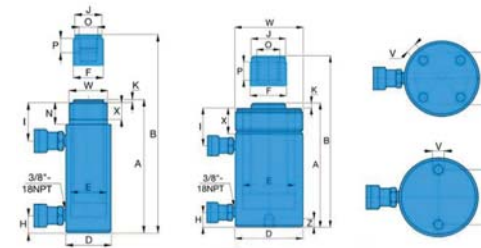


01 CYLINDERS



DR SERIES (D.A. Regular)

- Collar threads supply an easy fixture.
- With different mounting attachment, the application possibilities are greatly extended.
- Special designed cup seal provides for steady and durable performance.
- High strength alloy steel body is durable for long working life.
- Chrome plated rod prevent rust and corrosion.



Model	Cylinder Capacity (tons)	Stroke		Oil Capacity				Effective Area				Cylinder Capacity		Weight		A Collapsed Height		B Extended Height		D Outside Dia.		E Bore Dia.		F Plunger Dia.		H Base to Adv. Port.		I Top to return Port		J Saddle Dia.		K Saddle Protusion		P Thread Length		W Collar Thread		X Thread Length		U Bolt Circle		V Thread		Z Thread Depth	
		mm	inch	cm ³		inch ³		cm ²		inch ²		tons		kg	lbs	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch		
		mm	inch	Push	Pull	Push	Pull	Push	Pull	Push	Pull	Push	Pull	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
DR-1010	10	254	10.00	368	122	22.46	7.44	14.5	4.8	2.25	0.74	11.1	4	12	26.5	409	16.10	663	26.10	73	2.87	42.9	1.69	34.9	1.37	36	1.42	57	2.24	35	1.38	6	0.24	1" - 8	25	0.98	2-1/4" - 14	26	1.02	-	-	-	-	-	-
DR-1012		305	12.01	442	147	26.97	8.97	14.5	4.8	2.25	0.74	11.1	4	14	30.9	457	17.99	762	30.00	73	2.87	42.9	1.69	34.9	1.37	36	1.42	57	2.24	35	1.38	6	0.24	1" - 8	25	0.98	2-1/4" - 14	26	1.02	-	-	-	-	-	-
DR-3018	30	209	8.23	879	400	53.64	24.41	42.1	18.1	6.53	2.96	32.5	6	18	39.7	395	15.55	604	23.78	101	3.98	73.2	2.88	54.1	2.13	39	1.54	81	3.19	50	1.97	10	0.39	1-1/2" - 16	25	0.98	3-5/16" - 12	49	1.93	-	-	-	-	-	-
DR-3014		368	14.49	1549	703	94.53	42.90	42.1	18.1	6.53	2.96	32.5	6	29	63.9	549	21.61	917	36.10	101	3.98	73.2	2.88	54.1	2.13	39	1.54	81	3.19	50	1.97	10	0.39	1-1/2" - 16	25	0.98	3-5/16" - 12	49	1.93	-	-	-	-	-	-
DR-5016	50	156	6.14	1111	335	67.80	20.44	71.2	21.5	11.04	3.33	55.3	11.8	30	66.1	331	13.03	487	19.17	127	5.00	95.2	3.75	79.5	3.13	28	1.10	76	2.99	71	2.80	2	0.08	1" - 12	25	0.98	5" - 12	44	1.73	-	-	-	-	-	-
DR-5013		334	13.15	2378	718	145.11	43.81	71.2	21.5	11.04	3.33	55.3	11.8	52	114.6	509	20.04	843	33.19	127	5.00	95.2	3.75	79.5	3.13	28	1.10	76	2.99	71	2.80	2	0.08	1" - 12	25	0.98	5" - 12	44	1.73	-	-	-	-	-	-
DR-5020	511	20.12	3638	1099	222.00	67.06	71.2	21.5	11.04	3.33	55.3	11.8	68	149.9	733	28.86	1244	48.98	127	5.00	95.2	3.75	79.5	3.13	28	1.10	76	2.99	71	2.80	2	0.08	1" - 12	25	0.98	5" - 12	44	1.73	76	2.99	1/4" - 13	25	0.98		
DR-7516	75	156	6.14	1601	490	97.70	29.90	102.6	31.4	15.90	4.87	79.6	17.6	41	90.4	347	13.66	503	19.80	146	5.75	114.3	4.50	95.2	3.75	30	1.18	76	2.99	71	2.80	6	0.24	1" - 12	38	1.50	5-3/4" - 12	38	1.50	-	-	-	-	-	
DR-7513		333	13.11	3417	1046	208.52	63.83	102.6	31.4	15.90	4.87	79.6	17.6	68	149.9	525	20.67	858	33.78	146	5.75	114.3	4.50	95.2	3.75	30	1.18	81	3.19	71	2.80	6	0.24	1" - 12	38	1.50	5-3/4" - 12	38	1.50	-	-	-	-	-	
DR-1006	100	168	6.61	2238	1045	136.57	63.77	133.3	62.2	20.66	9.64	103.2	48	61	134.5	357	14.06	525	20.67	177	6.97	130.3	5.13	95.2	3.75	38	1.50	71	2.80	76	2.99	3	0.12	1-3/4" - 12	35	1.38	6-7/8" - 12	50	1.97	139	5.47	3/4" - 10	25	0.98	
DR-1003		333	13.11	4439	2071	270.88	126.38	133.3	62.2	20.66	9.64	103.2	48	93	205.0	524	20.63	857	33.74	177	6.97	130.3	5.13	95.2	3.75	38	1.50	71	2.80	76	2.99	3	0.12	1-3/4" - 12	35	1.38	6-7/8" - 12	50	1.97	139	5.47	3/4" - 10	25	0.98	
DR-10018	460	18.11	6132	2861	374.20	174.59	133.3	62.2	20.66	9.64	103.2	48	117	257.9	687	27.05	1147	45.16	177	6.97	130.3	5.13	95.2	3.75	41	1.61	82	3.26	76	2.99	3	0.12	1-3/4" - 12	35	1.38	6-7/8" - 12	50	1.97	139	5.47	3/4" - 10	25	0.98		
DR-1502	150	57	2.24	1129	544	88.90	33.20	198.1	95.4	30.71	14.79	153.5	74	49	108.0	196	7.72	253	9.96	203	7.99	158.8	6.25	114.3	4.50	22	0.87	66	2.60	95	3.74	19	0.75	-	-	-	-	-	-	-	-	-			
DR-1506		156	6.14	3090	1468	188.56	90.80	198.1	95.4	30.71	14.79	153.5	74	93	205.0	385	15.16	541	21.30	203	7.99	158.8	6.25	114.3	4.50	49	1.93	84	3.31	114	4.49	19	0.75	3-3/8" - 16	35	1.38	8" - 12	55	2.17	158	6.22	3/4" - 16	28	1.10	
DR-1503	333	13.11	6597	3177	402.57	193.87	198.1	95.4	30.71	14.79	153.5	74	124	273.4	582	22.91	915	36.02	203	7.99	158.8	6.25	114.3	4.50	49	1.93	84	3.31	114	4.49	19	0.75	3-3/8" - 16	35	1.38	8" - 12	55	2.17	158	6.22	3/4" - 16	28	1.10		
DR-15032	815	32.09	16145	7775	985.23	474.46	198.1	95.4	30.71	14.79	153.5	74	238	524.7	1116	43.94	1931	76.02	203	7.99	158.8	6.25	114.3	4.50	76	2.99	88	3.46	114	4.49	19	0.75	3-3/8" - 16	35	1.38	8" - 12	55	2.17	-	-	-	-	-		
DR-2006	200	152	5.98	4332	2209	264.35	134.80	285.0	145.3	44.18	22.52	221.0	112.5	147	324.1	430	16.93	582	22.91	247	9.72	190.5	7.50	133.4	5.25	57	2.24	96	3.78	133	5.24	22	0.87	-	-	-	-	-	127	5.00	1" - 8	25	0.98		
DR-20013		330	12.99	9405	4795	573.93	292.61	285.0	145.3	44.18	22.52	221.0	112.5	199	438.7	608	23.94	938	36.93	247	9.72	190.5	7.50	133.4	5.25	57	2.24	96	3.78	133	5.24	22	0.87	2-1/2" - 12	63	2.48	9-3/4" - 12	54	2.13	127	5.00	1" - 8	25	0.98	
DR-20018	457	17.99	13025	6840	794.83	405.20	285.0	145.3	44.18	22.52	221.0	112.5	204	449.7	765	30.12	1222	48.11	247	9.72	190.5	7.50	133.4	5.25	85	3.35	101	3.98	133	5.24	22	0.87	2-1/2" - 12	63	2.48	9-3/4" - 12	54	2.13	127	5.00	1" - 8	25	0.98		
DR-20024	610	24.02	17385	8863	1060.90	540.85	285.0	145.3	44.18	22.52	221.0	112.5	279	615.1	917	36.10	1527	60.12	247	9.72	190.5	7.50	133.4	5.25	85	3.35	101	3.98	133	5.24	22	0.87	2-1/2" - 12	63	2.48	9-3/4" - 12	54	2.13	127	5.00	1" - 8	25	0.98		
DR-20036	914	35.98	26049	13280	1589.60	810.39	285.0	145.3	44.18	22.52	221.0	112.5	383	844.4	1222	48.11	2136	84.09	247	9.72	190.5	7.50	133.4	5.25	85	3.35	101	3.98	133	5.24	22	0.87	2-1/2" - 12	63	2.48	9-3/4" - 12	54	2.13	127	5.00	1" - 8	25	0.98		
DR-20048	1219	47.99	34741	17712	2120.98	1080.85	285.0	145.3	44.18	22.52	221.0	112.5	483	1064.8	1527	60.12	2746	108.11	247	9.72	190.5	7.50	133.4	5.25	85	3.35	101	3.98	133	5.24	22	0.87	2-1/2" - 12	63	2.48	9-3/4" - 12	54	2.13	127	5.00	1" - 8	25	0.98		
DR-3006	300	153	6.02	6997	3721	426.98	227.07	457.3	243.2	70.88	37.70	354.6	190	200	440.9	485	19.09	638	25.12	311	12.24	241.3	9.50	165.1	6.50	88	3.46	114	4.49	165	6.50	28	1.10	2-1/2" - 12	82	3.23	12-1/4" - 12	58	2.28	158	6.22	1-1/4" - 7	44	1.73	
DR-30012		305	12.01	13947	7418	851.10	452.67	457.3	243.2	70.88	37.70	354.6	190	312	687.8	638	25.12	943	37.13	311	12.24	241.3	9.50	165.1	6.50	88	3.46	114	4.49	165	6.50	28	1.10	2-1/2" - 12	82	3.23	12-1/4" - 12	58	2.28	158	6.22	1-1/4" - 7	44	1.73	
DR-30018	457	17.99	20889	1114	1274.72	678.22	457.3	243.2	70.88	37.70	354.6	190	385	848.8	790	31.10	1247	49.09	311	12.24	241.3	9.50	165.1	6.50	88	3.46	114	4.49</																	