



MARK	QTY	NPS SIZE	FLANGE	TYPE	CLASS	MATERIAL	SCH/THK	NECK	ELEVATION	NOZZLE DISTANCE	WELD DETAIL
Z	1	1	WNRF	150	SA-105N	XXS	SA-106-B	64.25 in			FIG. NO. 1.2
W	1	1	WNRF	150	SA-105N	XXS	SA-106-B	319.83 in			FIG. NO. 1.2
V	1	1	WNRF	150	SA-105N	XXS	SA-106-B	281.00 in			FIG. NO. 1.2
T	1	1	WNRF	150	SA-105N	XXS	SA-106-B	64.25 in			FIG. NO. 1.2
P	1	1	WNRF	150	SA-105N	XXS	SA-106-B	64.25 in			FIG. NO. 1.2
D	1	1	WNRF	150	SA-105N	XXS	SA-106-B	7.50 in			FIG. NO. 1.2,3
B	1	3	WNRF	150	SA-105N	160	SA-106-B	319.83 in			FIG. NO. 1.2
A	1	3	WNRF	150	SA-105N	160	SA-106-B	64.13 in			FIG. NO. 1.2

NOZZLES CHART

BILL OF MATERIALS FOR ONE VESSEL, REQUIRED ONE:

MARK	QTY	PIECE	DESCRIPTION
20	3.00	PIECE	SA-516-70 PLATE, 1.38", 2.00" LG. 1/4" THK. SEE DWG TO ADJUST.
19	1.00	PIECE	SA-516-70 PLATE, 8.00", 8.25" LG. 3/4" THK. SEE DWG TO ADJUST.
18A	2.00	PIECE	SA-516-70 PLATE, 6.00", 6.00" LG. 5/8" THK. SEE DWG TO ADJUST.
18	2.00	PIECE	SA-516-70 PLATE, 6.00", 6.00" LG. 3/4" THK. SEE DWG TO ADJUST.
17	2.00	PIECE	SA-240-304 PLATE, 2.00", 2.00" LG. 3/8" THK. SEE DWG TO ADJUST.
16	1.00	PIECE	SA-106-B PIPE, NPS 4, 1.50" LG. SCH. 80, SEE DWG TO ADJUST.
15	1.00	PIECE	SA-516-70 PLATE, 3.40", 55.50" LG., 1/4" THK.
14	1.00	PIECE	SA-516-70 PLATE, 94.00" OD, 81.00" ID., 3/4" THK.
13	1.00	PIECE	SA-516-70 PLATE, 39.00", 289.00" LG., 3/8" THK.
12	1.00	PIECE	SA-106-B PIPE, NPS 1, 45.50" LG. SCH. XXS, SEE DWG TO ADJUST.
11	1.00	PIECE	SA-234-WPB 90° LR ELBOW, NPS 1, SCH. XXS, B16.9, SEE DWG TO ADJUST.
10	1.00	PIECE	SA-106-B PIPE, NPS 1, 13.50" LG. SCH. XXS, SEE DWG TO ADJUST.
9	4.00	PIECE	SA-106-B PIPE, NPS 1, 5.00" LG. SCH. XXS, SEE DWG TO ADJUST.
8	1.00	PIECE	SA-106-B PIPE, NPS 1, 17.00" LG. SCH. XXS, SEE DWG TO ADJUST.
7	6.00	PIECE	FLANGE, WNRF, NPS 1, SCH. XXS, CL. 150, B16.5.
6	1.00	PIECE	SA-106-B PIPE, NPS 3, 4.50" LG. SCH. 160, SEE DWG TO ADJUST.
5	1.00	PIECE	SA-106-B PIPE, NPS 3, 16.00" LG. SCH. 160, SEE DWG TO ADJUST.
4	2.00	PIECE	SA-105N FLANGE, WNRF, NPS 3, SCH. 160, CL. 150, B16.5.
3	2.00	PIECE	SA-516-70 2:1 ELLIPSOIDAL HEAD, 86.00" OD, NOM. THK. 5/8", MIN THK 1/2", PLATE DISC 103.00" OD.
2	1.00	PIECE	SA-516-70 PLATE, 96.00", 268.60" LG., 1/2" THK.
1	2.00	PIECE	SA-516-70 PLATE, 72.00", 268.60" LG., 1/2" THK.

BILL OF MATERIALS

REV.	BY	NAME	APPD	MM/DD/YYYY	DATE	FOR REVISION / FABRICATION DESCRIPTION

CUSTOMER:	CUSTOMER NAME
ADDRESS:	COMPANY ADDRESS
LOCATION:	COMPANY LOCATION
CONTRACT No.:	CONTRACT NUMBER

COMPANY LOGO	COMPANY NAME		COMPANY DIRECTION.	
TITLE:		WELD AND MATERIALS SERVICE: KIND OF SERVICE		
SIZE: 86.00 in OD x 244.00 in LONG, T.T	TAG: TAG NUMBER	NAME: MM/DD/YYYY	NAME: MM/DD/YYYY	REVISION: 0
TYPE: VERTICAL	DWN: RWD:	NAME: MM/DD/YYYY	NAME: MM/DD/YYYY	DWG No: WM-XXXX
S.O.: XXXX	APPO: 1	NAME: MM/DD/YYYY	NAME: MM/DD/YYYY	

3	GTAW XXXXX Rev X
2	GMAW XXXXX Rev X
1	SMAW XXXXX Rev X
No.	DESCRIPTION
WPS	