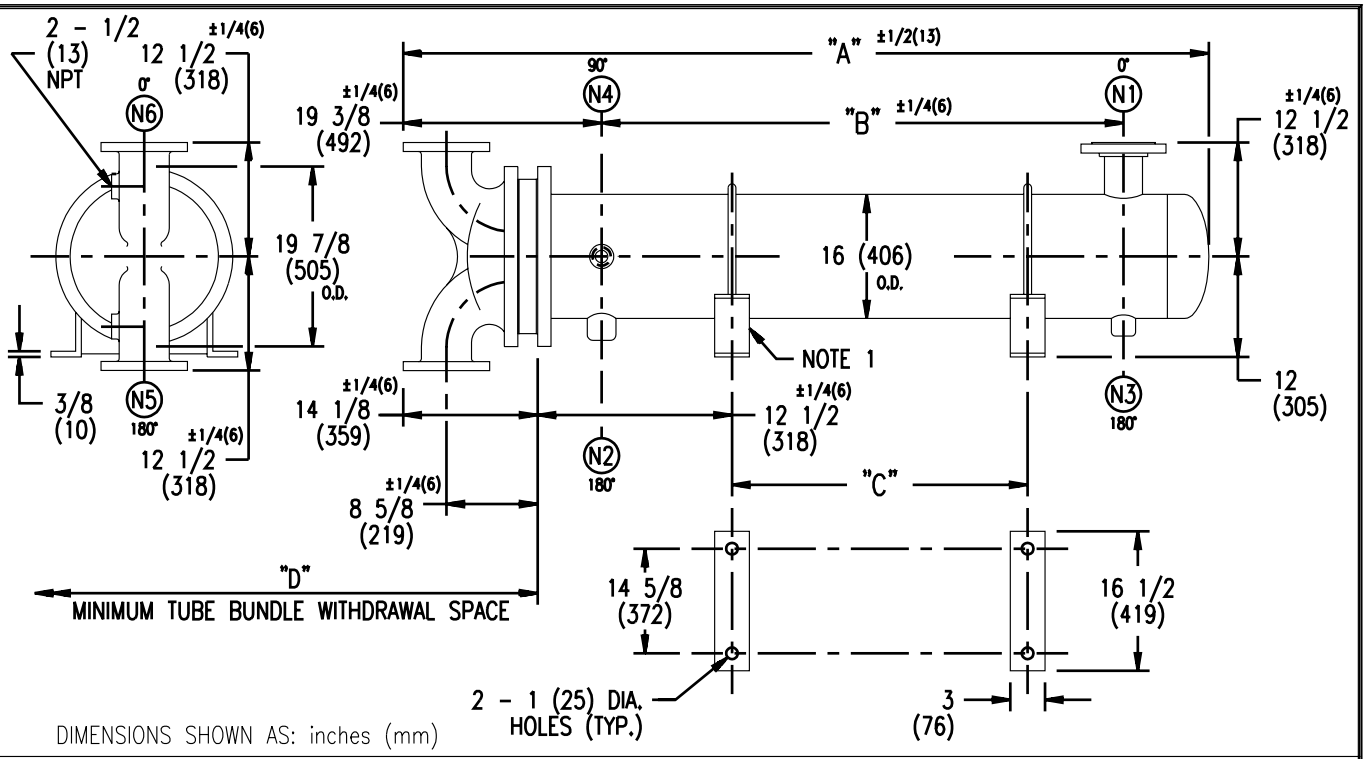
# ARMSTRONG®




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-163-2E2 | 67 1/8 | 1705 | 37 1/4 | 946 | 23 | 584 | 38 | 965 | 8 | 203 | 2 1/2 | 64 |
| WS-164-2E2 | 79 1/8 | 2010 | 49 1/4 | 1251 | 35 | 889 | 50 | 1270 | 8 | 203 | 2 1/2 | 64 |
| WS-165-2E2 | 91 1/8 | 2315 | 61 1/4 | 1556 | 47 | 1194 | 62 | 1575 | 8 | 203 | 2 1/2 | 64 |
| WS-166-2E2 | 103 1/8 | 2619 | 73 1/4 | 1861 | 59 | 1499 | 74 | 1880 | 8 | 203 | 2 1/2 | 64 |
| WS-167-2E2 | 115 1/8 | 2924 | 85 1/4 | 2165 | 71 | 1803 | 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 | ARMSTRONG | NUMBER | REV. |
|---|---|---|---|
| G.A. 150 LB. WS SERIES HEAT EXCHANGERS | 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 | WS-16-2P-E2-(8) | |
| DATE: 12 / 01 / 94 BY: D.C.R. | | | |

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