



A NEW STANDARD IN QUALITY & SERVICE

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[www.3sgaskets.com](http://www.3sgaskets.com)

# MISSION



TO BE THE PREMIER SUPPLIER OF HIGH QUALITY GASKETS IN THE INDUSTRIAL MARKET. WE WILL PROVIDE VALUE ADDED SERVICES TO OUR CUSTOMERS THROUGH QUICK RESPONSE, COMPETITIVE PRICING AND SUPERIOR FLUID SEALING PRODUCTS.



# OUR PRODUCTS



## SPIRALWOUND GASKETS

| STYLE                 | DESCRIPTION  |
|-----------------------|--|
| S                     | SPIRAL ONLY  |
| SI                    | SPIRAL WITH INNER RING                                 |
| GS                    | SPIRAL AND OUTER RING                                  |
| GSI                   | SPIRAL WITH INNER AND OUTER RING                       |
| GSI-LL                | LOW LOAD SPIRAL WITH INNER AND OUTER RING              |
| GSI-HF                | SPIRAL FOR HF TYPE APPLICATIONS                        |
| GSI-HTG               | SPIRAL FOR HIGH TEMPERATURE APPLICATIONS               |
| GSI / GS<br>– KP-3 RJ | SPIRAL TO SEAL DAMAGED RTJ GROOVES – RF TO RTJ FLANGES |
| MW /<br>MWI           | SPIRAL FOR BOILER DOOR APPLICATIONS                    |

## OTHER SEALING PRODUCTS

|                                |
|--------------------------------|
| PTFE SHEET IN VARIOUS FORMS    |
| NON-ASBESTOS SHEET – NA-3S     |
| GRAPHITE SHEET – STYLE GF & GT |

## KAMMPROFILE GASKETS

| STYLE | DESCRIPTION                                      |
|-------|--|
| KP-1  | KAMMPROFILE RING FOR HEAT EXCHANGER APPLICATIONS |
| KP-2  | KAMMPROFILE WITH AN INTEGRAL OUTER RING          |
| KP-3  | KAMMPROFILE WITH LOOSE FITTING OUTER RING        |

## CORRUGATED METAL GASKETS

| STYLE | DESCRIPTION                           |
|-------|---------------------------------------|
| CMS   | CORRUGATED FOR STANDARD SIZED FLANGES |
| CMH   | CORRUGATED FOR HEAT EXCHANGERS        |

## DOUBLE JACKETED

| STYLE | DESCRIPTION                   |
|-------|-------------------------------|
| DJS   | DJ FOR STANDARD SIZED FLANGES |
| DJH   | DJ FOR HEAT EXCHANGERS        |

# TECHNICAL SERVICE SUPPORT



- Gasket Recommendation
- Design Assistance
- Drawings
- Torque Calculations
- Customer Training

### Torque Calculator

(ASME PCC-1-2013 / Appendix O)

|                     |              |
|---------------------|--------------|
| Customer Name       | Euson        |
| Customer Contact    | Cliff Hay    |
| Equipment Reference | E-4534       |
| Gasket Position     | Shell Gasket |

|                   |                       |
|-------------------|-----------------------|
| 3S Drawing Number | 3SGSKTRT20181008-01   |
| Gasket Style      | Kamm KP-1, KP-2, KP-3 |
| Gasket "m" value  | 2.5                   |
| Gasket "y" value  | 2500                  |
| Gasket ID         | 59.00                 |
| Gasket OD         | 61.00                 |
| Gasket Shape      | Ring                  |

|                            |           |
|----------------------------|-----------|
| Bolt Grade                 | B7/L7     |
| K Factor                   | 0.17      |
| Bolt Diameter              | 1.314 in  |
| Number of Bolts            | 48        |
| Minimum Bolt Stress        | 31500 psi |
| Selected Bolt Stress (O-T) | 63000 psi |
| Maximum Bolt Stress        | 78750 psi |

|   |              |            |
|---|--------------|------------|
| <b>Gasket Stress (Sgt)</b>                    | <b>31749</b> | <b>psi</b> |
| Minimum Required Gasket Stress (Sg min-c)     | 20000        | psi        |
| Minimum Gasket Stress in Operation (Sg min-o) | 14000        | psi        |
| Maximum Gasket Stress (Sg max)                | 55000        | psi        |

|                     |             |                   |             |
|---------------------|-------------|-------------------|-------------|
| <b>Torque (D-2)</b> | <b>3091</b> | <b>Ft-lb</b>      |             |
| 1st Pass            | 773         | 2nd Pass          | 545         |
| 3rd Pass            | 2316        | <b>Final Pass</b> | <b>3091</b> |

|      |      |  |
|------|------|--|
| 0-4  | TRUE | Minimum / Maximum Stress                     |
| 0-5  | TRUE | Bolt Stress - Upper Bolt Limit Controlled    |
| 0-6  | TRUE | Bolt Stress - Lower Bolt Limit Controlled    |
| 0-7  | TRUE | Bolt Stress - Flange Limit Controlled        |
| 0-8  | TRUE | Gasket Assembly Seating Stress is Controlled |
| 0-9  | TRUE | Gasket Operating Seating Stress is Achieved  |
| 0-10 | TRUE | Gasket Maximum Stress is Maintained          |
|      | TRUE | Flange Rotation Limit is not Exceeded        |

DATE: 11/02/18

SHEET: 1 of 1

REV 0

**3S SUPERIOR SEALING SERVICES**

CUSTOMER:

EQUIPMENT:

GASKET TYPE: 3" 2500lb KP3-RJ

DRAWN BY: RT

APPROVED BY: KA

DRAWING NUMBER: 3SGSKTRT20181102-0

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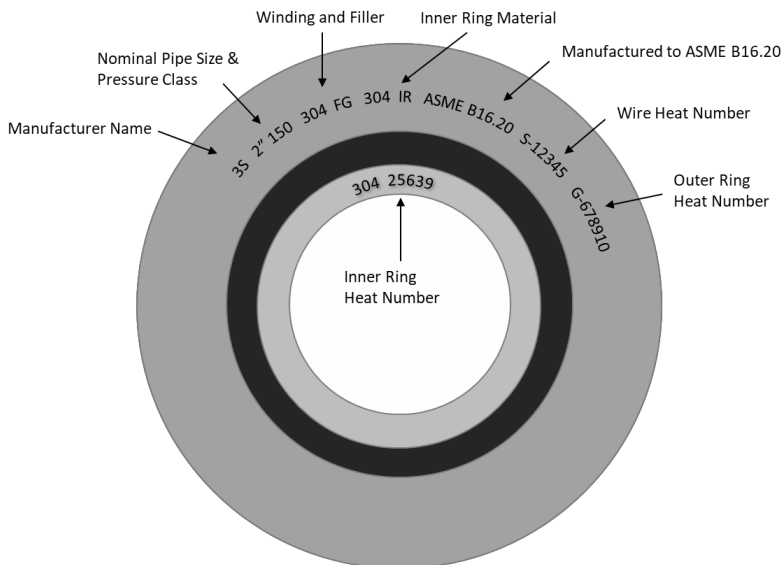
# QUALITY & COMPONENT TRACEABILITY



- SUPERIOR GRADE INHIBITED GRAPHITE ON ALL STANDARD AND NON-STANDARD SEMI-METALLIC GASKETS.
- CONTINUOUS TESTING IS PERFORMED ON OUR GASKETS TO ENSURE THEY COMPLY WITH RELEVANT STANDARDS.
- FULL TRACEABILITY ON ALL SEMI-METALLIC GASKETS – STAINLESS/ ALLOY COMPONENTS.
- CUSTOMER ACCESS TO THEIR MTRS THROUGH [www.3sgaskets.com](http://www.3sgaskets.com).



## FULL TRACEABILITY





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