

**STATIC SEAL**  
**HS**

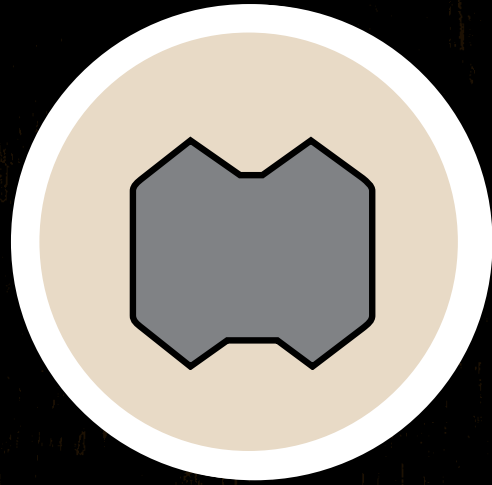


Product Performance. Affordability. Availability.



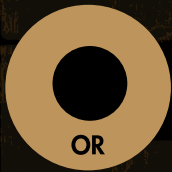
STATIC SEAL

# HS



STATIC SEAL PROFILES

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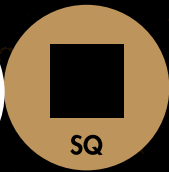
OR



BU



HS



SQ



QR



DR

The Head Seal is a symmetrical polyurethane seal ring used for sealing static cylinder heads (rod glands) as an improvement to traditional O-Ring and backup ring sealing configurations. The most common seal failures on cylinder heads are O-Ring/backup ring blow out, twisted and pinched backup rings during installation. These failures are common in cylinders subjected to high pressure, high temperature and large extrusion gaps.

Traditional design practices to overcome these seal failures include using higher extrusion resistant materials, adding additional sealing components and tightening the hardware tolerances. These solutions often result in increased manufacturing cost, interchangeability issues and added assembly difficulties.

The static Head Seal overcomes these problems with a simple and innovative polyurethane Head Seal design that provides excellent seal ability, reliability and ease of installation all in a single compact sealing component. The Head Seal is specifically designed to replace the industry standard cylinder head O-Ring and backup ring configuration.

## STANDARD MATERIALS

- P92T 92D Shore A Polyurethane (Rust)
- Other material options are available upon request.

## TECHNICAL SPECIFICATIONS

### OPERATING CONDITION

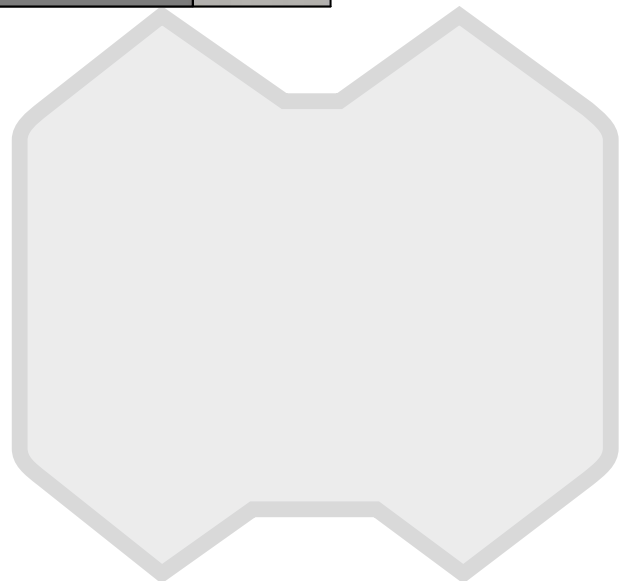
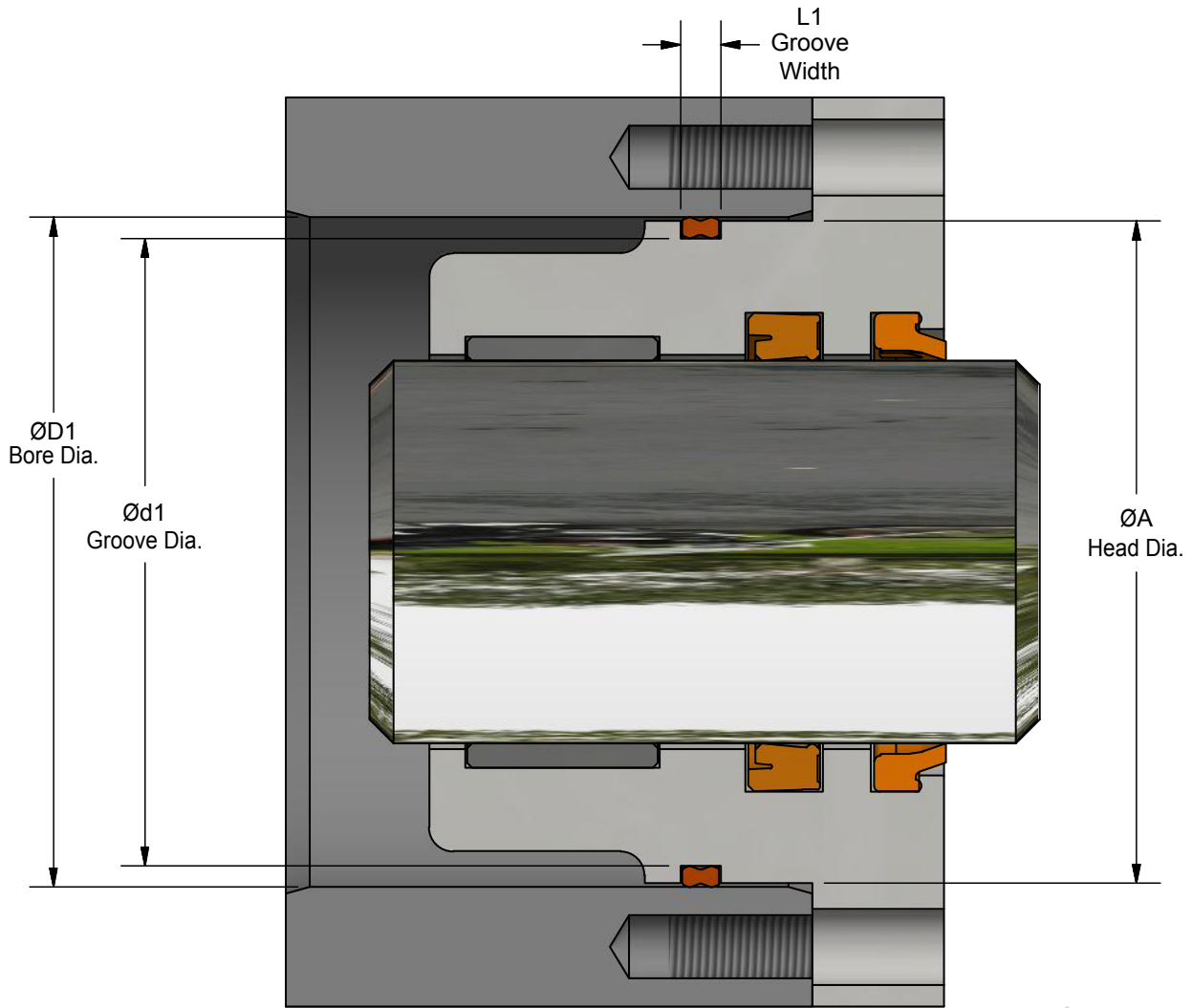
Parameter	Unit	Low Extreme	Normal Operation			High Extreme
Pressure	psi		0	–	5,000	10,000
Temperature	°F	–65	–40	–	250	265
Speed	fps					
Note	Continuous operation at any one of the extreme conditions may result in substantially reduced seal life.					

### FEATURES

- High Extrusion Resistance
- Improved Sealing at Low and High Pressure
- Low Compression Set
- Tear Resistant
- Easy Installation
- No Pinching or Twisting
- Fits Standard O-Ring Grooves
- Oil Resistant
- Hydrolysis Resistant
- Reduced Manufacturing Cost
- Faster Cylinder Assembly
- Improved Reliability
- Reduced Warranty Cost

STATIC SEAL

HS



STATIC

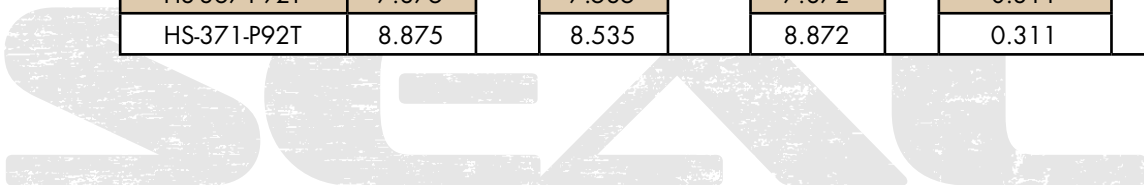
Part Number	Bore Dia. "D1"	Groove Dia. "d1"	Head Dia. "A"	Groove Width "L1"
HS-039-P92T	2.875	2.775	2.865	0.138
HS-218-P92T	1.500	1.278	1.490	0.208
HS-222-P92T	1.750	1.528	1.740	0.208
HS-224-P92T	2.000	1.778	1.990	0.208
HS-226-P92T	2.250	2.028	2.240	0.208
HS-227-P92T	2.375	2.153	2.365	0.208
HS-228-P92T	2.500	2.278	2.497	0.208
HS-230-P92T	2.750	2.528	2.747	0.208
HS-232-P92T	3.000	2.778	2.997	0.208
HS-234-P92T	3.250	3.028	3.247	0.208
HS-235-P92T	3.375	3.153	3.372	0.208
HS-236-P92T	3.500	3.278	3.497	0.208
HS-238-P92T	3.750	3.528	3.747	0.208
HS-240-P92T	4.000	3.778	3.997	0.208
HS-242-P92T	4.250	4.028	4.247	0.208
HS-244-P92T	4.500	4.278	4.497	0.208
HS-246-P92T	4.750	4.528	4.747	0.208
HS-248-P92T	5.000	4.778	4.997	0.208
HS-250-P92T	5.250	5.028	5.247	0.208
HS-251-P92T	5.375	5.153	5.372	0.208
HS-252-P92T	5.500	5.278	5.497	0.208
HS-254-P92T	5.750	5.528	5.747	0.208
HS-256-P92T	6.000	5.778	5.997	0.208
HS-260-P92T	6.750	6.528	6.747	0.208
HS-268-P92T	8.750	8.528	8.747	0.208
HS-338-P92T	3.500	3.160	3.497	0.311
HS-342-P92T	4.000	3.660	3.997	0.311
HS-344-P92T	4.250	3.910	4.247	0.311
HS-346-P92T	4.500	4.160	4.497	0.311
HS-348-P92T	4.750	4.410	4.747	0.311
HS-350-P92T	5.000	4.660	4.997	0.311
HS-352-P92T	5.250	4.910	5.247	0.311
HS-353-P92T	5.375	5.035	5.372	0.311
HS-354-P92T	5.500	5.160	5.497	0.311
HS-356-P92T	5.750	5.410	5.747	0.311
HS-358-P92T	6.000	5.660	5.997	0.311
HS-360-P92T	6.250	5.910	6.247	0.311
HS-362-P92T	6.625	6.285	6.622	0.311
HS-366-P92T	7.625	7.285	7.622	0.311
HS-367-P92T	7.875	7.535	7.872	0.311
HS-371-P92T	8.875	8.535	8.872	0.311

Tolerance H9

Tolerance h9

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Tolerance +0.005 / -0.000





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