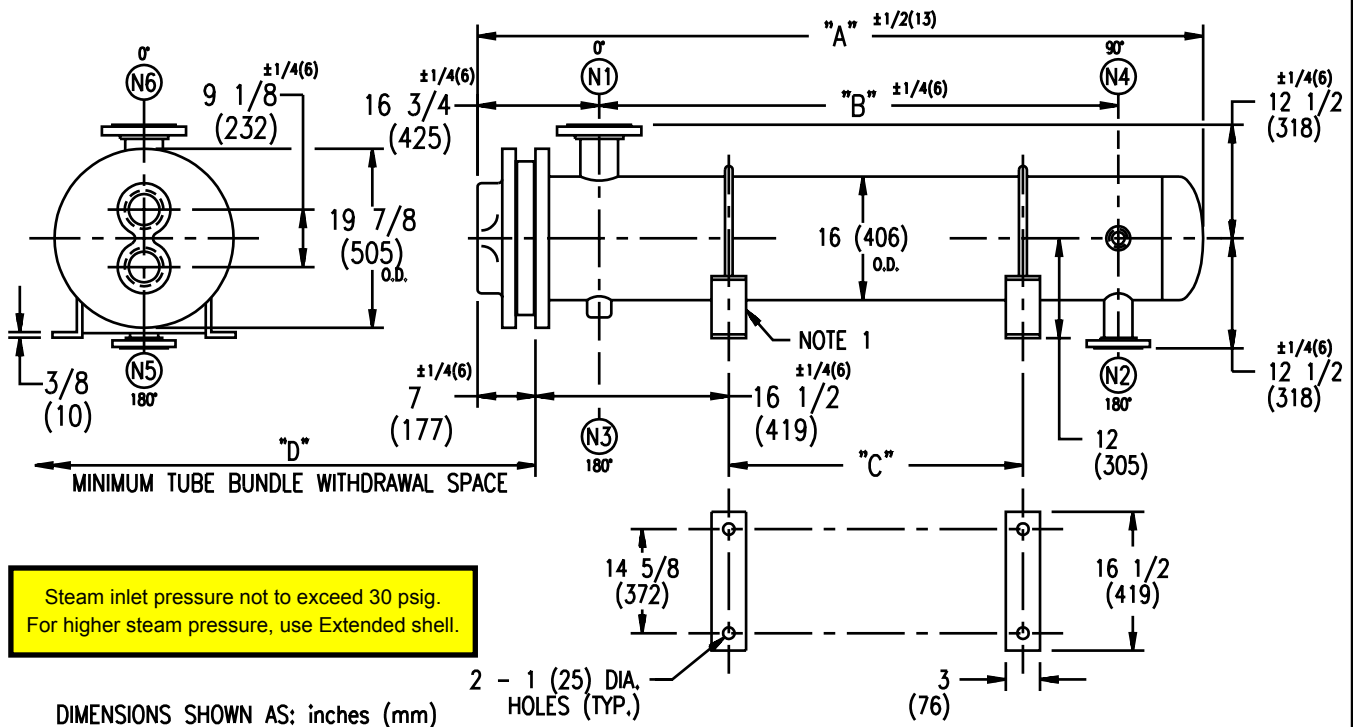


ARMSTRONG®



EXCHANGER SIZE	DIMENSIONS											
	A		B		C		D		N1		N2	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
WS-168-2-1	104 1/8	2651	79 3/4	2026	66	1676	98	2489	10	254	3	76
WS-169-2-1	116 1/8	2956	91 3/4	2330	78	1981	110	2794	10	254	3	76
WS-1610-2-1	128 1/8	3261	103 3/4	2635	90	2286	122	3099	10	254	3	76
WS-1611-2-1	140 1/8	3566	115 3/4	2940	102	2591	134	3404	10	254	3	76
WS-1612-2-1	152 1/8	3870	127 3/4	3245	114	2896	146	3708	10	254	3	76
WS-1613-2-1	164 1/8	4175	139 3/4	3550	126	3200	158	4013	10	254	3	76
WS-1614-2-1	176 1/8	4480	151 3/4	3854	138	3505	170	4318	10	254	3	76
WS-1615-2-1	188 1/8	4785	163 3/4	4159	150	3810	182	4623	10	254	3	76

NOZZLE SCHEDULE				
SERVICE	MARK	SHELL SIDE	MARK	TUBE SIDE
INLET	(N1)	AS PER TABLE	(N5)	6 (152) NPT
OUTLET	(N2)	AS PER TABLE	(N6)	6 (152) NPT
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 DIM'S ±1/8 (3) UNLESS OTHERWISE SHOWN.

DESIGN CONDITIONS				
	SHELL		TUBES	
DESIGN PRESSURE	150 PSIG	1034 KPa	125 PSIG	862 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	250 PSIG	1723 KPa
CONTENTS	STEAM		WATER	

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

TITLE G.A. 150 LB. WS SERIES HEAT EXCHANGERS	A R M S T R O N G				NUMBER WS-16-2P-1(10)	REV.
DATE: 12 / 01 / 94	BY: D.C.R.	TORONTO - CANADA TEL : (416) 755-2291	MONTREAL - CANADA TEL : (514) 421-2424	BUFFALO - N. Y. TEL: (716) 693-8813	COLCHESTER - U.K. TEL: (44) 120-657-9491	