PIONEER WESTON PERFORMANCE SEALS

Product Datasheet

Elastomer Rotary Seal Range

DIN 3761 STYLE AS

R23

Pioneer Weston R23, adding enhanced ingress protection to Pioneer R21. Features an elastomeric seal geometry backed by nearly a century of continuous improvement.

Rubber OD
for Rough Bore | Low Viscosity Fluids

Auxiliary Dust Lip
Improved ingress protection^

Configurable Options

Ribbed OD
for ease of installation

PWHydro Aid
Hydrodynamic aid to improve fluid transfer at high speeds*

Stainless Steel Components
Improve corrosion resistance

^Surface Speed limited- 8m/s
* Contact Pioneer Weston for advice

Max Diff. Pressure (bar)
0.5

Ingress Protection
R21 | R23 | PW SPECIAL

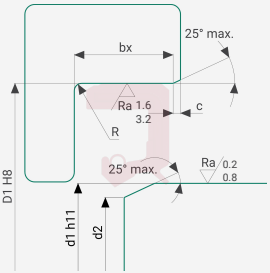
Elastomers

N1 (NBR)
N-70-18
-35°C and 110°C

H1(HNBR)
H-80-40
-40°C and 180°C

F1 (FKM)
V-75-27
-20°C and 200°C

Hardware Specification



Shaft, d1	d1-d2
0-10	1.5
10-20	2.0
20-30	2.5
30-40	3.0
40-50	3.5
50-70	4.0
70-90	4.5
90-110	5.0
110-130	5.5
130-250	7.0
250-500	11.0

Dimensions in mm

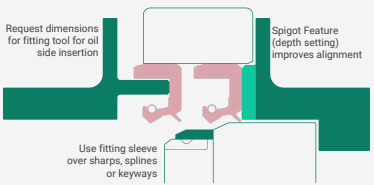
Bore, D1	c	R
≤100	0.70 to 1.00	0.75 max.
>100	1.20 to 1.50	1.00 max.

Dimensions in mm

Shaft hardness 55-60HrC** (0.3 Depth)
Shaft ground finish with no lay
bx=seal width +0.3

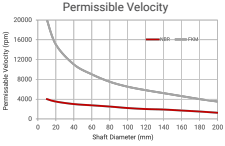
**60HrC min for surface speed >10m/s

Fitment



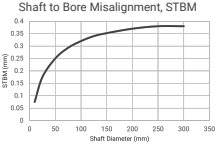
Application Criteria

Permissible Velocity



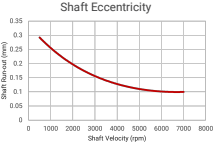
Approximate permissible velocity when provided with adequate lubrication, heat dissipation under no pressure.

Shaft to Bore Misalignment, STBM



Eccentricities (T.I.R) between bore and shaft centerline should be kept to minimum to prevent unilateral load. Approximate values shown.

Shaft Eccentricity



Locate seal close to bearing to reduce excessive eccentricity/ shaft runout (T.I.R). Approximate values shown.

Pioneer Weston technical solutions available via global ERIKS Sealing and Polymer divisions & our website.

ERIKS Sealing & Polymer UK
Daten Park,
Warrington, Cheshire, WA3 6SX
United Kingdom

ERIKS Deutschland GmbH Sealing and Polymer Technology
Jahnstr. 106, 73037, Göppingen,
Germany

ERIKS Sealing & Polymer
Alkmaar
Tourmalijnstraat 5, 1812 RL
Alkmaar, Netherlands