NUY SINGLE SEALS

Standard Cartridge Metal Bellows Seals



Typical Industrial Applications

Refining technology Petrochemical industry Hot media Cold media Highly viscous media Pumps Special rotating equipment

Materials

Seal face: Carbon graphite antimony impregnated (A), Silicon carbide (Q1) Seat: Silicon carbide (Q1) Secondary seals: FKM (V), EPDM (E), FFKM (K) Bellows: Inconel® 718 (M6) Metal parts: CrNiMo steel (G), Duplex (G1) Throttle ring: PTFE carbon graphite reinforced (T12) Lip seal: NBR (P), PTFE carbon reinforced (T3)

Performance Capabilities

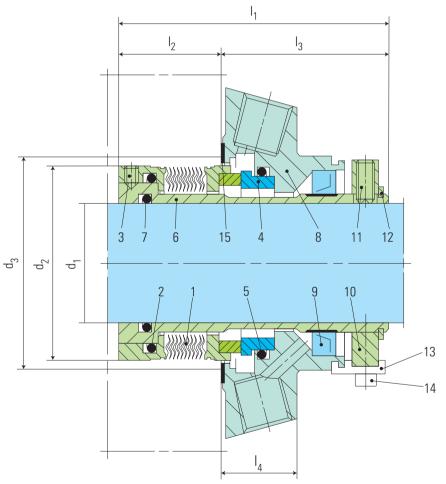
Shaft diameter: $d_1 = 25 \dots 80 \text{ mm} (1" \dots 3.15")$ Temperature: t^*) = -40 °C ... + 220 °C (- 40 °F ... + 428 °F) Pressure: p = 25 bar (363 PSI) *)Operating limits of O-rings to be observed

Product Description

- 1. Single seal configuration
- 2. Balanced design
- 3. Independent of direction of rotation
- 4. Cartridge construction
- 5. Metal bellows design
- Single seal with quench and lip seal (-QN) or throttle ring (-TN)
- 7. Connections for flush and quench available
- Multipoint injection ring design for (-QNM, -TNM)

Technical Features

- 1. Ideal for use in process pump standardization
- Dimensional modification of the stuffing box chamber is not required due to short radial installation height
- 3. Ideal to convert and retrofit pumps with packings and large volume OEM production
- 4. Cartridge unit factory assembled for easy installation, which reduces down-time
- 5. Rugged design for long operating life
- 6. Bellows design efficiently ensure self-cleaning
- 7. Suitable for high temperature applications



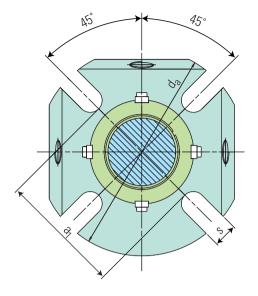
Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their ssembly procedure.

ltem	Description						
1	Bellows unit						
2, 5, 7	O-ring						
3, 11	Set screw						
4	Seat						
6	Shaft sleeve						
8	Cover						

ltem	Description						
9	Lip seal (-ΩN) or throttle ring (-TN)						
10	Drive collar						
12	Retaining ring						
13	Assembly fixture						
14	HSH Cap Screw						
15	Gasket						



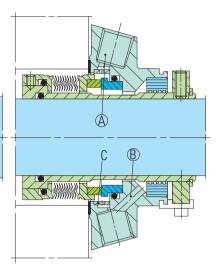
Installation, Details, Options



Single seal, as MTX-QN with additional multipoint

MTX QNM

njection ring (item C).



MTX TNM

Single seal, as MTX-TN with additional multipoint njection ring (item C).

Dimensional Data Dimensions in millimeter													
25	45.0	47.0	51.0	79.5	26.1	53.4	25.4	105.0	62.0	13.2			
30	49.4	52.0	56.0	78.4	25.0	53.4	25.4	105.0	67.0	13.2			
32	52.3	54.5	57.0	78.4	25.0	53.4	25.4	108.0	70.0	13.2			
33	52.3	54.5	57.0	78.4	25.0	53.4	25.4	108.0	70.0	13.2			
35	54.8	58.0	61.5	78.4	25.0	53.4	25.4	113.0	72.0	13.2			
38	57.5	60.0	66.0	78.4	25.0	53.4	25.4	123.0	75.0	13.2			
40	58.8	62.0	68.0	78.2	24.8	53.4	25.4	123.0	77.0	14.2			
43	61.9	64.5	70.5	78.4	25.0	53.4	25.4	133.0	80.0	14.2			
45	65.0	68.5	73.0	78.4	25.0	53.4	25.4	138.0	82.0	14.2			
48	68.4	71.0	75.0	78.7	25.3	53.4	25.4	138.0	85.0	14.2			
50	70.0	73.0	78.0	79.1	25.7	53.4	25.4	148.0	87.0	14.2			
53	71.9	75.0	87.0	77.8	24.4	53.4	25.4	148.0	97.0	18.0			
55	74.6	77.0	83.0	78.9	25.5	53.4	25.4	148.0	92.0	18.0			
60	83.9	87.0	91.0	80.1	26.7	53.4	25.4	157.0	102.0	18.0			
65	87.5	90.0	98.5	80.0	26.6	53.4	25.4	163.0	109.3	18.0			
70	93.0	98.0	108.0	81.5	28.1	53.4	25.4	178.0	118.3	18.0			
75	96.8	101.6	118.0	94.4	30.5	63.9	28.0	190.0	129.0	18.0			
80	104.7	108.0	124.0	94.4	30.4	64.0	28.0	195.0	135.0	18.0			

Note: Additional technical & dimensional information will be provided on request.

Product Variants