



ITEM NO.	QTY REQD	DESCRIPTION	UNIT	SIZE	MATERIAL	SPECIFICATION
18	1	DC 4			DCW CORNING	
4	1	8.02 TUBE			PARKER OR EQUIV/NOTE (2) SEE SPARE PARTS LIST	
17	1	2-1/4" N219-7			O RING	
16	1	M517830-6C			NUT SI HEX 3/8 x 1/2 AF	
15	1	3/8-16 x 6.0 LG			JAW END FITTING, SST, 300 SERIES	
14	1	1/2 IN NPT			RIGHT HAND THREAD	
13	1	1/2 IN NPT			GASKET FLFC 150 LB W/ HOLES	
12	1	1/2 IN NPT			NUT 1/2 IN 304 SS	
11	1	1/2 IN NPT			LUBRICANT THREAD	
10	1	1/2 IN NPT			ANTI-SEIZE 1 LB	
9	1	1/2 IN NPT			BRUSH CAN	
8	1	1/2 IN NPT			VALVE 1/2 IN GATE RS	
7	1	1/2 IN NPT			CONNECTOR PROTECTOR	
6	1	1/2 IN NPT			LIFTING LUG & NUT/JAM	
5	1	1/2 IN NPT			SPIDER	
4	1	1/2 IN NPT			8-6A02104-533 TRANSDUCER	
3	1	1/2 IN NPT			ASSY, TOP FLANGE	
2	1	1/2 IN NPT			8-6002102 SPOOL, UPPER	
1	1	1/2 IN NPT			8-6A021957-1 SPOOL, LOWER	

CONTRACT NO. \_\_\_\_\_

PROJECT \_\_\_\_\_

DESIGN ENGR \_\_\_\_\_

CHECK \_\_\_\_\_

DRAWN BY \_\_\_\_\_

DATE \_\_\_\_\_

SCALE 1/4"

WEIGHT 79.6 D

REV E 103024 8-60021959

ITEM NO. 18

QTY REQD 1

DESCRIPTION DC 4

UNIT

SIZE

MATERIAL

SPECIFICATION

- NOTES
- AMETEK STRAZA DIVISION HAS HAD THIS GENERAL DESIGN OF THE SEA CHEST ASSEMBLY REVIEWED AND APPROVED BY THE FOLLOWING AGENCIES UNDER AMETEK STRAZA PART NUMBER 8-60021959: NIPPON KAIKI KYOKAI, LLOYDS REGISTER OF SHIPPING, DET NORSKE VERITAS. APPROVAL FOR THE FINAL INSTALLATION PLAN MUST BE OBTAINED BY THE CUSTOMER OR SHIPYARD FROM THE APPROPRIATE COGNIZANT AGENCY(IES) FOR EACH SHIP TO BE OUTFITTED.
  - THE 8-6A021957 (BASIC) SEA CHEST IS DESIGNED TO FIT THE R/V GYRE, CENTERED BETWEEN FRAMES 15 AND 16, AND CENTERED 25 INCHES NOMINAL FROM THE SHIP'S CENTERLINE. 32" FIX THE HEIGHT OF LOWER SPOOL PIECE SO THE 10" GATE VALVE STEM CENTERLINE IS 48" ABOVE SHIP'S BASELINE.
  - PRIOR TO WELDING THE LOWER SPOOL INTO THE HULL, ORIENT THE BOLT HOLE PATTERN SUCH THAT THE GATE VALVE HANDLE AND EXTENDED STEM WILL CLEAR BULKHEADS, BOW THRUSTER MECHANICAL PARTS, ETC.
  - FLANGE SURFACE OF THE LOWER SPOOL TO BE LEVEL WITHIN 1" IN ALL PLANES.
  - LOCATE PLATE EYE DIRECTLY OVER CENTERLINE OF THE SEA CHEST.
  - THESE ITEMS TO BE FURNISHED BY CUSTOMER OR SHIPYARD, THEY ARE NOT FURNISHED AS PART OF THE SEA CHEST.
  - ITEMS 1, 2, AND 3 ARE FURNISHED PAINTED WITH RED OXIDE PRIMER. CUSTOMER OR SHIPYARD TO FURTHER PAINT AS REQUIRED FOR CORROSION PROTECTION REQUIREMENTS.
  - TORQUE 7/8 IN HEX NUTS TO 1100 TO 1500 INCH-POUNDS (12.5 TO 17.3 KILOGRAM-METERS).
  - THESE SURFACES TO BE ALIGNED WITHIN 0.03 INCHES TO ALLOW FREE ACCESS OF TRANSDUCER.
  - REMOVE PIPE PLUG AND INSTALL PIPE. NOTE: PIPE MUST NOT EXTEND INTO INSIDE OF SPOOL.
  - COAT ITEM 17 O-RINGS WITH ITEM 18 SILICONE GREASE PRIOR TO INSTALLATION. COAT ALL THREADS WITH ITEM 11 THREAD LUBRICANT, DURING AND AFTER INSTALLATION FOR EASE OF ADJUSTMENT AND DISASSEMBLY.
  - COAT GASKET SEALING SURFACES WITH ITEM 11 THREAD LUBRICANT.
  - REFER TO SYSTEM MANUAL FOR DETAILED INSTRUCTIONS FOR TRANSDUCER INSTALLATION.
  - ITEMS 7, 8, 9, 10, 11, 12, 13, 14, 15, AND 16 ARE TO BE INSTALLED AFTER TRANSDUCER, SLIDE ITEM 7 ONTO CABLE AS SHOWN. AFTER CONNECTING CABLE CONNECTOR TO TRANSDUCER, SLIDE ITEM 7 OVER TRANSDUCER CONNECTOR AND SCREW ONTO THE TRANSDUCER STEM.
  - SHIPYARD TO PROVIDE FAIRING AROUND LOWER SPOOL TO SMOOTH WATER FLOW.

CROSS SECTION LOOKING AFT

**AMETEK**  
 STRAZA DIVISION 7790 GREENFIELD DRIVE, E. CAYEN, CA 95022

PROJECT 17-28

DESIGN ENGR 1/1/78

CHECK 1/1/78

DRAWN BY 1/1/78

DATE 1/1/78

SCALE 1/4"

WEIGHT 79.6 D

REV E 103024 8-60021959

ITEM NO. 18

QTY REQD 1

DESCRIPTION DC 4

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