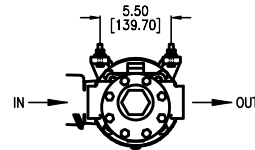
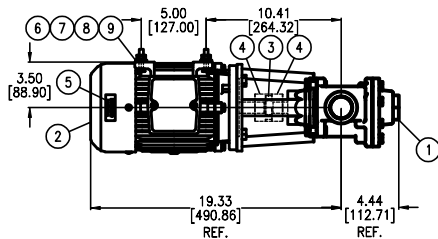
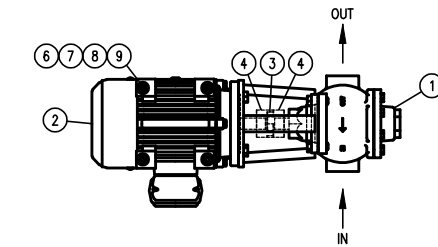


ASME B31.5 LATEST CODE & ADDENDA			
DESIGN PRESSURES & TEMPERATURES			
MAX. ALLOWABLE WORKING PRESSURE, DESIGN METAL TEMPERATURE			
HIGH SIDE	PSIG @ °F	HIGH SIDE	PSIG @ °F
LOW SIDE	PSIG @ °F	LOW SIDE	PSIG @ °F
MIN. DESIGN PRESSURE: PSIG @ AMBIENT TEMPERATURE			
REQUIRED PNEUMATIC TEST PRESSURE:			
HIGH SIDE 440 PSIG		LOW SIDE N/A PSIG	
APPROVED WELD PROCEDURES FOR CARBON STEEL:			
ROOT PASS SM-7, ST-3, & SM-2			
COVER WELDS SM-1 (all nozzle stems) or FC-1 (nozzle > 1" OD)			
FILLERS: SM-1 or FC-1			
BRAZING: PER PROCEDURE BPS-4, PREP PER AWS C3.4.			
APPROVED WELD PROCEDURES FOR STAINLESS STEEL:			
ROOT PASS ST-1			
COVER WELDS SM-3 (all nozzle stems) or FC-13 (nozzle > 1" OD)			
FILLERS: SM-3			
NOTES:			
1- TEST FLUQUATE AND CHANGE PER 130004			
2- WELD GENERATES ARE PER 100411			
3- STAINLESS REQUIREMENTS PER 100425			
4- BOLTING REQUIREMENTS PER 100423			
5- FF = FULL INLET			

DESIGN PRESSURE = 400psi
 TEST PRESSURE = 440psi



REV	NO.	DESCRIPTION	PART NO.
1	1	PUMP 24GPM OIL GEAR W/256SD VERT	3022DUC
2	1	MOTOR 2HP 1500RPM TEFC 400V 145TC XL	3715D
3	1	SPIDER L090/L095 FLEXIBLE COUPLING	2913A
4	2	HUB L090 COUPLING 7/8 BORE	2913E
5	1	DECAL 3/4X2 ROTATION ARROW	1371A
6	4	SCREW 5/16-18X1 CAP HEX HD GR5	2798A
7	4	NUT 5/16-18X-2B HEX Hvy PLAIN	1728B
8	4	WASHER 5/16 LOCK	13165C
9	4	WASHER 5/16 FLAT BLACK	13265D

PUMP 17GPM OIL 1.5HP 400V PED		1 of 1
REV	DESCRIPTION	DATE
NONE	CONFIDENTIAL	
HD	PROPERTY OF	
8/4/10		
WCS		

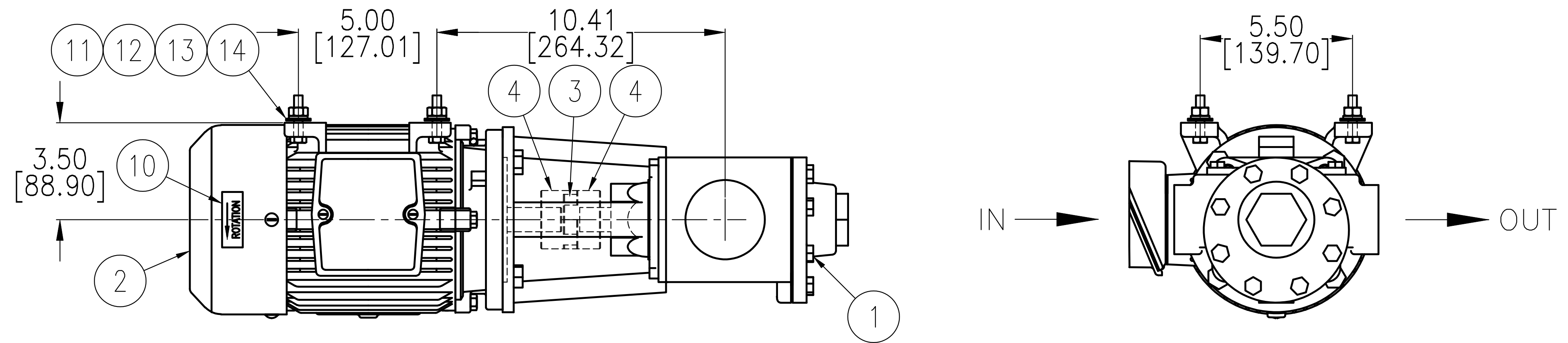
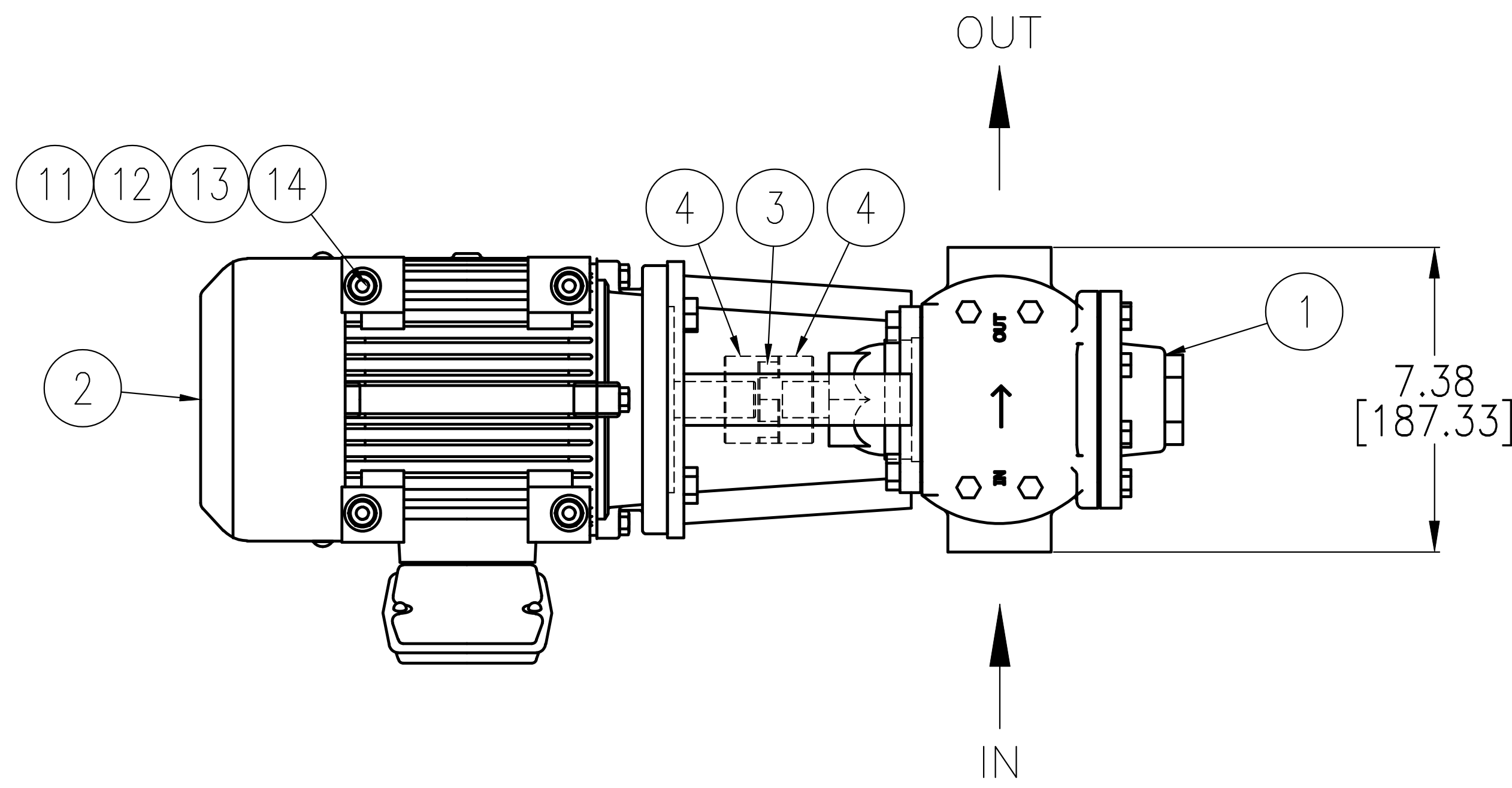
R3	ADDENDUM TO DRAWING	WCS	WCS	WCS	1-11-21	PUMP 17GPM OIL 1.5HP 400V PED
R2	REMOVED NEW PED FROM	WCS	WCS	WCS	7-22-20	VSM SINGLE SCREW COMPRESSOR UNITS
R1	ADDED DESIGN AND TEST PROBLEMS TO DRAWING	WCS	WCS	WV	6-28-14	
REV	DESCRIPTION	WCS	WCS	WV	DATE	
		WCS	WCS	WV		

STANDARD **A27087EE** 13

ASME B31.5 LATEST CODE & ADDENDA	
DESIGN PRESSURES & TEMPERATURES:	
MAX. ALLOWABLE WORKING PRESS.	MIN. DESIGN METAL TEMPERATURE
HIGH SIDE 000 PSIG @ 000 °F	HIGH SIDE 000 PSIG @ 000 °F
LOW SIDE 000 PSIG @ 000 °F	LOW SIDE 000 PSIG @ 000 °F
MIN. DESIGN PRESSURE 000PSIA @ AMBIENT TEMPERATURE	
REQUIRED PNEUMATIC TEST PRESSURE: HIGH SIDE 440 PSIG LOW SIDE N/A PSIG	
APPROVED WELD PROCEDURES FOR CARBON STEEL: ROOT PASS: SM-7, GT-3, & GM-2 COVER WELDS: SM-1 (all nozzle sizes) or FC-1 (nozzles>1"OD) FILLET: SM-1 or FC-1 BRAZING: PER PROCEDURE BPS-4, PREP PER AWS C3.4.	
APPROVED WELD PROCEDURES FOR STAINLESS STEEL: ROOT PASS: GT-1 COVER WELDS: SM-3 (all size nozzles) or FC-13 (nozzles>1"OD) FILLET: SM-3	
NOTES: 1> TEST, EVACUATE AND CHARGE PER T35064 2> WELD GEOMETRIES ARE PER T00421 3> SEALANTS REQUIREMENTS PER T00425 4> BOLTING REFERENCE PER T00423 5> FF = FULL FILLET	

DESIGN PRESSURE = 400psi
TEST PRESSURE = 440psi

ITEM	NO. REQ.	DESCRIPTION	PART NO.
1	1	PUMP 30GPM OIL GEAR W/Z56S0 BRACKET	3022GUC
2	1	MOTOR 2HP 1500RPM TEFC 400V 145TC XL	3715D
3	1	SPIDER L090/L095 FLEXIBLE COUPLING	2913A
4	2	HUB L090 COUPLING 7/8 BORE	2913E
10	1	DECAL 3/4X2 ROTATION ARROW	1371A
11	4	SCREW 5/16-18NCX1 CAP HEX HD GR5	2796N
12	4	NUT 5/16-18NC-2B HEX HVY PLAIN	1726B
13	4	WASHER 5/16 LOCK	13165C
14	4	WASHER 5/16 FLAT BLACK	13265D



PARAMETER	CONDITION
PUMP GPM:	30
COUPLING SIZE:	L90
MOTOR HP:	2.0
MOTOR VOLTAGE:	400V
MOTOR FRAME SIZE:	145TC

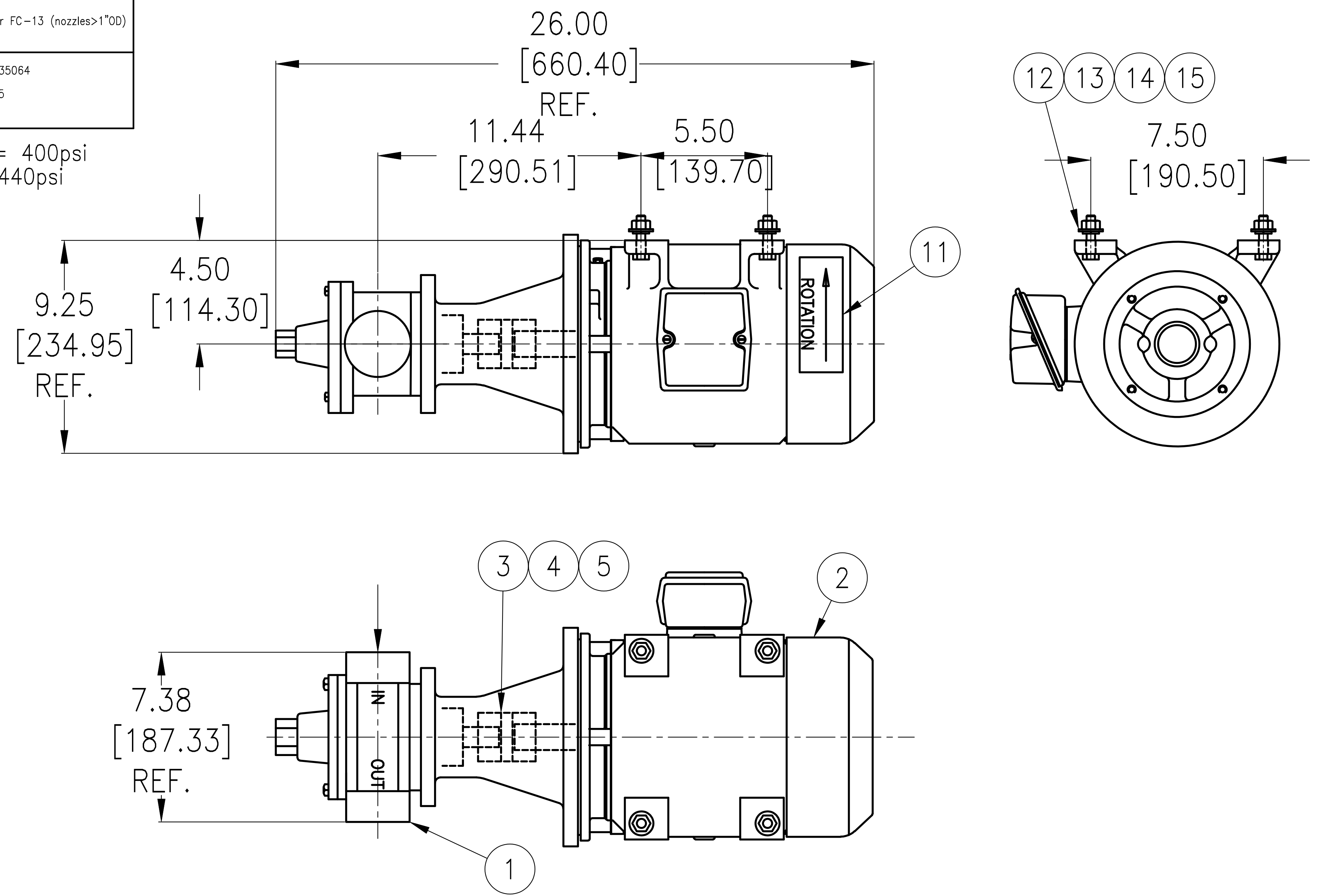
REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPR'D BY	DATE
R4	ITEM# 1 WAS: 3022GU QTY 01, NOW: 3022GUC QTY 01 ITEM# 2 WAS: 9992AJR QTY 01, NOW: 3715D QTY 01 DELETE: ITEM# 5 (1934G QTY 04) DELETE: ITEM# 6 (1548AA QTY 02) DELETE: ITEM# 7 (3403EK QTY 08) DELETE: ITEM# 8 (1958B QTY 08) DELETE: ITEM# 9 (14100HNCADAC QTY 02) ECO: S-009311	NVG	WCS	WCS	7-27-20
R3	ITEM 10 WAS S1665H (RAW MATERIAL)	WCS	WCS	JGN	6-6-18
R2	THE QUANTITIES FOR THE MOUNTING HARDWARE WERE INCORRECTLY LISTED AS 1.	WCS	WCS	JGN	10-28-14

PUMP 25GPM OIL ASSY 2HP 400V CE		1 of 1
SYSTEM DESCRIPTION		SHEET
SCALE: NONE	CONFIDENTIAL PROPERTY OF	B
PROPRIETARY: NO		
DATE: 6/19/14	TITLE: PUMP 25GPM OIL ASSY 2HP 400V CE	
DRAWN BY: WCS	PROJECT: 280MM VSS COMPRESSOR UNITS	
ORDER NO: STANDARD	PART NUMBER: A27087HC	REVISION: 4

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ASME B31.5 LATEST CODE & ADDENDA	
DESIGN PRESSURES & TEMPERATURES:	
MAX. ALLOWABLE WORKING PRESS.	MIN. DESIGN METAL TEMPERATURE
HIGH SIDE 000 PSIG @ 000 °F	HIGH SIDE 000 PSIG @ 000 °F
LOW SIDE 000 PSIG @ 000 °F	LOW SIDE 000 PSIG @ 000 °F
MIN. DESIGN PRESSURE 000 PSIA @ AMBIENT TEMPERATURE	
REQUIRED PNEUMATIC TEST PRESSURE:	
HIGH SIDE 440 PSIG	LOW SIDE 000 PSIG
APPROVED WELD PROCEDURES FOR CARBON STEEL:	
ROOT PASS: SM-7, GT-3, & GM-2	
COVER WELDS: SM-1 (all nozzle sizes) or FC-1 (nozzles > 1" OD)	
FILLET: SM-1 or FC-1	
BRAZING: PER PROCEDURE BPS-4, PREP PER AWS C3.4.	
APPROVED WELD PROCEDURES FOR STAINLESS STEEL:	
ROOT PASS: GT-1	
COVER WELDS: SM-3 (all size nozzles) or FC-13 (nozzles > 1" OD)	
FILLET: SM-3	
NOTES:	
1> TEST, EVACUATE AND CHARGE PER T35064	
2> WELD GEOMETRIES ARE PER T00421	
3> SEALANTS REQUIREMENTS PER T00425	
4> BOLTING REFERENCE PER T00423	
5> FF = FULL FILLET	

DESIGN PRESSURE = 400psi
TEST PRESSURE = 440psi



ITEM	NO. REQ.	DESCRIPTION	PART NO.
1	1	PUMP 33GPM OIL GEAR W/Z182S BRACKET	3022JUC
2	1	MOTOR 5HP 1500RPM TEFC 400V 184TC XL	3715B
3	1	SPIDER L090/L095 FLEXIBLE COUPLING	2913A
4	1	HUB L095 COUPLING 7/8 BORE	2913S
5	1	HUB L095 COUPLING 1-1/8 BORE	2913G
11	1	DECAL 3/4X2 ROTATION ARROW	1371A
12	4	SCREW 3/8-16NCX1-1/2 CAP HEX HD GR5	2796Q
13	4	NUT 3/8-16NC-2B HEX HVY PLAIN	1726C
14	4	WASHER 3/8 LOCK	13165D
15	4	WASHER 3/8 FLAT BLACK	13265E

PARAMETER	CONDITION
PUMP GPM:	33
COUPLING SIZE:	L95
MOTOR HP:	5.0
MOTOR VOLTAGE:	400V
MOTOR FRAME SIZE:	184TC

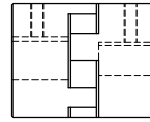
REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPR'D BY	DATE
R5	ITEM 1 WAS: 3022JU QTY 01, NOW: 3022JUC QTY 01 ITEM 2 WAS: 9992AJS QTY 01, NOW: 3715B QTY 01 DELETE: ITEM 6 (1934G, QTY 04) DELETE: ITEM 7 (1548AA, QTY 02) DELETE: ITEM 8 (3403EK, QTY 08) DELETE: ITEM 9 (1958B, QTY 08) DELETE: ITEM 10 (14100HNCADJC, QTY 02) ECO: S-009311	NVG	WCS	JGN	7/27/20
R4	ITEM 10 WAS S1665H (RAW MATERIAL)	WCS	WCS	JGN	6/6/18
R3	MTG. HARDWARE ITEMS 12,13,14,15 WERE INCORRECTLY LISTED AS QTY.1	WCS	WCS	JGN	10/28/14

PUMP 33GPM OIL 5HP 400V Z182S CE		1 of 1
SYSTEM DESCRIPTION		SHEET
SCALE: NONE	CONFIDENTIAL PROPERTY OF VILTER VILTER MANUFACTURING, LLC. CUDAHY, WISCONSIN, U.S.A.	B
PROPRIETARY: NO		
DATE: 6/19/14		
DRAWN BY: WCS	TITLE: PUMP 33GPM OIL 5HP 400V Z182S CE	
PROJECT: 310/312MM VSS COMPRESSOR UNITS		REVISION
ORDER NO: STANDARD	PART NUMBER: A27087LC	5

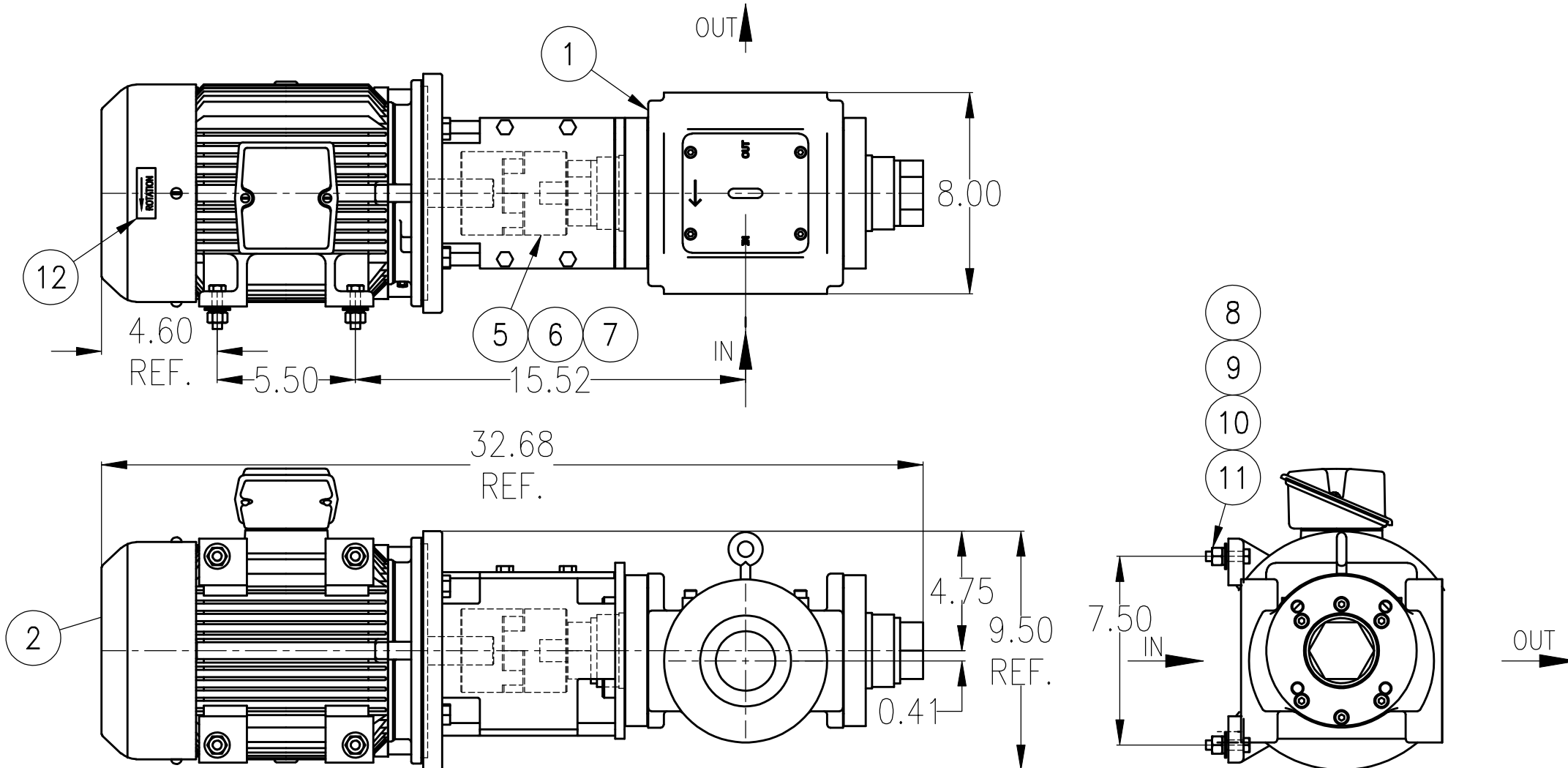
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ASME B31.5 LATEST CODE & ADDENDA	
DESIGN PRESSURES & TEMPERATURES:	
A	MAX. ALLOWABLE WORKING PRESS. MIN. DESIGN METAL TEMPERATURE
HIGH SIDE	HIGH SIDE
000 PSIG @ 000 °F	000 PSIG @ 000 °F
LOW SIDE	LOW SIDE
000 PSIG @ 000 °F	000 PSIG @ 000 °F
MIN. DESIGN PRESSURE 000 PSIA @ AMBIENT TEMPERATURE	
REQUIRED PNEUMATIC TEST PRESSURE:	
HIGH SIDE 000 PSIG	LOW SIDE 000 PSIG
APPROVED WELD PROCEDURES FOR CARBON STEEL:	
ROOT PASS: SM-7, GT-3, & GM-2	
COVER WELDS: SM-1 (all nozzle sizes) or FC-1 (nozzles > 1" OD)	
FILLETS: SM-1 or FC-1	
BRAZING: PER PROCEDURE BPS-4, PREP PER AWS C3.4.	
APPROVED WELD PROCEDURES FOR STAINLESS STEEL:	
ROOT PASS: GT-1	
COVER WELDS: SM-3 (all size nozzles) or FC-13 (nozzles > 1" OD)	
FILLETS: SM-3	
NOTES:	
1> TEST, EVACUATE AND CHARGE PER T35064	
2> WELD GEOMETRIES ARE PER T00421	
3> SEALANTS REQUIREMENTS PER T00425	
4> BOLTING REFERENCE PER T00423	
5> FF = FULL FILLET	

ASSEMBLE THE COUPLING CAREFULLY.
MAKE SURE THAT THE SET SCREWS ARE
FIRMLY TIGHTENED.
TEST THE COUPLING ASSEMBLY BY TURNING
THE ASSEMBLY BY HAND.
CHECK TO MAKE SURE THAT THE KEYS
DO NOT MOVE.



ITEM	QTY	PART NUMBER	DESCRIPTION
001	1	3022MUC	PUMP 54GPM OIL GEAR W/Z213D BRACKET
002	1	3715B	MOTOR 5HP 1500RPM TEFC 400V 184TC
005	1	2913J	LOVEJOY COUPLING HUBS
006	1	2913R	LOVEJOY COUPLING HUBS
007	1	2913B	SPIDER L110 FLEXIBLE COUPLING
008	4	2796Q	SCREW 3/8-16NCX1-1/2 CAP HEX HD GR5
009	4	1726C	NUT 3/8-16NC-2B HEX HVY PLAIN
010	4	13165D	WASHER 3/8 LOCK
011	4	13265E	WASHER 3/8 FLAT BLACK
012	1	1371A	DECAL 3/4X2 ROTATION ARROW



PARAMETER	CONDITION
NOMINAL PUMP GPM:	45
COUPLING SIZE:	L110
MOTOR HP:	5 HP
MOTOR VOLTAGE:	3 PH/50HZ/400 V
MOTOR AREA CLASS:	NEMA 4
MOTOR FRAME SIZE:	184TC

R1	ITEM 001 WAS: 3022MU QTY 01, NOW: 3022MUC QTY 01 ITEM 002 WAS: 9992AJS QTY 01, NOW: 3715B QTY 01 DELETE: ITEM 003 (1934H, QTY 02) DELETE: ITEM 004 (1548BA, QTY 02) DELETE: ITEM 013 (3403DD, QTY 16) ECO: S-009311	NVG	WCS	WCS	07/27/20
R0					
REV	DESCRIPTION	DRAWN BY	CHECKED BY	APPR'D BY	DATE

PUMP 45GPM OIL ASSY 5HP 400V CE		1 of 1
SYSTEM DESCRIPTION		SHEET
SCALE: NONE	CONFIDENTIAL PROPERTY OF EMERSON Vilter Climate Technologies	B
PROPRIETARY: NO		
DATE: 7/16/14		
DRAWN BY: WCS	TITLE: PUMP 45GPM OIL ASSY 5HP 400V CE	
PROJECT: VSS SINGLE SCREW COMPRESSOR UNITS		
ORDER NO: STANDARD	PART NUMBER: A27087PC	REVISION: 1

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