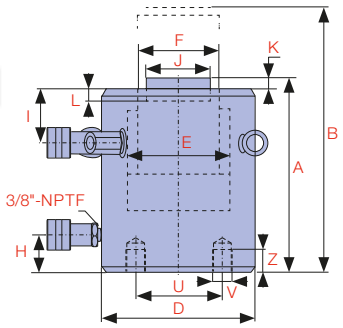
RDHG-3006

RDHG-2502

THE **RDHG-SERIES** IS A DOUBLE ACTING HIGH TONNAGE CYLINDER RANGE UP TO 1,600 TON CAPACITY. FOR USE IN CIVIL CONSTRUCTION, HEAVY JACKING, STRESSING BEDS AND OTHER HIGH LOAD APPLICATIONS.

These cylinders feature a hard chrome piston rod for maximum corrosion resistance and bronze overlay piston bearing area to resist side load induced damage. A built in stop ring ensures maximum performance and safety. Interchangeable hardened grooved load caps are standard and TSG tilt saddles are optional. All cylinders in this range have base mounting holes and a retract side concealed safety pressure relief valve.



RDHG-502 - 15012

Model Number	Cylinder Capacity			Stroke (in)	Cylinder Effective Area		Oil Capacity		A Collapsed Height (in)	B Extended Height (in)	D Outside Diameter (in)	E Cylinder Bore Diameter (in)	F Piston Rod Diameter (in)	H Base to Advance Port (in)
	ton*	Advance ton* / max.	Retract ton* / max.		Advance (in^2)	Retract (in^2)	Advance (in^3)	Retract (in^3)						
RDHG-502	50	61.0	30.0	1.97	11.94	5.97	23.49	11.72	6.38	8.35	5.12	3.90	2.76	1.65
RDHG-504		61.0	30.0	3.94	11.94	5.97	46.93	23.43	8.35	12.28	5.12	3.90	2.76	1.65
RDHG-506		61.0	30.0	5.91	11.94	5.97	70.42	35.09	10.31	16.22	5.12	3.90	2.76	1.65
RDHG-508		61.0	30.0	7.87	11.94	5.97	93.92	46.81	12.28	20.16	5.12	3.90	2.76	1.65
RDHG-5010		61.0	30.0	9.84	11.94	5.97	117.35	59.80	14.25	24.09	5.12	3.90	2.76	1.65
RDHG-5012		61.0	30.0	11.81	11.94	5.97	140.84	70.24	16.22	28.03	5.12	3.90	2.76	1.65
RDHG-1002	100	104.0	49.0	1.97	20.57	9.58	40.46	18.86	7.17	9.13	6.50	5.12	3.74	2.13
RDHG-1004		104.0	49.0	3.94	20.57	9.58	80.98	37.71	9.13	13.07	6.50	5.12	3.74	2.13
RDHG-1006		104.0	49.0	5.91	20.57	9.58	121.44	56.57	11.10	17.01	6.50	5.12	3.74	2.13
RDHG-1008		104.0	49.0	7.87	20.57	9.58	161.90	75.43	13.07	20.94	6.50	5.12	3.74	2.13
RDHG-10010		104.0	49.0	9.84	20.57	9.58	202.42	94.34	15.04	24.88	6.50	5.12	3.74	2.13
RDHG-10012		104.0	49.0	11.81	20.57	9.58	242.87	113.20	17.01	28.82	6.50	5.12	3.74	2.13
RDHG-1502	150	156.0	76.0	1.97	30.77	14.94	60.54	29.41	7.72	9.69	8.07	6.26	4.49	2.40
RDHG-1504		156.0	76.0	3.94	30.77	14.94	121.13	58.83	9.69	13.62	8.07	6.26	4.49	2.40
RDHG-1506		156.0	76.0	5.91	30.77	14.94	181.67	88.18	11.65	17.56	8.07	6.26	4.49	2.40
RDHG-1508		156.0	76.0	7.87	30.77	14.94	242.20	117.59	13.62	21.50	8.07	6.26	4.49	2.40
RDHG-15010		156.0	76.0	9.84	30.77	14.94	302.74	147.01	15.59	25.43	8.07	6.26	4.49	2.40
RDHG-15012		156.0	76.0	11.81	30.77	14.94	363.33	176.42	17.56	29.37	8.07	6.26	4.49	2.40

* Nominal Cylinder Capacity in ton - see max. values for actual capacity

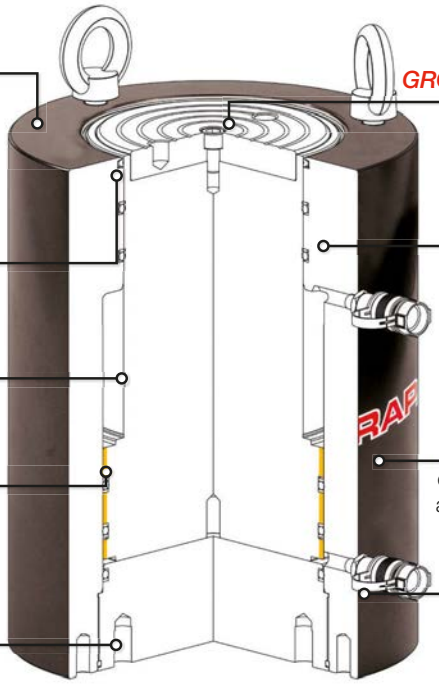
SAFETY PRESSURE
relief valve protects cylinder from intensification

PISTON ROD WIPER
reduces contaminants

HARD CHROME PLATED PISTON ROD
for maximum corrosion resistance and cylinder life

BRONZE OVERLAY
on piston bearing area reduces side load induced damage and extends cylinder life

BASE MOUNTING
holes on all models



HARDENED GROOVED LOAD CAP
to prevent piston rod damage. Optional tilt saddles available

STOP RING
withstands full dead end loading

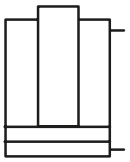
POWDER COATED FINISH
enhances appearance and reduces corrosion

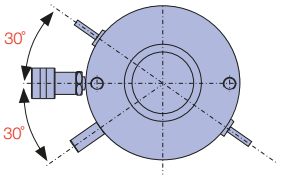
PARKER
industry standard high flow couplings for compatibility

CAPACITY RANGE
50 - 1,600 ton

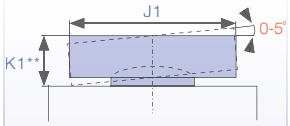
STROKE RANGE
1.97 - 11.81 in

MAXIMUM OPERATING PRESSURE
10,150 psi





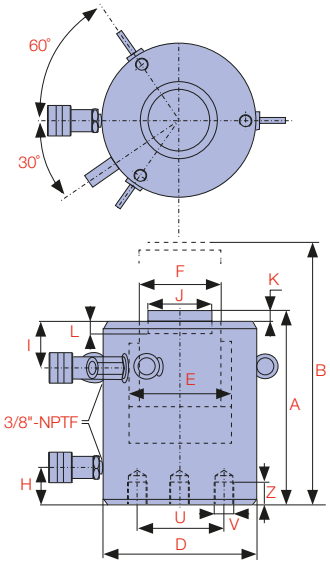
RDHG-502 - 15012



I Top to Return Port (in)	J Standard Load Cap Diameter (in)	K Load Cap Protrusion from Piston Rod (in)	L Depth of Piston Rod Hole (in)	Base Mounting Holes			Weight (lbs)	Optional Tilt Saddle			Model Number	Handle Type
				U Bolt Circle Diameter (in)	V Thread	Z Thread Depth (in)		Model Number	J1 Diameter (in)	K1** Height (in)		
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	37.5	TSG-50	1.97	1.69	RDHG-502	♦
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	44.1	TSG-50	1.97	1.69	RDHG-504	♦
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	50.7	TSG-50	1.97	1.69	RDHG-506	♦
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	59.5	TSG-50	1.97	1.69	RDHG-508	♦
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	68.4	TSG-50	1.97	1.69	RDHG-5010	♦
1.30	1.97	0.04	0.75	2.56	M12 x 1.75	0.87	75.0	TSG-50	1.97	1.69	RDHG-5012	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	63.9	TSG-100	2.95	1.89	RDHG-1002	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	75.0	TSG-100	2.95	1.89	RDHG-1004	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	88.2	TSG-100	2.95	1.89	RDHG-1006	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	101.4	TSG-100	2.95	1.89	RDHG-1008	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	114.7	TSG-100	2.95	1.89	RDHG-10010	♦
1.89	2.95	0.04	0.75	3.74	M12 x 1.75	0.87	127.9	TSG-100	2.95	1.89	RDHG-10012	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	86.0	TSG-150	3.70	1.97	RDHG-1502	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	114.7	TSG-150	3.70	1.97	RDHG-1504	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	143.3	TSG-150	3.70	1.97	RDHG-1506	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	172.0	TSG-150	3.70	1.97	RDHG-1508	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	202.9	TSG-150	3.70	1.97	RDHG-15010	♦
2.20	3.70	0.04	0.75	5.12	M12 x 1.75	0.87	231.5	TSG-150	3.70	1.97	RDHG-15012	♦

HANDLE TYPE: ♦ EYEBOLT

** Total cylinder collapsed height with optional tilt saddle equals (dim. A - dim. K + dim. K1)



RDHG-2002 - 16006

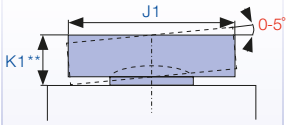
CAUTION...

Mounting Hole Orientation
Top mounting hole orientation is maintained to port location
Base mounting hole orientation is ***not*** maintained to port location

Model Number	Cylinder Capacity			Stroke (in)	Cylinder Effective Area		Oil Capacity		A Collapsed Height (in)	B Extended Height (in)	D Outside Diameter (in)	E Cylinder Bore Diameter (in)	F Piston Rod Diameter (in)	H Base to Advance Port (in)
	ton*	Advance ton* / max.	Retract ton* / max.		Advance (in^2)	Retract (in^2)	Advance (in^3)	Retract (in^3)						
RDHG-2002	200	209.0	100.0	1.97	41.20	19.64	81.10	38.69	8.50	10.47	9.25	7.24	5.24	2.64
RDHG-2006		209.0	100.0	5.91	41.20	19.64	243.30	116.01	12.44	18.35	9.25	7.24	5.24	2.64
RDHG-20012		209.0	100.0	11.81	41.20	19.64	486.54	231.95	18.35	30.16	9.25	7.24	5.24	2.64
RDHG-2502	250	288.0	120.0	1.97	56.76	23.61	111.73	46.44	9.25	11.22	10.83	8.50	6.50	2.87
RDHG-2506		288.0	120.0	5.91	56.76	23.61	335.26	139.38	13.19	19.09	10.83	8.50	6.50	2.87
RDHG-25012		288.0	120.0	11.81	56.76	23.61	670.47	278.76	19.09	30.91	10.83	8.50	6.50	2.87
RDHG-3002	300	359.0	119.0	1.97	70.66	23.41	139.13	46.07	12.28	14.25	12.20	9.49	7.76	3.98
RDHG-3006		359.0	119.0	5.91	70.66	23.41	417.34	138.16	16.22	22.13	12.20	9.49	7.76	3.98
RDHG-30012		359.0	119.0	11.81	70.66	23.41	834.68	276.38	22.13	33.94	12.20	9.49	7.76	3.98
RDHG-4002	400	440.0	152.0	1.97	86.74	30.02	170.74	59.13	14.72	16.69	13.87	10.51	8.50	4.49
RDHG-4006		440.0	152.0	5.91	86.74	30.02	512.23	177.33	18.66	24.61	13.87	10.51	8.50	4.49
RDHG-40012		440.0	152.0	11.81	86.74	30.02	1,024.53	354.61	24.57	36.38	13.87	10.51	8.50	4.49
RDHG-5002	500	575.0	195.0	1.97	113.18	38.41	222.80	75.61	16.50	18.46	15.75	12.01	9.76	4.49
RDHG-5006		575.0	195.0	5.91	113.18	38.41	668.45	226.82	20.43	26.34	15.75	12.01	9.76	4.49
RDHG-50012		575.0	195.0	11.81	113.18	38.41	1,336.84	453.65	26.34	38.15	15.75	12.01	9.76	4.49
RDHG-6002	600	673.0	232.0	1.97	132.51	45.79	260.81	90.13	16.89	18.86	16.93	12.99	10.51	4.49
RDHG-6006		673.0	232.0	5.91	132.51	45.79	782.51	270.46	20.83	26.73	16.93	12.99	10.51	4.49
RDHG-60012		673.0	232.0	11.81	132.51	45.79	1,565.01	540.85	26.73	38.54	16.93	12.99	10.51	4.49
RDHG-8002	800	925.0	304.0	1.97	182.23	59.97	358.70	118.02	18.66	20.63	19.88	15.24	12.48	5.87
RDHG-8006		925.0	304.0	5.91	182.23	59.97	1,076.15	354.12	22.60	28.50	19.88	15.24	12.48	5.87
RDHG-80012		925.0	304.0	11.81	182.23	59.97	2,152.36	708.30	28.50	40.31	19.88	15.24	12.48	5.87
RDHG-10002	1,000†	1,152.0	426.0	1.97	227.08	84.01	447.00	165.37	22.20	24.17	22.05	17.01	13.50	6.85
RDHG-10006		1,152.0	426.0	5.91	227.08	84.01	1,340.99	496.12	26.14	32.05	22.05	17.01	13.50	6.85
RDHG-100012		1,152.0	426.0	11.81	227.08	84.01	2,681.99	992.24	32.05	43.86	22.05	17.01	13.50	6.85
RDHG-16006	1,600†	1,801.0	550.0	6.10	354.83	108.42	2,164.26	661.25	32.48	38.58	27.95	21.26	17.72	8.07

* Nominal Cylinder Capacity in ton - see max. values for actual capacity
† Tilt saddle supplied as standard

Durapac offer power units suitable for operating high tonnage cylinders. Models available include split flow synchronized and high flow single speed up to 2.1 Gpm at 10,150 psi



I Top to Return Port (in)	J Standard Load Cap Diameter (in)	K Load Cap Protrusion from Piston Rod (in)	L Depth of Piston Rod Hole (in)	Base Mounting Holes			Weight (lbs)	Optional Tilt Saddle			Model Number	Handle Type
				U Bolt Circle Diameter (in)	V Thread	Z Thread Depth (in)		Model Number	J1 Diameter (in)	K1** Height (in)		
2.20	4.45	0.04	0.94	6.50	M12 x 1.75	0.87	121.3	TSG-200	4.45	2.32	RDHG-2002	♦
2.20	4.45	0.04	0.94	6.50	M12 x 1.75	0.87	200.7	TSG-200	4.45	2.32	RDHG-2006	♦
2.20	4.45	0.04	0.94	6.50	M12 x 1.75	0.87	321.9	TSG-200	4.45	2.32	RDHG-20012	♦
3.07	5.71	0.04	0.94	7.48	M12 x 1.75	0.87	196.2	TSG-250	5.71	2.76	RDHG-2502	♦
3.07	5.71	0.04	0.94	7.48	M12 x 1.75	0.87	299.9	TSG-250	5.71	2.76	RDHG-2506	♦
3.07	5.71	0.04	0.94	7.48	M12 x 1.75	0.87	456.4	TSG-250	5.71	2.76	RDHG-25012	♦
2.95	6.97	0.04	0.75	7.09	M16 x 2	1.42	405.7	TSG-300	6.97	3.19	RDHG-3002	♦
2.95	6.97	0.04	0.75	7.09	M16 x 2	1.42	511.6	TSG-300	6.97	3.19	RDHG-3006	♦
2.95	6.97	0.04	0.75	7.09	M16 x 2	1.42	668.1	TSG-300	6.97	3.19	RDHG-30012	♦
4.13	7.72	0.12	1.06	8.07	M16 x 2	1.42	595.4	TSG-400	7.72	3.07	RDHG-4002	♦
4.13	7.72	0.12	1.06	8.07	M16 x 2	1.42	727.7	TSG-400	7.72	3.07	RDHG-4006	♦
4.13	7.72	0.12	1.06	8.07	M16 x 2	1.42	928.3	TSG-400	7.72	3.07	RDHG-40012	♦
5.31	8.98	0.12	1.06	9.84	M24 x 3	1.50	884.2	TSG-500	8.98	3.54	RDHG-5002	♦
5.31	8.98	0.12	1.06	9.84	M24 x 3	1.50	1,058.4	TSG-500	8.98	3.54	RDHG-5006	♦
5.31	8.98	0.12	1.06	9.84	M24 x 3	1.50	1,320.8	TSG-500	8.98	3.54	RDHG-50012	♦
5.31	9.72	0.12	1.06	10.83	M24 x 3	1.50	1,045.2	TSG-600	9.72	4.06	RDHG-6002	♦
5.31	9.72	0.12	1.06	10.83	M24 x 3	1.50	1,245.8	TSG-600	9.72	4.06	RDHG-6006	♦
5.31	9.72	0.12	1.06	10.83	M24 x 3	1.50	1,545.7	TSG-600	9.72	4.06	RDHG-60012	♦
5.31	11.69	0.12	1.06	12.99	M24 x 3	1.50	1,633.9	TSG-800	11.69	4.02	RDHG-8002	♦
5.31	11.69	0.12	1.06	12.99	M24 x 3	1.50	1,913.9	TSG-800	11.69	4.02	RDHG-8006	♦
5.31	11.69	0.12	1.06	12.99	M24 x 3	1.50	2,332.9	TSG-800	11.69	4.02	RDHG-80012	♦
6.69	12.72	0.12	1.06	14.76	M24 x 3	1.50	2,341.7	TSG-1000†	12.72	4.72	RDHG-10002	♦
6.69	12.72	0.12	1.06	14.76	M24 x 3	1.50	2,674.7	TSG-1000†	12.72	4.72	RDHG-10006	♦
6.69	12.72	0.12	1.06	14.76	M24 x 3	1.50	3,173.0	TSG-1000†	12.72	4.72	RDHG-100012	♦
6.69	-	-	-	15.75	M24 x 3	1.18	4,804.7	TSG-1600†	15.16	4.92	RDHG-16006	♦

HANDLE TYPE: ♦ EYEBOLT

** Total cylinder collapsed height with optional tilt saddle equals (dim. A - dim. K + dim. K1) †Tilt saddle supplied as standard