



DESIGN

Technical Details Metric Inch

Operating conditions		
Maximum speed	1.0 m/sec	3.0 ft/sec
Temperature range	-50°C + 150°C	-58°F + 320°F
Maximum pressure	400 Bar	6000 p.s.i

Maximum extrusion gap

Pressure bar	160	250	400
Maximum gap mm	0.6	0.5	0.4
Pressure p.s.i	2400	3750	6000

Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface	0.1 - 0.4	4 max	4 - 16	5 - 18
Static sealing face	1.6 max	10 max	63 max	70 max
Static Housing faces	3.2 max	16 max	125 max	140 max

Chamfers & Radii

Groove section	4.0	5.0	7.5
Min chamfer C mm	3.0	3.5	5.0
Max fillet rad r ₁ mm	0.2	0.4	0.8
Max fillet rad r ₂ mm	0.4	0.8	1.2

Tolerances

Ød	ØD	Lmm
f9	Js11	+0.25 - 0

BP3MP is a special profile seal, designed with a sealing lip undercut and seal lip rear stabilizing bump stop for less shaft friction. The lip reduces stick slip due to fluid reservoir between the sealing lips. The secondary lip also prevents external contamination and acts as a stabilizer. Shaped with compress bumps on the outer seal and front, for better grip and split seal compression when installed.

Custom manufactured to larger dimensions and also in various seal designs

FEATURES

- Single acting seal
- Excellent resistance to Abrasion , Hydrolysis, UV and Extreme Temperature
- Ideal for bore misalignment with large lip travel

MATERIAL

Seal design is manufactured from Super Polymer a triple lubricated thermo set polyurethane.

APPLICATIONS

The seal is proven to have strong stability under immense pressure and demanding mechanical conditions, suited well for maritime industries.