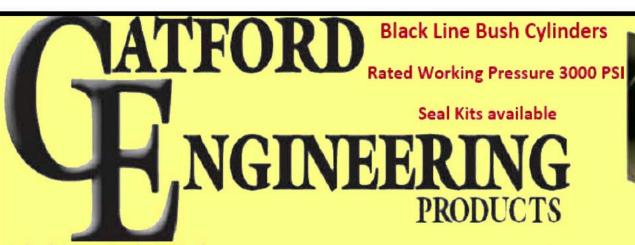
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		T.	Shaft			Pin	Price	
Part No.	Bore	Stroke	Diameter	Closed Length	Port Size	Diameter	(Incl. GST)	
CR154	1 1/2"	4"	7/8"	14-1/4"	9/16" UNF UN O-ring	1"	\$187	
CR156	,-	6"		16-1/4"			\$195	
CR28		8"	1-1/4"	20-1/4"	3/4" UNF UN O-ring		\$209	
CR210		10"		20-1/4"			\$220	
CR212		12"		22-1/4"			\$230	
CR214	2"	14"		24-1/4"			\$242	
CR218		18"		28-1/4"			\$253	
CR224	Q.	24"		34-1/4"			\$297	
CR248		48"		58-1/4"			\$490	
CR256		6"	1-1/2"	16-1/4"			\$198	
CR2512S	2-1/2"	12"		22-1/4"			\$242	
CR2512L		12"		24-1/4" Long Body			\$262	
CR2518		18"		30-1/4" Long Body			\$285	
CR2524		24"		36-1/4" Long Body			\$350	
CR38	3"	8"		20-1/4"			\$253	
CR312S		12"		22-1/4"			\$286	
CR312L		12"		24-1/4" Long Body			\$300	
CR316		16"		28-1/4"			\$315	
CR318S		18"		28-1/4"			\$345	
CR318L		18"		30-1/4" Long Body			\$365	
CR324		24"		36-1/4" Long Body			\$440	
CR358	3- 1/2"	8"	1-3/4"	20-1/4"			\$275	
CR3516		16"		28-1/4" Long Body			\$399	
CR3524		24"		36-1/4" Long Body			\$470	
CR48	1	8"	2"	20-1/4"			\$308	
CR412	4"	12"		22-1/4"				\$390
CR418		18"		28-1/4"			\$462	
CR424		24"	4	34-1/4"			\$528	



Black Line Bush Cylinders

Rated Working Pressure 3000 PSI

Seal Kits available



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Rated Working Pressure 3000 PSI

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			Shaft	No. 1		Eye	Eye Width		Price
Part No.	Bore	Stroke	Diameter	Closed Length	Port Size	Diameter	Body End	Rod End	(Incl. GST)
BR2512		12"		20"			3-1/8"	2"	\$225
BR2518	2-1/2"	18"	1-1/2"	26"		3/4"	3-1/8"	2"	\$285
BR2524		24"		32"	2/4" LINE		3-1/8"	2"	\$310
BR324	3"	24"	1-3/4"	32"	3/4 UNF	1"	3-5/8"	2-1/4"	\$365
BR3524	3-1/2"	24"	2"	32"		1	4-1/8"	2-1/2"	\$396
BR420	4"	20"	2-1/4"	32"		1-1/4"	4-3/4"	4"	\$429
BR324 BR3524	3" 3-1/2"	24" 24"	2"	32" 32"	3/4" UNF	1"	3-5/8" 4-1/8"	2-1/4" 2-1/2"	\$3 \$3









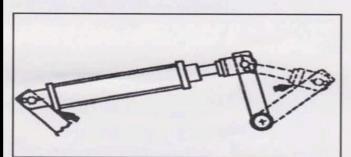
			Shaft			Pin	Price
Part No.	Bore	Stroke	Diameter	Closed Length	Port Size	Diameter	(Incl. GST)
TR28	2"	8"	1-1/8"	20-1/4"	3/8" NPT	1"	\$165
TR258	2-1/2"			20-1/4"			\$198
TR38	3"		1-1/4"	20-1/4"	1/2" NPT		\$210
TR358	3-1/2"			20-1/4"			\$220
TR2512	2-1/2"	12"	1-1/8"	22-1/4"	3/8" NPT		\$220
TR312		16" 18"	1-1/4"	22-1/4"	1/2" NPT		\$231
TR316	3"			26-1/4"			\$253
TR318				28-1/4"			\$264
TR48	4"	8"		20-1/4"			\$275





"A 100% Australian Owned & Operated Company"

COMMON CAUSES FOR HYDRAULIC CYLINDER FAILURES

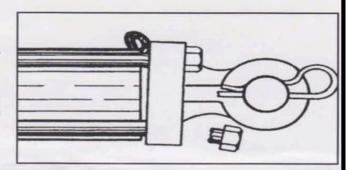


BENT PISTON ROD NORMALLY CAUSED BY: BINDING IN ANY DIRECTION

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.

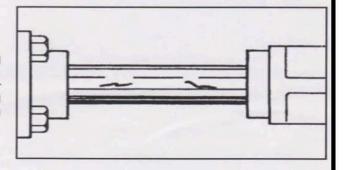


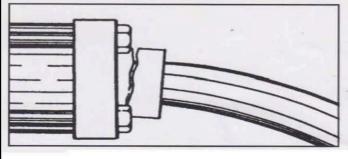
BROKEN CLEVIS ENDS NORMALLY CAUSED BY: IMPROPER CLEARANCE IN THE MOUNTING BRACKETS.

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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