PIONEER WESTON

# Product Datasheet

## Elastomer Rotary Seal Range

DIN 3761 STYLE BS

# R6

Pioneer Weston R6 features an elastomeric seal geometry backed by nearly a century of continuous improvement. Featuring an auxiliary dust lip designed for greater ingress protection compared to our Pioneer R4 range.

### Ground OD
Metal OD for precision fitment

### Auxiliary Dust Lip
Improved ingress protection^

## Configurable Options

### Poly-Sealant Paint
For rough* housing bores

### 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
R4 | R6 | PW SPECIAL

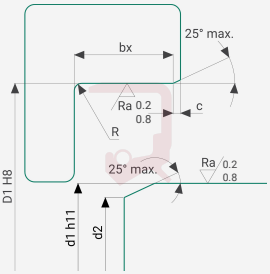
## Elastomers

**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

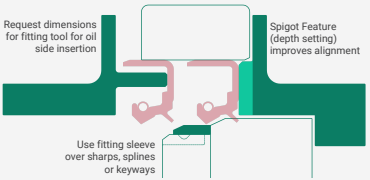
| Bore, D1 | c | R |
|---|---|---|
| ≤100 | 0.70 to 1.00 | 0.75 max. |
| >100 | 1.20 to 1.50 | 1.00 max. |

Dimensions in mm

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

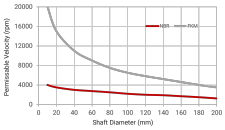
**60HrC min for surface speed >10m/s

## Fitment



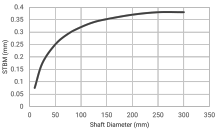

## Application Criteria

### Permissible Velocity



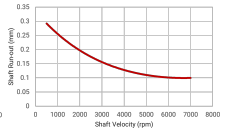

Approximate permissible velocity when provided with adequate lubrication, heat dissipation under no pressure.

### 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 run-out (T.I.R). Approximate values shown.

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