

# TIE-ROD HYDRAULIC CYLINDERS



**TCR** **CHIEF**®

## CHIEF™ REPHASING TIE-ROD CYLINDERS

The CHIEF™ TCR is the premier rephasing tie-rod cylinder design, ideal for construction and agricultural applications where you need to lift independent loads plumbed in series. The CHIEF™ TCR provides unmatched performance and reliability. Need to lift two or more cylinders plumbed in series, with bore and rod diameters sized to ensure all rods extend or retract equally? These are designed for you!

In addition, these cylinders combine the functions of flow dividing components with that of actuators—saving space and weight. The base end clevis extends out 2 inches to ensure greater swing radius and maximum flexibility. Need more? The cylinders have SAE O-ring ports that allow for easy hookup.

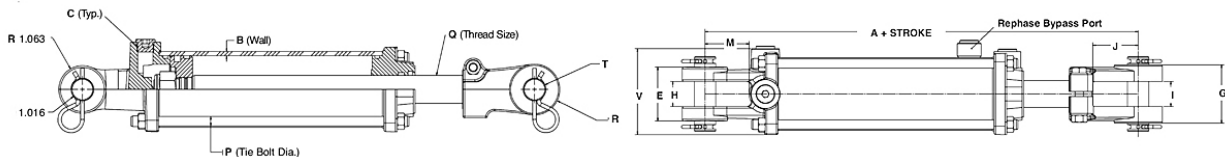
Every CHIEF™ TCR cylinder is functionally tested and pressurized to 1.5 times the normal working pressure to ensure performance reliability. TCR cylinders have a 3,000 PSI operating range and our best limited warranty at 4 years. Cylinders can be customized to meet OEM requirements and stroke lengths.

**3000 PSI**

## DESCRIPTION

Imported CHIEF™ cylinders are manufactured at ISO 9001:2000 Certified Facilities

**Intended Use:** Double-acting rephasing applications • **Piston:** Ductile iron • **Gland:** Ductile iron, drilled oil passages • **Tube:** Precision honed steel for extended seal life • **Rod:** Hard chrome plated • **End Mounts:** High strength, ductile iron female clevises with pins and R-clips included • **Tube Seal:** Buna O-ring with Polytemp hytel backup • **Rod Seal:** Twin lip design for a dry rod • **Rod Wiper:** D style prevents contamination • **Piston Seal:** Hallite 755 for prolonged wear resistance (Wear ring on 5" bore) • **All Seals:** Manufactured to US specifications • **Ports:** SAE O-ring • **Paint:** Black, unless otherwise indicated. Custom colors are available • **Packaging:** Individually poly bagged.



BORE	Dimensional Data in Inches (Millimeters)															
	A	B	C	E	G	H	I	J	M	P	Q	R	S	T	V	
3.000 (76.2)	12.250 (311.2)	0.188 (4.8)	SAE 8 3/4-16 (63.5)	2.500 (63.5)	2.717 (69.0)	1.165 (29.6)	1.165 (29.6)	2.125 (54.0)	2.060 (52.3)	0.425 (10.8)	1 1/4-12 UN (25.8)	1.015 (25.8)	1.060 (26.9)	1.132 (28.8)	4.062 (103.2)	
3.250 (82.6)	12.250 (311.2)	0.188 (4.8)	SAE 8 3/4-16 (63.5)	2.500 (63.5)	2.717 (69.0)	1.165 (29.6)	1.165 (29.6)	2.125 (54.0)	2.060 (52.3)	0.496 (12.6)	1 1/4-12 UN (25.8)	1.015 (25.8)	1.060 (26.9)	1.132 (28.8)	4.410 (112.0)	
3.500 (88.9)	12.250 (311.2)	0.188 (4.8)	SAE 8 3/4-16 (63.5)	2.500 (63.5)	2.717 (69.0)	1.165 (29.6)	1.165 (29.6)	2.125 (54.0)	2.000 (50.8)	0.496 (12.6)	1 1/4-12 UN (25.8)	1.015 (25.8)	1.125 (28.6)	1.132 (28.8)	4.510 (114.6)	
3.750 (95.2)	12.250 (311.2)	0.250 (6.4)	SAE 8 3/4-16 (70.0)	2.756 (70.0)	2.717 (69.0)	1.165 (29.6)	1.165 (29.6)	2.125 (54.0)	2.000 (50.8)	0.574 (14.6)	1 1/4-12 UN (25.8)	1.015 (25.8)	1.125 (28.6)	1.132 (28.8)	4.862 (123.5)	
4.000 (101.6)	12.250 (311.2)	0.250 (6.4)	SAE 8 3/4-16 (70.0)	2.756 (70.0)	2.717 (69.0)	1.165 (29.6)	1.165 (29.6)	2.125 (54.0)	2.000 (50.8)	0.574 (14.6)	1 1/4-12 UN (25.8)	1.015 (25.8)	1.125 (28.6)	1.132 (28.8)	5.080 (129.0)	

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