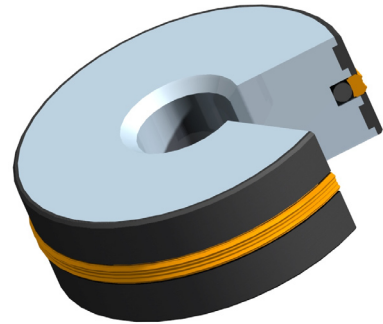


Hallite 720

Unitized Piston





The Hallite Type 720 is a ready to fit complete piston. The steel piston has a non-metallic bearing material molded over the outer diameter using a special proprietary process. It is then finished machined to provide a tight tolerance with the bore of the tube (usually 0.001 to 0.005" from mating surface.) This reduces the effects of damage from contamination.

Originally designed and patented by Hallite over 35 years ago, the Unitized Piston eliminates any possibility of metal to metal contact and increases sealing performance.

An accepted solution for Construction, Off-Highway and Agricultural cylinders, the Unitized Piston provides the customer with proven extended service life while significantly reducing manufacturing, warranty and assembly costs.

Produced in a wide range of sizes, bearing and seal materials, Hallite's unique Unitized Piston is compatible with the most demanding applications, off-duty cycles, temperatures and pressures, and can be custom designed for OEM applications up to 14" in diameter.



Benefits

- Reduction in premature failures and warranty claims
- Ease of field service and retrofit
- Extends cylinder performance life
- Heavy duty, high pressure capabilities for today's high pressure systems (5,000 to 10,000 psi; 345 to 690 bar continuous)



“The Unitized Piston provides the OEM customer with proven extended service life while significantly reducing manufacturing, warranty and assembly costs.”

Technical details

Operating conditions

Maximum Speed	1m/sec
Temperature Range	-30°C + 100°C
Maximum Pressure	350 bar

Inch

3.0 ft/sec
-22°F +212°F
5000 p.s.i.

Surface roughness

Dynamic Sealing Face ØD ₁	µmRa	µmRt
Static Housing (Rod end)	0.1-0.4	4max
	3.2 max	16 max

µinCLA µinRMS

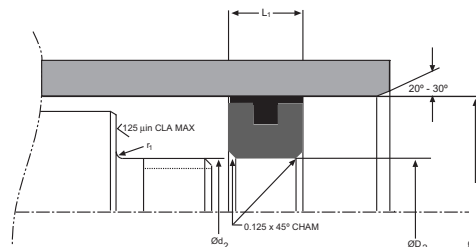
4-16	5-18
125	137

Radii

Max Fillet Rad r ₁ mm	3
Max Fillet Rad r ₁ in	0.125

Tolerances

	ØD ₁	ØD ₂	Ød ₂
mm	H9	+0.05 -0	f9
in	H9	+0.002 -0	f9



metric

ØD ₁	TOL H9	ØD ₂	TOL	L ₁ +0.2 -0	PART No.
32	+0.06 +0.00	12.0	+0.05 -0.0	25.0	7240510
40	+0.06 +0.00	16.0	+0.05 -0.0	25.0	7241010
50	+0.06 +0.00	20.0	+0.05 -0.0	25.0	7241510
60	+0.07 +0.00	25.0	+0.05 -0.0	25.0	7242010

ØD ₁	TOL H9	ØD ₂	TOL	L ₁ +0.2 -0	PART No.
63	+0.07 +0.00	25.0	+0.05 -0	25.0	7242510
70	+0.07 +0.00	25.0	+0.05 -0.	29.0	7243010
80	+0.07 +0.00	25.0	+0.05 -0	29.0	7243510
100	+0.09 +0.00	32.0	+0.05 -0	40.0	7244010

inch

ØD ₁	TOL H9	ØD ₂	TOL	L ₁ +0.2 -0	PART No.
1.500	+0.003 -0.000	0.500	+0.002 -0.000	1.000	H1380*
2.000	+0.003 -0.000	0.750	+0.002 -0.000	1.000	H1381*
2.250	+0.003 -0.000	1.000	+0.002 -0.000	1.000	H1443*
2.500	+0.003 -0.000	1.000	+0.002 -0.000	1.000	H1382*
3.000	+0.003 -0.000	1.000	+0.002 -0.000	1.000	H1383
3.500	+0.004 -0.000	1.000	+0.002 -0.000	1.000	H1384
3.500	+0.004 -0.000	1.000	+0.002 -0.000	1.500	H1385

ØD ₁	TOL H9	ØD ₂	TOL	L ₁ +0.2 -0	PART No.
4.000	+0.004 -0.000	1.000	+0.002 -0.000	1.000	H1386
4.000	+0.004 -0.000	1.000	+0.002 -0.000	1.500	H1387
4.500	+0.004 -0.000	1.000	+0.002 -0.000	1.500	H1388
5.000	+0.004 -0.000	1.500	+0.002 -0.000	1.250	H1389
5.000	+0.004 -0.000	1.500	+0.002 -0.000	1.750	H1390
6.000	+0.004 -0.000	1.500	+0.002 -0.000	2.500	H1359

* Not fitted with an internal static sealing O-Ring.

Hallite

Hallite Seals

Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry. The company enjoys an enviable reputation for high quality and reliability within the mobile hydraulics, mining, off-highway, construction, agriculture, mechanical handling and automation markets.

Hallite products, engineered in a wide variety of advanced materials, are chosen by leading manufacturers for their exceptional performance in the most demanding, safety-critical high specification applications.

Hallite operations are located in Australia, Brazil, Canada, China, France, Germany, India, Italy, the UK and the USA. All Hallite locations are committed to providing quality seals in the shortest possible time. Hallite combines carefully chosen and managed stocks in local markets, supported by a fast track moulding capability. All locations can now boast a CNC machining cell, branded Hallite Service, which can provide immediate delivery for non-standard and breakdown situations.

Additionally a worldwide network of service partners completes the global presence and ensures the full range of Hallite products is readily accessible.



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