ZINKO Single-Acting Hydraulic Cylinders

Model: ZR & ZRH Series (*Standard & Hollow Type*)
Stroke: 2" to 14"
Capacity: 5-100 tons
Max. Operating Pressure: 10,000 psi (700 bar)

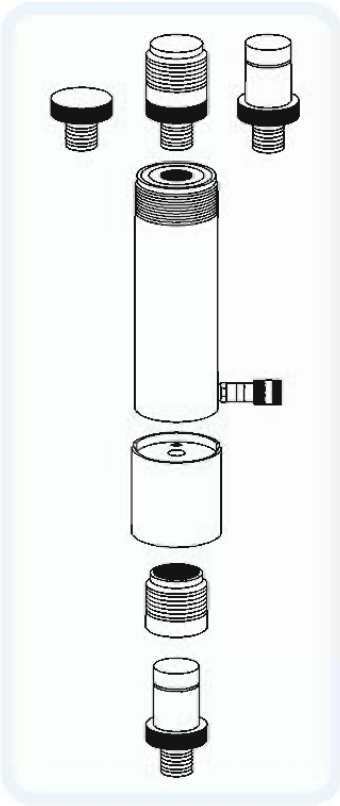
Usage

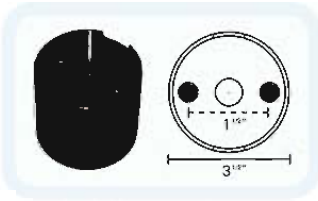
These industrial quality, general purpose cylinders are designed for use in a variety of applications where lifting, pushing, bending, or holding may be required. Ideal for use in shop, agricultural, automotive/truck service and construction maintenance.

With appropriate accessories, these cylinders can be paired with either hand pumps, air pumps, or electric pumps.

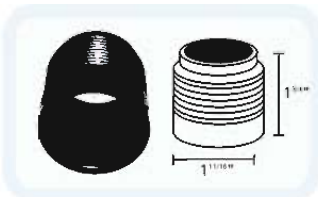
Special Features

1. Designed for use in any position.
2. Polyurethane seals and wipers reduce contamination.
3. Hardened saddles keep top bearing and plunger from jamming while the saddle grooves help prevent slippage.
4. Threaded collar and internal threads withstand full loads for maximum flexibility in fixturing.
5. Steel top stop ring protects against piston blow-out and allows the cylinder to be operated safely during full stroke applications.
6. Heavy-duty return springs enable fast and consistent plunger retraction.
7. High-strength alloy steel construction with chrome-plated piston rods that resist wear and corrosion.
8. One piece copper ring cradles the piston rod and absorbs eccentric loading while providing side load protection.
9. Baked enamel finish for outstanding corrosion prevention.

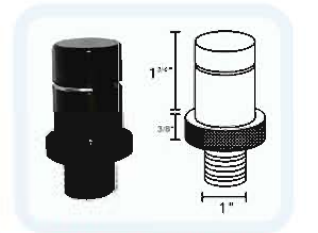




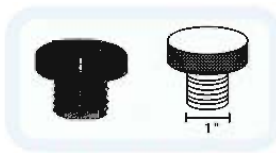
2110-22 Rod-end threaded type adapter (top view)



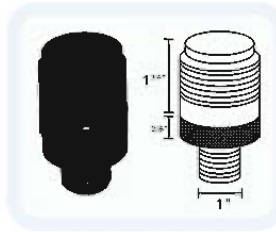
2110-21 Threaded male to snap-type female base adapter



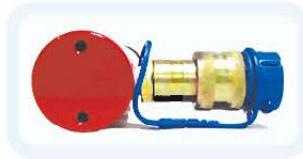
2110-19 Snap-type male connector



2110-18 Saddle (additional option)

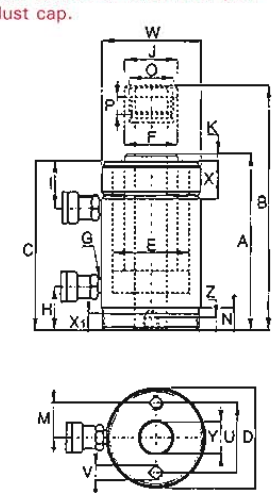


2110-20 Threaded-type male connector



All models are designed with base mounting holes (5/16-18 UNC) for easy mounting on fixtures.

All models come with a 3/8" N.P.T. fast-flow quick-connection coupler and dust cap.



Model Number	Stroke (in)	Oil Cap. (in^3)	Cylinder Effective Area (in^2)	Collapsed Height A	Extended Height B	Outside Dia. D	Cylinder Bore Dia. E	Plunger Diameter F	Base to Adv. Port H	Saddle Dia. J	Protrusion from Plunger K	Plunger Internal Thread O	Plunger Thread Length P	Base Mounting Holes: Bolt Circle U	Base Mounting Holes: Thread V	Base Mounting Holes: Thread Depth Z	Collar Thread W	Collar Thread Length X	Ship Weight (lbs)
5 Ton Capacity																			
ZR-50	0.63	0.62	0.99	1.63	2.25	2.31	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.56	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	3
ZR-51	1.00	0.99	0.99	4.34	5.34	1.50	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.56	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	3
ZR-53	3.00	2.98	0.99	6.50	9.50	1.50	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.56	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	4
ZR-55	5.00	4.97	0.99	8.50	13.50	1.50	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.56	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	5
ZR-57	7.00	4.97	0.99	10.75	17.75	1.50	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.63	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	6
ZR-59	9.13	4.97	0.99	12.75	21.88	1.50	1.13	1.00	0.75	1.00	0.25	3/4 - 16	0.63	1.00	1/4 - 20 UN	0.56	1 1/2 - 16	1.13	7
10 Ton Capacity																			
ZR-101	1.00	2.24	2.24	3.63	4.53	2.25	1.69	1.50	0.77	1.38	0.36	#10-24UN	0.25	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.06	4
ZR-102	2.00	4.75	2.24	4.78	7.89	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.89	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.18	6
ZR-104	4.00	9.23	2.24	6.75	11.89	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.89	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.18	8
ZR-106	6.00	13.7	2.24	9.89	15.89	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.89	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.18	10
ZR-108	8.00	17.89	2.24	11.89	19.89	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.89	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.18	12
ZR-1010	10.00	22.65	2.24	13.89	23.89	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.89	1.56	5/16 - 18 UN	0.59	2 1/4 - 14	1.18	14
ZR-1012	12.00	26.84	2.24	15.75	27.75	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.75	1.56	5/16 - 18 UN	0.50	2 1/4 - 14	1.06	15
ZR-1014	14.00	31.31	2.24	17.75	31.75	2.25	1.69	1.50	0.77	1.38	0.36	1 - 8	0.75	1.56	5/16 - 18 UN	0.50	2 1/4 - 14	1.06	18
12 Ton Capacity																			
ZRH-120	0.31	0.86	2.77	2.19	2.50	2.75	2.13	1.38	0.38			3/4-16UN	0.63	2	5/16-18UNC	0.35	2-3/4 - 16	1.18	4
ZRH-121	1.63	4.52	2.77	4.75	6.38	2.75	2.13	1.38	0.75								2-3/4 - 16	1.19	7
ZRH-1211	1.63	4.52	2.77	4.75	6.38	2.75	2.13	1.38	0.75			3/4-16UN	0.63				2-3/4 - 16	1.19	7
ZRH-123	3.00	8.31	2.77	7.25	10.25	2.75	2.13	1.38	0.75					2	5/16-18UNC	0.50	2-3/4 - 16	1.19	10
15 Ton Capacity																			
ZR-151	1.00	3.14	3.14	4.88	5.88	2.75	2.00	1.63	0.75	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	8
ZR-152	2.00	6.28	3.14	5.88	7.88	2.75	2.00	1.63	0.75	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	9
ZR-154	4.00	12.59	3.14	7.88	11.88	2.75	2.00	1.63	0.75	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	11
ZR-156	6.00	18.85	3.14	10.69	16.69	2.75	2.00	1.63	1.00	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	15
ZR-158	8.00	25.13	3.14	12.69	20.69	2.75	2.00	1.63	1.00	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	18
ZR-1510	10.00	31.42	3.14	14.69	24.69	2.75	2.00	1.63	1.00	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	21
ZR-1512	12.00	37.7	3.14	16.69	28.69	2.75	2.00	1.63	1.00	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	24
ZR-1514	14.00	43.98	3.14	18.69	32.69	2.75	2.00	1.63	1.00	1.50	0.38	1 - 8	1.00	1.88	3/8 - 16 UN	0.50	2 3/4 - 16	1.19	26
20 Ton Capacity																			
ZRH-202	2.00	9.46	4.73	6.38	8.38	3.88	2.88	2.13	0.75	2.13	0.27	1 9/16 - 16UN	0.75				3 7/8 - 12	1.5	17
ZRH-206	6.10	28.67	4.73	12.05	18.11	3.88	2.88	2.13	0.75	2.13	0.27	1 9/16 - 16UN	0.75				3 7/8 - 12	1.5	31
25 Ton Capacity																			
ZR-251	1.00	5.16	5.16	5.50	6.50	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	13
ZR-252	2.00	10.31	5.16	6.50	8.50	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	14
ZR-254	4.00	20.63	5.16	8.50	12.50	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	18
ZR-256	6.25	32.23	5.16	10.75	17.00	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	22
ZR-258	8.25	42.55	5.16	12.75	21.00	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	27
ZR-2510	10.25	52.86	5.16	14.75	25.00	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	31
ZR-2512	12.25	63.18	5.16	16.75	29.00	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	36
ZR-2514	14.25	73.49	5.16	18.75	33.00	3.38	2.56	2.25	1.00	2.00	0.41	1 1/2 - 16	1.00	2.31	1/2 - 13 UN	0.75	3 5/16 - 12	1.94	39
30 Ton Capacity																			
ZR-302	2	12.98	6.51	4.63	7.06	4.00	2.88	2.62	0.75	–	0.12	--	–	–	--	–	--	–	15
ZR-308	8.25	53.56	6.49	15.25	23.5	4.00	2.88	2.25	2.25	2.00	0.41	1 1/2 - 16	1.00	–	--	--	3 5/16 - 12	1.94	40
ZRH-302	2.50	18.05	7.22	7.03	9.53	4.50	3.50	2.50	0.85	2.50	0.38	1 13/16-16UN	0.88				4 1/2-12	1.66	24
ZRH-306	6.13	44.23	7.22	13.00	19.13	4.50	3.50	2.50	1.00	2.50	0.38	1 19/16-16UN	0.88				4 1/2-12	1.66	48
50 Ton Capacity																			
ZR-502	2.00	22.09	11.04	6.94	8.94	5.00	3.75	3.13	1.31	2.81	0.11	--	–	3.75	1/2 - 13 UN	0.75	5 - 12	2.19	33
ZR-504	4.00	44.18	11.04	8.94	12.94	5.00	3.75	3.13	1.31	2.81	0.11	--	–	3.75	1/2 - 13 UN	0.75	5 - 12	2.19	42
ZR-506	6.25	69.03	11.04	11.13	17.38	5.00	3.75	3.13	1.38	2.81	0.11	--	–	3.75	1/2 - 13 UN	0.75	5 - 12	2.19	51
ZR-5013	13.25	146.74	11.04	18.13	31.38	5.00	3.75	3.13	1.38	2.81	0.11	--	–	3.75	1/2 - 13 UN	0.75	5 - 12	2.19	83
60 Ton Capacity																			
ZRH-603	3.00	38.2	12.73	9.75	12.75	6.25	4.88	3.63	1.25	3.61	0.50	2 3/4-16UN	0.75				1.91	2.12	62
ZRH-606	6.00	76.41	12.73	12.75	18.75	6.25	4.88	3.63	1.25	3.61	0.50	2 3/4-16UN	0.75				1.91	2.12	78
75 Ton Capacity																			
ZR-756	6.13	97.41	15.90	11.25	17.38	5.75	4.50	3.75	1.19	2.81	0.23	--	–	–	--	–	5 3/4 - 12	1.75	65
ZR-7513	13.13	208.74	15.90	19.38	32.50	5.75	4.50	3.75	1.19	2.81	0.23	--	–	–	--	–	5 3/4 - 12	1.75	130
100 Ton Capacity																			
ZR-1006	6.63	136.67	20.63	14.06	20.69	7.00	5.13	4.13	1.63	2.81	0.11	--	–	5.50	3/4 - 10 UN	1.00	6 7/8 - 12	1.75	130
ZR-10010	10.25	211.45	20.63	17.69	27.94	7.00	5.13	4.13	1.63	2.81	0.11	--	–	5.50	3/4 - 10 UN	1.00	6 7/8 - 12	1.75	160

ZINKO Hydraulic Jack
PO Box 4903
Ontario, CA 91761
Toll Free: (800) 579-8088
Web: www.zinko.com