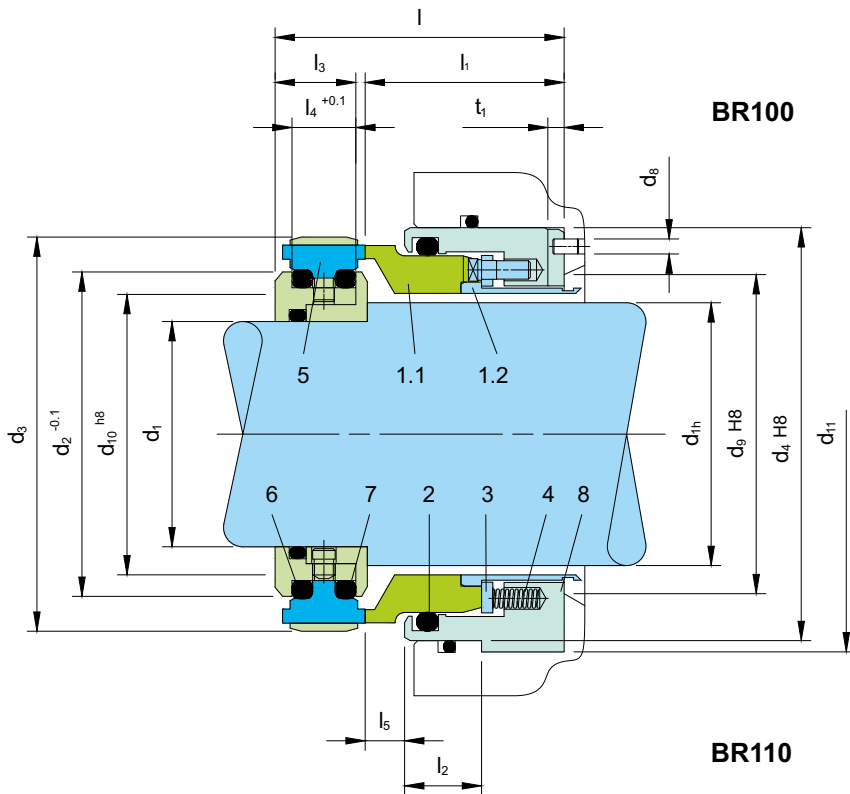


Product Description

1. Single and Dual seal configuration
2. Balanced design
3. Independent of direction of rotation
4. Cartridge construction
5. Stationary design with multiple springs
6. Seat arrangement is designed behind the impeller
7. Seat design is rotary
8. Specially designed sleeve to protect the springs from contamination
9. Variable designs available with guide sleeve for applications with or without quench

Technical Features

1. Accommodates shaft deflections due to stationary design
2. Designed to handle media containing solids
3. O-ring is dynamically loaded to prevent shaft damage.
4. Can operate under vacuum without locking the seat
5. Pumping device available for increased efficiency in circulation
6. Springs are product protected to avoid contamination



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	Part no.	Description
1.1	472	Seal face
1.2	520	Sleeve
2	412.1	O-ring
3	474	Thrust ring
4	477	Spring
5	475	Seat (G11)
6	412.2	O-ring
7	412.3	O-ring
8	441	Housing

DIN 24250

Direction of installation:- from the impeller side BR100 from the bearing side BR110

Typical Industrial Applications	
Dirty & abrasive media	Power plant technology
Dredgers	Pulp & paper
FGD	Sewage treatment
Mining	Solids containing media
Oil & gas	Water & waste water
Oil sand extraction	

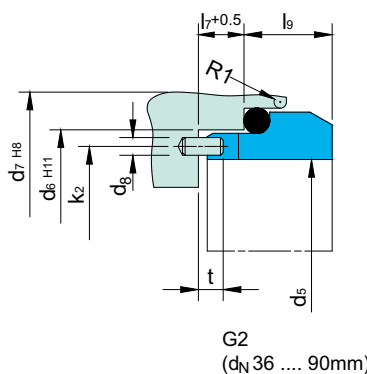
Performance Capabilities	
Sizes	$d_N =$ Upto 270 mm (Upto 10.625")
Pressure	$p_r^*) = 16$ bar (230 PSI)
Temperature	$t = -20$ °C ... $+160$ °C (-4 °F ... $+320$ °F)
Speed	10 m/s (33 ft/s)

*) For operation under vacuum it is necessary to arrange for quenching on the atmosphere side.

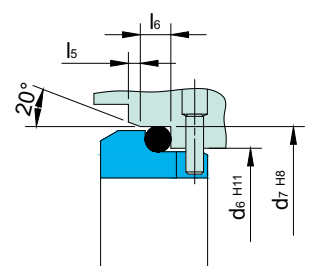
Standards	
EN 12756	
Materials	
Seal face	Silicon carbide (Q1, Q2)
Seat	Silicon carbide (Q1, Q2)

Notes	
Direction of installation: From the impeller side: BR100 From the bearing side: BR110	

Stationary Seats

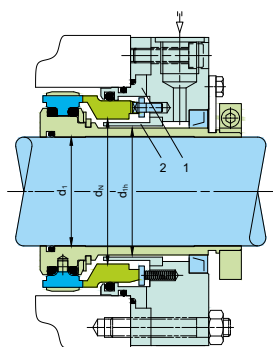


G2
(d_N 36 90mm)



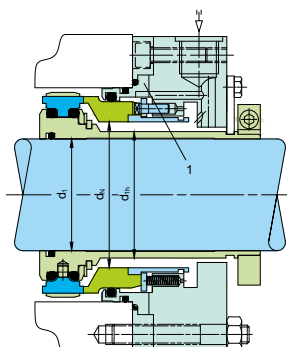
G9
(d_N 95 180mm)

Design Variations



BR200

Cartridge-type single seal with guide sleeve (Item no. 2) for use with quench. Insert (Item no. 1) either metal or silicon carbide.



BR300

Cartridge-type single seal. Insert (Item no. 1) either metal or silicon carbide. Optional without maintenance rinsing.

