

16K & 17K

Hydraulic Wear Ring Strips

High performance, easily replaced guide rings for large cylinder and forming machines

Chesterton® 16K & 17K hydraulic wear rings reduce the impact of transverse force on your cylinders to achieve improved service life and reliability.

Quickly and easily replaced, 16K & 17K solutions reduce costly cylinder re-machining and repairs for large diameter, heavy-duty hydraulic cylinders, presses, and forming machines—even in the most difficult working conditions.

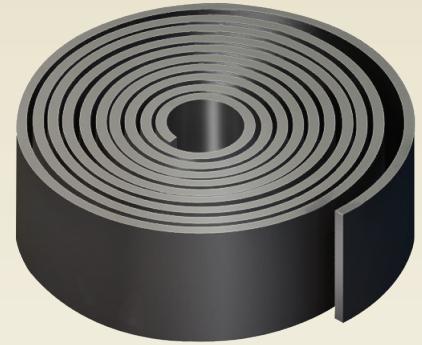
These nonmetallic wear rings prevent metal-to-metal scoring and reduce radial movement, resulting in extended seal and equipment life. They also help prevent the buildup of hydrodynamic pressure in small clearances of the cylinders and assist in preventing the “diesel effect.”

Flexible Materials for Harsh Conditions

The 16K & 17K continuous coil designs are made from a combination of composite polyester resin reinforced with synthetic fibers to support high bearing capacity and heavy transverse loads. The lower Young’s modulus and higher material flexibility allow the non-metallic bearing bands to have more elastic deformation under load. The larger contact area transfers the load, causing lower surface pressure.

Prevents Fretting and Seizing

The exceptional physical properties of these wear ring strips allow for use in a broad range of temperature conditions and provide excellent fluid compatibility. The built-in lubricants help reduce friction between mating surfaces, prevent fretting and seizing, and provide good dry-running capabilities. Chesterton’s 16K & 17K wear ring strips have good dimensional stability and excellent corrosion resistance.



- Prevents metal-to-metal scoring to help prolong equipment life
- Reduces radial movement to extend seal life
- Contains built-in lubricants that lower the coefficient of friction between mating surfaces
- Reduces the risk of hydrodynamic pressure build-up in small clearances
- Accommodates large diameter equipment with split coil design

SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Static Compressive Strength MPa (psi) ASTM D695	Dynamic Compressive Strength MPa (psi)	Speed m/sec (ft/min)
AWC640 thermoset polyester resin	300–1575 (12–62)	-40–121 (-40–250)	34.5 (50,000)	10.0 (14,500)*	1 (200)

*At 20°C (68°F).

PRODUCT PROFILES



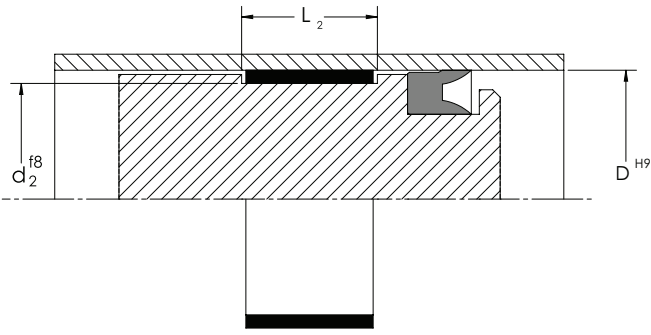
To place an order:

Product profile: _____
 Material: _____
 Rod or ram diameter (d): _____
 Groove diameter (D₃): _____
 Groove height (L₂): _____

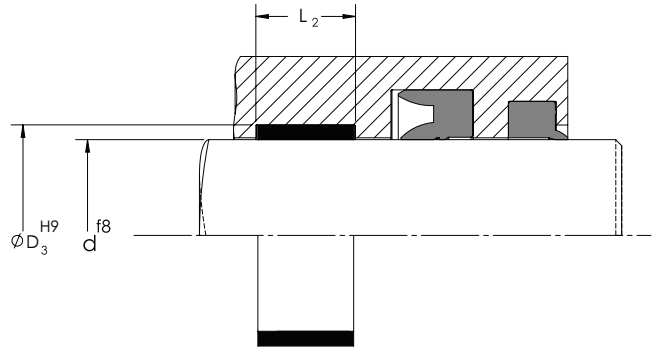
To place an order:

Product profile: _____
 Material: _____
 Groove diameter (d₂): _____
 Cylinder bore diameter (D): _____
 Groove height (L₂): _____

PISTON APPLICATION



ROD APPLICATION



Cut to Fit

The precise manufacturing technology of the 16K & 17K wear ring strips provides accurate dimensional and geometrical tolerances and improved fitting. According to industrial standards sizing, the 16K & 17K are a direct retrofit to existing bearing grooves, which eliminates equipment modification.

Universal Use in Reciprocating Applications

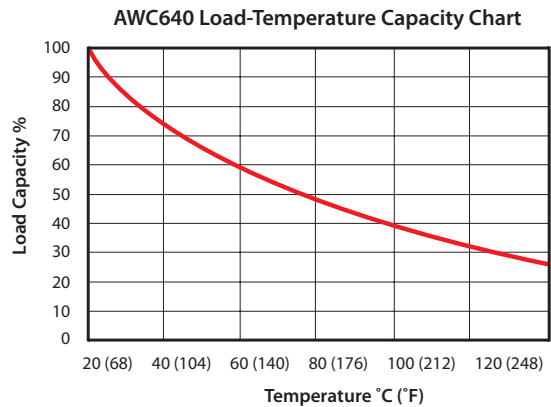
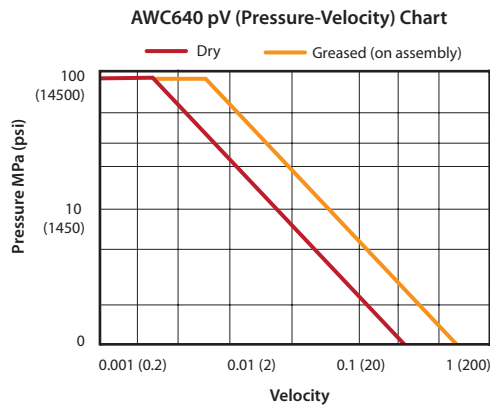
The split design of this product makes the installation of the cut rings easy (snap-in fitting). This allows the product to be used universally on rods, rams, or pistons in reciprocating applications for rotary or static applications.

16K METRIC DESIGN

Cross Section (S) mm	Height (H ₁) mm	Diameter Range (d/D) mm
2.50–4.00	15	300–1575
	20	300–1575
	25	300–1575
	30	300–1575

17K INCH DESIGN

Cross Section (S) mm	Height (H ₁) mm	Diameter Range (d/D) mm
0.125	0.375	12–62
	0.500	12–62
	0.625	12–62
	0.750	12–62
	1.000	12–62
	1.500	12–62
	2.000	12–62



Chesterton ISO certificates available on www.chesterton.com/corporate/iso

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