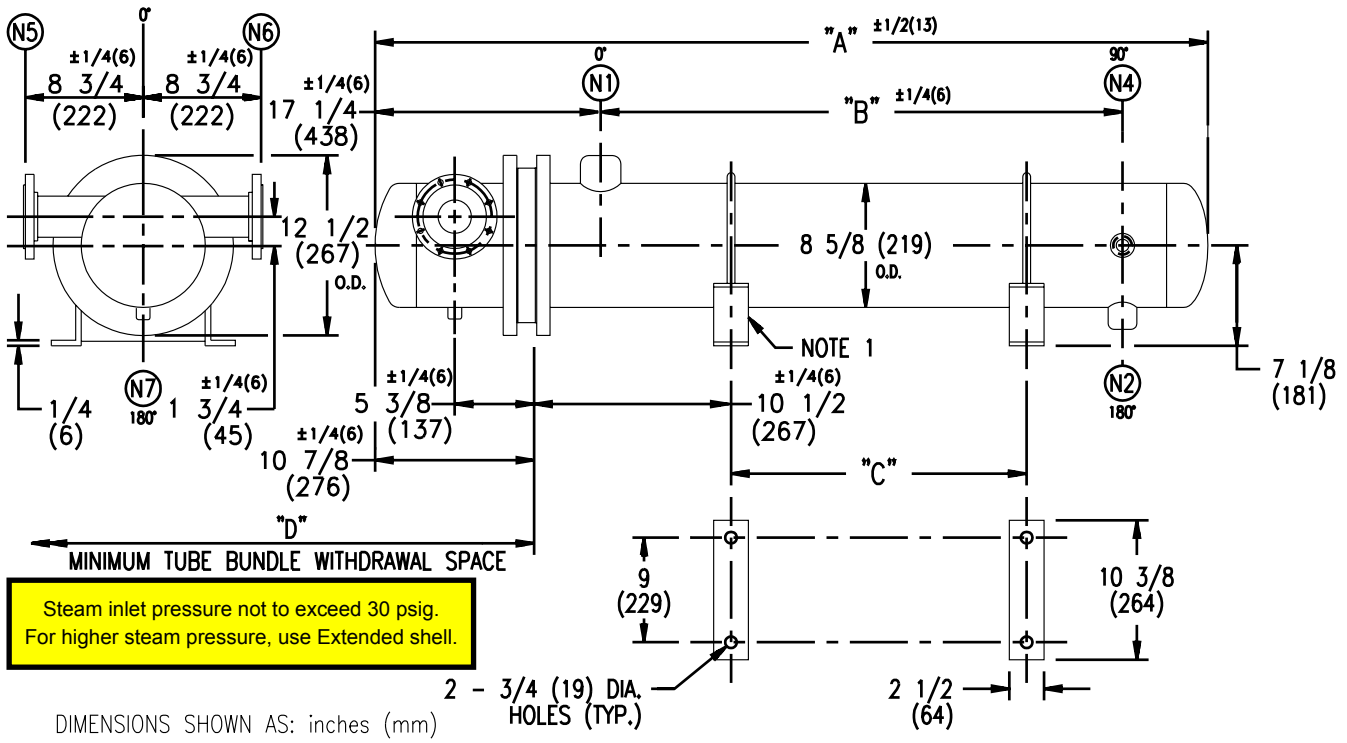
ARMSTRONG®



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-82-4-4	36	914	13	330	4 3/4	121	26	660	2	51	1	25
WS-83-4-4	48	1219	25	635	16 3/4	425	38	965	2 1/2	64	1	25
WS-84-4-4	60	1524	37	940	28 3/4	730	50	1270	3	76	1	25

NOZZLE SCHEDULE

SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	N1	AS PER TABLE	N5	2 (51) FLG
OUTLET	N2	AS PER TABLE	N6	2 (51) FLG
DRAIN			N7	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.	35 °F	1,7 °C	35 °F	1,7 °C
HYDRO. TEST PRESSURE	225 PSIG	1551 KPa	225 PSIG	1551 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
TORONTO - CANADA TEL : (416) 755-2291
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BUFFALO - N. Y. TEL: (716) 693-8813
COLCHESTER - U.K. TEL: (44) 120-657-9491

NUMBER: WS-8-4P-4-(3)
REV.

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