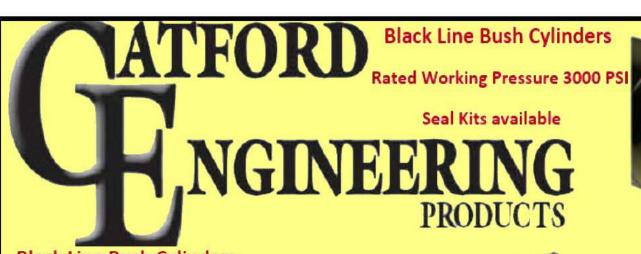
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And the second	Lange	12.000.000.000	Shaft	CALLES TO A CONTROL OF		Pin	Price
Part No.	Bore	Stroke	Diameter	Closed Length	Port Size	Diameter	(Incl. GST)
CR154	1 1/2"	4"	7/8"	14-1/4"	9/16" UNF UN O-ring	1"	\$187
CR156		6"		16-1/4"			\$195
CR28	2"	8"	1-1/4"	20-1/4"	3/4" UNF UN O-ring		\$209
CR210		10"		20-1/4"			\$220
CR212		12"		22-1/4"			\$230
CR214		14"		24-1/4"			\$242
CR218		18"		28-1/4"			\$253
CR224		24"		34-1/4"			\$297
CR248		48"		58-1/4"			\$490
CR256		6"	1-1/2"	16-1/4"			\$198
CR2512S		12"		22-1/4"			\$242
CR2512L	2-1/2"	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
CR3125		12"		22-1/4"			\$286
CR312L		12"		24-1/4" Long Body			\$300
CR316		16"		28-1/4"			\$315
CR3185		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	4"	8"	2"	20-1/4"			\$308
CR412		12"		22-1/4"			\$390
CR418		18"		28-1/4"			\$462
CR424		24"		34-1/4"			\$528



Black Line Bush Cylinders

Rated Working Pressure 3000 PSI

Seal Kits available



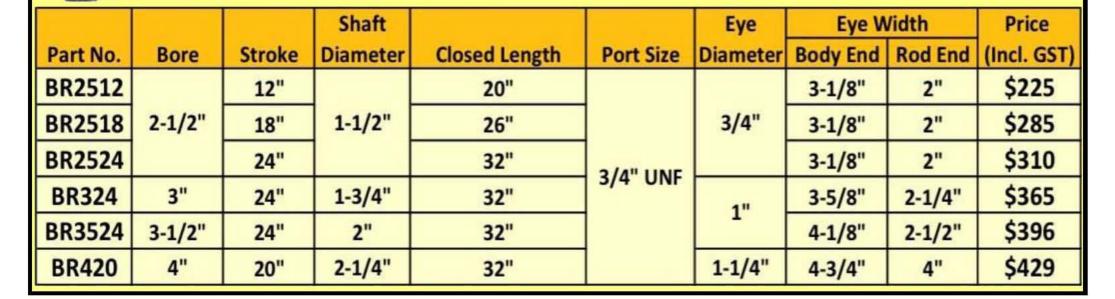
Black Line Bush Cylinders

Rated Working Pressure 3000 PSI

Seal Kits available

Email: sales@catford.com.au

Website: www.catford.com.au





Rated Working Pressure 2500 PSI

Seal Kits available

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

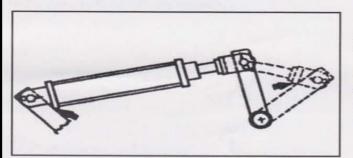
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"A 100% Australian Owned & Operated Company"

COMMON CAUSES FOR HYDRAULIC CYLINDER FAILURES

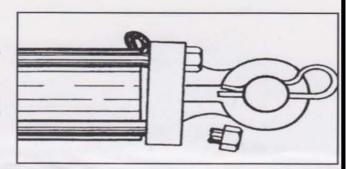


BENT PISTON ROD NORMALLY CAUSED BY: BINDING IN ANY DIRECTION

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.

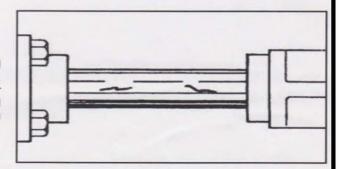


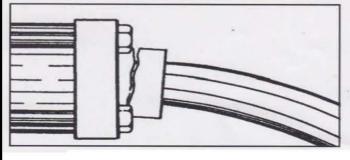
BROKEN CLEVIS ENDS NORMALLY CAUSED BY: IMPROPER CLEARANCE IN THE MOUNTING BRACKETS.

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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