

CATFORD ENGINEERING PRODUCTS

Mobile: 0418 641566

Email: sales@catford.com.au

Website: www.catford.com.au

Black Line Clevis Cylinders

Rated Working Pressure 3000 PSI

Seal Kits Available



Prices July 2022

Part No.	Bore	Stroke	Shaft Diameter	Closed Length	Port Size	Pin Diameter	Price (Incl. GST)
CR156	1-1/2"	6"		16-1/4"	9/16" UN O-ring		\$225
CR28	2"	8"	1-1/4"	20-1/4"	3/4" UNF UN O-ring	1"	\$245
CR210		10"		20-1/4"			\$255
CR212		12"		22-1/4"			\$265
CR214		14"		24-1/4"			\$280
CR224		24"		34-1/4"			\$345
CR248		48"		58-1/4"			\$490
CR256	2-1/2"	6"	1-1/2"	16-1/4"			\$230
CR2512S		12"		22-1/4"			\$280
CR2512L		12"		24-1/4" Long Body			\$310
CR2518		18"		30-1/4" Long Body			\$330
CR2524		24"		36-1/4" Long Body			\$410
CR38	3"	8"		20-1/4"			\$300
CR312S		12"		22-1/4"			\$330
CR312L		12"		24-1/4" Long Body			\$345
CR316		16"		28-1/4"			\$365
CR318S		18"		28-1/4"			\$400
CR318L		18"		30-1/4" Long Body			\$420
CR324		24"		36-1/4" Long Body			\$510
CR358	3- 1/2"	8"	1-3/4"	20-1/4"			\$320
CR3516		16"		28-1/4" Long Body			\$460
CR3524		24"		36-1/4" Long Body			\$540
CR48	4"	8"	2"	20-1/4"			\$355
CR412		12"		22-1/4"			\$450
CR418		18"		28-1/4"			\$535
CR424		24"		34-1/4"			\$610

CATFORD ENGINEERING PRODUCTS

Black Line Bush Cylinders

Prices July 2022

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Part No.	Bore	Stroke	Shaft Diameter	Closed Length	Port Size	Eye Diameter	Eye Width		Price (Incl. GST)
							Body End	Rod End	
BR2524	2-1/2"	24"	1-1/2"	32"	3/4" UNF	3/4"	3-1/8"	2"	\$360
BR324	3"	24"	1-3/4"	32"		1"	3-5/8"	2-1/4"	\$420
BR3524	3-1/2"	24"	2"	32"			4-1/8"	2-1/2"	\$460
BR420	4"	20"	2-1/4"	32"		1-1/4"	4-3/4"	4"	\$495

CATFORD ENGINEERING PRODUCTS

Black Line Tie Rod Clevis Cylinders

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Rated Working Pressure 2500 PSI

Seal Kits Available

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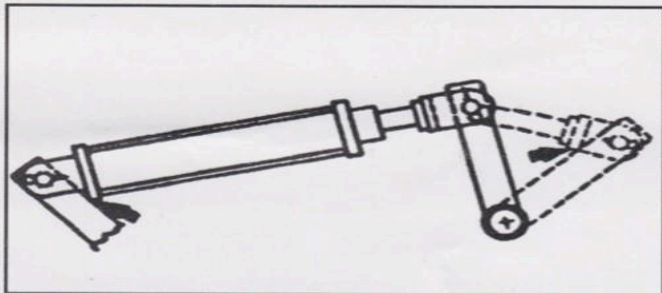
Part No.	Bore	Stroke	Shaft Diameter	Prices July 2022 Closed Length	Port Size	Pin Diameter	Price (Incl. GST)
TR28	2"	8"	1-1/8"	20-1/4"	3/8" NPT	1"	\$190
TR258	2-1/2"			20-1/4"			\$230
TR38	3"		1-1/4"	20-1/4"	1/2" NPT		\$245
TR358	3-1/2"			20-1/4"			\$255
TR2512	2-1/2"	12"	1-1/8"	22-1/4"	3/8" NPT		\$255
TR312	3"		1-1/4"	22-1/4"	1/2" NPT		\$270
TR316		16"		26-1/4"			\$295
TR318		18"		28-1/4"			\$310
TR48	4"	8"	1-1/2"	20-1/4"			

CATFORD ENGINEERING

HYDRAULIC PRODUCTS



COMMON CAUSES FOR HYDRAULIC CYLINDER FAILURES

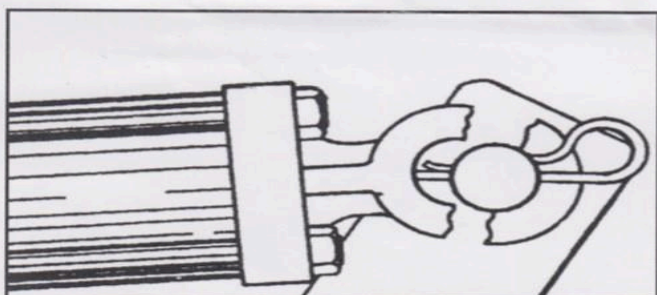
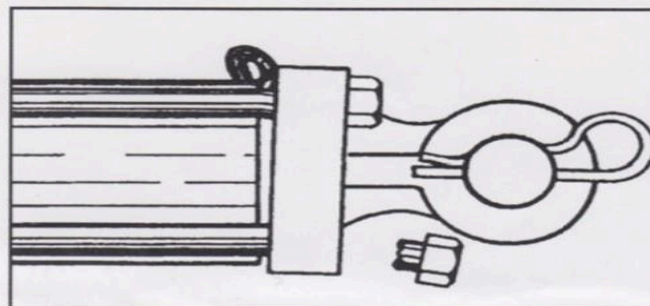


BENT PISTON ROD NORMALLY CAUSED BY:
BINDING IN ANY DIRECTION.

This could have been avoided by taking the simple precaution of checking bracket clearances **BEFORE—DURING—AFTER** the cylinder was extended, and before using the cylinder under pressure.

STRETCHED TIE RODS BLOWN BODY SEAL
NORMALLY CAUSED BY: TOO MUCH PRESSURE.

Extruded static seal and possibly broken or stretched tie rods. To avoid this trouble check pressure rating of the cylinder against the pump pressure rating of the tractor, the cylinder is to be used on or with.

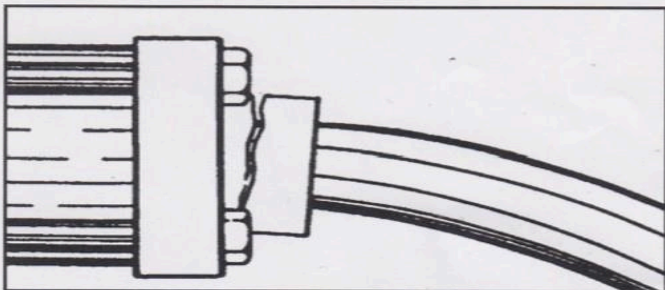
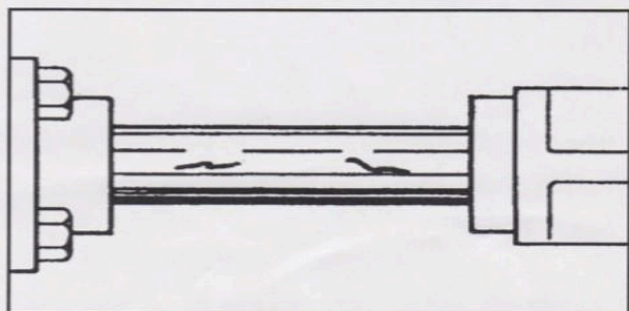


BROKEN CLEVIS ENDS NORMALLY CAUSED BY:
IMPROPER CLEARANCE IN THE MOUNTING BRACKETS.

Clevis castings can be broken if clearances are not adequate to allow free movement of the cylinder when fully extended. Hydraulic cylinders exert a tremendous amount of force and if retarded before they reach the end of the stroke something has to give, often the clevis casting.

ROUGH OR SCORED ROD.

Tie rod cylinder rods are hard chrome plated and welded cylinders are chrome steel. They can be marked or scored. Protect the rods at all times and be sure that nothing hits or rubs it when it is extended. Rough places on the rod damages the seals and reduces their normal life, resulting in the necessity for frequent replacement.



BROKEN HEAD CASTING NORMALLY CAUSED BY:
BENT PISTON ROD.

In case a rod becomes bent **DO NOT** attempt to pull the cylinder closed. To do so will almost invariably cause the head casting to crack or break.

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