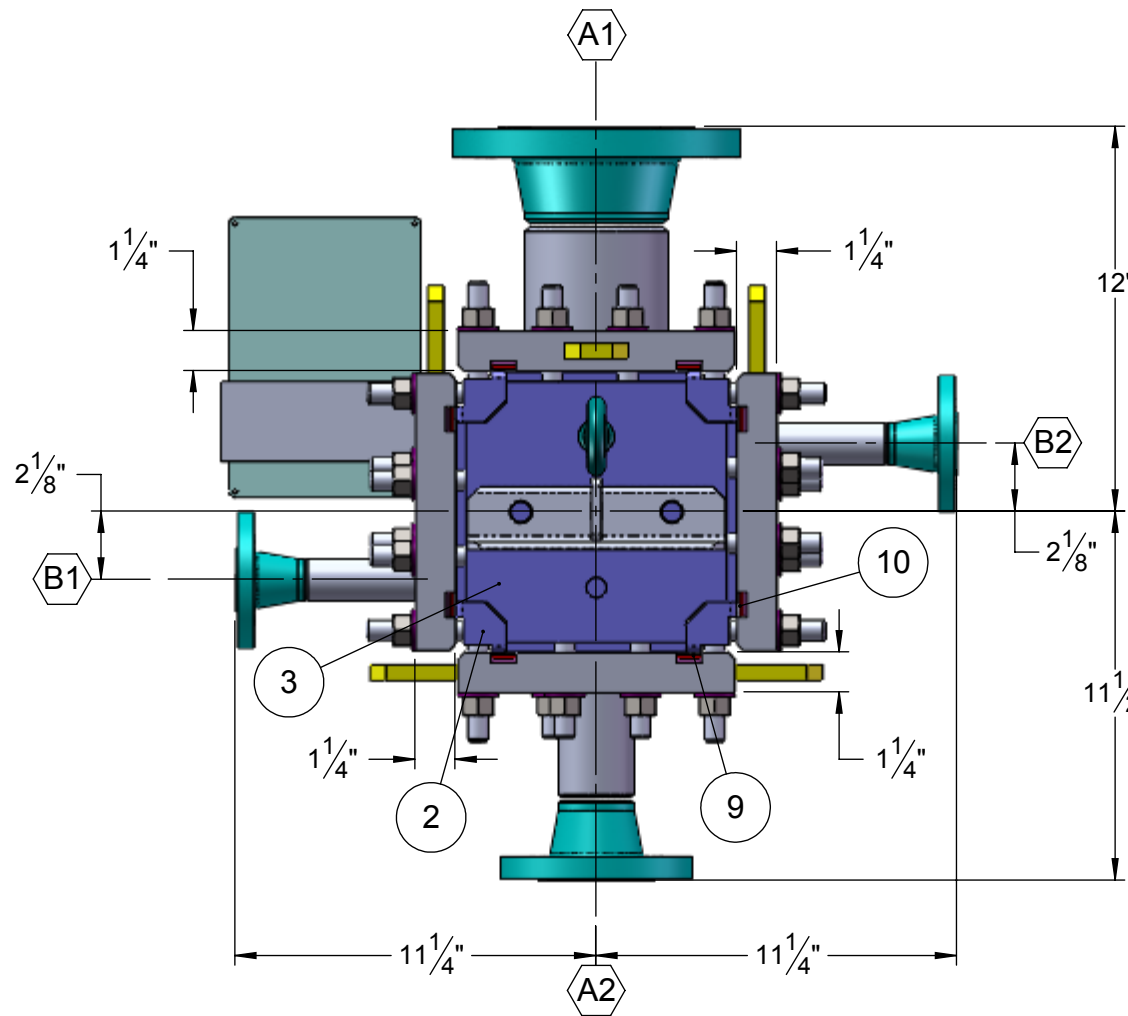
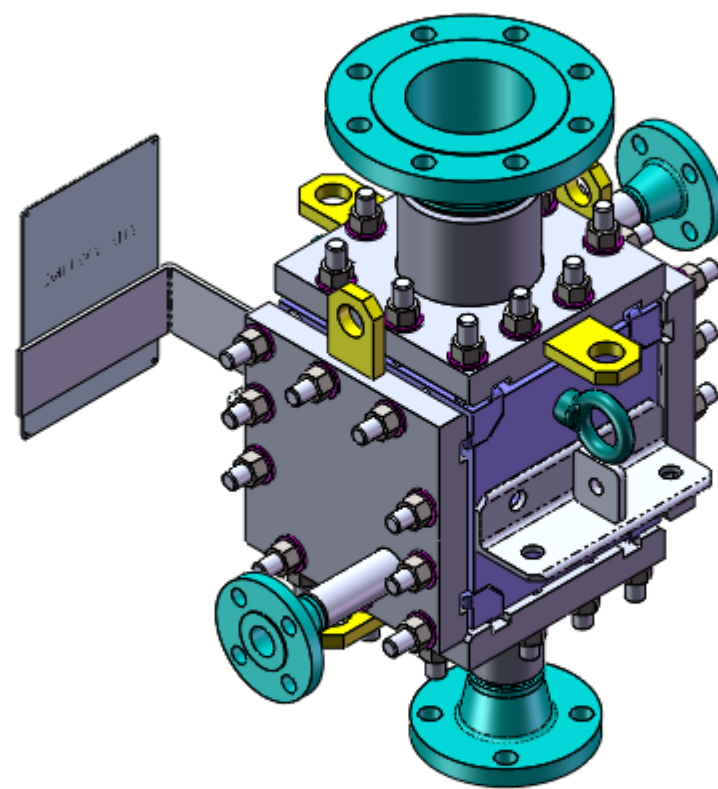


TOP VIEW LOOKING AT PANEL Aa



VIEW LOOKING AT PANEL Ba



DETAIL A
SCALE 1 : 2

ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL
19	40	423-44-9901-001	WASHER - M16	C45.E
18	40	407-44-0502-001	NUT - M16 HEAVY HEX	SA-194 2H
17	8	408-44-0501-007	STUD M16 x 100mm LG (Bb)	SA-193 B7
16	8	408-44-0501-007	STUD M16 x 100mm LG (Ba)	SA-193 B7
15	8	408-44-0501-007	STUD M16 x 100mm LG (Ab)	SA-193 B7
14	8	408-44-0501-007	STUD M16 x 100mm LG (Aa)	SA-193 B7
13	8	408-44-0501-006	STUD M16 x 135mm LG (Corner)	SA-193 B7
12	1	305-69-1713-001	GROUND LUG	SA-240 316L
11	2	AL16	LIFTING EYE - CP15	CS
10	2	411-15-0316-001	GASKET B - CP15-30	GYLON 3504
9	2	411-15-0316-001	GASKET A - CP15-30	GYLON 3504
8	1	203-15-0302-014	PANEL Bb ASSEMBLY	-
7	1	203-15-0302-013	PANEL Ba ASSEMBLY	-
6	1	203-15-0302-012	PANEL Ab ASSEMBLY	-
5	1	203-15-0302-011	PANEL Aa ASSEMBLY	-
4	2	34502134	HORIZONTAL SUPPORT - CP15	SA-36
3	2	34502051	HEAD CP15	SA-516 Gr.60(N)
2	4	3490011527	COLUMN - CP15-30	SA-516 Gr.60(N)
1	1	239-07-0301-001	HEART	SA-240 316/L
ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL

PERFORMANCE/UNIT	CIRCUIT A	CIRCUIT B
FLUID	150# Steam	Hexanol/TLA
FLOW RATE lb/h	235.2	16,000
TEMPERATURE IN/OUT °F	364 / 364-355.7	170 / 185
PRESSURE DROP PSIG	0.0009	6.44
SURFACE AREA (sq. ft.)	7.9	30 PLATES
NUMBER OF PASSES	1	3

DESIGN CONDITIONS		
DESIGN PRESSURE PSIG	195/FV	195/FV
TEST PRESSURE (PSIG)	254	254
DESIGN TEMPERATURE (°F)	392 / -7	392 / -7
WEIGHT (lbs)	EMPTY: 225	FLOODED: 245

MATERIALS OF CONSTRUCTION		
HEAT TRANSFER PLATE PACK	SA-240 316/L	
PANEL COVER	SA-516 GR.70(N)	SA-516 GR.70(N)
HEADS	SA-516 GR.60(N)	SA-516 GR.60(N)
PANEL LINERS	SA-240 316/L	SA-240 316/L
NOZZLE LINERS	UN-LINED	UN-LINED
COLUMN	SA-516 GR.60(N)	SA-516 GR.60(N)
PANEL GASKETS	Gylon 3504	Gylon 3504
BOLTING	SA-193 B7 / SA-194 2H	SA-193 B7 / SA-194 2H
PAINT: SEE NOTE #5		

NOZZLE SCHEDULE				
TAG	SIZE	SCH	DESCRIPTION	SERVICE
A1	4"	STD	150# - WN-RF FLANGE, SA-182-316/L	HOT INLET
A2	2"	STD	150# - WN-RF FLANGE, SA-182-316/L	HOT OUTLET
B1	1"	STD	150# - WN-RF FLANGE, SA-182-316/L	COLD INLET
B2	1"	STD	150# - WN-RF FLANGE, SA-182-316/L	COLD OUTLET

NOTES:

- Designed, constructed and "U" stamped in accordance with ASME Code Section VIII Division 1, 2013 Edition, NB registered.
- Tolerances on linear dimensions ± 1/8", unless otherwise noted. Tolerance on angular dimensions ± 1/2°.
- Flange bolt holes to straddle shown center lines.
- Impact testing exempt per subsection C, UCS-66(a)(b) and UHA-51(d).
- Painting: All surfaces except flange will be painted, including non-ferrous components. Surface preparation shall be abrasive blasted per SSPC-SP10. Paint- (2 coats) International Intertherm 228HS, 4-6 mils dft. per coat, color: Gray. See panel assembly drawings for welding and panel details.
- ER309 wire used for welding procedure 7.0.

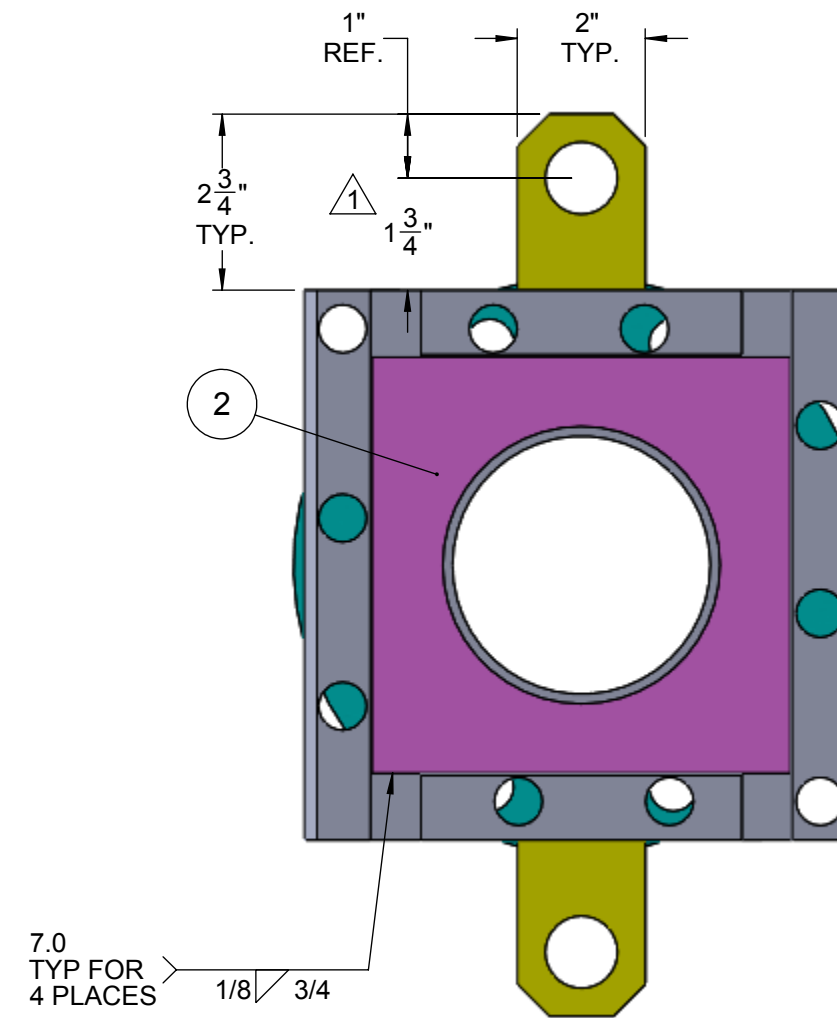
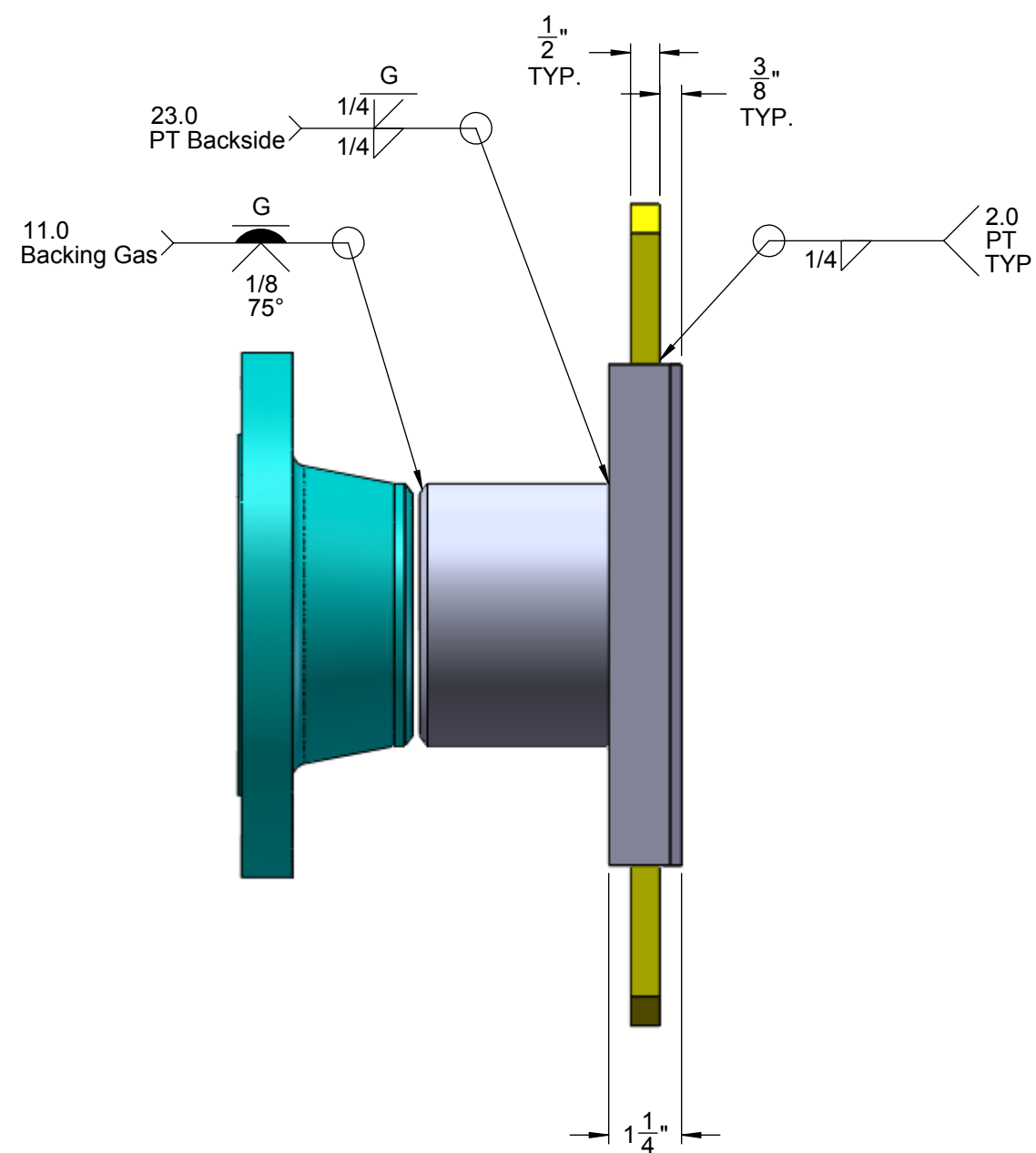
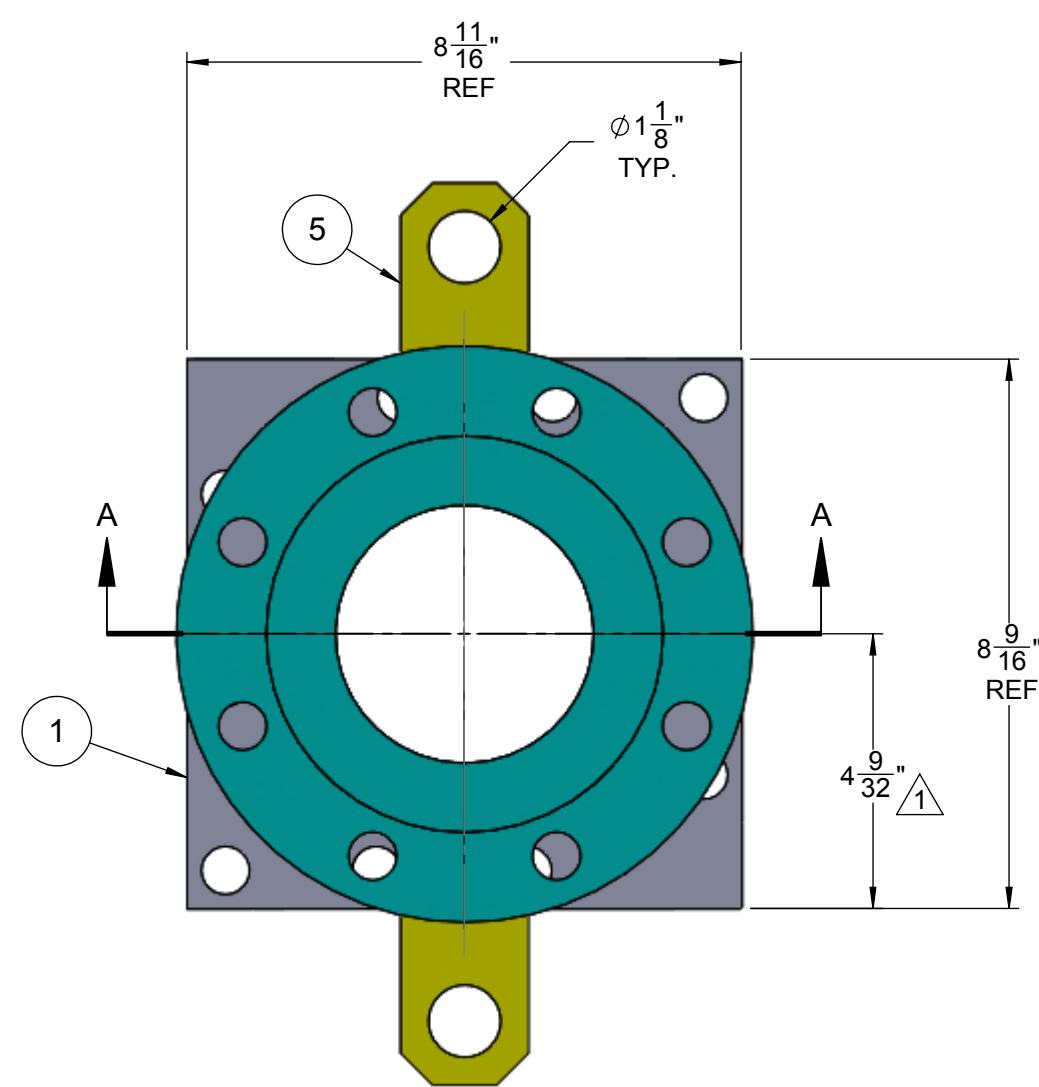
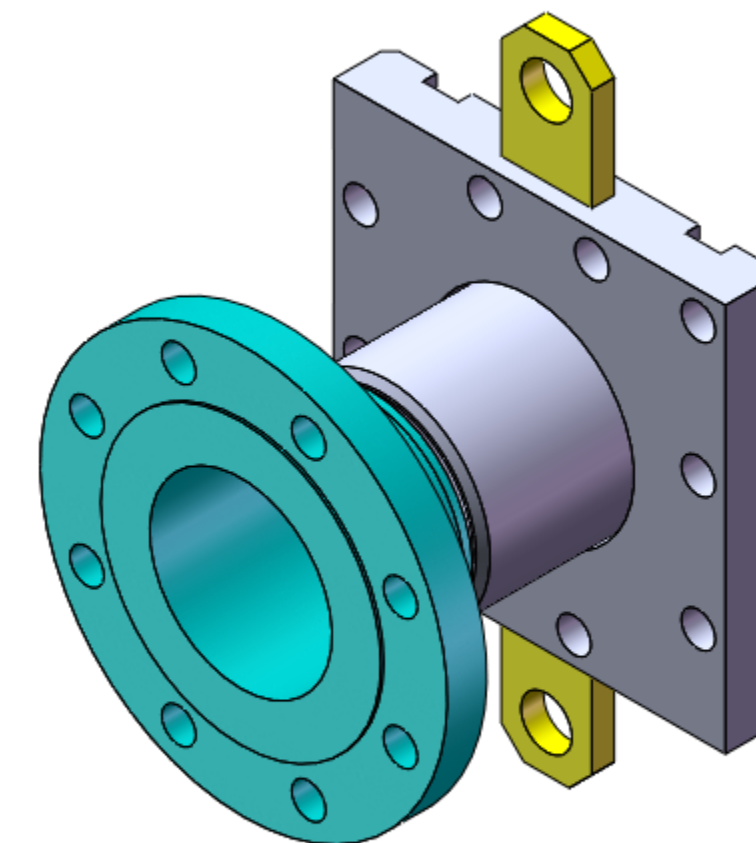
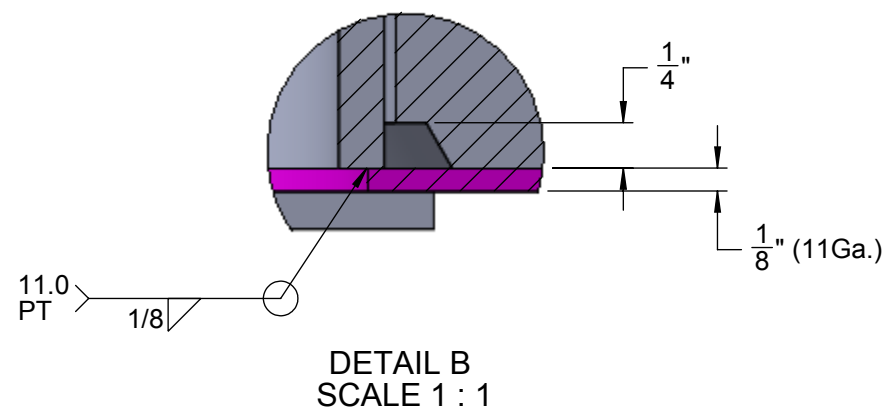
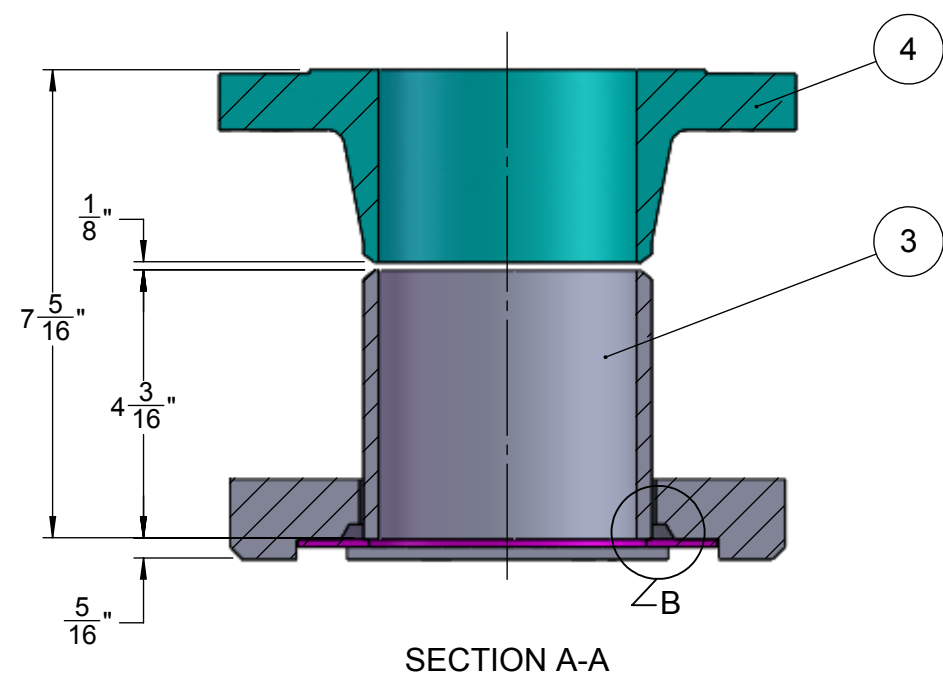
Certified Print
Approved for Fabrication or Erection
By Daniel Ludwig at 2:58 pm, Oct 08, 2015

PROJECT INFO.

Project Location: Raceland, Louisiana
Project No.: 19J1
Equipment Tag No.: HE-2601
Equipment Name: Hexanol Mix Tank Trim Heater

REV.	DESCRIPTION	DATE	APPROVED
1	REVISED PER CUSTOMER COMMENT AND INTERNAL REVIEW	10/7/2015	DLG

PROPRIETARY AND CONFIDENTIAL		Alfa Laval Inc.	
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALFA LAVAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALFA LAVAL IS PROHIBITED.		Lykens, PA 17048	
CUSTOMER: AMG Inc. (Viridia)		PO No.: 148	
SO: 1416		COMPABLOC MODEL CP15-H-30	
Serial No: 30112-70363	NAME	DATE	SIZE DWG. NO.
MO: 4375	DRAWN	DLG	9/8/2015
SCALE: 1:6	CHECKED	BLL	9/8/2015
			REV 1
			101-07-0301-003



Certified Print
 Approved for Fabrication or Erection
 By Daniel Ludwig at 2:58 pm, Oct 08, 2015

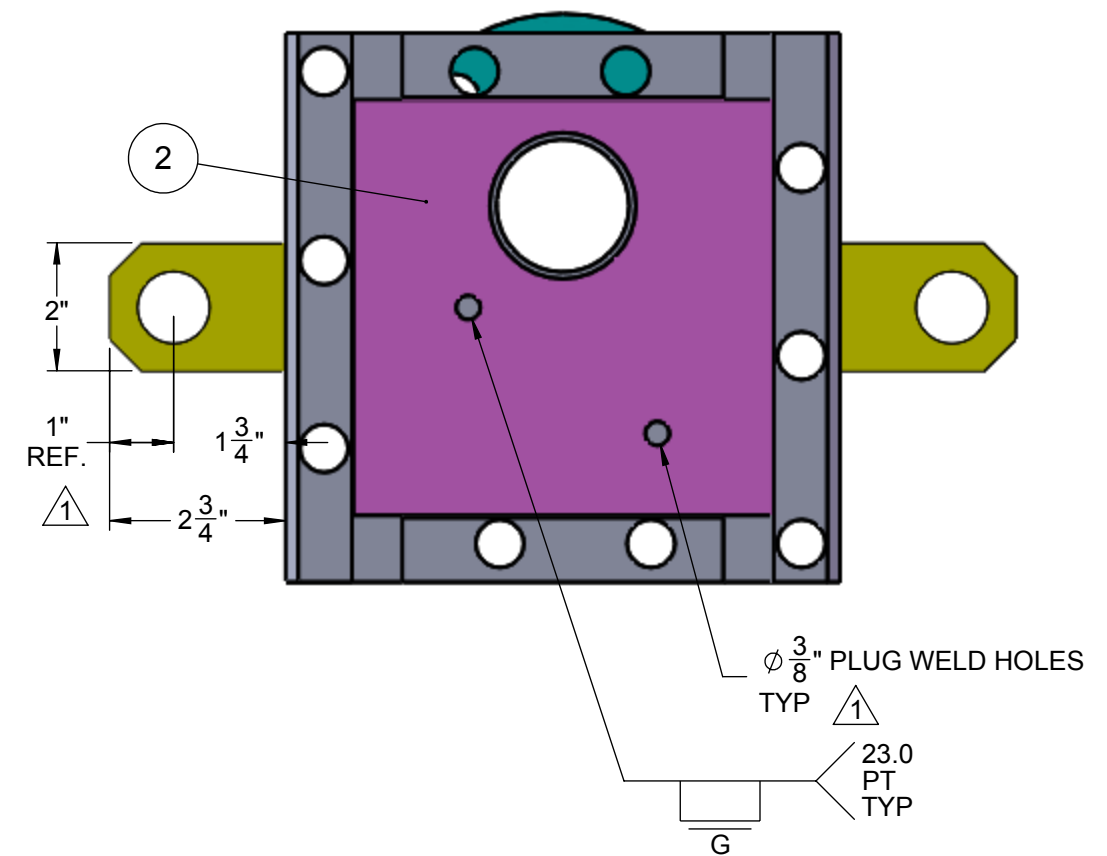
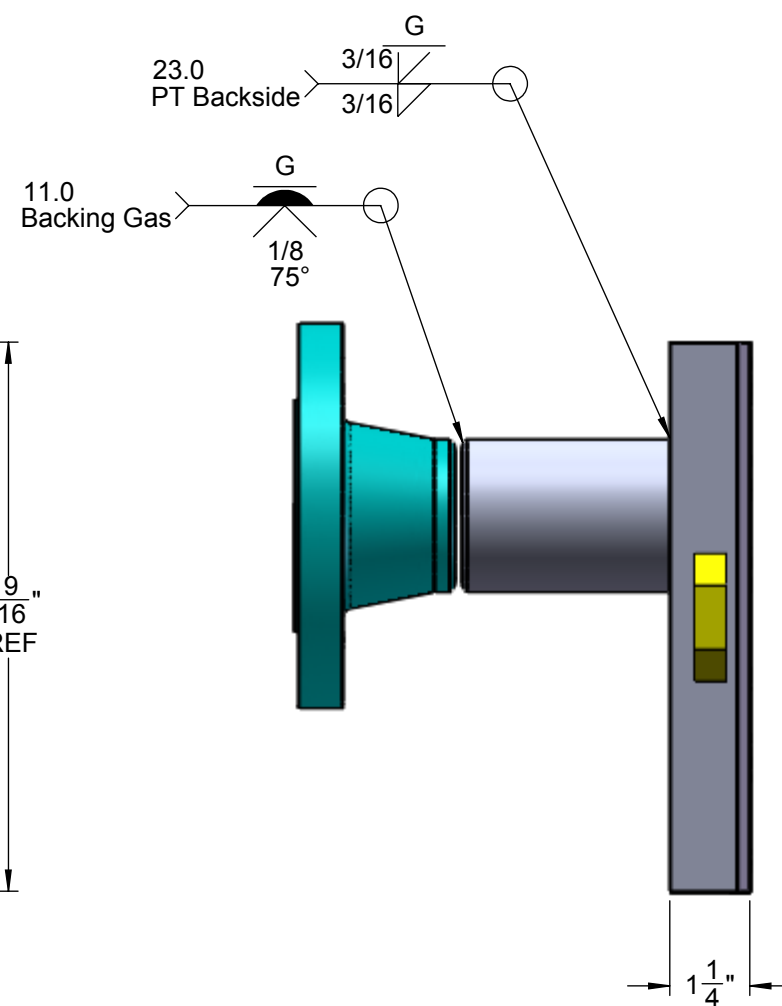
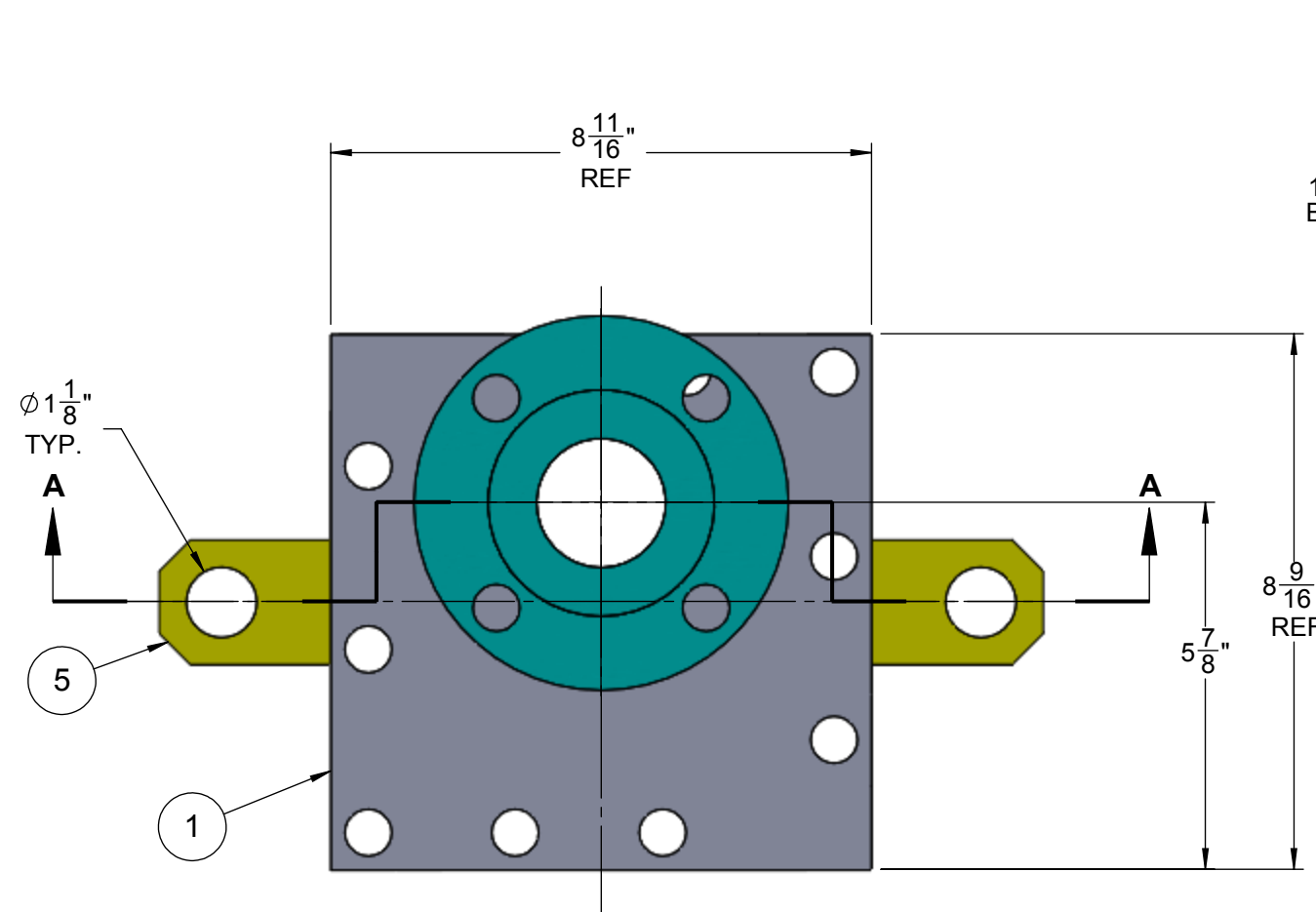
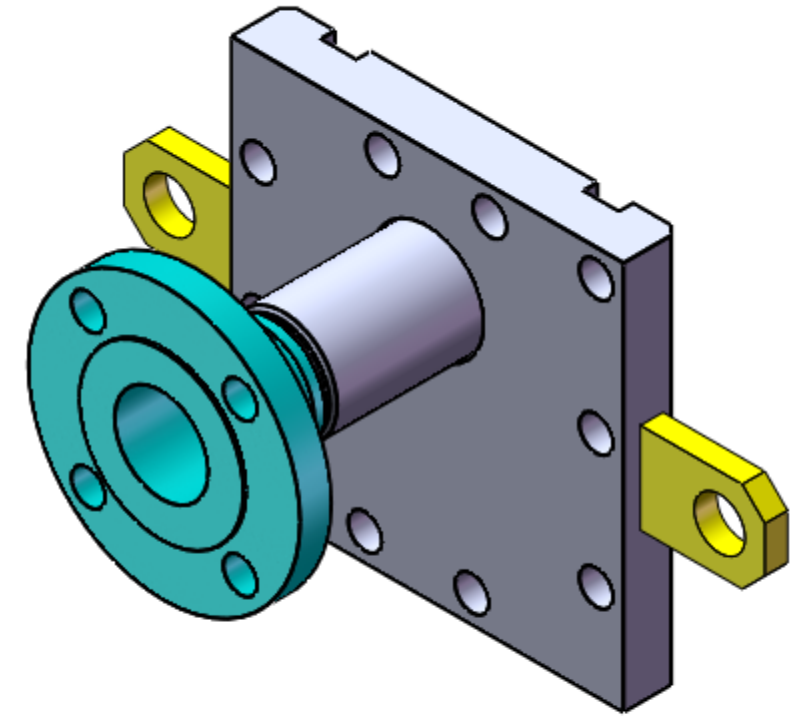
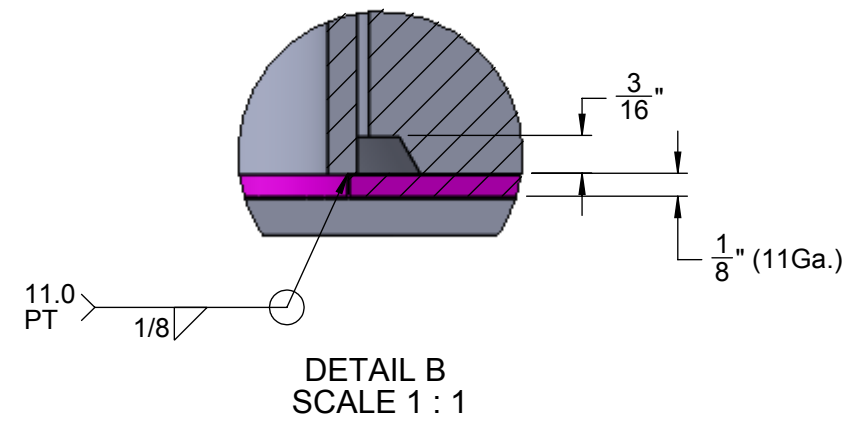
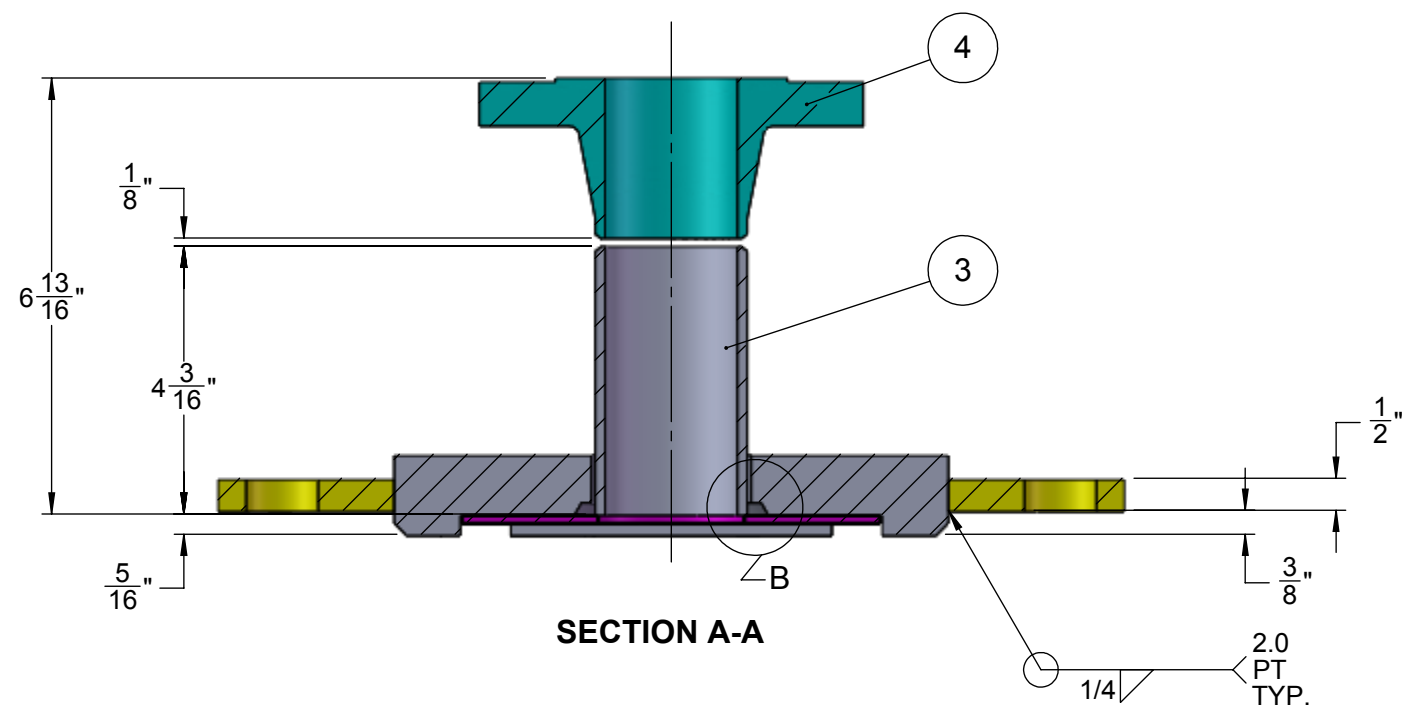
- NOTES:
 1. ER70S-6 WIRE USED FOR WELD PROCEDURE 2.0.
 2. ER309 WIRE USED FOR WELD PROCEDURE 7.0.
 3. ER316L WIRE USED FOR WELD PROCEDURE 11.0.
 4. E309LT-1 WIRE USED FOR WELD PROCEDURE 23.0.
 5. REQUIRED NDE: PT OF LIFT LUG, LINER WELDS AND NOZZLE TO PANEL GROOVE WELD.

PROJECT INFO.
 Project Location: Raceland, Louisiana
 Project No.: 19J1
 Equipment Tag No.: HE-2601
 Equipment Name: Hexanol Mix Tank Trim Heater

ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL
5	2	301-04-1001-001	LIFTING LUG, PANEL	SA-516 70
4	1	402-04-1503-001	FLANGE - 4" 150# RF WN STD BORE	SA-182 F316/L
3	1	502-04-4108-001	PIPE - 4" sch STD	SA-312 TP316/L
2	1	337-15-0313-014	LINER - CP15-30	SA-240 316/L
1	1	302-15-1102-009	PANEL Aa, CP-15 30 MACHINING	SA-516 70 N

REV.	DESCRIPTION	DATE	APPROVED
1	REVISED PER COMMENTS AND INTERNAL REVIEW	10/7/2015	DLG

UNLESS OTHERWISE SPECIFIED:			NAME		DATE
DIMENSIONS ARE IN INCHES			DRAWN	DLG	9/8/2015
TOLERANCES:			CHECKED	BLL	9/8/2015
FRACTIONAL ± 1/8			Customer: AMG Inc. (Virdia)		
ANGULAR: ± 1/2°			PO No.: 148		
TWO PLACE DECIMAL ±.05			PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALFA LAVAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALFA LAVAL IS PROHIBITED.		
THREE PLACE DECIMAL ±.005					
BOLT HOLES STRADDLE CENTER LINES			TITLE: PANEL Aa ASSEMBLY FOR CP15-H-30		
ASSEMBLY WEIGHT: 42 lbs			SIZE	DWG. NO.	REV
SCALE: 1:3			C	203-15-0302-011	1



Certified Print
 Approved for Fabrication or Erection
 By Daniel Ludwig at 2:58 pm, Oct 08, 2015

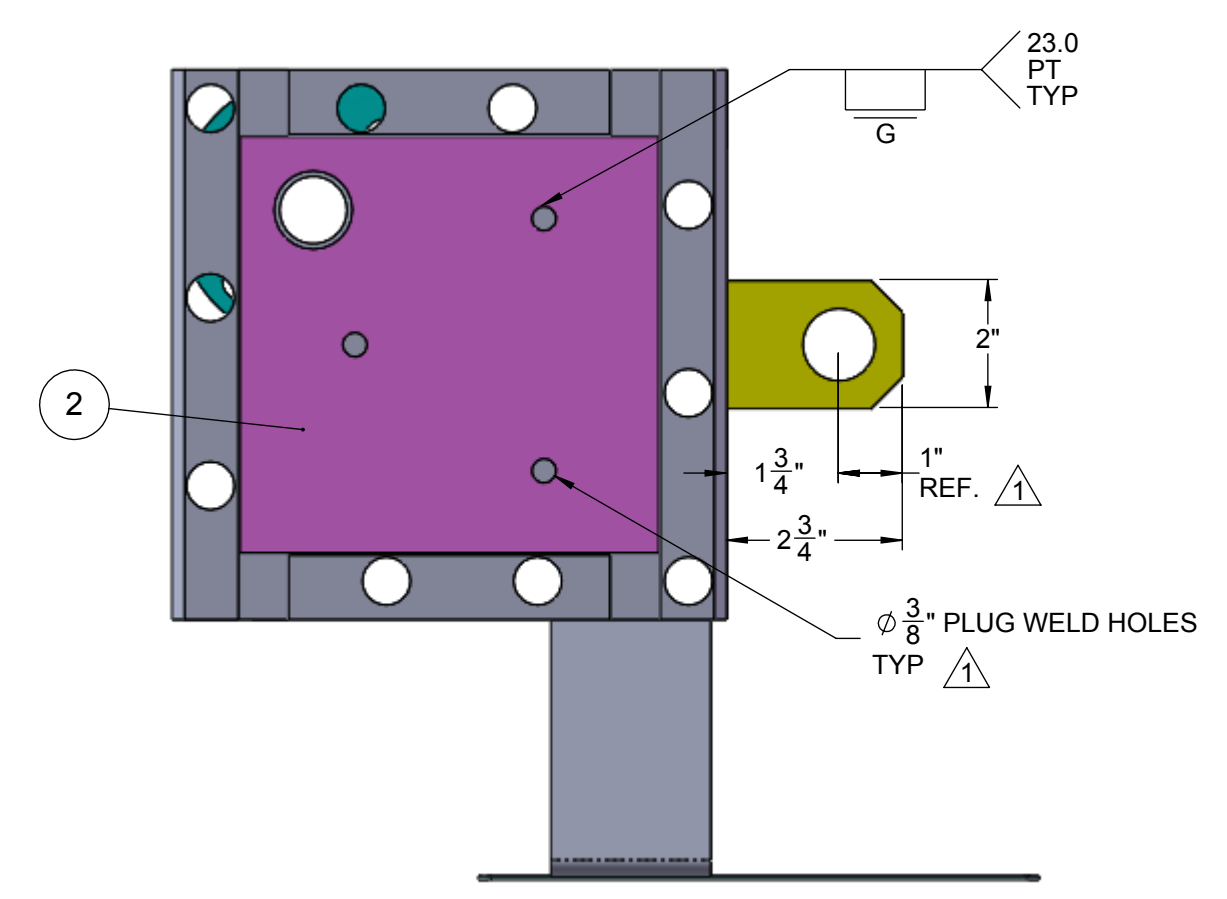
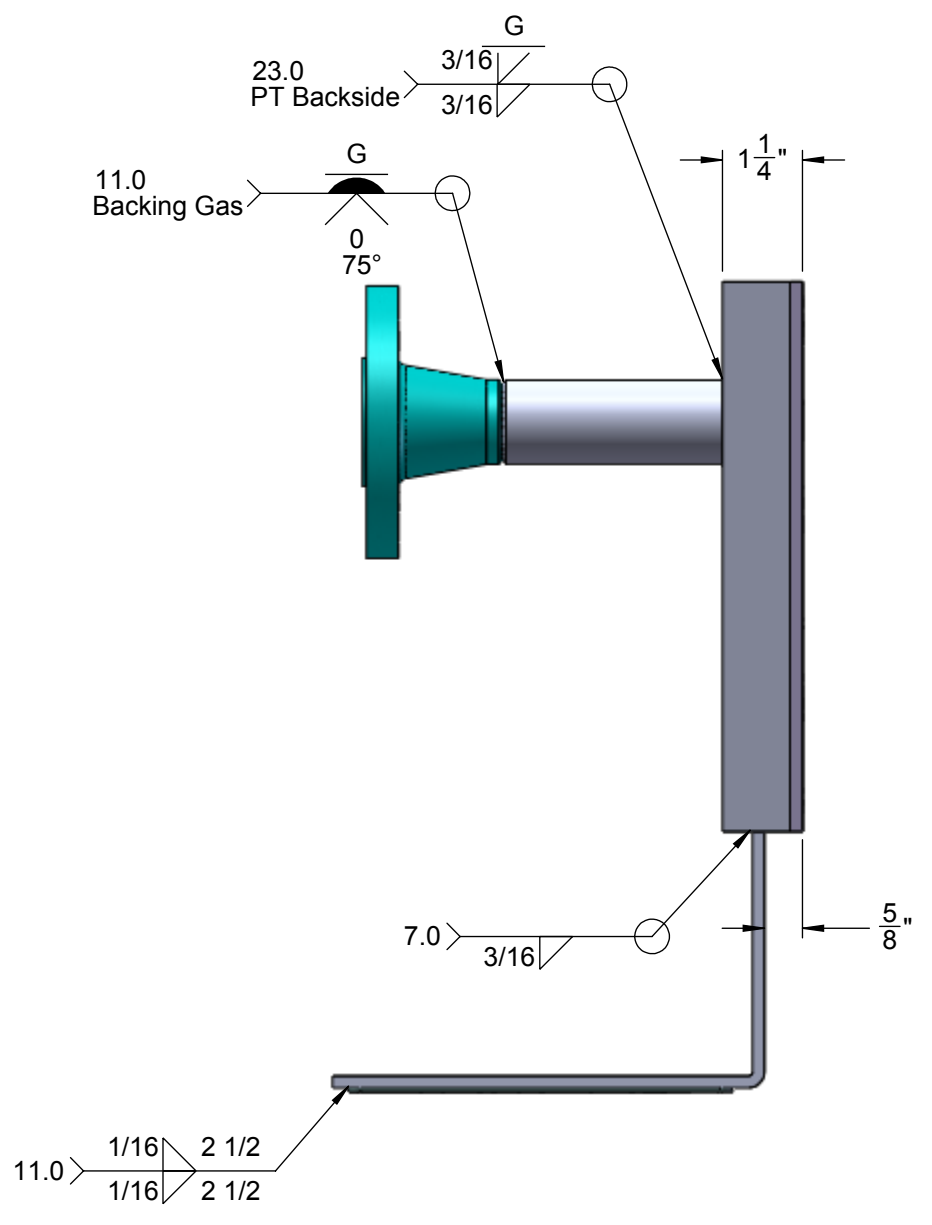
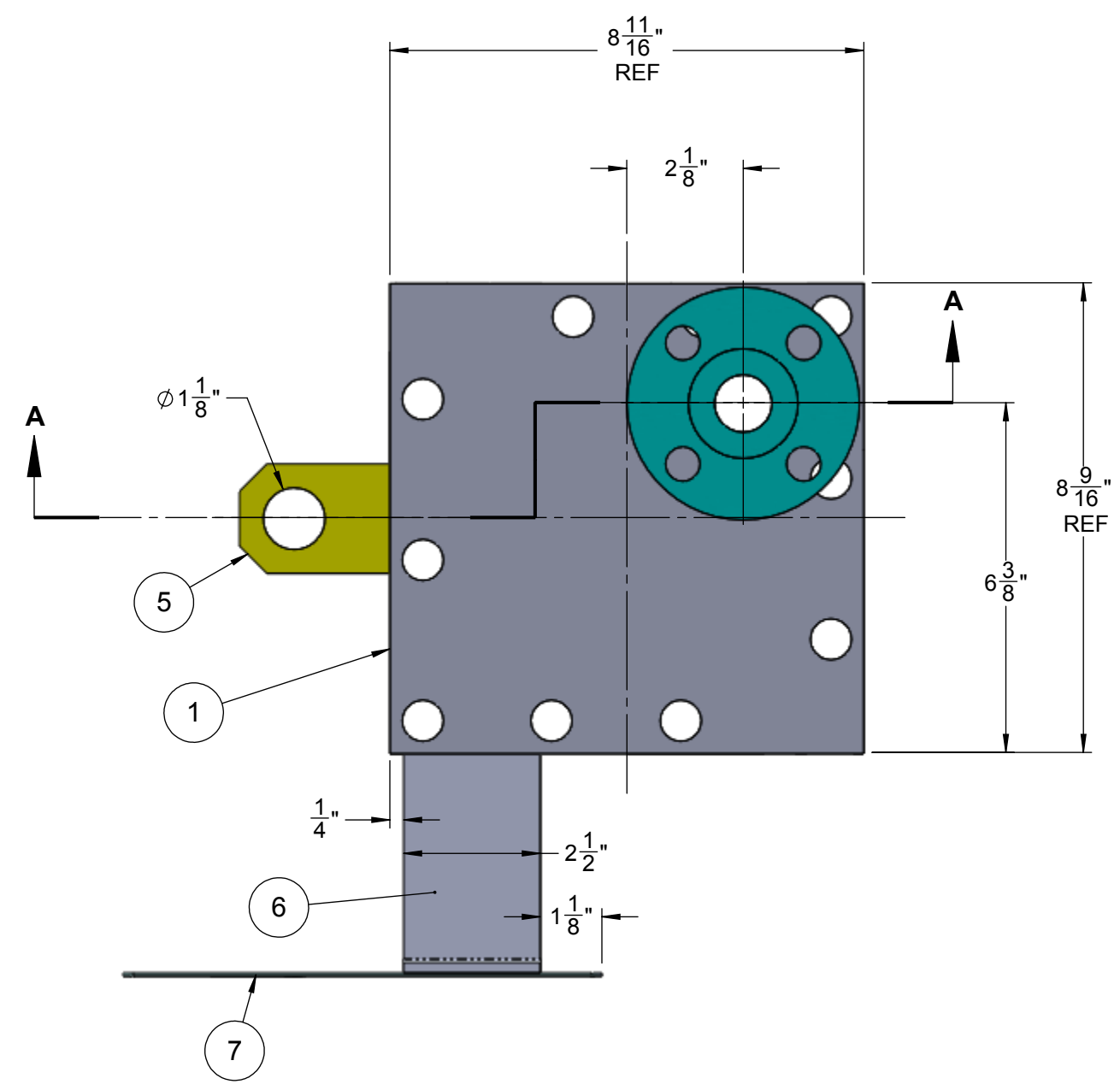
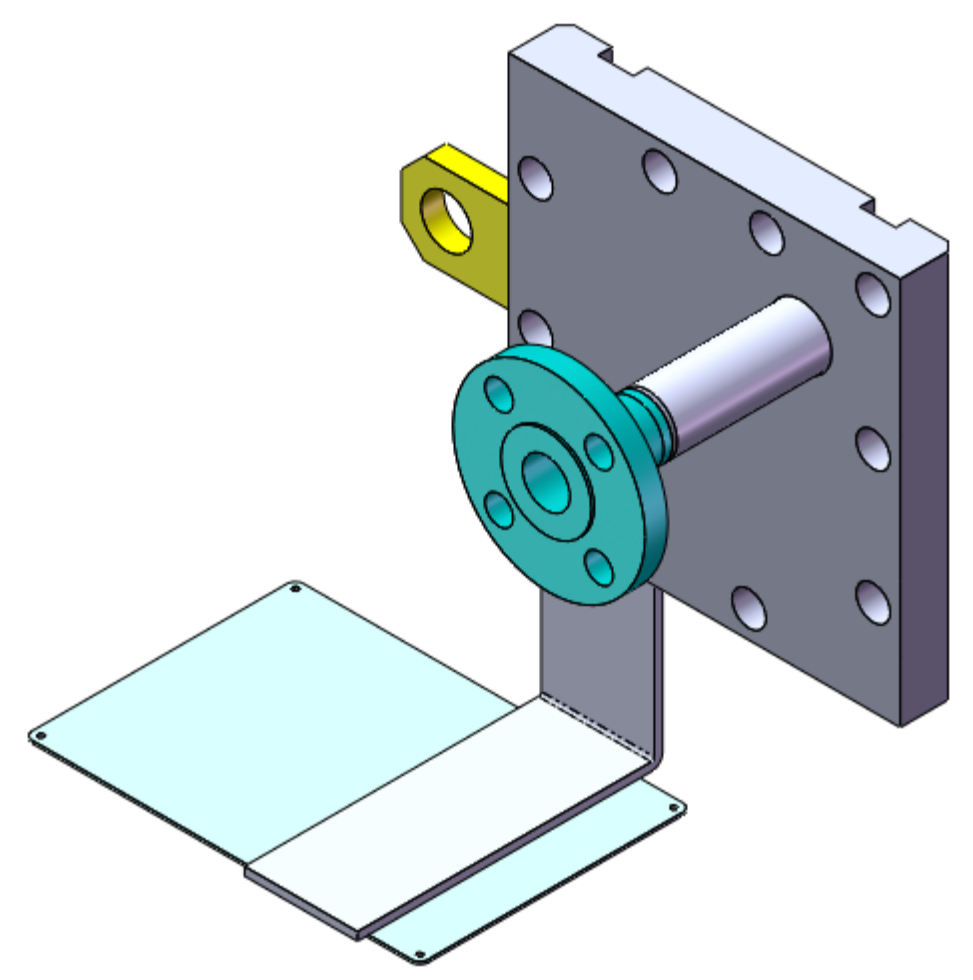
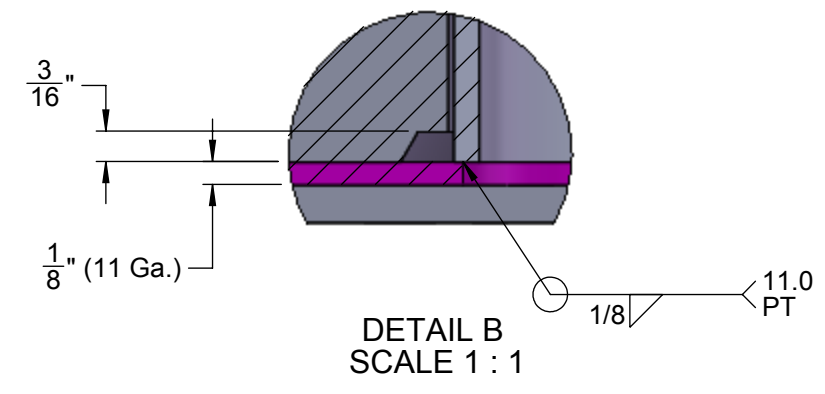
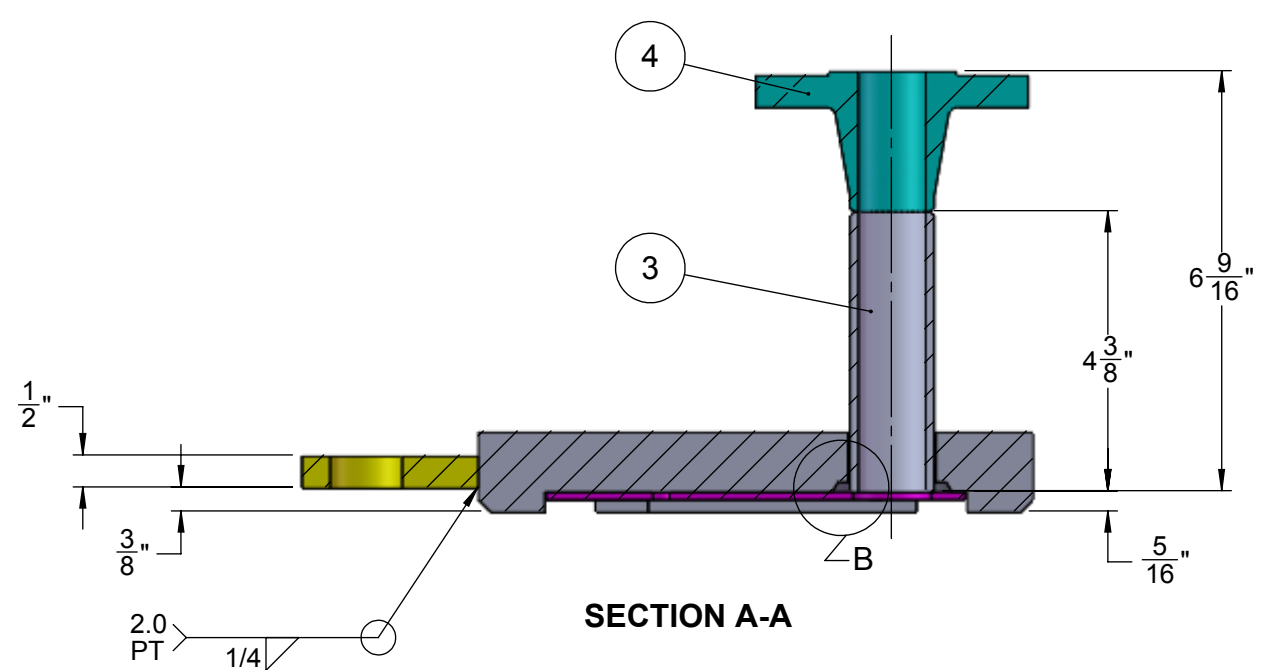
- NOTES:
- ER70S-6 WIRE USED FOR WELD PROCEDURE 2.0.
 - ER316L WIRE USED FOR WELD PROCEDURE 11.0.
 - E309LT-1 WIRE USED FOR WELD PROCEDURE 23.0.
 - REQUIRED NDE: PT OF LIFT LUG, LINER WELDS AND NOZZLE TO PANEL GROOVE WELD.

PROJECT INFO.
 Project Location: Raceland, Louisiana
 Project No.: 19J1
 Equipment Tag No.: HE-2601
 Equipment Name: Hexanol Mix Tank Trim Heater

ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL
5	2	301-04-1001-001	LIFTING LUG, PANEL	SA-516 70
4	1	402-02-1503-001	FLANGE - 2" 150# RF WN STD BORE	SA-182 F316/L
3	1	502-02-4108-001	PIPE - 2" sch STD	SA-312 TP316/L
2	1	337-15-0313-015	LINER - CP15-30	SA-240 316/L
1	1	302-15-1102-010	PANEL Ab, CP-15 30 MACHINING	SA-516 70 N

REV.	DESCRIPTION	DATE	APPROVED
1	REVISED PER COMMENTS AND INTERNAL REVIEW	10/7/2015	DLG

UNLESS OTHERWISE SPECIFIED:			NAME		DATE
DIMENSIONS ARE IN INCHES			DRAWN	DLG	9/8/2015
TOLERANCES:			CHECKED	BLL	9/8/2015
FRACTIONAL ± 1/8			Customer: AMG Inc. (Virdia)		
ANGULAR: ± 1/2°			PO No.: 148		
TWO PLACE DECIMAL ±.05			PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALFA LAVAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALFA LAVAL IS PROHIBITED.		
THREE PLACE DECIMAL ±.005					
1416	4375	30112-70363	BOLT HOLES STRADDLE CENTER LINES ASSEMBLY WEIGHT: 32 lbs SCALE: 1:3		
SIZE	DWG. NO.	REV	TITLE:		
C	203-15-0302-012	1	PANEL Ab ASSEMBLY FOR CP15-H-30		



Certified Print
 Approved for Fabrication or Erection
 By Daniel Ludwig at 2:59 pm, Oct 08, 2015

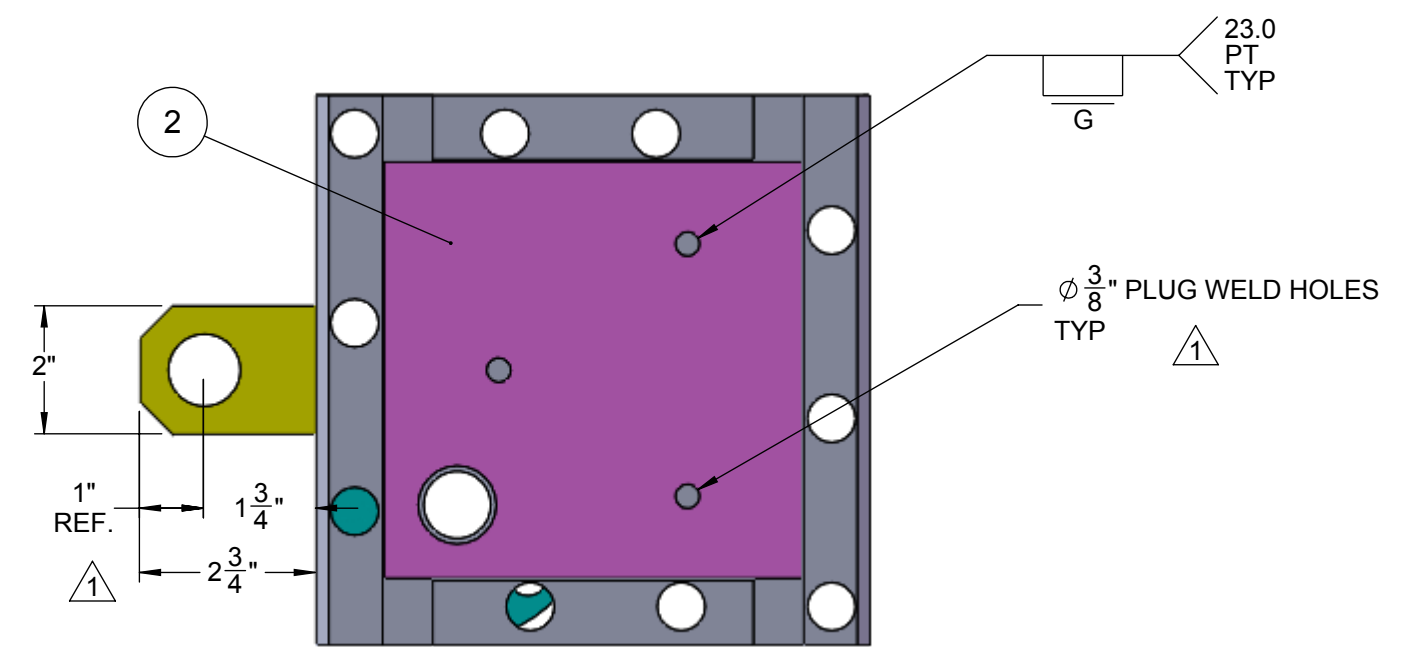
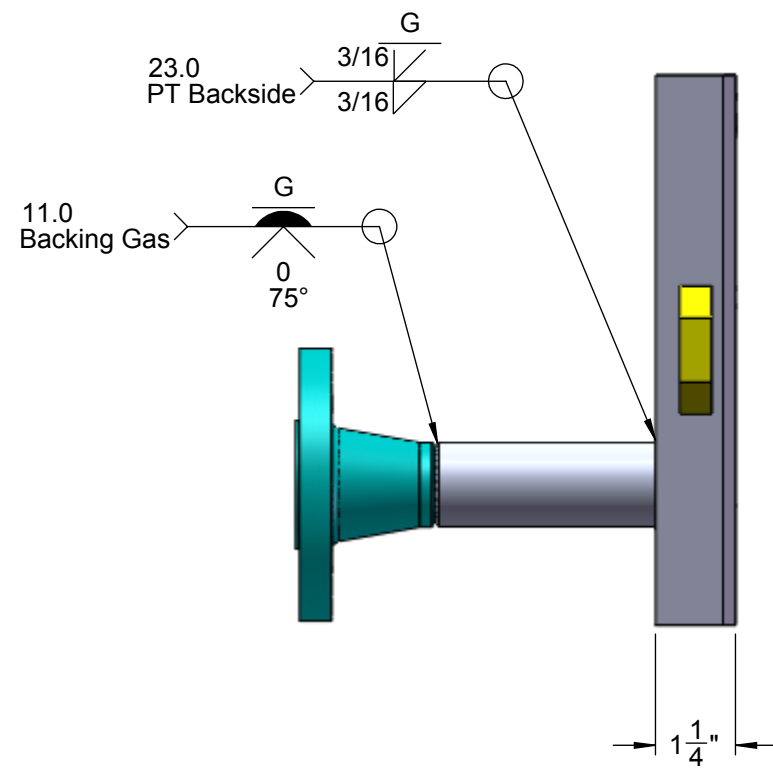
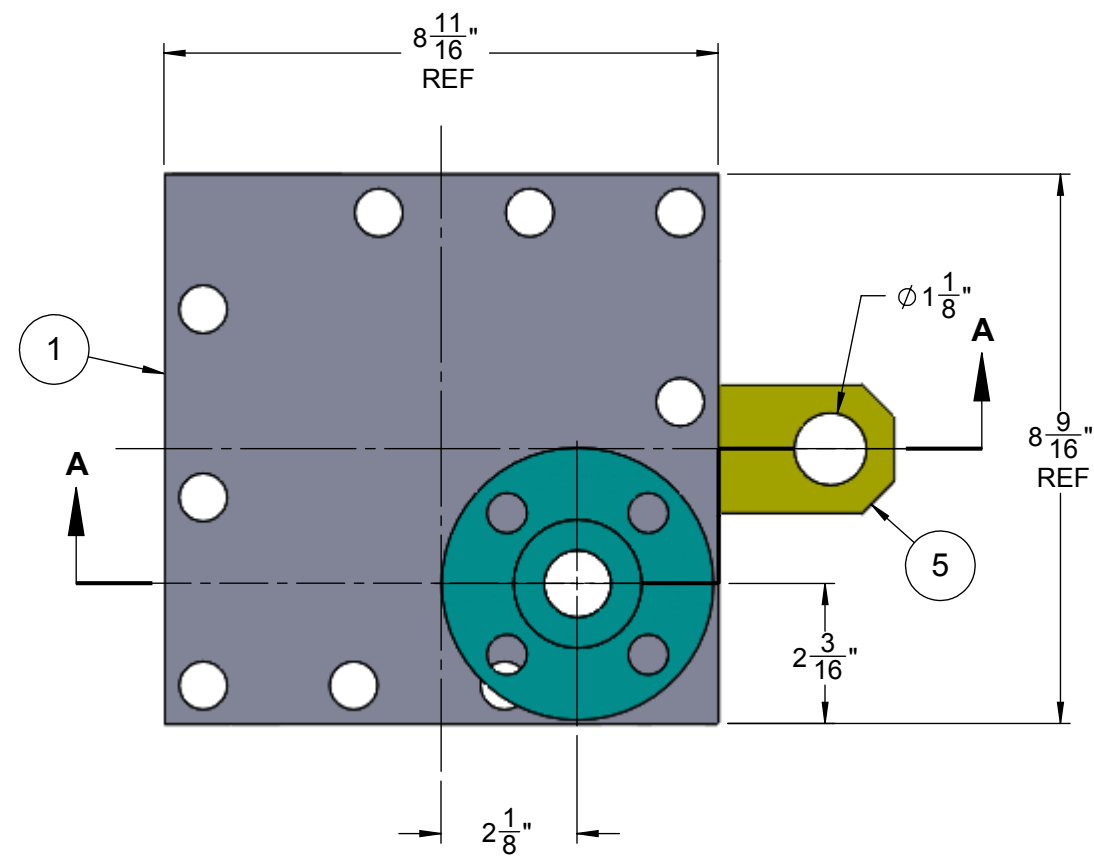
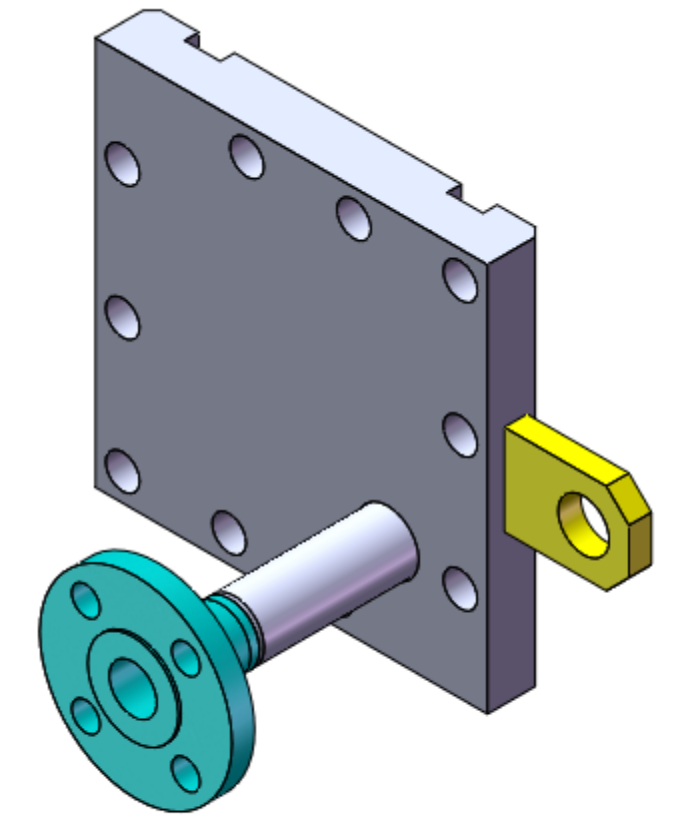
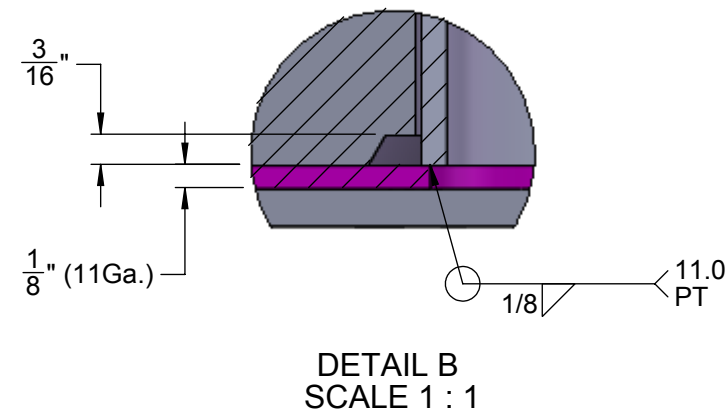
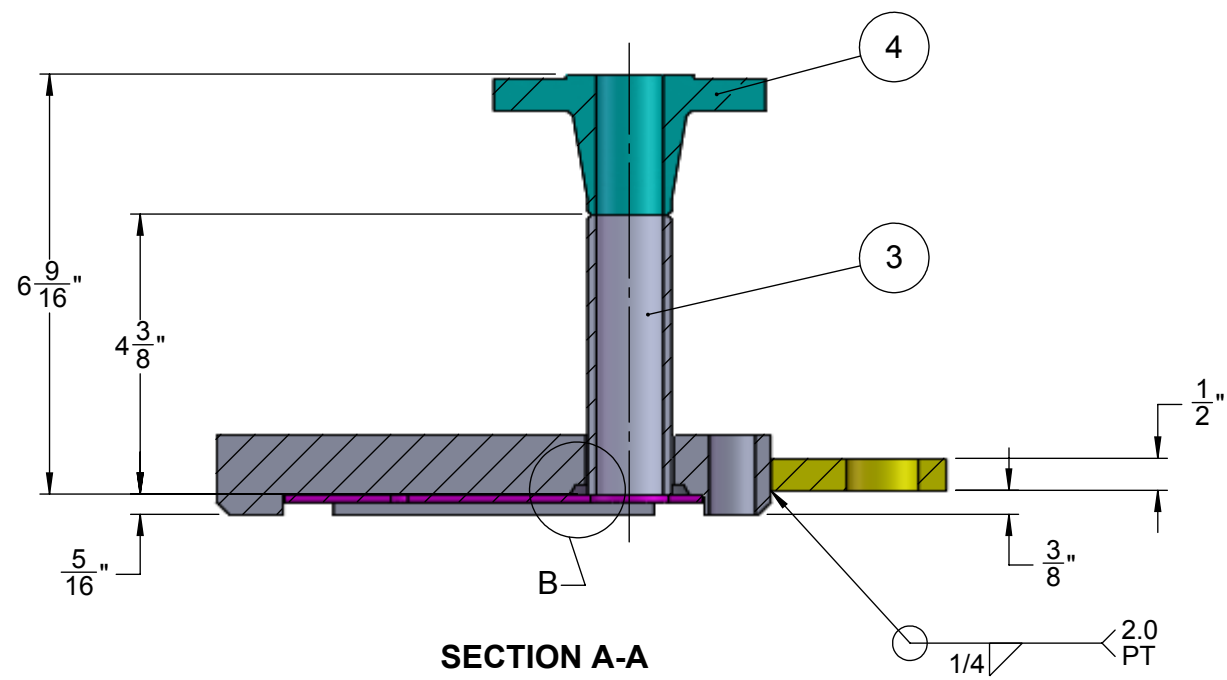
- NOTES:**
- ER70S-6 WIRE USED FOR WELD PROCEDURE 2.0.
 - ER309 WIRE USED FOR WELD PROCEDURE 7.0.
 - ER316L WIRE USED FOR WELD PROCEDURE 11.0.
 - E309LT-1 WIRE USED FOR WELD PROCEDURE 23.0.
 - REQUIRED NDE: PT OF LIFT LUG, LINER WELDS AND NOZZLE TO PANEL GROOVE WELD.

PROJECT INFO:
 Project Location: Raceland, Louisiana
 Project No.: 19J1
 Equipment Tag No.: HE-2601
 Equipment Name: Hexanol Mix Tank Trim Heater

ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL
7	1	319-12-0004-002	ALFA LAVAL STD NAMEPLATE	SA-240 304/L
6	1	313-10-2113-001	Custom Nameplate Bracket 3/16"Thk. x 2 1/2" x 10 5/8"Lg	SA-240 316/L
5	1	301-04-1001-001	LIFTING LUG, PANEL	SA-516 70
4	1	402-01-1503-001	FLANGE - 1" 150# RF WN STD BORE	SA-182 F316/L
3	1	502-01-4108-001	PIPE - 1" sch Std	SA-312 TP316/L
2	1	337-15-0313-016	LINER - CP15-30	SA-240 316/L
1	1	302-15-1102-011	PANEL Ba, CP-15 30 MACHINING	SA-516 70 N

REV.	DESCRIPTION	DATE	APPROVED
1	REVISED PER COMMENTS AND INTERNAL REVIEW	10/7/2015	DLG

UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE	
DIMENSIONS ARE IN INCHES	DRAWN	DLG	Alfa Laval	
TOLERANCES:	CHECKED	BLL	300 Chestnut St.	
FRACTIONAL ± 1/8	Customer:	AMG Inc. (Virdia)	Lykens, PA 17048	
ANGULAR: ± 1/2°	PO No.:	148	PROJECT NO.: 19J1	
TWO PLACE DECIMAL ±.05	PROPRIETARY AND CONFIDENTIAL			EQUIPMENT TAG NO.: HE-2601
THREE PLACE DECIMAL ±.005	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ALFA LAVAL. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ALFA LAVAL IS PROHIBITED.			EQUIPMENT NAME: Hexanol Mix Tank Trim Heater
BOLT HOLES STRADDLE CENTER LINES	SO	MO	SIZE	DWG. NO.
ASSEMBLY WEIGHT: 32 lbs	1416	4375	C	203-15-0302-013
SCALE: 1:3	SERIAL NO		REV	1
	30112-70363			



Certified Print
 Approved for Fabrication or Erection
 By Daniel Ludwig at 2:59 pm, Oct 08, 2015

NOTES:

1. ER70S-6 WIRE USED FOR WELD PROCEDURE 2.0.
2. ER316L WIRE USED FOR WELD PROCEDURE 11.0.
3. E309LT-1 WIRE USED FOR WELD PROCEDURE 23.0.
4. REQUIRED NDE: PT OF LIFT LUG, LINER WELDS AND NOZZLE TO PANEL GROOVE WELD.

PROJECT INFO:
 Project Location: Raceland, Louisiana
 Project No.: 19J1
 Equipment Tag No.: HE-2601
 Equipment Name: Hexanol Mix Tank Trim Heater

ITEM NO.	QTY.	PART NO	DESCRIPTION	MATERIAL
5	1	301-04-1001-001	LIFTING LUG, PANEL	SA-516 70
4	1	402-01-1503-001	FLANGE - 1" 150# RF WN STD BORE	SA-182 F316/L
3	1	502-01-4108-001	PIPE - 1" sch Std	SA-312 TP316/L
2	1	337-15-0313-017	LINER - CP15-30	SA-240 316/L
1	1	302-15-1102-012	PANEL Bb, CP-15 30 MACHINING	SA-516 70 N

REV.	DESCRIPTION	DATE	APPROVED
1	REVISED PER COMMENTS AND INTERNAL REVIEW	10/7/2015	DLG

SO	MO	SERIAL NO
1416	4375	30112-70363

NAME	DATE
DRAWN DLG	9/9/2015
CHECKED BLL	9/9/2015
Customer: AMG Inc. (Viridia)	
PO No.: 148	

SIZE	DWG. NO.	REV
C	203-15-0302-014	1

PROPRIETARY AND CONFIDENTIAL
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UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ± 1/8
 ANGULAR: ± 1/2°
 TWO PLACE DECIMAL ±.05
 THREE PLACE DECIMAL ±.005
 BOLT HOLES STRADDLE CENTER LINES
 ASSEMBLY WEIGHT:
 28 lbs
 SCALE: 1:3