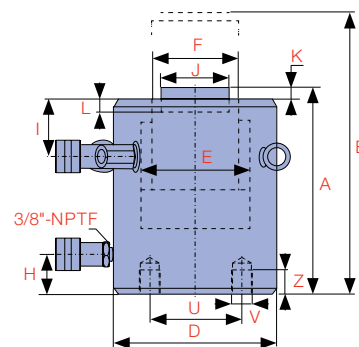




**EXCEEDS**  
ANSI/ASME B30.1  
**SAFETY**  
STANDARDS

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 saddles 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 (mm)	Cylinder Effective Area		Oil Capacity		A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diameter (mm)	E Cylinder Bore Diameter (mm)	F Piston Rod Diameter (mm)	H Base to Advance Port (mm)
	ton*	Advance kN	Retract kN		Advance (cm <sup>2</sup> )	Retract (cm <sup>2</sup> )	Advance (cm <sup>3</sup> )	Retract (cm <sup>3</sup> )						
RDHG-502	50	539	269	50	77.0	38.5	385	192	162	212	130	99.0	70.1	42
RDHG-504		539	269	100	77.0	38.5	769	384	212	312	130	99.0	70.1	42
RDHG-506		539	269	150	77.0	38.5	1,154	575	262	412	130	99.0	70.1	42
RDHG-508		539	269	200	77.0	38.5	1,539	767	312	512	130	99.0	70.1	42
RDHG-5010		539	269	250	77.0	38.5	1,923	980	362	612	130	99.0	70.1	42
RDHG-5012		539	269	300	77.0	38.5	2,308	1,151	412	712	130	99.0	70.1	42
RDHG-1002	100	929	433	50	132.7	61.8	663	309	182	232	165	130.0	95.0	54
RDHG-1004		929	433	100	132.7	61.8	1,327	618	232	332	165	130.0	95.0	54
RDHG-1006		929	433	150	132.7	61.8	1,990	927	282	432	165	130.0	95.0	54
RDHG-1008		929	433	200	132.7	61.8	2,653	1,236	332	532	165	130.0	95.0	54
RDHG-10010		929	433	250	132.7	61.8	3,317	1,546	382	632	165	130.0	95.0	54
RDHG-10012		929	433	300	132.7	61.8	3,980	1,855	432	732	165	130.0	95.0	54
RDHG-1502	150	1,390	675	50	198.5	96.4	992	482	196	246	205	159.0	114.1	61
RDHG-1504		1,390	675	100	198.5	96.4	1,985	964	246	346	205	159.0	114.1	61
RDHG-1506		1,390	675	150	198.5	96.4	2,977	1,445	296	446	205	159.0	114.1	61
RDHG-1508		1,390	675	200	198.5	96.4	3,969	1,927	346	546	205	159.0	114.1	61
RDHG-15010		1,390	675	250	198.5	96.4	4,961	2,409	396	646	205	159.0	114.1	61
RDHG-15012		1,390	675	300	198.5	96.4	5,954	2,891	446	746	205	159.0	114.1	61

\* Nominal Cylinder Capacity in ton - see kN 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 SADDLE

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 coupling for compatibility



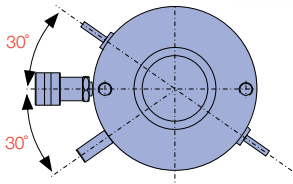
**CAPACITY**  
**50 - 1,600 ton**

**STROKE**  
**50 - 300 mm**

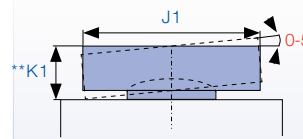
**MAXIMUM OPERATING PRESSURE**  
**700 bar**



**B**  
**CYLINDERS**



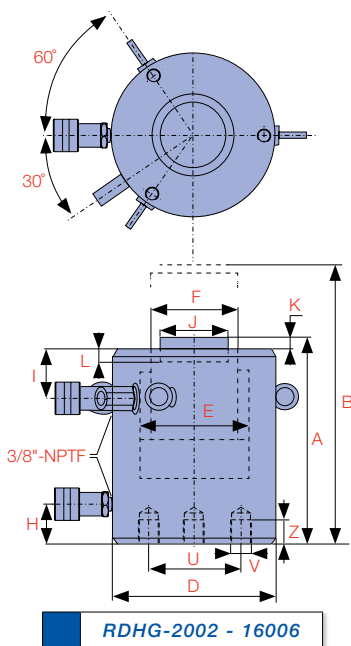
RDHG-502 - 15012



I Top to Return Port (mm)	J Standard Saddle Diameter (mm)	K Saddle Protrusion from Piston Rod (mm)	L Depth of Piston Rod Hole (mm)	Base Mounting Holes			Weight (kg)	Optional Tilt Saddle			Model Number	Handle Type
				U Bolt Circle Diameter (mm)	V Thread	Z Thread Depth (mm)		Model Number	J1 Diameter (mm)	**K1 Height (mm)		
33	50	1	19	65	M12x1.75	22	17.0	TSG-50	50	43	RDHG-502	◆
33	50	1	19	65	M12x1.75	22	20.0	TSG-50	50	43	RDHG-504	◆
33	50	1	19	65	M12x1.75	22	23.0	TSG-50	50	43	RDHG-506	◆
33	50	1	19	65	M12x1.75	22	27.0	TSG-50	50	43	RDHG-508	◆
33	50	1	19	65	M12x1.75	22	31.0	TSG-50	50	43	RDHG-5010	◆
33	50	1	19	65	M12x1.75	22	34.0	TSG-50	50	43	RDHG-5012	◆
48	75	1	19	95	M12x1.75	22	29.0	TSG-100	75	48	RDHG-1002	◆
48	75	1	19	95	M12x1.75	22	34.0	TSG-100	75	48	RDHG-1004	◆
48	75	1	19	95	M12x1.75	22	40.0	TSG-100	75	48	RDHG-1006	◆
48	75	1	19	95	M12x1.75	22	46.0	TSG-100	75	48	RDHG-1008	◆
48	75	1	19	95	M12x1.75	22	52.0	TSG-100	75	48	RDHG-10010	◆
48	75	1	19	95	M12x1.75	22	58.0	TSG-100	75	48	RDHG-10012	◆
56	94	1	19	130	M12x1.75	22	39.0	TSG-150	94	50	RDHG-1502	◆
56	94	1	19	130	M12x1.75	22	52.0	TSG-150	94	50	RDHG-1504	◆
56	94	1	19	130	M12x1.75	22	65.0	TSG-150	94	50	RDHG-1506	◆
56	94	1	19	130	M12x1.75	22	78.0	TSG-150	94	50	RDHG-1508	◆
56	94	1	19	130	M12x1.75	22	92.0	TSG-150	94	50	RDHG-15010	◆
56	94	1	19	130	M12x1.75	22	105.0	TSG-150	94	50	RDHG-15012	◆

**HANDLE TYPES:** ♠ WELDED ◆ EYEBOLT ♥ REMOVABLE STRAP HANDLE ♣ THREAD

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



### CAUTION...

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

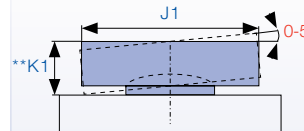
Model Number	Cylinder Capacity			Stroke (mm)	Cylinder Effective Area		Oil Capacity		A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diameter (mm)	E Cylinder Bore Diameter (mm)	F Piston Rod Diameter (mm)	H Base to Advance Port (mm)
	ton*	Advance kN	Retract kN		Advance (cm <sup>2</sup> )	Retract (cm <sup>2</sup> )	Advance (cm <sup>3</sup> )	Retract (cm <sup>3</sup> )						
RDHG-2002	200	1,861	889	50	265.8	126.7	1,329	634	216	266	235	184.0	133.1	67
RDHG-2006		1,861	889	150	265.8	126.7	3,987	1,901	316	466	235	184.0	133.1	67
RDHG-20012		1,861	889	300	265.8	126.7	7,973	3,801	466	766	235	184.0	133.1	67
RDHG-2502	250	2,565	1,068	50	366.2	152.3	1,831	761	235	285	275	216.0	165.1	73
RDHG-2506		2,565	1,068	150	366.2	152.3	5,494	2,284	335	485	275	216.0	165.1	73
RDHG-25012		2,565	1,068	300	366.2	152.3	10,987	4,568	485	785	275	216.0	165.1	73
RDHG-3002	300	3,193	1,060	50	455.9	151.0	2,280	755	312	362	310	241.0	197.1	101
RDHG-3006		3,193	1,060	150	455.9	151.0	6,839	2,264	412	562	310	241.0	197.1	101
RDHG-30012		3,193	1,060	300	455.9	151.0	13,678	4,529	562	862	310	241.0	197.1	101
RDHG-4002	400	3,919	1,354	50	559.6	193.7	2,798	969	374	424	350	267.0	215.9	114
RDHG-4006		3,919	1,354	150	559.6	193.7	8,394	2,906	474	625	350	267.0	215.9	114
RDHG-40012		3,919	1,354	300	559.6	193.7	16,789	5,811	624	924	350	267.0	215.9	114
RDHG-5002	500	5,114	1,733	50	730.2	247.8	3,651	1,239	419	469	400	305.0	247.9	114
RDHG-5006		5,114	1,733	150	730.2	247.8	10,954	3,717	519	669	400	305.0	247.9	114
RDHG-50012		5,114	1,733	300	730.2	247.8	21,907	7,434	669	969	400	305.0	247.9	114
RDHG-6002	600	5,987	2,068	50	854.9	295.4	4,274	1,477	429	479	430	330.0	267.0	114
RDHG-6006		5,987	2,068	150	854.9	295.4	12,823	4,432	529	679	430	330.0	267.0	114
RDHG-60012		5,987	2,068	300	854.9	295.4	25,646	8,863	679	979	430	330.0	267.0	114
RDHG-8002	800	8,234	2,709	50	1,175.7	386.9	5,878	1,934	474	524	505	387.0	317.0	149
RDHG-8006		8,234	2,709	150	1,175.7	386.9	17,635	5,803	574	724	505	387.0	317.0	149
RDHG-80012		8,234	2,709	300	1,175.7	386.9	35,271	11,607	724	1,024	505	387.0	317.0	149
RDHG-10002	1,000†	10,260	3,792	50	1,465.0	542.0	7,325	2,710	564	614	560	432.0	342.9	174
RDHG-10006		10,260	3,792	150	1,465.0	542.0	21,975	8,130	664	814	560	432.0	342.9	174
RDHG-100012		10,260	3,792	300	1,465.0	542.0	43,950	16,260	814	1,114	560	432.0	342.9	174
RDHG-16006	1,600†	15,703	4,798	155	2,289.2	699.5	35,466	10,836	825	980	710	540.0	450.1	205

\* Nominal Cylinder Capacity in ton - see kN values for actual capacity

† Tilt saddle supplied as standard

## Did you know...

Durapac offer power units suitable for operating high tonnage cylinders. Models available include split flow synchronised and high flow single speed up to 8.1 Lpm at 700 bar.



I Top to Return Port (mm)	J Standard Saddle Diameter (mm)	K Saddle Protrusion from Piston Rod (mm)	L Depth of Piston Rod Hole (mm)	Base Mounting Holes			Weight (kg)	Optional Tilt Saddle			Model Number	Handle Type
				U Bolt Circle Diameter (mm)	V Thread	Z Thread Depth (mm)		Model Number	J1 Diameter (mm)	**K1 Height (mm)		
56	113	1	24	165	M12x1.75	22	55.0	TSG-200	113	59	RDHG-2002	◆
56	113	1	24	165	M12x1.75	22	91.0	TSG-200	113	59	RDHG-2006	◆
56	113	1	24	165	M12x1.75	22	146.0	TSG-200	113	59	RDHG-20012	◆
78	145	1	24	190	M12x1.75	22	89.0	TSG-250	145	70	RDHG-2502	◆
78	145	1	24	190	M12x1.75	22	136.0	TSG-250	145	70	RDHG-2506	◆
78	145	1	24	190	M12x1.75	22	207.0	TSG-250	145	70	RDHG-25012	◆
75	177	1	19	180	M16x2	36	184.0	TSG-300	177	81	RDHG-3002	◆
75	177	1	19	180	M16x2	36	232.0	TSG-300	177	81	RDHG-3006	◆
75	177	1	19	180	M16x2	36	303.0	TSG-300	177	81	RDHG-30012	◆
105	196	3	27	205	M16x2	36	270.0	TSG-400	196	78	RDHG-4002	◆
105	196	3	27	205	M16x2	36	330.0	TSG-400	196	78	RDHG-4006	◆
105	196	3	27	205	M16x2	36	421.0	TSG-400	196	78	RDHG-40012	◆
135	228	3	27	250	M24x3	38	401.0	TSG-500	228	90	RDHG-5002	◆
135	228	3	27	250	M24x3	38	480.0	TSG-500	228	90	RDHG-5006	◆
135	228	3	27	250	M24x3	38	599.0	TSG-500	228	90	RDHG-50012	◆
135	247	3	27	275	M24x3	38	474.0	TSG-600	247	103	RDHG-6002	◆
135	247	3	27	275	M24x3	38	565.0	TSG-600	247	103	RDHG-6006	◆
135	247	3	27	275	M24x3	38	701.0	TSG-600	247	103	RDHG-60012	◆
135	297	3	27	330	M24x3	38	741.0	TSG-800	297	102	RDHG-8002	◆
135	297	3	27	330	M24x3	38	868.0	TSG-800	297	102	RDHG-8006	◆
135	297	3	27	330	M24x3	38	1,058.0	TSG-800	297	102	RDHG-80012	◆
170	323	3	27	375	M24x3	38	1,062.0	TSG-1000 <sup>†</sup>	323	120	RDHG-10002	◆
170	323	3	27	375	M24x3	38	1,213.0	TSG-1000 <sup>†</sup>	323	120	RDHG-10006	◆
170	323	3	27	375	M24x3	38	1,439.0	TSG-1000 <sup>†</sup>	323	120	RDHG-100012	◆
170	-	-	-	400	M24x3	30	2,179.0	TSG-1600 <sup>†</sup>	385	125	RDHG-16006	◆

HANDLE TYPES: ♠ WELDED ◆ EYEBOLT ♥ REMOVABLE STRAP HANDLE ♣ THREAD

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