

Gaskets for Clamp Connections

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|------------------------------------|---|
| Material | EPDM, PTFE, Silikon (VMQ), Viton® (FKM), PTFE/FKM, Tuf Flex® ¹⁾ , Tuf Steel® ¹⁾ |
| Dimensions | Imperial: 1/4" - 6" ISO: 13,50 - 114,30 mm Metric: 6,00 - 154,00 mm |
| Technical Terms of Delivery | DIN 32676, ASME BPE, U.S. Pharmacopeia Class VI Certification, FDA, Animal derived ingredients free (ADI) |
| Durability | Please see durability table |
| Surface | Cleaned, free of oil and fat according to DW cleaning specification |
| Quality control | Verification of manufacturer documentation Verification of dimensions Visual control |
| Marking | Laser engraved |
| Marking information | Subject to technical realization the gaskets are permanently marked with the following information in the order stated below: 1. Dockweiler (DW) and Dockweiler number 2. Material 3. Dimension 4. Flange size |
| Documentation | According to pharmaceutical standards |
| Packing options | Single packed, multiple packing: 10, 25, 50 pcs./package |
| Label | Logo Dockweiler number Batch / Barcode Material Dimension Flange size |

¹⁾ Available only in imperial dimensions

| Material acc. to ASTM D1418 | | Tuf-Steel® | Tuf-Flex® | PTFE/FKM | PTFE | SILICONE Platinum Cured | FKM Fluoro-elastomer | EPDM Peroxide Cured |
|-----------------------------|------------------------|---|--|---|--|----------------------------------|---|--|
| Application | | pharmaceutical applications, ultrapure water and critical food and beverage processes | pharmacy, biotechnology, ultrapure water, WFI and critical food and beverage processes | food and pharmaceutical applications, pharmacy, biotechnology | pharmacy, biotechnology, ultrapure water | pharmacy, biotechnology | general use for process equipment in pharma and biotechnology | general use for process equipment, not recommended for SIP |
| Comment | | stable to temperature variations, no flow properties like PTFE | full seal effect even in case of wide temperature variations | extended service life due to inert PTFE coat | long service life, not recommended wide temperature variations | very flexible even a temperature | flexible even at low temperatures, suitable for many solvents | suitable for low pressure steam |
| Material | | composite of stainless 316L and PTFE | PTFE grafted onto an inner EPDM core | FKM with PTFE coat | Perfluor-Ethylene | platinum-cured silicone | Perfluor-Rubber | Ethylene-Propylene-Diene-Rubber |
| Temperature variations | | + | ++ | (+) | - | + | + | + |
| Continuous Steam | ++ | ++ | ++ | ++ | + | ++ | ++ | |
| Unpolar solvents | | ++ | ++ | ++ | ++ | - | ++ | - |
| Polar solvents | | ++ | ++ | ++ | ++ | - | - | + |
| Acid + active Oxygen | | ++ | ++ | ++ | ++ | + | + | + |
| Acid | | ++ | ++ | ++ | ++ | + | + | + |
| Alkaline | | ++ | ++ | ++ | ++ | - | + | + |
| Steam Cycles | | 100 | 100 | | | | | |
| Compound number | | | | | | 296 | | CPO-196A |
| „Tensile Strength“ | Bar PSI | 133 1928 | 0 | 0 | 0 | 48 700 | 0 | 138 2000 |
| „Elongation at break“ | % | 270 | 160 | 150 | 150 | 800 | 200 | 400 |
| Hardness | Shore A | 68 | 82 | 45 | 45 | 65-75 | 80 | 70±5 |
| Density | g/cm3 | 3,45 | 1,28 | 1,90 | 2,10 | 1,20 | 1,85 | 1,25 |
| Compression Set | % hours T / °C/F | 5 24 175/347 | 7 24 150/302 | 15 24 175/347 | 18,5 70 200/392 | 20 24 175/347 | 13 24 175/347 | 10 24 150/302 |
| „Temperature range / °C“ | Min Max | -70 260 | -70 180 | -60 180 | -15 230 | -60 200 | -20 210 | -40 140 |
| „Temperature range / F“ | Min Max | -94 500 | -94 356 | -76 356 | 5 446 | -76 392 | -4 410 | -40 284 |

++ excellen
+ good
(+) satisfactory
- moderate
- not suitable

Please note: Dockweiler AG does not take any liability for improper use
Table is subject to change without notice