

CHEKSEAL™

Lip Seal Exclusion Device

Service

The Palmetto CHEKSEAL™ is a self-adjusting, shaft-mounted, axial lip seal designed as an exclusion device, deflecting and excluding contaminants such as dust, dirt, mud and water. The CHEKSEAL also functions as a "retainer" seal, preventing the loss of viscous lubricants such as heavy greases.

Compression molded with Greene, Tweed's proprietary elastomers to assure high resiliency, low wear and fluid resistance, the CHEKSEAL incorporates a tough, but flexible, hinged lip that seals axially against a radial (perpendicular) face. This straightforward design requires no special machining for a tight shaft fit.

Unlike conventional spring-loaded oil seals, the CHEKSEAL cannot fret or groove expensive shafts and accepts radial shaft motion due to bearing play. The CHEKSEAL automatically vents excess grease during re-greasing operations.

The CHEKSEAL installs easily. Manufactured entirely of highly resilient rubber, it can be stretched over shaft obstructions and pressed firmly against the radial face. When the shaft is set in final operating position and begins turning, the CHEKSEAL self—adjusts after the first several rotations, with the axial base stop and lip working together to provide proper interference. Once in position on the shaft, the CHEKSEAL does not back off—its position maintained by the rubber compound's natural tension.

· Blowers & Fans

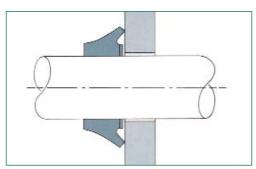
Typical Applications

- Bearings
 Axles
 Swivel Joints
 Wheels
 Rotary Valves
 Motors
 Rotary Switches
 Pumps
 Rolls/Rollers
- · Transmissions

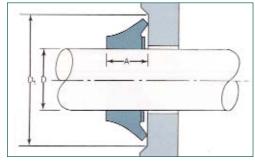
· Mixers







The CHEKSEAL is shaft-mounted and seals directly against the radial.



See Dimensional Information (page 2)



CHEKSEAL™

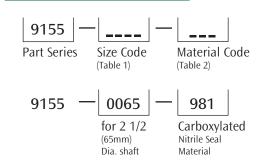
Lip Seal Exclusion Device

Dimensional Information

Shaft Diameter		Chekseal	Desi (Ir	gn En stalled	Size Code	
In	mm (Nom.)	ID (In)	D ₁ (Min.)	A (Min.)	Max. End Play	
0.18-0.21 0.21-0.26 0.26-0.31	5 6 7	0.166 0.193 0.239	D+ .290	.190	.007"	0005 0006 0007
0.31-0.37 0.37-0.45 0.45-0.53	8 10 12	0.285 0.340 0.414	D+ .520	.250	.010"	0008 0010 0012
0.53-0.61 0.61-0.69 0.69-0.77	14 16 18	0.488 0.561 0.635				0014 0016 0018
0.77-0.83 0.83-0.95 0.95-1.07	20 22 25	0.708 0.763 0.874				0020 0022 0025
1.07-1.14 1.14-1.22 1.22-1.30	28 30 32	0.984 1.049 1.122	D+ .600	.375	.014"	0028 0030 0032
1.30-1.42 1.42-1.50 1.50-1.70	35 37 40	1.196 1.306 1.380				0035 0037 0040
1.70-1.89 1.89-2.09 2.09-2.29	45 50 55	1.564 1.739 1.923				0045 0050 0055
2.29-2.48 2.48-2.68 2.68-2.88	60 65 70	2.107 2.282 2.466				0060 0065 0070
2.88-3.07 3.07-3.27 3.27-3.47	75 80 85	2.650 2.824 3.008	D+ .600	.375	.018"	0075 0080 0085
3.47-3.66 3.66-3.86 3.86-4.14	90 95 100	3.192 3.367 3.551				0090 0095 0100
4.41-4.53 4.53-4.92 4.92-5.32	110 120 130	3.809 4.168 4.526				0110 0120 0130
5.32-5.71 5.71-6.10 6.10-6.50	140 150 160	4.894 5.253 5.612	D+	.625	.023"	0140 0150 0160
6.50-6.89 6.89-7.29 7.29-7.68	170 180 190	5.980 6.339 6.707	1.000			0170 0180 0190
7.68-8.27 9.25-10.43	199 250	7.066 8.860				0199 0250
18.90-20.87	500	17.750	D+ 1.375	.875	.032"	0500

When designing the CHEKSEALTM as an excluder for bearings or oil seals, the outer race or stamped metal may be suitably employed as the dynamic surface. If, due to space or other considerations, this cannot be done, a machined surface of 125 μ in. RMS max is recommended. Please contact our engineering department, your Palmetto representative or your authorized distributor when considering applications with shaft speeds in excess of 1800 FPM (RPM x Shaft Diameter X .262).

Part Numbering



Seal Material Selection

Service Cond	Seal Material			
Fluid Media	Temperature Range	Base Polymer	Durometer Hardness (Shore "A")	Code
General purpose (air, water-glycol, water, water-soluble oils)	-20°F to 225°F (-30°C to 110°C)	NBR (Carb- oxylated Nitrile)	85	981
Acids, reactive fluids, gasoline, jet fuels, solvents, brake fluids	0°F to 300°F (-20°C to 150°C)	FKM (Fluoro- elastomer)	85	760*
Caustics, brake fluids, fire-resistant fluids, ozone	-65°F to 300°F (-55°C to 150°C)	EPR (Ethylene- propylene)	80	952*
Steam, caustics, amines, liquors, sour fluids, acids, radiation, ozone	32°F to 500°F (0°C to 260°C)	Fluoraz® (PTFE-PE)	75	797*
FDA compliant	32°F to 500°F (0°C to 260°C)	Fluoraz® (PTFE-PE)	80	890*

^{*}Contact factory for specific size recommendations

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