

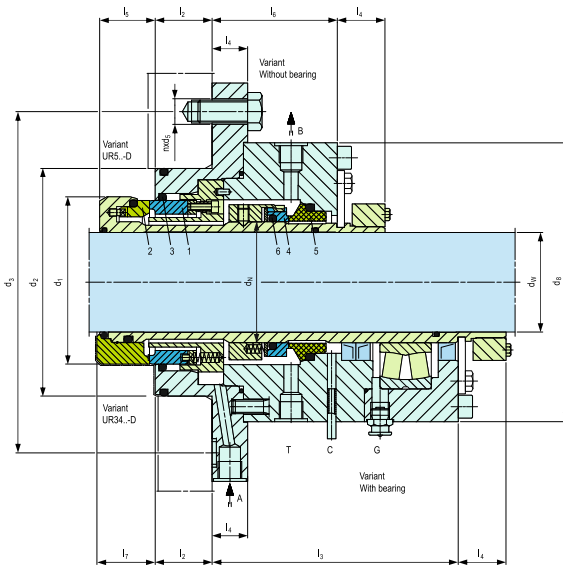
sealmatic[®]

Sealmatic Delivers Special URD Seals For Caprolactam Application To Honeywell Inc (Virginia) On A Rodney Hunt Equipment

AdvanSix's Hopewell facility is one of the world's largest single-site producers of caprolactam, the primary feedstock in the production of nylon polymer used in carpet fibers, plastics and films. The plant also produces a wide range of chemical intermediates, including Nadone® cyclohexanone, Naxol® cyclohexanol, sulfuric acid, specialty oximes, ammonia and carbon dioxide.

Equipment reliability for caprolactam with 99% concentration places a very high demand on the functioning of a mechanical seal, which needs to take into account heavy-duty operations under arduous conditions.

Sealmatic delivered its very robust design of the URD series mechanical seal to meet these challenges at the Honeywell plant in Virginia.



Performance Capabilities

Sizes: $d_N/d_w =$ Upto 200 (500) mm
(Upto 7.875" (20.00"))

Axial offset shaft/housing:

$d_N/d_w 30... 60\text{mm}$ (1.18"...2.36"): max. $\pm 1.5\text{mm}$
(0.059")

$d_N/d_w > 60\text{ mm}$ (2.36"): max. $\pm 2.0\text{ mm}$ (0.079")
Radial offset shaft/housing: max. $\pm 0.3\text{ mm}$
(0.012")

Pressure:

p_1 (media) = vacuum...14 (23) bar (203
(334 PSI))

p_3 (buffer fluid) = max. 16 (25) bar (232
(363 PSI))

$\Delta p_3 > p_1 =$ min. 2 bar (29 PSI), max. 10 bar
(145 PSI)

Temperature:

t_1 (media) = -20 °C ... +200 (300) °C
(-4 °F ... +392 (572) °F)

Speed = 20 m/s (66 ft/s)

API SPEC Q1 . API . ISO 9001:2015 . EU 1935:2004 . ATEX - 2014/34/EU . ISO 9001:2015 . ISO 14001:2015 . BS-OHSAS 18001:2007 . PED-CE

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