



Category

- Seal, Double Acting Piston

Construction

- Filled PTFE sealing ring, energised by a T section NBR energiser, backed up by nylon antiextrusion rings

Housing

- Rectangular groove in one piece piston

Duty

- Heavy

Features

- Low friction
- Energised antiextrusion rings effectively prevent extrusion
- Broad temperature range
- Robust, compact design

Comments

- Excellent high performance seal
- Used by North American mobile OEMs
- Recommended for new applications, particularly where remote wear rings are used

Size Range

- US imperial OEM

Metric Specifications

Operating Conditions

Maximum Speed:	1.5 m/sec
Temperature Range:	-40°C ~ 120°C
Maximum Pressure:	500 bar

Surface Finish

Dynamic Sealing Face:	0.1 ~ 0.4 µmRa
Static Sealing Face:	1.6 µmRa max
Other Faces:	3.2 µmRa max

Extrusion Gap (Diametral)

Pressure (bar)	160	250	400	500
Maximum gap (mm)	1.00	0.80	0.60	0.50

Imperial Specifications

Operating Conditions

Maximum Speed:	5.0 ft/sec
Temperature Range:	-40°F ~ 250°F
Maximum Pressure:	7500 psi

Surface Finish

Dynamic Sealing Face:	4 ~ 16 µinCLA
Static Sealing Face:	63 µinCLA max
Other Faces:	125 µinCLA max

Extrusion Gap (Diametral)

Pressure (psi)	2400	3750	6000	7500
Maximum gap (in)	0.040	0.030	0.024	0.020

Chamfers

Minimum Z = C x 0.60	where C = (ØD - Ød) ÷ 2
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Imperial Sizes

Part No.	ØD	Ød	H
<i>Tolerances</i>	<i>H9</i>	<i>+0 -0.003</i>	<i>+0.010 -0</i>
CTI-450-390-049-KLA	4.500	3.909	0.492
CTI-450-395-031-KLA	4.500	3.950	0.315
CTI-475-415-049-KLA	4.750	4.159	0.492
CTI-500-409-063-KLA	5.000	4.094	0.630
<i>Tolerances</i>	<i>H9</i>	<i>-0.004</i>	<i>+0.010 -0</i>
CTI-550-459-063-KLA	5.500	4.594	0.630
CTI-600-509-063-KLA	6.000	5.094	0.630
CTI-625-534-063-KLA	6.250	5.344	0.630
CTI-650-559-063-KLA	6.500	5.594	0.630

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
CTI-700-609-063-KLA	7.000	6.094	0.630
CTI-725-634-063-KLA	7.250	6.344	0.630
CTI-750-659-063-KLA	7.500	6.594	0.630
CTI-775-684-063-KLA	7.750	6.844	0.630
CTI-825-734-063-KLA	8.250	7.344	0.630
CTI-850-759-063-KLA	8.500	7.594	0.630
CTI-1000-889-068-KLA	10.000	8.898	0.687
CTI-1050-938-068-KLA	10.500	9.398	0.687
CTI-1150-1039-068-KLA	11.500	10.398	0.687
CTI-1400-1289-068-KLA	14.000	12.898	0.687