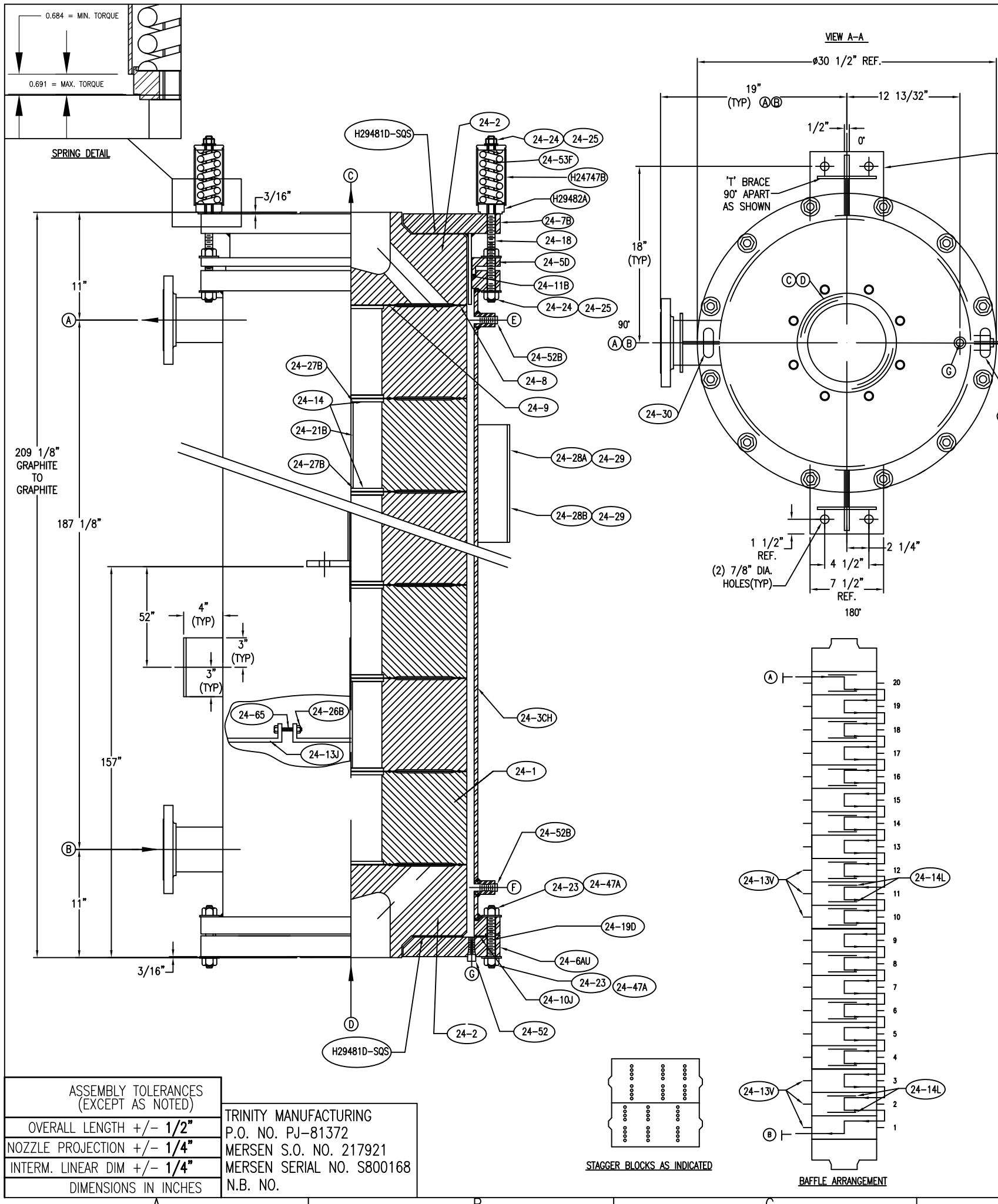




**MERSEN**  
MERSEN USA - Salem Branch  
340 BRANCH DR. SALEM, VA 24153, USA, TEL: (800) 388-7335

TYPE: PB24-20TH-1-2 POLYBLOC H.E.  
CODE: ASME SEC. VIII DIV. 1, 2017 EDITION  
YEAR: 2018 MERSEN REF. 222767 / SA S800277

NET WEIGHT: 7200 LBS. NET WEIGHT IN: 794 FT.  
CUSTOMER ORDER NO.: PJ-95555  
USER EQUIPMENT NO.: - ONE NO. H-2995-1-D

PROCESS: 100PSI 100 100PSI 350  
SERVICE: 100PSI 100 100PSI 350

DESIGN PRESSURE: 100 PSIG/FV  
DESIGN TEMPERATURE: 350° F  
MINIMUM DESIGN TEMPERATURE: -20° F  
CORROSION ALLOWANCE: 1/8"

WALL THICKNESS: 0.3906 DIA.  
RADIUS: 0.3906 DIA.

ASME CODE NAMEPLATE (24-28A)

**MERSEN**  
CERTIFIED BY  
MERSEN USA-SALEM BRANCH

SERIAL NO. 222767  
YEAR BUILT 2018

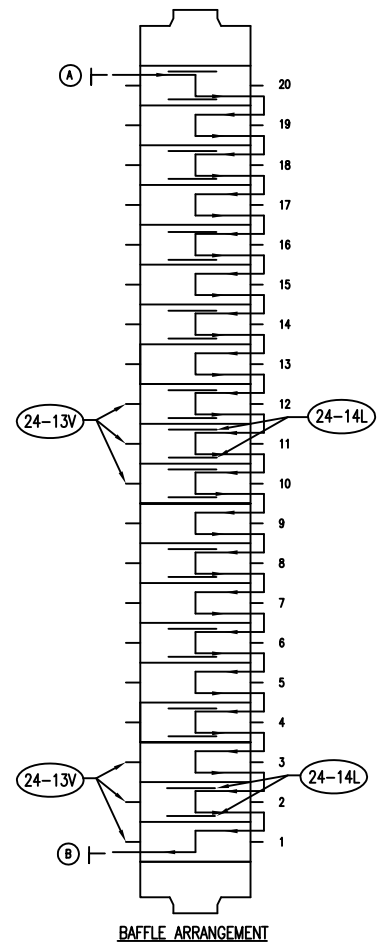
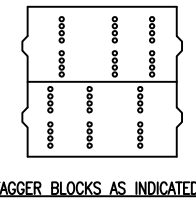
ASME CODE NAMEPLATE (24-28B)

- NOTES:**
- 'STEEL SHELL ONLY' TO BE FABRICATED IN ACCORDANCE WITH ASME CODE SECTION VIII DIV. 1, 2017 EDITION "U" SYMBOL REQUIRED WITH NATIONAL BOARD REGISTRATION.
  - ALL NOZZLE FLANGE BOLT HOLES TO STRADDLE CENTERLINES.
  - DESIGN CONDITIONS:**  
DESIGN PRESSURE: PROCESS SIDE: 100 PSIG/FV  
SERVICE SIDE: 100 PSIG/FV  
ASME HYDRO TEST: 130 PSIG  
DESIGN TEMPERATURE: 350° F  
MINIMUM DESIGN TEMPERATURE: -20° F  
CORROSION ALLOWANCE: 1/8"
  - ESTIMATED WEIGHTS: EMPTY: 7200 LBS.  
FLOODED: 9000 LBS.
  - GRAPHITE BLOCK DATA: TOTAL PROCESS SIDE H.T.A.: 794 SQ. FT.  
DIAMETER: 23.622  
THICKNESS: 9.4491  
AXIAL HOLES: (504) 0.3906 DIA.  
RADIAL HOLES: (336) 0.3906 DIA.
  - SHELL: OUTSIDE DIAMETER: 26  
INSIDE DIAMETER: 25 1/4
  - PAINTING:**  
STANDARD EPOXY SYSTEM PAINT:  
(MAX. 200°F TO 300°F EXTERIOR SURFACE TEMP.)  
SANDBLAST ALL EXPOSED CARBON STEEL SURFACES TO NEAR WHITE FINISH PER SSPC-SP6 AND PAINT WITH PRIMER: SHERWIN WILLIAMS MACROPOXY 646 TO 3.0-5.0 DFT. COLOR: SAFETY BLUE.  
MID-COAT: SHERWIN WILLIAMS MACROPOXY 646 TO 4.0-6.0 DFT. COLOR: SAFETY BLUE  
FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION
  - BOLT TORQUES:**  
PROCESS NOZZLES: 32 FT.-LBS. MAXIMUM  
PACKING GLAND NUTS: 20 FT.-LBS.  
FIXED (BOTTOM) HEAD BOLTS: 60 FT.-LBS.  
FLOATING (SPRING NUTS): SEE DETAIL

| PARTS LIST (MODEL PB24-20PU-1-2) |                       |          |                                      |                                    |
|----------------------------------|-----------------------|----------|--------------------------------------|------------------------------------|
| ITEM NUMBER                      | PART NUMBER           | QUANTITY | DESCRIPTION                          | MATERIAL                           |
| 24-1                             | 14324-30100-05        | 20       | INTERMEDIATE BLOCK                   | GRAPHITE                           |
| 24-2                             | 14324-30200-05        | 2        | HEADER BLOCK                         | GRAPHITE                           |
| 24-3CH                           | H-2679-2-C            | 1        | SHELL ASSEMBLY                       | SA-516 GR 70/SA-105 SA-53 GR B ERW |
| 24-5D                            | H-1520-B              | 1        | FLANGED GLAND                        | SA-516 GR 70                       |
| 24-6AU                           | H-1569-5-B            | 1        | FIXED COMP. PLATE                    | SA-516 GR 70                       |
| 24-7B                            | H-1521-B              | 1        | FLTG. COMP. PLATE                    | SA-516 GR 70                       |
| 24-8                             | LCL 31800             | 20       | OUTER SEAL RING                      | TEFLON                             |
| 24-9                             | LCL 31810             | 20       | INNER SEAL RING                      | TEFLON                             |
| 24-10J                           | H-412-1-D             | 1        | SHELL GASKET                         | 1/2" PTFE BRAID                    |
| 24-11B                           | LCL 31840             | 14 FT.   | SHELL SEAL PACKING                   | 3/8" SQ. PTFE BRAID                |
| H29481D-SQS                      |                       | 2        | 22 3/4" O.D.X13 1/16" I.D.X1/8" THK. | SQS-INERTEX                        |
| 24-13J                           | H-647-B               | 20       | SHELL BAFFLE                         | CARBON STEEL                       |
| 24-14                            | H-193-4-D-6           | 19       | INTERNAL BLOCK BAFFLE                | CARBON STEEL                       |
| 24-18                            | H-193-4-D-3           | 12       | 5/8" UPPER T.R. 16-7/8"              | SA-193 GR B7                       |
| 24-19D                           | H-2416-1-D            | 12       | 3/4" LOWER T.R. 6-3/8"               | SA-193 GR B7                       |
| 24-21B                           | HR-02A-00-18          | 19       | 1/4 BAFFLE T.R. 2-13/16"             | SA-193 GR B7                       |
| 24-23                            | HN-06H-OZ-12-0        | 24       | 3/4 HEX NUT                          | SA-194 GR 2H                       |
| 24-24                            | HN-05G-OZ-12-0        | 36       | 5/8 HEX NUT                          | SA-194 GR 2H                       |
| 24-25                            | HW-050-OZ-CS-0        | 36       | 5/8 FLAT WASHER                      | CARBON STEEL                       |
| 24-26B                           | HN-02A-OZ-12-0        | 19       | 1/4 HEX NUT                          | 304 STAINLESS STEEL                |
| 24-27B                           | HN-02A-OZ-12-B        | 19       | 1/4 JAM NUT                          | SA-194 GR 2H                       |
| 24-28A                           | NP-1001               | 1        | VESSEL NAMEPLATE                     | 302 STAINLESS STEEL                |
| 24-28B                           | NP-1002               | 1        | ASME NAMEPLATE                       | 302 STAINLESS STEEL                |
| 24-29                            | HXDS-N2-TS-00-SS      | 8        | DRIVE SCREW                          | STEEL CAD. PLATED                  |
| 24-30                            | HXEB-06H-100-00-CS    | 2        | EYEBOLT                              | FORGED STEEL                       |
| 24-47A                           | SPW06-S12M131-CS      | 24       | 3/4 FLAT WASHER                      | CARBON STEEL                       |
| 24-52                            | FTPQ-01-00-NPT-00-01  | 1        | 1" PIPE PLUG                         | SA-105                             |
| 24-52B                           | FTPQ-TQ-00-NPT-00-013 | 2        | 3/4" PIPE PLUG                       | SA-105                             |
| 24-53F                           | SPC-31500             | 12       | 31500 COIL SPRING                    | CARBON STEEL                       |
| 24-65                            | 08045-31410-00        | 9        | 1/4 HEX BOLT                         | 304 STAINLESS STEEL                |
| H29482A                          |                       | 12       | LOOSE SPRING WASHER                  | CARBON STEEL                       |
| H24747B                          |                       | 12       | SPRING CAN                           | CARBON STEEL                       |

| NOZZLE SCHEDULE (ANSI B16.5) |      |                   |                      |
|------------------------------|------|-------------------|----------------------|
| MARK                         | SIZE | RATING            | SERVICE              |
| A                            | 4"   | 150 LB. ANSI F.F. | C.W. OUTLET          |
| B                            | 4"   | 150 LB. ANSI F.F. | C.W. INLET           |
| C                            | 8"   | 150 LB. ANSI F.F. | PROCESS OUTLET       |
| D                            | 8"   | 150 LB. ANSI F.F. | PROCESS INLET        |
| E                            | 3/4" | 3/4" 3000#        | SERVICE VENT W/PLUG  |
| F                            | 3/4" | 3/4" 3000#        | SERVICE DRAIN W/PLUG |
| G                            | 1"   | 1" 3000#          | SERVICE DRAIN W/PLUG |

| ASSEMBLY TOLERANCES (EXCEPT AS NOTED)                                                                         |      |
|---------------------------------------------------------------------------------------------------------------|------|
| OVERALL LENGTH +/-                                                                                            | 1/2" |
| NOZZLE PROJECTION +/-                                                                                         | 1/4" |
| INTERM. LINEAR DIM +/-                                                                                        | 1/4" |
| DIMENSIONS IN INCHES                                                                                          |      |
| TRINITY MANUFACTURING<br>P.O. NO. PJ-81372<br>MERSEN S.O. NO. 217921<br>MERSEN SERIAL NO. S800168<br>N.B. NO. |      |



| REV. NO.  | DESCRIPTION | BY | CHK | DATE |
|-----------|-------------|----|-----|------|
| REVISIONS |             |    |     |      |

**MERSEN**

REFERENCES  
TITLE  
DRAWING NO.

TITLE :  
**OVERALL DIMENSIONS MODEL PB24-20TH-1-2  
1 PASS AXIAL, 2PASS RADIAL POLYBLOC H.E.**

DRN. DKB DATE 10/05/18 SCALE : NONE  
CHK. HNL DATE  
APP. DATE

DRAWING NO. H-2995-1-D  
REV 0