



Technical Details **Metric** **Inch**

Operating conditions		
Maximum speed	1.0 m/sec	3.0 ft/sec
Temperature range	-30°C + 110°C	-22°F + 230°F
Maximum pressure	250 Bar	3600 p.s.i

Maximum extrusion gap

Pressure bar	100	160	250
Maximum gap mm	0.6	0.5	0.4

Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic sealing surface ØD ₁	0.1 - 0.4	4 max	4- 16	5 - 18
Static sealing face Ød ₁	1.6 max	10 max	63 max	70 max
Static Housing faces L ₁	3.2 max	16 max	125 max	140 max

Chamfers & Radii

Groove section ≤ S mm	3.75	5.50	7.75	10.50
Min chamfer C mm	2.0	2.5	5.0	5.0
Max fillet rad r ₁ mm	0.4	0.8	1.2	1.6
Groove section ≤ S in	0.150	0.220	0.310	0.410
Min chamfer C in	0.080	0.100	0.200	0.200
Max fillet rad r ₁ in	0.016	0.032	0.047	0.063

Tolerances

Ød ₁	ØD ₁	L ₁ mm	L ₁ in
H9	h9	+0.2 - 0	+0.008 - 0

DESIGN

HR10 is a compact seal for light to medium duty hydraulic cylinders. It is a double acting piston seal with single acting capabilities.

This makes it an excellent choice for double acting applications where minimal dynamic leakage is required.

FEATURES

- Flexible for easy installation
- Excellent wear resistance
- High extrusion resistance
- More tolerant to dirt and contamination
- Long life
- Comes in a wide range of sizes

MATERIAL

Seal design comes in a variety of materials and sizes. For more information, please refer to MSDS datasheet.

APPLICATIONS

Light to medium duty applications