

**DLRG Series**

**Double-Acting**  
High Tonnage Cylinder  
Hydraulic return

Capacity:	<b>50-1,600 ton</b>
Stroke:	<b>50-300 mm</b>
Maximum Operating Pressure:	<b>700 bar</b>

**DLRG Double-Acting, High Tonnage Cylinders**

- Base mounting holes standard on all models.
- Double-acting, for push and pull.
- Hard chrome plated plunger resists wear and corrosion.
- Safety valve in retract side of cylinder helps to prevent damage in case of accidental over-pressurization.
- Interchangeable, hardened grooved saddles are standard.
- Plunger wiper reduces contamination, extending cylinder life.
- Powder coat finish for increased corrosion resistance and antirust.
- DQC-3/8UF coupler and dust cap are included on all models.



DLRG-506



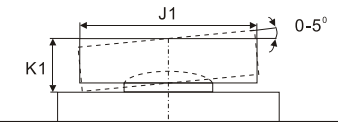
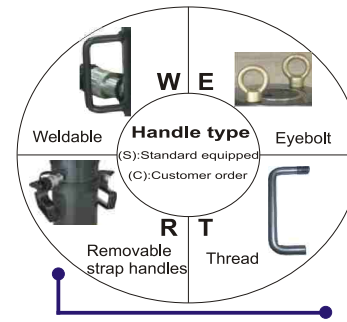
DLRG-1006

**Mounting Hole Orientation**

- Top mounting hole orientation is maintained to port location.
- Bases mounting hole orientation is not maintained to port location.

**Cylinder Capacity**

- More above 1000 tons cylinder capacity are also available.
- Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal Lift System.



Handle type	Model Number	Cylinder ton(kN)	Stroke (mm)	Max. Cyl. Cap. (kN)		Coll. Height A (mm)	Wt. (kg)	Optional Tilt Saddle			
				Push	Pull			Model Number	Diam. J1 (mm)	Height K1 (mm)	
(S)											
E	DLRG-502	50 (539)	50	539	269	162	17	DXKCATG-50	50	24	
E	DLRG-504		100	539	269	212	20	DXKCATG-50	50	24	
E	DLRG-506		150	539	269	262	23	DXKCATG-50	50	24	
E	DLRG-508		200	539	269	312	27	DXKCATG-50	50	24	
E	DLRG-5010		250	539	269	362	31	DXKCATG-50	50	24	
E	DLRG-5012		300	539	269	412	34	DXKCATG-50	50	24	
E	DLRG-1002	100 (929)	50	929	433	182	29	DXKCATG-100	73	29	
E	DLRG-1004		100	929	433	232	34	DXKCATG-100	73	29	
E	DLRG-1006		150	929	433	282	40	DXKCATG-100	73	29	
E	DLRG-1008		200	929	433	332	46	DXKCATG-100	73	29	
E	DLRG-10010		250	929	433	382	52	DXKCATG-100	73	29	
E	DLRG-10012		300	929	433	432	65	DXKCATG-100	73	29	
E	DLRG-1502	150 (1390)	50	1390	675	196	39	DXKCATG-150	91	31	
E	DLRG-1504		100	1390	675	246	52	DXKCATG-150	91	31	
E	DLRG-1506		150	1390	675	296	65	DXKCATG-150	91	31	
E	DLRG-1508		200	1390	675	346	78	DXKCATG-150	91	31	
E	DLRG-15010		250	1390	675	396	92	DXKCATG-150	91	31	
E	DLRG-15012		300	1390	675	446	105	DXKCATG-150	91	31	
E	DLRG-2002	200 (1861)	50	1861	889	216	55	DXKCATG-200	113	35	
E	DLRG-2006		150	1861	889	316	91	DXKCATG-200	113	35	
E	DLRG-20012		300	1861	889	466	146	DXKCATG-200	113	35	
E	DLRG-2502	250 (2565)	50	2565	1068	235	102	DXKCATG-250	144	46	
E	DLRG-2506		150	2565	1068	335	136	DXKCATG-250	144	46	
E	DLRG-25012		300	2565	1068	485	207	DXKCATG-250	144	46	
E	DLRG-3002	300 (3193)	50	3193	1060	312	184	DXKCATG-300	160	62	
E	DLRG-3006		150	3193	1060	412	232	DXKCATG-300	160	62	
E	DLRG-30012		300	3193	1060	562	303	DXKCATG-300	160	62	
E	DLRG-4002	400 (3919)	50	3919	1354	375	270	DXKCATG-400	193	51	
E	DLRG-4006		150	3919	1354	475	330	DXKCATG-400	193	51	
E	DLRG-40012		300	3919	1354	625	421	DXKCATG-400	193	51	
E	DLRG-5002	500 (5114)	50	5114	1733	419	401	DXKCATG-500	228	63	
E	DLRG-5006		150	5114	1733	519	480	DXKCATG-500	228	63	
E	DLRG-50012		300	5114	1733	669	599	DXKCATG-500	228	63	
E	DLRG-6002	600 (5987)	50	5987	2068	429	474	DXKCATG-600	241	76	
E	DLRG-6006		150	5987	2068	529	565	DXKCATG-600	241	76	
E	DLRG-60012		300	5987	2068	679	701	DXKCATG-600	241	76	
E	DLRG-8002	800 (8234)	50	8234	2709	474	741	DXKCATG-800	287	75	
E	DLRG-8006		150	8234	2709	574	868	DXKCATG-800	287	75	
E	DLRG-80012		300	8234	2709	724	1058	DXKCATG-800	287	75	
								<b>Equipped Tilt Saddle</b>			
E	DLRG-10002	1000 (10260)	50	10260	3792	564	1062	DXKCATG-1000	311	93	
E	DLRG-10006		150	10260	3792	664	1213	DXKCATG-1000	311	93	
E	DLRG-100012		300	10260	3792	814	1439	DXKCATG-1000	311	93	
E	DLRG-16006	1600 (16024)	155	16024	4891	825	2179	DXKCATG-1600	385	125	

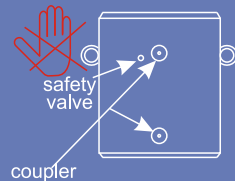
\* Capacity above 1000tons cylinders are equipped with tilt saddle.  
If you want to opt fixed grooved saddle please connect to us order **DXKLRG-1000**.



**WARNING**

**Don't adjust safety valve pressure!**

Apply to double-acting cylinder DD, DDH, DLRG series  
Most double-acting cylinder safety valve pressure setting 10000psi(700bar).  
As surpasses the original factory hypothesis pressure safety valve will spurt oil to protect cylinder.  
Leaking from safety valve, inspect connection of coupler at first.



**Feature**

- DLRG-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1000tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.



**Pump Selection**

A double-acting cylinder must be powered by a pump with a 4-way valve.

Model Number	Cylinder Cap.	Stroke	Max. Cylinder Cap.		Cylinder Effective Area		Oil Cap.		Coll. Height	Ext. Height	Outside Diam.	Cyl. Bore Diam.	Plunger Diam.
			Push	Pull	Push	Pull	Push	Pull					
			(kN)	(kN)	(cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>3</sup> )					
ton(kN)	(mm)	(mm)	(mm)	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)					
DLRG-502	50 (539)	50	539	269	76.2	37.7	385	192	162	212	130	98.6	70.0
DLRG-504		100	539	269	76.2	37.7	770	385	212	312	130	98.6	70.0
DLRG-506		150	539	269	76.2	37.7	1155	577	262	412	130	98.6	70.0
DLRG-508		200	539	269	76.2	37.7	1540	770	312	512	130	98.6	70.0
DLRG-5010		250	539	269	76.2	37.7	1924	962	362	612	130	98.6	70.0
DLRG-5012		300	539	269	76.2	37.7	2309	1155	412	712	130	98.6	70.0
DLRG-1002	100 (929)	50	929	433	132.7	61.9	664	309	182	232	165	130.0	95.0
DLRG-1004		100	929	433	132.7	61.9	1327	619	232	332	165	130.0	95.0
DLRG-1006		150	929	433	132.7	61.9	1991	928	282	432	165	130.0	95.0
DLRG-1008		200	929	433	132.7	61.9	2655	1237	332	532	165	130.0	95.0
DLRG-10010		250	929	433	132.7	61.9	3318	1546	382	632	165	130.0	95.0
DLRG-10012		300	929	433	132.7	61.9	3982	1856	432	732	165	130.0	95.0
DLRG-1502	150 (1390)	50	1390	675	198.6	96.5	993	482	196	246	205	159.0	114.0
DLRG-1504		100	1390	675	198.6	96.5	1986	965	246	346	205	159.0	114.0
DLRG-1506		150	1390	675	198.6	96.5	2978	1447	296	446	205	159.0	114.0
DLRG-1508		200	1390	675	198.6	96.5	3971	1930	346	546	205	159.0	114.0
DLRG-15010		250	1390	675	198.6	96.5	4964	2412	396	646	205	159.0	114.0
DLRG-15012		300	1390	675	198.6	96.5	5957	2895	446	746	205	159.0	114.0
DLRG-2002	200 (1861)	50	1861	889	265.9	127.0	1330	635	216	266	235	184.0	133.1
DLRG-2006		150	1861	889	265.9	127.0	3989	1905	316	466	235	184.0	133.1
DLRG-20012		300	1861	889	265.9	127.0	7977	3809	466	766	235	184.0	133.1
DLRG-2502	250 (2565)	50	2565	1068	366.4	152.6	1832	763	235	285	275	216.0	165.1
DLRG-2506		150	2565	1068	366.4	152.6	5497	2289	335	485	275	216.0	165.1
DLRG-25012		300	2565	1068	366.4	152.6	10993	4578	485	785	275	216.0	165.1
DLRG-3002	300 (3193)	50	3193	1060	456.2	151.4	2281	757	312	362	310	241.0	197.1
DLRG-3006		150	3193	1060	456.2	151.4	6843	2270	412	562	310	241.0	197.1
DLRG-30012		300	3193	1060	456.2	151.4	13685	4541	562	862	310	241.0	197.1
DLRG-4002	400 (3919)	50	3919	1354	559.9	193.5	2800	967	375	425	350	267.0	216.0
DLRG-4006		150	3919	1354	559.9	193.5	8399	2902	475	625	350	267.0	216.0
DLRG-40012		300	3919	1354	559.9	193.5	16797	5804	625	925	350	267.0	216.0
DLRG-5002	500 (5114)	50	5114	1733	730.6	247.6	3653	1238	419	469	400	305.0	248.0
DLRG-5006		150	5114	1733	730.6	247.6	10959	3713	519	669	400	305.0	248.0
DLRG-50012		300	5114	1733	730.6	247.6	21918	7427	669	969	400	305.0	248.0
DLRG-6002	600 (5987)	50	5987	2068	855.3	295.4	4276	1477	429	479	430	330.0	267.0
DLRG-6006		150	5987	2068	855.3	295.4	12829	4431	529	679	430	330.0	267.0
DLRG-60012		300	5987	2068	855.3	295.4	25659	8862	679	979	430	330.0	267.0
DLRG-8002	800 (8234)	50	8234	2709	1176.3	387.0	5881	1935	474	524	505	387.0	317.0
DLRG-8006		150	8234	2709	1176.3	387.0	17644	5806	574	724	505	387.0	317.0
DLRG-80012		300	8234	2709	1176.3	387.0	35288	11611	724	1024	505	387.0	317.0
DLRG-10002	1000 (10260)	50	10260	3792	1465.7	541.7	7329	2709	564	614	560	432.0	343.0
DLRG-10006		150	10260	3792	1465.7	541.7	21986	8126	664	814	560	432.0	343.0
DLRG-100012		300	10260	3792	1465.7	541.7	43972	16252	814	1114	560	432.0	343.0
DLRG-16006	1600 (16024)	155	16024	4891	2289.1	699.3	35495	10845	825	980	710	540.0	450.0

Base to Advance Port	Top to Retract Port	Standard Saddle Diam.	Saddle Protrusion from plngr.	Depth of Plunger Hole	Base Mounting Hole Dimensions			Weight
					Bolt Cir. Diam.	Thread	Thread Depth	
					U (mm)	V (mm)	Z (mm)	
H (mm)	I (mm)	J (mm)	K (mm)	L (mm)	U (mm)	V (mm)	Z (mm)	(kg)
42	33	50	1	19	65	2xM12	22	17
42	33	50	1	19	65	2xM12	22	20
42	33	50	1	19	65	2xM12	22	23
42	33	50	1	19	65	2xM12	22	27
42	33	50	1	19	65	2xM12	22	31
42	33	50	1	19	65	2xM12	22	34
54	48	75	1	19	95	2xM12	22	29
54	48	75	1	19	95	2xM12	22	34
54	48	75	1	19	95	2xM12	22	40
54	48	75	1	19	95	2xM12	22	46
54	48	75	1	19	95	2xM12	22	52
54	48	75	1	19	95	2xM12	22	65
61	56	94	1	19	130	2xM12	22	39
61	56	94	1	19	130	2xM12	22	52
61	56	94	1	19	130	2xM12	22	65
61	56	94	1	19	130	2xM12	22	78
61	56	94	1	19	130	2xM12	22	92
61	56	94	1	19	130	2xM12	22	105
67	56	113	1	24	165	4xM12	22	55
67	56	113	1	24	165	4xM12	22	91
67	56	113	1	24	165	4xM12	22	146
73	78	145	1	24	190	3xM12	22	102
73	78	145	1	24	190	3xM12	22	136
73	78	145	1	24	190	3xM12	22	207
101	75	177	1	19	180	3xM16	36	184
101	75	177	1	19	180	3xM16	36	232
101	75	177	1	19	180	3xM16	36	303
114	105	196	3	27	205	3xM16	36	270
114	105	196	3	27	205	3xM16	36	330
114	105	196	3	27	205	3xM16	36	421
114	135	228	3	27	250	3xM24	38	401
114	135	228	3	27	250	3xM24	38	480
114	135	228	3	27	250	3xM24	38	599
114	135	247	3	27	275	3xM24	38	474
114	135	247	3	27	275	3xM24	38	565
114	135	247	3	27	275	3xM24	38	701
149	135	297	3	27	330	3xM24	38	741
149	135	297	3	27	330	3xM24	38	868
149	135	297	3	27	330	3xM24	38	1058
174	170	323	3	27	375	3xM24	38	1062
174	170	323	3	27	375	3xM24	38	1213
174	170	323	3	27	375	3xM24	38	1439
205	170	—	—	—	400	3xM24	30	2179

