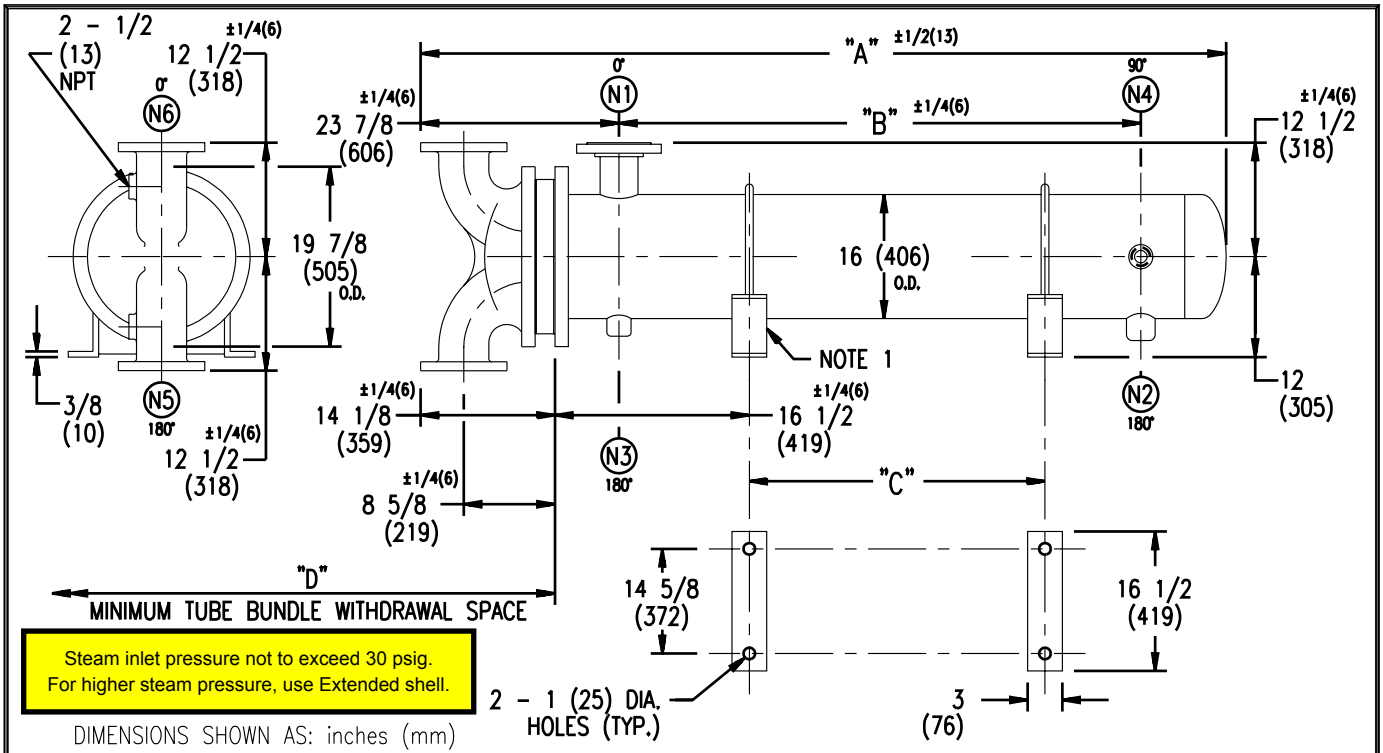
ARMSTRONG®



Steam inlet pressure not to exceed 30 psig.
For higher steam pressure, use Extended shell.

DIMENSIONS SHOWN AS: inches (mm)

EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-163-2-2	51 1/4	1302	19 3/4	502	6	152	38	965	8	203	2 1/2	64
WS-164-2-2	63 1/4	1607	31 3/4	806	18	457	50	1270	8	203	2 1/2	64
WS-165-2-2	75 1/4	1911	43 3/4	1111	30	762	62	1575	8	203	2 1/2	64
WS-166-2-2	87 1/4	2216	55 3/4	1416	42	1067	74	1880	8	203	2 1/2	64
WS-167-2-2	99 1/4	2521	67 3/4	1721	54	1372	86	2184	8	203	2 1/2	64

NOZZLE SCHEDULE

SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	6 (152) FLG
OUTLET	N2	AS PER TABLE	N6	6 (152) FLG
DRAIN	N3	1/2 (13) NPT		
VENT	N4	3/4 (19) NPT		

NOTES:
1. SUPPORTS SUPPLIED ONLY IF SPECIFIED ON ORDER.
2. NOZZLE SIZES SHOWN ARE RECOMMENDED FOR MAXIMUM EXCHANGER LIFE.
3. FABRICATED TO ASME CODE SECTION VIII DIVISION 1 AND LATEST ADDENDA.
4. DRAWING IS NOT TO SCALE.
5. ALL DIMN'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS

	SHELL		TUBES	
DESIGN PRESSURE	150 PSIG	1034 KPa	150 PSIG	1034 KPa
DESIGN TEMPERATURE	375 °F	191 °C	375 °F	191 °C
MIN. DESIGN METAL TEMP.	40 °F	4.4 °C	40 °F	4.4 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	300 PSIG	2068 KPa
CONTENTS	STEAM		WATER	

CUSTOMER:
LOCATION:
ENGINEER:
ORDER No.:
PROJECT/JOB:
LOCATION:
TAG: (QUOTE #)

TITLE: G.A. 150 LB. WS SERIES HEAT EXCHANGERS
DATE: 12 / 01 / 94 BY: D.C.R.

A R M S T R O N G
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NUMBER: WS-16-2P-2-(8)
REV.

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