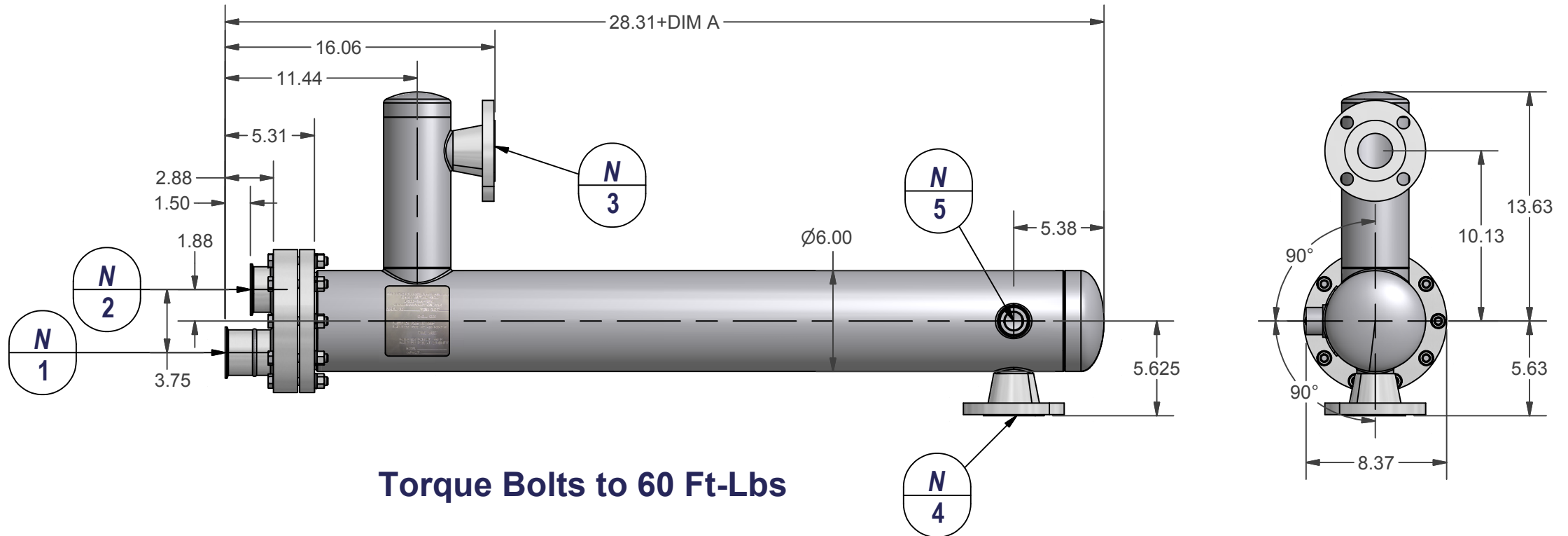


4				3	2	1					
NOZZLE SCHEDULE				Basic Model Information/Dimensions							
ITEM #	MATERIAL	SIZE	SERVICE	Nomenclature	Model #	Heat Transfer Area (ft^2)	DIM A	# of Baffles	Shipping Weight	Flooded Volume-Tube	Flooded Volume-Shell
N1	316L	2.5in Tri-Clamp	Product Inlet Port								
N2	316L	2.5in Tri-Clamp	Product Outlet Port								
N3	316L	2.0in 150# FLNG	Steam Inlet Port	HXP=Model TYP	HXP-U-2.5-6 X 24	13.60	0	1	81lbs	0.61 Gallons	3.22 Gallons
N4	316L	2.0in 150# FLNG	Condensate Outlet Port	U=U Tube Bundle	HXP-U-2.5-6 X 36	21.97	12	3	105lbs	0.97 Gallons	3.92 Gallons
N5	316L	1.0in NPT H.C.	Vacuum Breaker Port	2.5=Tube Side Port Size	HXP-U-2.5-6 X 48	30.35	24	3	128lbs	1.33 Gallons	4.62 Gallons
MATERIALS OF CONSTRUCTION				6=Heat Exchanger Shell Size	HXP-U-2.5-6 X 60	38.73	36	3	151lbs	1.69 Gallons	5.32 Gallons
				48=Heat Exchanger Unit Length	HXP-U-2.5-6 X 72	47.11	48	5	175lbs	2.04 Gallons	6.03 Gallons
					HXP-U-2.5-6 X 96	63.86	72	5	222lbs	2.76 Gallons	7.43 Gallons
					HXP-U-2.5-6 X 120	80.62	96	7	269lbs	3.47 Gallons	8.83 Gallons
					HXP-U-2.5-6 X 140	94.58	116	7	308lbs	4.07 Gallons	10.00 Gallons

MATERIALS OF CONSTRUCTION		
COMPONENT	ASTM SPEC NUMBER	MATERIAL
SHELL	SA-249	TYPE 316L SS
STACK	SA-249	TYPE 316L SS
CAPS	SA-403	TYPE 316L SS
TUBESHEET	SA-240	TYPE 316L SS
CHANNEL HEAD	SA-240	TYPE 316L SS
U-TUBES	SA-249/269/270	TYPE 316L SS
COUPLINGS	SA-182	TYPE 316L SS
FERRULES	SA-479	TYPE 316L SS
CHANNEL GASKET	NA	VIRGIN TEFLON
BOLTS	SA-192	TYPE 304 SS
NUTS	SA-194	TYPE 304 SS
STANDARD HEAT EXCHANGER INFORMATION		
-		
CODE OF CONSTRUCTION	NA	
DESIGN PRESSURE & TEMP.		
	SHELL SIDE	
MAWP:	150PSIG @ 400deg F	
MDMT:	-20deg F @ 150PSIG	
	TUBE SIDE	
MAWP:	150PSIG @ 400deg F	
MDMT:	-20deg F @ 150PSIG	
CORROSION ALLOWANCE	0.001IN	
PASSIVATION	NONE	
RADIOGRAPHY	NA	
N.D.E	LIQUIDE DYE PENETRANT EXAM	
P.W.H.T.	NONE	
FINISH		
-INTERIOR		
	SURFACES-#4 POLISH (150GRIT)	
	WELDS-GROUND FLUSH, #4 POLISH	
-EXTERIOR	SURFACES-BEAD BLAST	
	WELDS-CLEANED	

## STANDARD VESSEL NOTES

1. ALL BURRS AND SHARP EDGES REMOVED.
2. THE CORROSION RESISTANCE OF THE EQUIPMENT IS NOT THE RESPONSIBILITY OF KOSS INDUSTRIAL, INC. WITHOUT WRITTEN ACCEPTANCE BASED ON SPECIFIC SERVICE.
3. PASSIVATION OF VESSEL TO BE DONE BY CUSTOMER AT LOCATION OF INSTALLATION FOR PROPER PROTECTION OF STAINLESS STEEL.
4. PRODUCTION TO PROVIDE PROTECTION FOR ALL NOZZLES AND FITTINGS PRIOR TO SHIPMENT.
5. SUITABLE PRESSURE RELIEF MUST BE INSTALLED BY CUSTOMER FOR VESSEL OPERATION.
6. ALL TOLERANCES ARE IN ACCORDANCE WITH THE LATEST EDITION OF THE A.S.M.E. BOILER AND PRESSURE VESSEL CODE, SECTION VIII, DIVISION 1.
7. VESSEL TO BE HYDROSTATICALLY PRESSURE TESTED PER ASME SECTION VIII, DIV 1, UG-101.
8. ALL WELDING IS PERFORMED BY CERTIFIED WELDER IN ACCORDANCE THE REQUIREMENTS OF ASME SECTION IX.



Replacement Part Items		
Item	Description	Part Number
1	Replacement Gasket Kit	11256
2	Heat Exchanger Mounting Brackets	11257
3	Stainless Steel Vacuum Breaker	11130
<b>File Path</b> <i>Q:\INVENTOR\KOSS Manufactured Parts\Heat Exchangers\6in U-Tube Heat Exchanger-Not Released\HXP-U-2.5-6 Product Literature.idw</i>		
THIS DRAWING AND ANY PRINT THEREOF IS THE SOLE PROPERTY OF KOSS INDUSTRIAL, INC. GREEN BAY, WISCONSIN AND IS SUBJECT TO RETURN UPON REQUEST OF KOSS INDUSTRIAL, INC. THE INFORMATION SHOWN HEREIN IS CONFIDENTIAL AND THE RECIPIENT BY ACCEPTING THIS DRAWING, AGREES NOT TO USE ANY INFORMATION CONTAINED HEREIN IN ANY MATTER WHICH WILL BE DETRIMENTAL TO KOSS INDUSTRIAL, INC.		
<b>CHK:</b> <b>QA:</b>		<b>KOSS INDUSTRIAL, INC.</b> <b>GREEN BAY, WI</b>
<b>BY:</b> <i>derek</i> <b>MFG:</b>	<i>10/10/2006</i>	
<b>KOSS STOCK #</b>		<b>TITLE</b> 6in HXP Heat Exchanger Basic Information/Dimensions
<b>TOLERANCES UNLESS NOTED</b> ANG. FRAC. X XX XXXX ± 0.5° ± 1/32" ± .030 ± .010 ± .005		<b>DWG NO</b> <b>HXP-U-2.5-6 Product Literature</b>
63 ✓		<b>REV</b> 2
<b>SIZE</b>		<b>SHEET</b> 1 OF 1