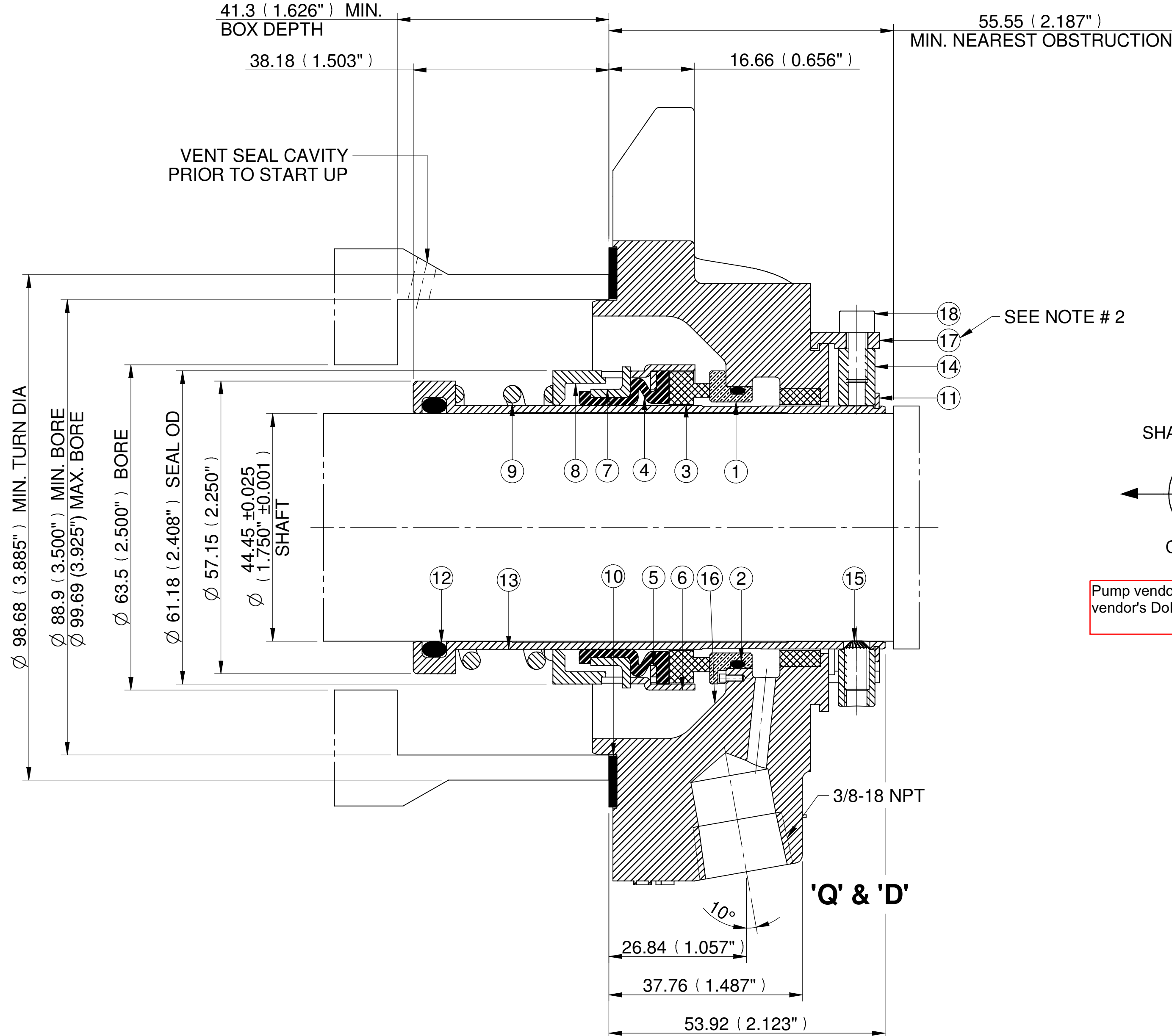


NOTE:  
CAST GLAND PLATE DESIGNED TO FIT COOLING JACKETS ON STANDARD PUMPS



VENT SEAL CAVITY PRIOR TO START UP

SEE NOTE # 2

SHAFT ROTATION  
CLOCKWISE

Pump vendor to ensure seal vendor's DoR is accurate

NOTE:  
1.REFER TO JOHN CRANE SEAL AND INSTALLATION INSTRUCTIONS - FOR RECOMMENDED PRACTICE

2."SPACER (ITEM # 17) IS ONLY FOR THE PURPOSE OF PROPERLY LOCATING SEAL. AFTER GLAND PLATE, BEARING, SHAFT AND SEAL ARE LOCKED IN PLACE, SPACER MUST BE REMOVED BEFORE STARTING UNIT."

3.COOLING RECOMMENDATION: PROVIDE A FLUSH OF SUITABLE LIQUID TO THE SEAL

4.ALL DIMENSIONS ARE IN MM & DIMENSIONS IN ( ) ARE IN INCHES UNLESS OTHERWISE STATED.

5.ONLY PARTS ITEMIZED TO BE SUPPLIED BY JOHN CRANE.

END VIEW  
CAST GLAND PLATE

END VIEW  
MACHINED GLAND PLATE

FOR ALTERNATE ARRANGEMENTS  
SEE THE FOLLOWING DRAWINGS

|                                      |           |
|--------------------------------------|-----------|
| SINGLE O-RING SEAL                   | HSP-38067 |
| RUBBER BELLOWS SEAL                  | HSP-38071 |
| METAL BELLOWS SEAL                   | HSP-38073 |
| O-RING SEAL W/QUENCH                 | HSP-38068 |
| RUBBER BELLOWS W/QUENCH              | HSP-38072 |
| METAL BELLOWS W/QUENCH               | HSP-38074 |
| DUAL O-RING SEAL                     | HSP-38069 |
| DUAL METAL BELLOWS                   | HSP-38075 |
| DUAL METAL BELLOWS WITH PUMPING RING | HSP-38076 |
| DUAL O-RING SEAL WITH PUMPING RING   | HSP-38070 |

**TAG # 19-P-055 A/B**

\*\*  
D-1875-121 CARBON  
D-1875-819 MACHINED  
D-1876-247 P90

\*\*\*  
4090 316 S.S.  
2021 MONEL  
0481 18-8 S.S.

\*\*\*\*  
H-1751-824 CAST GLAND PLATE ASSEMBLY  
H-1751-911 MACHINED GLAND PLATE ASSEMBLY

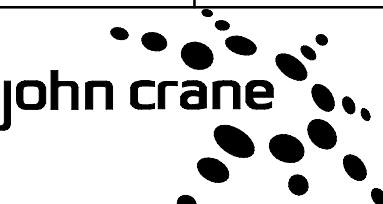
WARRANTY APPLIES TO  
DIMENSIONAL DATA ONLY -  
COMPLETE SERVICE DATA WAS  
NOT SUPPLIED

|                 |             |                          |        |
|-----------------|-------------|--------------------------|--------|
| SEAL ASS'Y NO.  |             | BILL OF MATERIALS NUMBER |        |
| IN : D-1876-957 | ASSEMBLY    | 1-18                     |        |
|                 | SEAL HEAD   |                          |        |
| OUT:            | SPARES KIT  |                          |        |
|                 | DESCRIPTION | ITEMS                    | NUMBER |

|  |                      |   |  |
|--|----------------------|---|--|
| EQUIPMENT REFERENCE                            |                      | SEAL DATA                               |  |
| OEM:   | API PLAN:<br>Plan 03 | API CODE:                               |  |
| EQUIPMENT TYPE:                                |                      | INSTRUCTION MANUAL REF.                 |  |
| MODEL, FRAME / SIZE GRISWOLD 811 M 4x3-8 (A70) |                      | MATERIAL CODE: X1 058 1 X 058 1 316/316 |  |
| SERIAL / DRAWING No.                           |                      |   |  |

|   |                |  |                   |
|---|----------------|--|-------------------|
| CUSTOMER INFORMATION                                    |                | SERVICE DATA                             |                   |
| CUSTOMER:   |                | FLUID: WATER, WASTE                      |                   |
| P.O. NUMBER:  | PLANT ITEM NO: | BARRIER FLUID: NOT APP.                  |                   |
| END USER:   |                | CHAMBER PRESSURE: 6.6 PSIG               |                   |
| LOCATION:   |                | SUCTION PRESSURE: 0.0 PSIG               |                   |
| PLANT:  |                | DISCHARGE PRESSURE: 22.1 PSIG            |                   |
| REFERENCE DATA:   |                | PROCESS TEMPERATURE: 90-120 DEG F        |                   |
| SEAL FLUSH RATE:<br>FLUID SYSTEM DRG:<br>I/PROJECTS NO: |                | SHAFT SPEED: 1,750 RPM<br>Variable Speed | VAPOUR PRESSURE:  |
|   |                | SPECIFIC GRAVITY: 1.00                   | VISCOSITY: 1.0 CP |
| SEAL SIZE: Ø1.750"                                      |                | DE / NDE DRG NO:                         |                   |
| SEAL TYPE: 5611Q SINGLE CARTRIDGE (BIG BORE)            |                |  |                   |

|                |                |              |                |                 |                        |
|----------------|----------------|--------------|----------------|-----------------|------------------------|
| SCALE<br>1.6:1 | DATE<br>091096 | DRAWN<br>SKN | CHECKED<br>TJS | APPROVED<br>JWH | DESIGN AUTH.<br>US01EN |
|----------------|----------------|--------------|----------------|-----------------|------------------------|



DRAWING No.  
**HSP-38072**

**B**