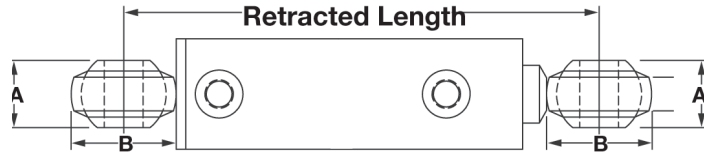


Swivel Ball End Cylinders

• Brand new, WOLVERINE by PRINCE double acting cylinders with swivel eyes. Heavy duty welded construction with thread-in gland design. Top port design with SAE O-ring ports for reliable and leak free connection. Spherical ball end swivel eye mount on both ends to allow for angular misalignment. 3000PSI



1" BORE	SPECIFICATIONS: Ports SAE 6, 1/2" dia. pins.					
	ITEM	Stroke	Rod Dia.	Retracted Lgth.	Shpg.	Price
	9-12228-4	4"	5/8"	10"	5 lbs.	\$101.25
	9-12228-6	6"	5/8"	12"	5 lbs.	\$106.00
	9-12228-8	8"	5/8"	14"	6 lbs.	\$110.70
	9-12228-10	10"	5/8"	16"	7 lbs.	\$116.10
	9-12228-12	12"	5/8"	18"	7 lbs.	\$120.85

Bore	Ball End Width		Ball End O.D.
	A	B	
1"	1"	2"	
1 1/2"	1"	2"	
2"	1"	2 3/4"	
2 1/2"	1"	2 3/4"	
3"	1 1/4"	3.13"	

1 1/2" BORE	SPECIFICATIONS: Ports SAE 6, 3/4" dia. pins.					
	ITEM	Stroke	Rod Dia.	Retracted Lgth.	Shpg.	Price
	9-12229-4	4"	1"	11 1/4"	6 lbs.	\$101.95
	9-12229-6	6"	1"	13 1/4"	7 lbs.	\$101.95
	9-12229-8	8"	1"	15 1/4"	9 lbs.	\$117.45
	9-12229-10	10"	1"	17 1/4"	10 lbs.	\$132.30
	9-12229-12	12"	1"	19 1/4"	11 lbs.	\$147.85
	9-12229-14	14"	1"	21 1/4"	12 lbs.	\$163.35
	9-12229-16	16"	1"	23 1/4"	13 lbs.	\$178.20

2 1/2" BORE	SPECIFICATIONS: Ports SAE 8, 1" dia. pins.					
	ITEM	Stroke	Rod Dia.	Retracted Lgth.	Shpg.	Price
	9-12231-6	6"	1 1/2"	13 1/2"	17 lbs.	\$172.15
	9-12231-8	8"	1 1/2"	15 1/2"	19 lbs.	\$187.65
	9-12231-10	10"	1 1/2"	17 1/2"	21 lbs.	\$202.50
	9-12231-12	12"	1 1/2"	19 1/2"	23 lbs.	\$212.65
	9-12231-16	16"	1 1/2"	23 1/2"	27 lbs.	\$243.70
	9-12231-20	20"	1 1/2"	27 1/2"	30 lbs.	\$268.65
	9-12231-24	24"	1 1/2"	31 1/2"	34 lbs.	\$299.70

2" BORE	SPECIFICATIONS: Ports SAE 8, 1" dia. pins.					
	ITEM	Stroke	Rod Dia.	Retracted Lgth.	Shpg.	Price
	9-12230-6	6"	1 1/4"	13 1/2"	15 lbs.	\$141.75
	9-12230-8	8"	1 1/4"	15 1/2"	16 lbs.	\$157.95
	9-12230-10	10"	1 1/4"	17 1/2"	17 lbs.	\$172.80
	9-12230-12	12"	1 1/4"	19 1/2"	19 lbs.	\$188.35
	9-12230-16	16"	1 1/4"	23 1/2"	22 lbs.	\$218.70
	9-12230-20	20"	1 1/4"	27 1/2"	24 lbs.	\$244.35
	9-12230-24	24"	1 1/4"	31 1/2"	27 lbs.	\$270.70
	9-12230-30	30"	1 1/4"	37 1/2"	32 lbs.	\$301.05

3" BORE	SPECIFICATIONS: Ports SAE 8, 1" dia. pins.					
	ITEM	Stroke	Rod Dia.	Retracted Lgth.	Shpg.	Price
	9-12232-6	6"	1 1/2"	14 1/4"	20 lbs.	\$193.05
	9-12232-8	8"	1 1/2"	16 1/4"	22 lbs.	\$205.90
	9-12232-10	10"	1 1/2"	18 1/4"	24 lbs.	\$229.50
	9-12232-12	12"	1 1/2"	20 1/4"	26 lbs.	\$288.25
	9-12232-16	16"	1 1/2"	24 1/4"	31 lbs.	\$272.70
	9-12232-20	20"	1 1/2"	28 1/4"	36 lbs.	\$303.10
	9-12232-24	24"	1 1/2"	32 1/4"	41 lbs.	\$334.15



Clevis End Cylinders



COLUMBUS HYDRAULICS
FLUID POWER IN ACTION.



• Brand new COLUMBUS HYDRAULICS. Double acting cylinders with formed clevis ends. Made in USA.

1" BORE	SPECIFICATIONS: Working pressure 1500 PSI, rod dia. 1/2", ports 1/4" NPT, pin holes 1/2".					
	ITEM	Stroke	Retracted Lgth.	Shpg.	Price	
	9-1649-04	4"	10 1/2"	6 lbs.	\$125.40	
	9-1649-06	6"	12 1/2"	6 lbs.	\$131.25	
	9-1649-08	8"	14 1/2"	7 lbs.	\$138.75	
	9-1649-10	10"	16 1/2"	7 lbs.	\$152.10	
	9-1649-12	12"	18 1/2"	8 lbs.	\$159.00	



COLUMBUS HYDRAULICS
FLUID POWER IN ACTION.



1 1/2" Bore Cylinders



• Brand new COLUMBUS HYDRAULICS. Welded double acting cylinders with cross tube ends. Internal gland with snap ring. Made in USA.

1 1/2" BORE	SPECIFICATIONS: Max. 2000 PSI, rod dia. 3/4", ports 3/8" NPT, pin holes 3/4".				
	ITEM	Stroke	Retracted Lgth.	Shpg.	Price
	9-4410-04	4"	9 1/2"	8 lbs.	\$139.50
	9-4410-06	6"	11 1/2"	9 lbs.	\$148.65
	9-4410-08	8"	13 1/2"	10 lbs.	\$157.50
	9-4410-10	10"	15 1/2"	11 lbs.	\$166.80
	9-4410-12	12"	17 1/2"	12 lbs.	\$175.95
	9-4410-14	14"	19 1/2"	12 lbs.	\$187.95
	9-4410-16	16"	21 1/2"	13 lbs.	\$192.75
	9-4410-18	18"	23 1/2"	14 lbs.	\$201.75