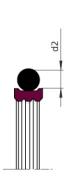
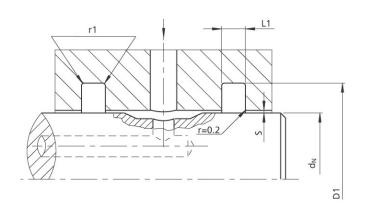




HR9





Technical Details Me	etric	Inch
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Operating conditions		
Maximum speed	0.5m/sec	1.5 ft/sec
Temperature range	-30°C + 100°C	-22°F + 212°F
Maximum pressure	300 Bar	4,500 p.s.i

# Maximum extrusion gap

Pressure bar	100	200	350
Maximum gap L	0.20	0.10	H7/ f7 fit

### **Surface roughness**

	μmRa	μmRt	μinCLA	μinRMS
Dynamic sealing surface Ød	0.5 - 0.2	2.5	2-8	2-9
Static sealing face ØD	1.6 max	10 max	63 max	70 max
Static Housing faces L	2.5 max	16 max	100 max	110 max

#### Chamfers & Radii

Seal diameter ≤ S mm	5.5	7.75
Min chamfer C mm	3.0	5.0
Max fillet rad r mm	0.8	1.2

## **Tolerances**

Ød <sub>1</sub>	ØD <sub>1</sub>	L mm
f9	H11	+0.2 - 0

### **DESIGN**

HR9 is a rotary pressure seal that is designed specifically for use in hydraulic swivel joints. The design of the seal, provides high abrasion resistance and low friction to allow running at low rotational speeds with minimal stick - slip.

The low friction is helped by the groove in the sliding face, which provides an oil reservoir. The groove also reduces the contact area with the rotating counterface and allows a higher contact pressure.

The circular recess in the outer diameter increases the contact of the face with the O ring and minimises the possibility of the sealing components rotating relative to each other.

### **FEATURES**

- Flexible for easy installation
- Minimal stick slip
- High temperature capability
- Good extrusion resistance
- Very low friction
- 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.

