

VH054 Single Seals Standard Mechanical Seals - Elastomer Bellows Seals



Product Description

1. Single seal configuration
2. Unbalanced design
3. Independent of direction of rotation
4. For plain shafts
5. Rotary elastomer bellows design

Technical Features

1. Low cost seal solution
2. Suitable for mild sterile applications
3. No damage to the shaft
4. Can be employed for low solids content
5. Multifaceted application usage

Typical Industrial Applications

Food and beverage industry	Cooling fluids
Multi-stage pumps (non-drive side)	Circulating pumps
Media with low solids content	Oil applications
Pressure oils for bio diesel fuels	
Water and waste water technology	Chemical industry
Water and waste water pumps	Submersible pumps

Performance Capabilities

Shaft diameter: $d_1 = 10 \dots 100 \text{ mm}$ (0.375" ... 4")
 Pressure: $p_1 = 12 \text{ bar}$ (174 PSI),
 vacuum up to 0.5 bar (7.25 PSI), up to 1 bar (14.5 PSI)
 with seat locking
 Temperature: $t = -20 \text{ }^\circ\text{C} \dots +140 \text{ }^\circ\text{C}$ (-4 °F ... +284 °F)
 Speed = 10 m/s (33 ft/s)
 Axial movement: $\pm 0.5 \text{ mm}$

Notes

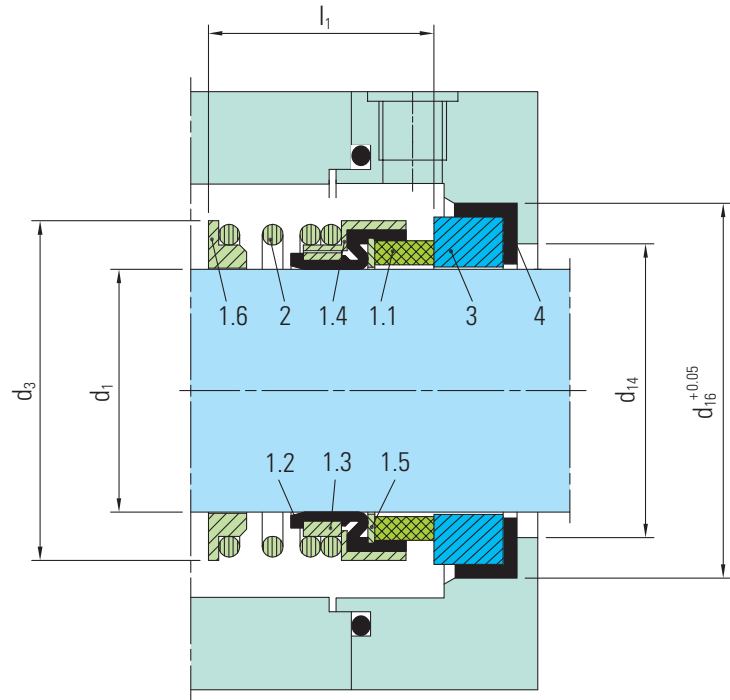
A modular principle comprising a bellows unit for each shaft diameter and a corresponding cylindrical spring for individual length compensation to l_1 installation length.
 UG943can also be used as a multiple seal in tandem or in a back-to-back arrangement.
 The entire UG943 series is available in metric and inch sizes.

Standards

EN 12756
 FDA

Materials

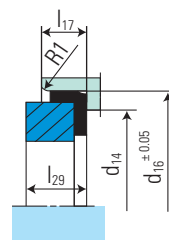
Seal face: Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1)
 Seat: Silicon carbide (Q1, Q2), Aluminium oxide (V)
 Elastomer: NBR (P), EPDM (E), FKM (V), HNBR (X4)
 Metal parts: CrNiMo steel (G)



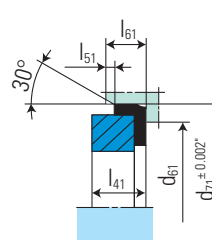
Note: The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Description
1.1	Seal face
1.2	Bellows
1.3	Driver collar
1.4	"L" ring (spring collar)
1.5	Washer
1.6	Corner Ring
2	Spring
3	Seat
4	O-ring
DIN 24250	

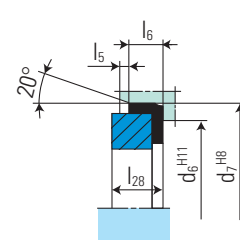
Stationary Seats



G50
Euro standard



G55
US standard



G60
EN 12756

