Hallite

Design

A patented seal designed specifically for hydraulic swivels. Manufactured in the high grade Hythane[®] 181, Hallite's Ro800 is engineered as a one piece seal. No relative motion between the seal and the energiser can effect the lifetime of this seal, which is often mainly the problem of two piece swivel seals.

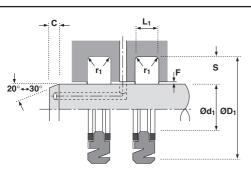
The special design of the Ro800 is minimizing the friction.

Optional anti-extrusion rings made from acetal are allowing larger extrusion gaps. The seal without anti-extrusion rings are made for applications with a very good guidance or low working pressure. Therefore please contact our technical service.

Ro800 is designed for double acting conditions. Designs are available for piston or rod applications.

The seal is easy to install in one piece housings.

Features • One piece seal • No rotation within the groove • Available for both Rod and Piston • Very low friction • Easy to install • Low abrasion and good wear resistance • Simple and small seal grooves	20°↔30° 0 ↔30°			S d1 ØD1	
echnical details	Metric		Inch		
perating conditions					
laximum Rotational Speed	0.2 m/sec		0.6 ft/sec		
emperature Range	-30°C + 80°C		-22°F + 176°F		
faximum Pressure	350 bar		5000 p.s.i.		
imiting PV Value Lubricated	25 bar m/sec		1200 p.s.i ft/se	ec	
	Figures show the	movimum normiooi	hla nan all an ana -aida i		
laximum extrusion gap	•		ble gap all on one side fer to Housing Design se	•	
laximum extrusion gap ressure bar	•		• •	•	
	rod Ø and maxim	um clearance Ø. Ref	fer to Housing Design se	•	
ressure bar	rod Ø and maxim	um clearance Ø. Ref 200	fer to Housing Design se 350	•	
ressure bar lousing Length L ₁ 4.2 mm	rod Ø and maxim 100 0.20	um clearance Ø. Ref 200 0.10	fer to Housing Design se 350 H7/f7 fit	•	
ressure bar lousing Length L ₁ 4.2 mm lousing Length L ₁ 6.3 mm ressure p.s.i	rod Ø and maxim 100 0.20 0.30	200 0.10 0.25	fer to Housing Design ser 350 H7/f7 fit H7/f7 fit	ction.	
ressure bar lousing Length L $_1$ 4.2 mm lousing Length L $_1$ 6.3 mm	rod Ø and maxim 100 0.20 0.30 1500	200 0.10 0.25 3000	fer to Housing Design ser 350 H7/f7 fit H7/f7 fit 5000	•	
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ressure bar lousing Length L ₁ 4.2 mm lousing Length L ₁ 6.3 mm ressure p.s.i turface roughness bynamic Sealing Face Ød ₁ static Sealing Face ØD ₁ static Housing Faces L ₁ thamfers & Radii Groove Section ≤ S mm fin Chamfer C mm fax Fillet Rad r ₁ mm	rod Ø and maxim 100 0.20 0.30 1500 µmRa 0.1 < > 0.3 1.6 max 3.2 max 5.5 3.0	200 0.10 0.25 3000 µmRt 2.5 max 10 max 16 max 7.75 5.0	fer to Housing Design set 350 H7/f7 fit H7/f7 fit 5000 µinCLA 4 <> 12 63 max	μinRMS 5 < >13 70 max	



Rod Sealing

Ro800

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	Ød ₁	ØD ₁	L ₁	PART No.				
	25.0	32.5	3.2	4763300*				
	32.0	39.5	3.2	4761300*				
	36.0	43.5	3.2	4770600*				
	40.0	51.0	4.2	4754400*				
	45.0	56.0	4.2	4743400*				
	70.0	80.0	5.0	4727800*				
	100.0	111.0	4.2	4777810				
	100.0	115.5	6.3	4762810				
	130.0	145.5	6.3	4720610				

Bore Sealing

Ød ₁	ØD ₁	L ₁	PART No.
80.0	69.3	4.2	4748100*
90.0	79.3	4.2	4771300*
145.0	129.5	6.3	4712710
160.0	144.5	6.3	4712810
180.0	164.5	6.3	4720710

* without anti-extrusion rings