

Custom Cap Seal Program

Chesterton's CCS Program provides end users with custom cap seals designed to fit existing equipment. Thus, eliminating the need for equipment modification.

This cap seal is comprised of a two-piece, sealing system that uses a high performance cap with an o-ring to create a very effective seal.

Both components are available in a range of engineered materials to best suit the specific operating requirements.

Second generation PTFE offers improved performance over conventional materials.

Features & Benefits:

- Custom designs to fit existing equipment, no need for modifications
- 2nd Generation PTFE extends service life minimizing downtime and maximizing profits
- Compact design, minimizes groove design criteria
- Compression seal that increases its sealing force with pressure
- Proven seal design provides predictable performance
- Available for reciprocating or rotary applications in both inch and metric sizes

How to Place an Order:

- 1 Verify Groove Height
- 2 Verify Cross Section
- 3 Verify Diameter Range
- 4 Identify Material
- 5 Contact Distributor to place order



Materials		AWC 800 AWC 820 Red Polymer Cherry Polymer 609		AWC 550 60% Bronze filled PTFE	<i>AWC 440</i> 10% / 1% Carbon/Graphite <i>PTFE</i>	AWC 220 8% Glass Filled PTFE			
General Use		Highly abrasive resistant for use in general hydraulic & pneumatic applications	Highly abrasive resistant for use in higher temperature hydraulic & pneumatic applications	High pressure capability, good extrusion and heat resistance properties, for use in hydraulic applications	High chemical resistance, used typically in pneumatic applications	Low friction, good wear and extrusion resistance, superior strength			
rature nge	AWC740 Nitrile 70 A o-ring	-35 to 85 ℃ (-30 to 185 ℉)	-35 to 120 ℃ (-30 to 250 ℉)	-35 to 120 °C (-30 to 250 °F)					
Tempe Rar	AWC730 FKM 75 A o-ring	NA	-25 to 120 ℃ (-15 to 250 ℉)	-25 to 200 ℃ (-15 to 400 ℃					
g' Speed num	Reciprocating	0.85 m/sec (185 ft/min)	1.25 m/sec (250 ft/min)		50 m/sec (3,000 ft/min)				
Operatinç Maxi	Rotary	0.50 m/sec (100 ft/min)	0.50 m/sec 0.75 m/sec 2 (100 ft/min) (150 ft/min) (9		5.0 m/sec (960 ft/min)				
Pro Max	essure kimum²			345 bar, (5,000 psi)					
Matin F	g Surface inish		Static Dynamie	0.4 - 0.8 µ m (16 c 0.2 - 0.4 µ m (8 -	- 32 μ inch) 16 μ inch)				

¹ Maximum speed values are greatly influenced by other operating conditions such as pressure, equipment clearances and temperature. Consider all operating parameters when selecting the appropriate materials and designs.

² Maximum pressure values based upon diametrical extrusion clearances. Contact Engineering for additional cap and o-ring material availability, including FDA materials.



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Rod Seal Н L D1 d S

Designations:

Shaft diameter = dEquipment bore = D_1 Seal width = H

Groove height = LCross section = S



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Shaft diameter = d_1 Equipment bore = DSeal width = H

Groove height = LCross section = S

Availab	ie sea	1 31265													
Groove Height (L)		Cross-Section* (S)		Diameter Range, mm (inch)											
Min. mm (inch)	Max.	Min. m (in	Max. m ch)	19 (0.75)					38 (15.0	1 000)					
2.1 (0.079)	2.8 (0.112)	2.0 (0.080)	6.3 (0.247)		<mark>(5.158)</mark> (:	131 5.787) 147					Ple	ase Con: > 381	sult Fact 1 mm (1 and	ory for S 5 inch)	Sizes
2.8 (0.112)	3.3 (0.128)	2.8 (0.109)	8.6 (0.339)			(9.603)	244 (10.512)	267			-	< 19 ı	nm (0.7	5 inch).	
3.3 (0.128)	3.8 (0.149)	3.3 (0.131)	8.9 (0.351)			(10.	079) 256 (1	1.024)	280						
3.8 (0.149)	4.3 (0.171)	3.8 (0.150)	12.6 (0.495)							(17.8	<mark>35)</mark> 453 (19.016)		483		
4.3 (0.171)	5.6 (0.221)	4.5 (0.177)	13.0 (0.512)						(17	.087) 43	3 4 (18.347)	466			
5.6 (0.221)	7.5 (0.297)	5.7 (0.225)	17.4 (0.685)										(28	5. 787) (27	658 7.44
7.5 (0.297)	9.4 (0.371)	8.6 (0.338)	18.9 (0.745)		108	(4.252) 119 (4.685)						(2	5.748)	654	

* Check with Factory on cross-sections for specific diameters.



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Rod diameter Piston bore

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