

# DuraJack®

[durajack.com](http://durajack.com)

Your Trusted  
Hydraulics Provider



“

*Our mission is to provide quality products,  
professional and excellent service to our customers  
and aim for total customer satisfaction.*

”

**DuraJack<sup>®</sup>**

durajack.com

# DuraJack®

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Established in 2000, Immco Pte Ltd began as a trading company specializing in a diverse range of products, from heavy machinery spare parts to electronic components. Over the years, the company has expanded its offerings to include advanced high-pressure hydraulic tools and equipment.

A major milestone in our journey was the launch of our proprietary brand, Durajack®, in 2016. Since then, Durajack® has been developed to deliver reliable, high-performance hydraulic tools and equipment, backed by rigorous testing and ongoing research and development.

Durajack® products are trusted across a wide range of industries, including Building & Construction, Oil & Gas, Marine & Offshore, and Aerospace. Known for durability and consistent performance, the brand is steadily building awareness in the market.

Supported by the experience and expertise of Immco Pte Ltd, Durajack® continues to evolve, incorporating advanced technologies to meet the changing demands of industry while maintaining a strong focus on quality, safety, and use satisfaction.

Our commitment is clear: to provide dependable hydraulic solutions today while continuing to grow Durajack's presence and reputation in the global market.

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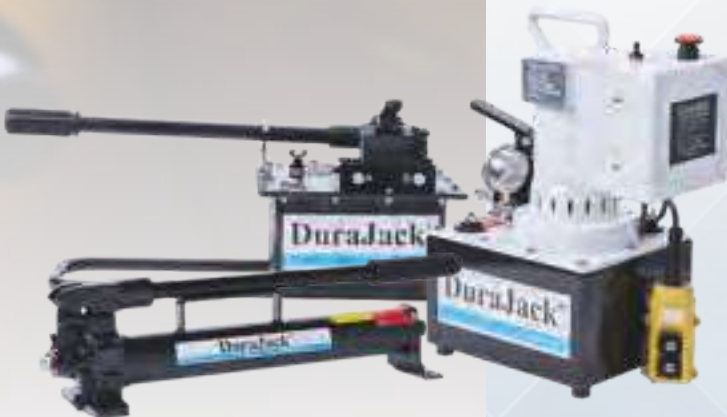


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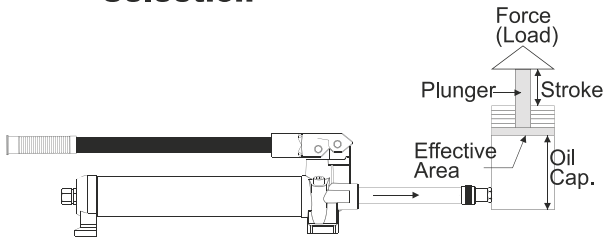


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DURAJACK hydraulic cylinder complete with the criteria set forth in the American Society of Mechanical Engineers standards Institute ASME B30.1 :

1. Cylinder are designed to have minimum of a 2-to-1 safety factor on typical material yield strength; and/or
2. Cylinder design is
  - A. operated through a minimum of 10 cycles of full travel at 110% of rated load, and
  - B. Pressurized 3 times at 150% of pressure with the cylinder extended to approximately 90% of full stroke, after which the cylinder must be functional at rated load for full stroke and free of leaks.

## Selection



**Require usable oil capacity = 2 X oil capacity (Cyl. or tool)**

**Flow =** is created by the pump

**Pressure =** is created by resistance to flow. This resistance is usually the result of a load.

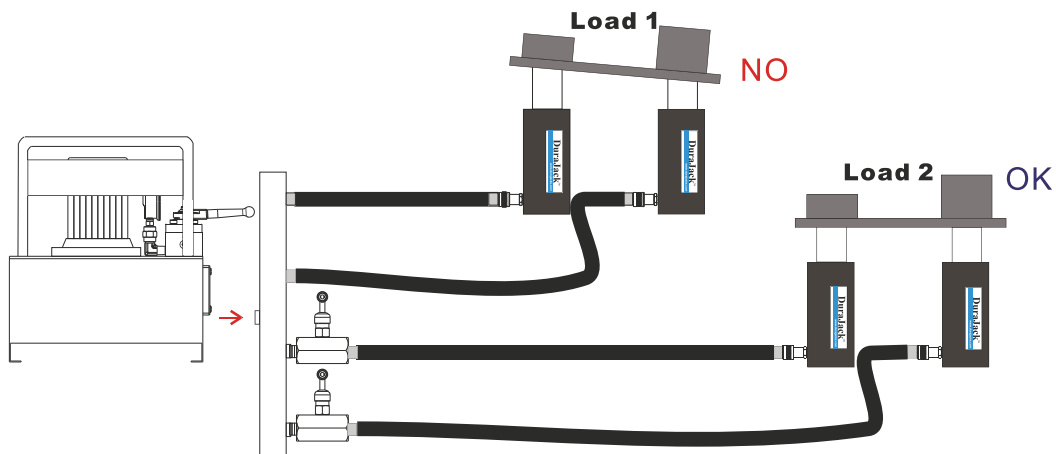
$$\text{Force (metric tons)} = \frac{\text{Cyl. Eff. Area (cm}^2\text{)} \times \text{Working pressure (Hydraulic Pump) (bar/ kgf/cm}^2\text{)}}{1000\text{kg}}$$

$$\text{Extended Height (in)} = \text{Cyl. Stroke (in)} + \text{Cyl. Collapsed height (in)}$$

$$\text{Cyl. oil Cap. (in}^3\text{)} = \text{Cyl. Eff. Area (in}^2\text{)} \times \text{Cyl. Stroke (in)}$$

$$\text{Usable oil (system) (in}^3\text{)} = \frac{\text{Cyl. Oil Cap. (in}^3\text{)} \times \text{Quantity of Cyl. In system}}{\text{in}^3}$$

$$\text{Speed (Cyl. Plg.) (Sec/in)} = \frac{\text{Cyl. Eff. Area (in}^2\text{)}}{\text{Pump flow per minute (in}^3\text{/min)}} \times 60\text{sec}$$



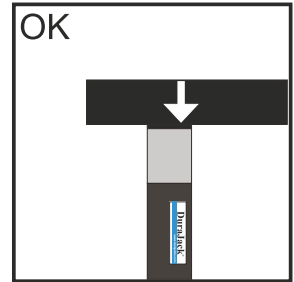
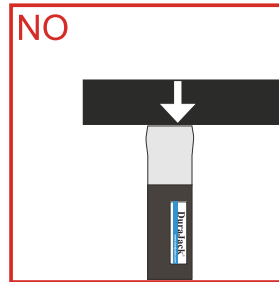
When more than one hydraulic cylinder is being used, each cylinder will lift at its own rate, depending on the force required to move the load at that point.

Cylinder with the lightest load will move first, and cylinders with the heaviest load will move last (Load 1), as long as the cylinders have the same capacity.

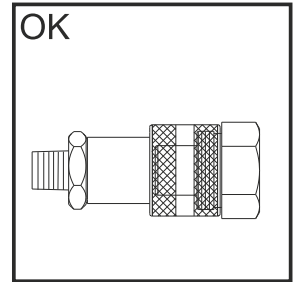
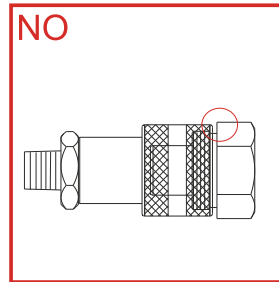
To have all cylinders operate uniformly so that the load is being lifted at the same rate at each point, either control valves or synchronous lift system components must be added to the system.

**Safe limit indicator installed within product. Manufacturer's recommendation of 80% of load and stroke is advisable.**

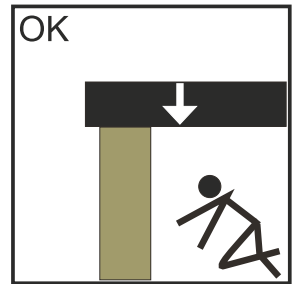
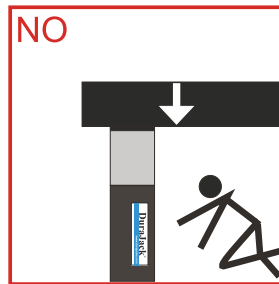
Don't use cylinder without saddle. This will cause plunger to "mushroom". Saddle distribute load evenly on the plunger.



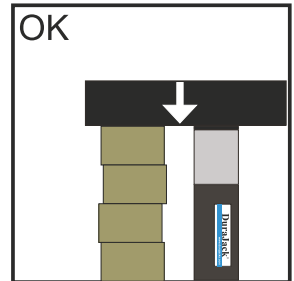
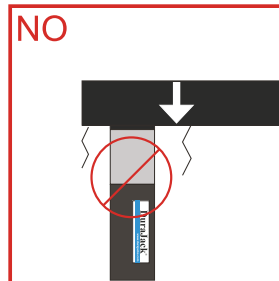
When making connections with quick couplers, make sure the couplings are fully engaged. Threaded connections such as fittings, gauges, etc. must be securely tightened and leak free. Never use excessive tightening force that may distort the fittings or strip the thread profile.



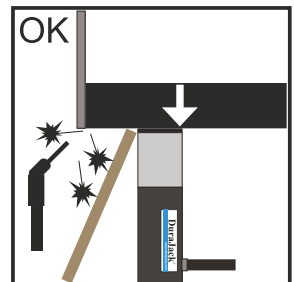
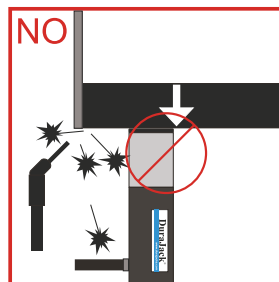
As with jacks, never place any part of your body under the load. Load must be on cribbing before venturing under.



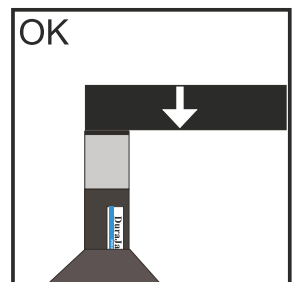
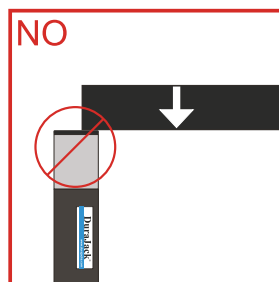
Place blocking or cribbing under the loads as you raise it. Each time you raise it higher, insert more blocking. Position yourself in a manner that will keep you clear of the load, and will not allow your hands or other body part between the load and the cribbing.



Weld splatter will damage plunger rods and hose. Hydraulic fluid can ignite if vaporized or exposed to high temperatures.



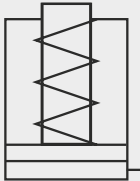
The load must be centered on the ram, or equally distributed on multiple rams. Off center loading can result in the ram slipping out and loss of the load.



## DS SERIES

### Single-Acting, General Cylinders

- High quality cylinder for lifting and pressing applications.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Increased durability with solid steel cylinder body.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.

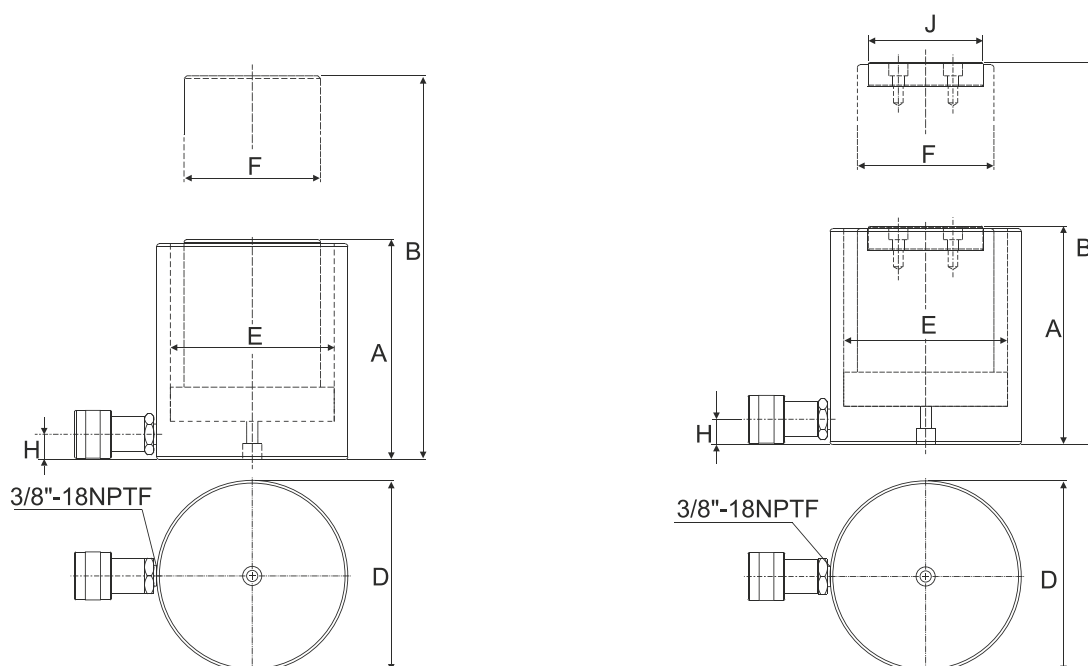


**Single-Acting**  
General Cylinder  
Spring return

Capacity	10-200 ton
Stroke	25-150 mm
Maximum Operating Pressure	700 bar



DS-1506



**Handle Type**

(S) - Standard equipped  
(C) - Customer order



**Weldable**



**Eyebolt**



**Removable  
strap handles**



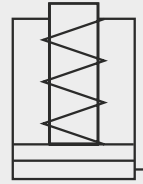
**Thread**

Handle type		Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diam.	Cylinder Bore Diam.	Plunger Diam.	Base to Adv. Port	Saddle Diam.	Wt.
(C)	(S)													
			ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	(kg)
		<b>DS-101</b>	10 (101)	25.0	14.46	36.1	80.0	105.0	70.0	42.93	38.1	19.5	—	2.4
		<b>DS-102</b>		50.0	14.46	72.3	130.0	180.0	57.0	42.93	38.1	19.5	—	2.5
		<b>DS-103</b>		75.0	14.46	108.4	155.0	230.0	57.0	42.93	38.1	19.5	35	3.1
		<b>DS-104</b>		100.0	14.46	144.6	180.0	280.0	57.0	42.93	38.1	19.5	35	3.4
		<b>DS-105</b>		125.0	14.46	180.7	205.0	330.0	57.0	42.93	38.1	19.5	35	4.0
		<b>DS-106</b>		150.0	14.46	216.9	230.0	380.0	57.0	42.93	38.1	19.5	35	4.2
		<b>DS-201</b>	20 (198)	25.0	28.26	70.7	80.0	105.0	90.0	60.00	50.00	17.0	—	3.7
	W	<b>DS-202</b>		50.0	28.26	141.3	135.0	185.0	79.0	60.00	50.00	22.0	—	4.9
	W	<b>DS-203</b>		75.0	28.26	212.0	160.0	235.0	79.0	60.00	50.00	22.0	40	5.6
	W	<b>DS-204</b>		100.0	28.26	282.6	185.0	285.0	79.0	60.00	50.00	22.0	40	6.3
	W	<b>DS-205</b>		125.0	28.26	353.3	210.0	335.0	79.0	60.00	50.00	22.0	40	7.0
	W	<b>DS-206</b>		150.0	28.26	423.9	235.0	385.0	79.0	60.00	50.00	22.0	40	7.7
		<b>DS-301</b>	30 (294)	25.0	42.00	105.0	85.0	110.0	99.0	73.15	57.15	18.0	—	5.0
	W	<b>DS-302</b>		50.0	42.00	210.0	145.0	195.0	99.0	73.15	57.15	22.5	—	7.6
	W	<b>DS-303</b>		75.0	42.00	315.0	170.0	245.0	99.0	73.15	57.15	22.5	49.5	7.8
	W	<b>DS-304</b>		100.0	42.00	420.0	195.0	295.0	99.0	73.15	57.15	22.5	49.5	8.9
	W	<b>DS-305</b>		125.0	42.00	525.0	220.0	345.0	99.0	73.15	57.15	22.5	49.5	10.0
	W	<b>DS-306</b>		150.0	42.00	630.0	245.0	395.0	99.0	73.15	57.15	22.5	49.5	11.0
		<b>DS-501</b>	50 (498)	25.0	71.21	178.0	95.0	120.0	127.0	95.25	79.50	24.0	—	8.8
	W	<b>DS-502</b>		50.0	71.21	356.0	120.0	170.0	127.0	95.25	79.50	24.0	—	10.5
	W	<b>DS-503</b>		75.0	71.21	534.0	190.0	265.0	127.0	95.25	79.50	32.0	70	16.8
	W	<b>DS-504</b>		100.0	71.21	712.0	215.0	315.0	127.0	95.25	79.50	32.0	70	18.2
	W	<b>DS-505</b>		125.0	71.21	890.1	240.0	365.0	127.0	95.25	79.50	32.0	70	19.9
	W	<b>DS-506</b>		150.0	71.21	1068.1	265.0	415.0	127.0	95.25	79.50	32.0	70	21.4
R	W	<b>DS-1001</b>	100 (933)	25.0	133.27	333.1	100.0	125.0	177.0	130.30	104.90	20.0	—	16.9
R	W	<b>DS-1002</b>		50.0	133.27	666.3	160.0	210.0	177.0	130.30	104.90	30.0	84	26.8
R	W	<b>DS-1004</b>		100.0	133.27	1332.7	204.0	304.0	177.0	130.30	104.90	30.0	84	36.8
R	W	<b>DS-1005</b>		125.0	133.27	1665.8	235.0	360.0	177.0	130.30	104.90	30.0	84	40.6
R	W	<b>DS-1006</b>		150.0	133.27	1999.0	260.0	410.0	177.0	130.30	104.90	30.0	84	44.3
R	E	<b>DS-1502</b>		150 (1407)	50.0	200.96	1004.8	200.0	250.0	215.0	160.00	115.00	50.0	99
R	E	<b>DS-1504</b>	100.0		200.96	2009.6	250.0	350.0	215.0	160.00	115.00	50.0	99	60.0
R	E	<b>DS-1506</b>	150.0		200.96	3014.4	300.0	450.0	215.0	160.00	115.00	50.0	99	68.9
R	E	<b>DS-2002</b>	200 (1984)	50.0	283.38	1416.9	200.0	250.0	255.0	190.00	135.00	50.0	115	71.6
R	E	<b>DS-2004</b>		100.0	283.38	2833.0	250.0	350.0	255.0	190.00	135.00	50.0	115	85.0
R	E	<b>DS-2006</b>		150.0	283.38	4250.7	300.0	450.0	255.0	190.00	135.00	50.0	115	98.5

## DAC SERIES

### Single-Acting, Aluminium Cylinders

- Lightweight design for maximum portability and easy position.
- Aluminium alloy materials for enhanced strength and minimal weight.
- Steel base plate and saddle installed for better protection against load-induced damage.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- 3/8" NPTF female coupler and dust cap included for all models.

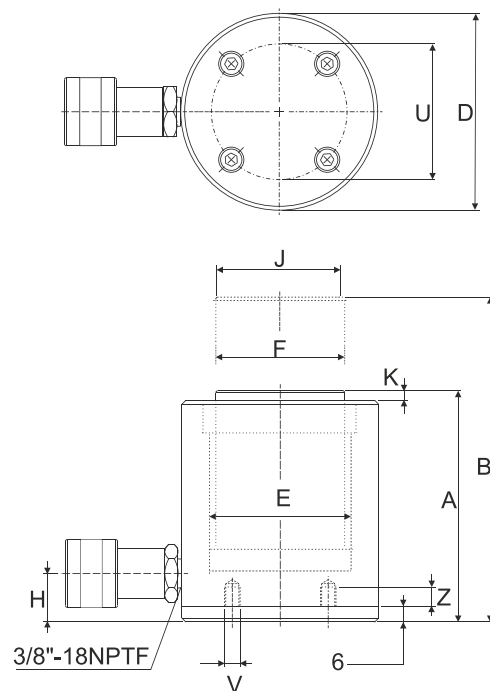


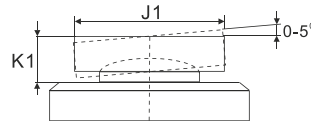
**Single-Acting**  
Aluminium Cylinder  
Spring return

Capacity	<b>20-150 ton</b>
Stroke	<b>50-200 mm</b>
Maximum Operating Pressure	<b>700 bar</b>



**DAC-204**





### Aluminium vs. Steel

- Aluminium different from steel in that it has a lower finite fatigue life. This means aluminium cylinders should not be used in high-cycle applications such as production.
- The **DURAJACK** line of aluminium cylinders are designed to provide 5,000 cycles at their recommended pressure. **This limit should not be exceeded.** In normal lifting and many maintenance applications, this should provide a lifetime of use.

### Steel Base Plate

- The steel base plate protects the cylinder base from damage, it should not be removed.
- Do not use the base holes in these aluminium cylinders to attach any device to the cylinder.

### Optional Bolt Tilt Saddle Dimensions (mm)

Cylinder Model/Cap. (ton)	Model Number	Saddle Diameter J1	Saddle Protrusion from Base K1
DAC-50	<b>DXKCATRAC -50</b>	50.0	25.9
DAC-100	<b>DX KCATRAC -100</b>	91.2	33.0
DAC-150	<b>DX KCATRAC -150</b>	118.1	37.0



### Saddle

All DAC-Series are equipped with removable saddles of hardened steel.

### Steel Base Plate Mounting Holes

Cylinder Model/ Capacity (ton)	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
<b>DAC-20</b>	70.0	M6	12
<b>DAC-30</b>	80.0	M6	12
<b>DAC-50</b>	110.0	M6	12
<b>DAC-100</b>	160.0	M6	12
<b>DAC-150</b>	200.0	M6	12

\*Including Base Plate Height of 6mm.

\*4 base plate bolts: M6X1.0X0.24

### Handle Type

(S) - Standard equipped  
(C) - Customer order



Weldable



Eyebolt



Removable strap handles



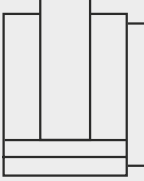
Thread

Handle type	Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diam.	Cylinder Bore Diam.	Plunger Diam.	Base to Adv. Port	Saddle Diam.	Saddle Protrusion from Plngr.	Weight
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	(kg)
T	<b>DAC-202</b>	20 (218)	50	31.2	156	174	224	85	63	50	27	40	3	3.6
T	<b>DAC-204</b>		100	31.2	312	224	324	85	63	50	27	40	3	4.1
T	<b>DAC-206</b>		150	31.2	468	274	424	85	63	50	27	40	3	4.6
T	<b>DAC-302</b>	30 (309)	50	44.2	221	181	231	100	75	60	33	40	3	4.5
T	<b>DAC-304</b>		100	44.2	442	231	331	100	75	60	33	40	3	5.2
T	<b>DAC-306</b>		150	44.2	663	281	431	100	75	60	33	40	3	5.9
T	<b>DAC-502</b>	50 (496)	50	70.9	354	186	236	130	95	80	30	50	3	8.5
T	<b>DAC-504</b>		100	70.9	709	236	336	130	95	80	30	50	3	9.8
T	<b>DAC-506</b>		150	70.9	1063	286	436	130	95	80	30	50	3	11.1
T	<b>DAC-1004</b>	100 (1002)	100	143.1	1431	271	371	188	135	110	46	94	3	19.6
T	<b>DAC-1006</b>		150	143.1	2147	321	471	188	135	110	46	94	3	21.9
T	<b>DAC-1008</b>		200	143.1	2863	371	571	188	135	110	46	94	3	24.2
T	<b>DAC-1506</b>	150 (1589)	150	227.0	3405	343	493	230	170	140	51	113	3	33.3

## DDAC SERIES

### Double-Acting, Aluminium Cylinders

- Lightweight design for maximum portability and easy position.
- Aluminium alloy materials for enhanced strength and minimal weight.
- Steel base plate and saddle installed for better protection against load-induced damage.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Built-in safety valves for prevention of over-pressurize.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- 3/8" NPTF female coupler and dust cap included for all models.



**Double-Acting**  
Aluminium Cylinder  
Spring return

Capacity	50-150 ton
Stroke	50-150 mm
Maximum Operating Pressure	700 bar



#### Handle Type

(S) - Standard equipped  
(C) - Customer order



Weldable



Eyebolt

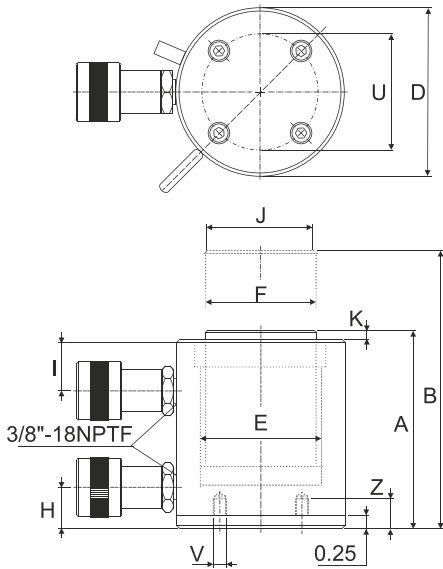


Removable  
strap handles



Thread

Handle type	Model Number	Cylinder Capacity ton (kN)	Stroke (mm)	Max. Cyl.Capacity		Cyl. Effect. Area		Oil Capacity		Coll. Height A (mm)
				Push	Pull	Push	Pull	Push	Pull	
(S)				(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		
T	DDAC-502		50	496	187	70.9	26.7	354	134	201
T	DDAC-504	50 (496)	100	496	187	70.9	26.7	709	267	251
T	DDAC-506		150	496	187	70.9	26.7	1063	401	301
T	DDAC-1004		100	1002	557	143.1	79.5	1431	795	301
T	DDAC-1006	100 (1002)	150	1002	557	143.1	79.5	2147	1193	351
T	DDAC-1008		200	1002	557	143.1	79.5	2863	1590	401
T	DDAC-1506	150 (1589)	150	1589	924	227.0	132.0	3405	1980	348



**Saddle**

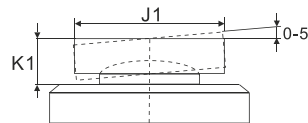
DDAC-Series are equipped with hardened removable "Ribbed saddles" to prevent slippage during jacking.

For off-centre loading application, see optional tilting saddle.



**Steel Base Plate**

- Do not remove steel base plate in order to protect the cylinder base.
- No attachment to be used on base holes of the Aluminium cylinders.



**Steel Base Plate Mounting Holes**

Cylinder Model/ Capacity (tons)	Bolt Circle U (mm)	Thread V (mm)	Thread Depth Z (mm)
<b>DDAC-50</b>	110	M6	12
<b>DDAC-100</b>	165	M6	12
<b>DDAC-150</b>	200	M6	12

\*Including Base Plate Height of 0.25".  
\*4 base plate bolts: M6X1.0X0.24

**Optional Bolt Tilt Saddle Dimensions (mm)**

Cylinder Model/Cap. (ton)	Model Number	Saddle Diameter J1	Saddle Protrusion from Base K1
DDAC-50	<b>DKCATDAC-50</b>	50.0	25.9
DDAC-100	<b>DKCATDAC-100</b>	91.2	33.0
DDAC-150	<b>DKCATDAC-150</b>	118.1	37.0

Ext. Height B (mm)	Out. Diam. D (mm)	Cylinder Bore Diam. E (mm)	Plngr. Diam. F (mm)	Base to Adv. Port H (mm)	Top to Return Port I (mm)	Saddle Diam. J (mm)	Saddle Protr. Fr. Plngr. K (mm)	Weight (kg)	Model Number
251	145	95	75	30	56	50	3	11.1	<b>DDAC-502</b>
351	145	95	75	30	56	50	3	12.7	<b>DDAC-504</b>
451	145	95	75	30	56	50	3	14.3	<b>DDAC-506</b>
401	185	135	90	43	80	94	3	19.3	<b>DDAC-1004</b>
501	185	135	90	43	80	94	3	22.2	<b>DDAC-1006</b>
601	185	135	90	43	80	94	3	25.1	<b>DDAC-1008</b>
498	230	170	110	38	75	113	3	33.2	<b>DDAC-1506</b>

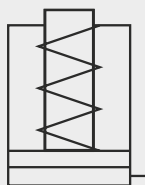
## DC SERIES

### Single-Acting, Collar Threads Cylinders

- Collar threads are standard features on all DC-Series models, simplifying fixtures applications.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Increased durability with solid steel cylinder body.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



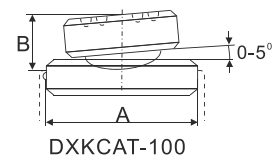
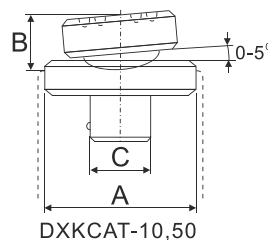
DC-256



#### Single-Acting

Collar threads Cylinder  
Spring return

Capacity	5-100 ton
Stroke	16-362 mm
Maximum Operating Pressure	700 bar



#### Optional Saddle Dimensions (mm)

Cylinder Model/Cap. (ton)	Model Number Type: Tilt			
		A	B	C
DC-10, DC-15 Except DC-101	<b>DXKCAT-10</b>	35	15	22
DC-25, DC-30	<b>DXKCAT-50</b>	50	23	35
DC-50, DC-75, DC-100	<b>DXKCAT-100</b>	71	24	-



#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.



#### Saddle

DC-Series are equipped with hardened removable grooved saddles.

For tilt saddle to fit.

**Handle Type**(S) - Standard equipped  
(C) - Customer order**Weldable****Eyebolt****Removable  
strap handles****Thread**

Handle type		Model Number	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height A (mm)	Plunger internal Thread O (in)	Weight (kg)
(C)	(S)								
		<b>DC-50</b>	5 (45)	16	6.5	10	41	* *	1.0
		<b>DC-51</b>		25	6.5	16	110	3/4"-16	1.0
		<b>DC-53</b>		76	6.5	50	165	3/4"-16	1.5
		<b>DC-55</b>		127	6.5	83	215	3/4"-16	1.9
		<b>DC-57</b>		177	6.5	115	273	3/4"-16	2.4
		<b>DC-59</b>		232	6.5	151	323	3/4"-16	2.8
		<b>DC-101</b>	10 (101)	26	14.5	38	89	#10-24UN	1.8
		<b>DC-102</b>		54	14.5	78	121	1"-8	2.3
		<b>DC-104</b>		105	14.5	152	171	1"-8	3.3
		<b>DC-106</b>		156	14.5	226	247	1"-8	4.4
		<b>DC-108</b>		203	14.5	294	298	1"-8	5.4
		<b>DC-1010</b>		257	14.5	373	349	1"-8	6.4
		<b>DC-1012</b>		304	14.5	441	400	1"-8	6.8
		<b>DC-1014</b>		356	14.5	516	450	1"-8	8.2
		<b>DC-151</b>	15 (142)	25	20.3	51	124	1"-8	3.3
		<b>DC-152</b>		51	20.3	104	149	1"-8	4.1
		<b>DC-154</b>		101	20.3	205	200	1"-8	5.0
		<b>DC-156</b>		152	20.3	308	271	1"-8	6.8
		<b>DC-158</b>		203	20.3	411	322	1"-8	8.2
		<b>DC-1510</b>		254	20.3	516	373	1"-8	9.5
		<b>DC-1512</b>		305	20.3	619	423	1"-8	10.9
		<b>DC-1514</b>		356	20.3	723	474	1"-8	11.8
		<b>DC-251</b>	25 (232)	26	33.2	86	139	1 1/2"-16	5.9
		<b>DC-252</b>		50	33.2	166	165	1 1/2"-16	6.4
		<b>DC-254</b>		102	33.2	339	215	1 1/2"-16	8.2
		<b>DC-256</b>		158	33.2	525	273	1 1/2"-16	10.0
		<b>DC-258</b>		210	33.2	697	323	1 1/2"-16	12.2
		<b>DC-2510</b>		261	33.2	867	374	1 1/2"-16	14.1
		<b>DC-2512</b>		311	33.2	1033	425	1 1/2"-16	16.3
		<b>DC-2514</b>		362	33.2	1202	476	1 1/2"-16	17.7
		<b>DC-308</b>	30 (295)	209	42.1	880	387	—	18.1
		<b>DC-502</b>	50 (498)	51	71.2	362	176	—	15.0
	T	<b>DC-504</b>		101	71.2	719	227	—	19.1
	T	<b>DC-506</b>		159	71.2	1131	282	—	23.1
	R	<b>DC-5013</b>		337	71.2	2399	460	—	37.6
	R	<b>DC-756</b>	75 (718)	156	102.6	1601	285	—	29.5
	R	<b>DC-7513</b>		333	102.6	3417	492	—	59.0
R	W	<b>DC-1004</b>	100 (933)	102	133.3	1355	204	—	33.1
R	E	<b>DC-1006</b>		168	133.3	2239	357	—	59.0
R	E	<b>DC-1008</b>		203	133.3	2709	357	—	59.0
R	E	<b>DC-10010</b>		260	133.3	3466	449	—	72.6

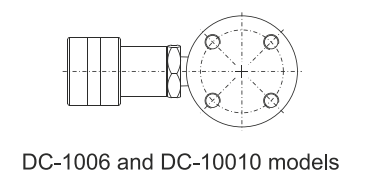
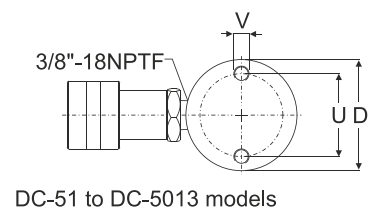
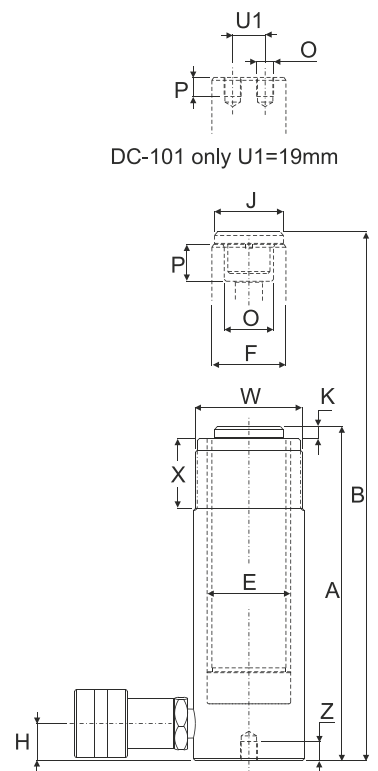
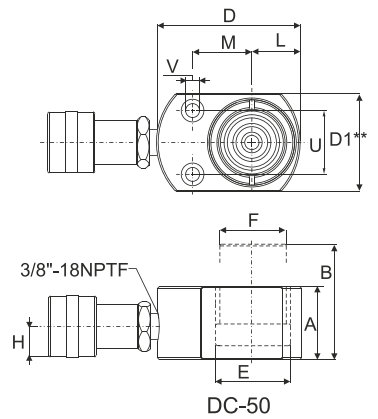
\* DC-50 cylinder has non-removable grooved saddle and no collar thread.

Model Number	Cylinder Capacity ton (kN)	Stroke (mm)	Cylinder Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diam. D (mm)	Cyl. Bore Diam. E (mm)	Plunger Diam. F (mm)	Base to Adv. Port H (mm)	Saddle Diam. J (mm)	Saddle Protrusion from Plngr. K (mm)
DC-50	5 (45)	16	6.5	10	41	57	58	28.7	25.4	19	*	*
DC-51		25	6.5	16	110	135	38	28.7	25.4	19	25	6
DC-53		76	6.5	50	165	241	38	28.7	25.4	19	25	6
DC-55		127	6.5	83	215	342	38	28.7	25.4	19	25	6
DC-57		177	6.5	115	273	450	38	28.7	25.4	19	25	6
DC-59		232	6.5	151	323	555	38	28.7	25.4	19	25	6
DC-101	10 (101)	26	14.5	38	89	115	57	42.9	38.1	19	—	—
DC-102		54	14.5	78	121	175	57	42.9	38.1	19	35	6
DC-104		105	14.5	152	171	276	57	42.9	38.1	19	35	6
DC-106		156	14.5	226	247	403	57	42.9	38.1	19	35	6
DC-108		203	14.5	294	298	501	57	42.9	38.1	19	35	6
DC-1010		257	14.5	373	349	606	57	42.9	38.1	19	35	6
DC-1012		304	14.5	441	400	704	57	42.9	38.1	19	35	6
DC-1014		356	14.5	516	450	806	57	42.9	38.1	19	35	6
DC-151	15 (142)	25	20.3	51	124	149	69	50.8	41.4	19	38	9
DC-152		51	20.3	104	149	200	69	50.8	41.4	19	38	9
DC-154		101	20.3	205	200	301	69	50.8	41.4	19	38	9
DC-156		152	20.3	308	271	423	69	50.8	41.4	25	38	9
DC-158		203	20.3	411	322	525	69	50.8	41.4	25	38	9
DC-1510		254	20.3	516	373	627	69	50.8	41.4	25	38	9
DC-1512		305	20.3	619	423	728	69	50.8	41.4	25	38	9
DC-1514		356	20.3	723	474	830	69	50.8	41.4	25	38	9
DC-251	25 (232)	26	33.2	86	139	165	85	65.0	57.2	25	50	10
DC-252		50	33.2	166	165	215	85	65.0	57.2	25	50	10
DC-254		102	33.2	339	215	317	85	65.0	57.2	25	50	10
DC-256		158	33.2	525	273	431	85	65.0	57.2	25	50	10
DC-258		210	33.2	697	323	533	85	65.0	57.2	25	50	10
DC-2510		261	33.2	867	374	635	85	65.0	57.2	25	50	10
DC-2512		311	33.2	1033	425	736	85	65.0	57.2	25	50	10
DC-2514		362	33.2	1202	476	838	85	65.0	57.2	25	50	10
DC-308	30 (295)	209	42.1	880	387	596	101	73.2	57.2	57	50	10
DC-502	50 (498)	51	71.2	362	176	227	127	95.2	79.5	33	71	2
DC-504		101	71.2	719	227	328	127	95.2	79.5	33	71	2
DC-506		159	71.2	1131	282	441	127	95.2	79.5	35	71	2
DC-5013		337	71.2	2399	460	797	127	95.2	79.5	35	71	2
DC-756	75 (718)	156	102.6	1601	285	441	146	114.3	95.2	30	71	5
DC-7513		333	102.6	3417	492	825	146	114.3	95.2	30	71	5
DC-1004	100 (933)	102	133.3	1355	204	306	177	130.3	104.9	41	71	2
DC-1006		168	133.3	2239	357	525	177	130.3	104.9	41	71	2
DC-1008		203	133.3	2709	357	576	177	130.3	104.9	41	71	2
DC-10010		260	133.3	3466	449	709	177	130.3	104.9	41	71	2

\* DC-50 cylinder has non-removable grooved saddle and no collar thread.

\*\* D1=41mm ; L=20mm ; M=25mm

Plunger Internal Thread	Plunger Thread Length	Base Mounting Holes			Collar Thread	Collar Thread Length	Wt. (kg)	Model Number
		Bolt Circle U (mm)	Thread V (in)	Thread Depth Z (mm)				
O (in)	P (mm)				W (in)	X (mm)		
**	*	28	5.6mm	—	—	—	1.0	<b>DC-50</b>
3/4"-16	14	25	1/4"-20UN	14	1 1/2"-16	28	1.0	<b>DC-51</b>
3/4"-16	14	25	1/4"-20UN	14	1 1/2"-16	28	1.5	<b>DC-53</b>
3/4"-16	14	25	1/4"-20UN	14	1 1/2"-16	28	1.9	<b>DC-55</b>
3/4"-16	16	25	1/4"-20UN	14	1 1/2"-16	28	2.4	<b>DC-57</b>
3/4"-16	16	25	1/4"-20UN	14	1 1/2"-16	28	2.8	<b>DC-59</b>
#10-24UN	6	39	5/16"-18UN	12	2 1/4"-14	26	1.8	<b>DC-101</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	2.3	<b>DC-102</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	3.3	<b>DC-104</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	4.4	<b>DC-106</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	5.4	<b>DC-108</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	6.4	<b>DC-1010</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	6.8	<b>DC-1012</b>
1"-8	19	39	5/16"-18UN	12	2 1/4"-14	26	8.2	<b>DC-1014</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	3.3	<b>DC-151</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	4.1	<b>DC-152</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	5.0	<b>DC-154</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	6.8	<b>DC-156</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	8.2	<b>DC-158</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	9.5	<b>DC-1510</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	10.9	<b>DC-1512</b>
1"-8	25	47	3/8"-16UN	12	2 3/4"-16	30	11.8	<b>DC-1514</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	5.9	<b>DC-251</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	6.4	<b>DC-252</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	8.2	<b>DC-254</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	10.0	<b>DC-256</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	12.2	<b>DC-258</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	14.1	<b>DC-2510</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	16.3	<b>DC-2512</b>
1 1/2"-16	25	58	1/2"-13UN	19	3 5/16"-12	49	17.7	<b>DC-2514</b>
1 1/2"-16	25	—	—	—	3 5/16"-12	49	18.1	<b>DC-308</b>
—	—	95	1/2"-13UN	19	5"-12	55	15.0	<b>DC-502</b>
—	—	95	1/2"-13UN	19	5"-12	55	19.1	<b>DC-504</b>
—	—	95	1/2"-13UN	19	5"-12	55	23.1	<b>DC-506</b>
—	—	95	1/2"-13UN	19	5"-12	55	37.6	<b>DC-5013</b>
—	—	—	—	—	5 3/4"-12	44	29.5	<b>DC-756</b>
—	—	—	—	—	5 3/4"-12	44	59.0	<b>DC-7513</b>
—	—	—	—	—	6 7/8"-12	44	33.1	<b>DC-1004</b>
—	—	139	3/4"-10UN	25	6 7/8"-12	44	59.0	<b>DC-1006</b>
—	—	139	3/4"-10UN	25	6 7/8"-12	44	59.0	<b>DC-1008</b>
—	—	139	3/4"-10UN	25	6 7/8"-12	44	72.6	<b>DC-10010</b>



## DSM SERIES

### Single-Acting, Low Clearance Flat Cylinders

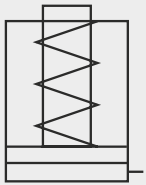
- Seamless compact design ideal for tight constraint applications.
- Mounting holes allows easy fixturing.
- Grooved piston top prevents any load from sliding onto the piston.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Increased durability with solid steel cylinder body.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



**DSM-100**



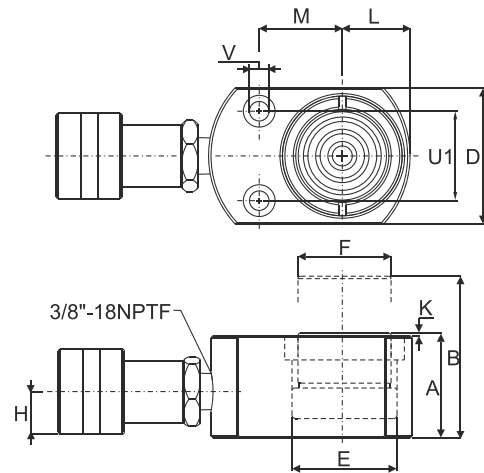
**DSM-300**



#### Single-Acting

Low Height, Flat Cylinder  
Spring return

Capacity	<b>5-150 ton</b>
Stroke	<b>6-16 mm</b>
Maximum Operating Pressure	<b>700 bar</b>



#### Handle Type

(S) - Standard equipped  
(C) - Customer order



**Weldable**



**Eyebolt**



**Removable  
strap handles**



**Thread**

Handle type	Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Cylinder Bore Diam.	Plunger Diam.
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)
	<b>DSM-50</b>	5 (45)	6	6.5	4	32	38	58 x 41	28.7	25.4
	<b>DSM-100</b>	10 (101)	12	14.5	18	43	54	82 x 55	42.9	38.1
	<b>DSM-200</b>	20 (201)	11	28.7	32	51	62	101 x 76	60.5	50.8
	<b>DSM-300</b>	30 (295)	13	42.1	55	58	71	117 x 95	73.2	63.4
	<b>DSM-500</b>	45 (435)	16	62.1	99	66	82	140 x 114	88.9	69.8
W	<b>DSM-750</b>	75 (718)	16	102.6	164	79	95	165 x 139	114.3	82.6
W	<b>DSM-1000</b>	90 (887)	16	126.7	203	85	101	178 x 153	127.0	92.2
W	<b>DSM-1500</b>	150 (1386)	16	198.1	317	100	116	215 x 190	158.8	114.3



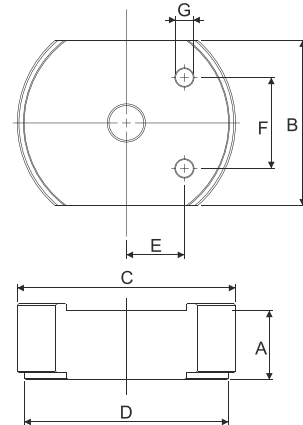
DSM-1000



DSM-50

## DSM Series Accessories

- Various height magnetic adaptors.
- Perfect for low clearance areas needing a little height boost.



Maximum working pressure 10000psi/ 700bar

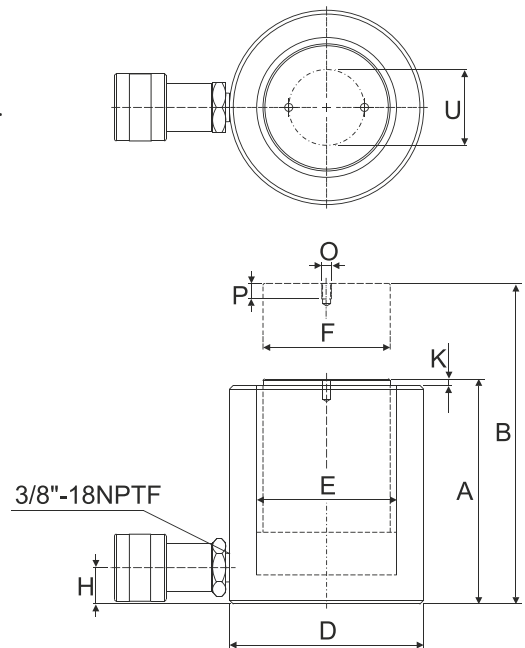
Accessories Number	Cylinder Model	Cylinder Height		Adapter Dimension								Weight (kg)
				A		B	C	D	E	F	G	
		(in)	(mm)	(in)	(mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	(in/mm)	
<b>DXKSM5-6</b>	DSM-50	1.25	32.0	0.1	6.4	1.6 / 41.4	2.5 / 64.7	2.3 / 58.7	0.5 / 13.6	1.1 / 28.5	0.2 / 5.1	0.1
<b>DXKSM5-12</b>				0.5	12.7							0.2
<b>DXKSM5-25</b>				1.0	25.4							0.5
<b>DXKSM5-31</b>				1.3	31.8							0.6
<b>DXKSM10-9</b>	DSM-100	1.69	43.0	0.4	9.9	2.2 / 55.6	3.6 / 90.6	3.3 / 82.6	0.8 / 20.5	1.4 / 36.6	0.3 / 7.1	0.3
<b>DXKSM10-20</b>				0.8	20.0							0.7
<b>DXKSM10-39</b>				1.6	39.9							1.4
<b>DXKSM20-9</b>	DSM-200	2.00	51.0	0.4	9.9	3.0 / 76.2	4.3 / 109.6	4.0 / 101.6	1.1 / 28.4	1.9 / 49.3	0.4 / 10.1	0.6
<b>DXKSM20-20</b>				0.8	20.0							1.1
<b>DXKSM20-39</b>				1.6	39.9							2.2
<b>DXKSM30-9</b>	DSM-300	2.28	58.0	0.4	9.9	3.8 / 95.3	4.9 / 125.6	4.6 / 117.6	1.3 / 33.4	2.1 / 52.3	0.4 / 10.1	0.8
<b>DXKSM30-20</b>				0.8	20.0							1.6
<b>DXKSM30-39</b>				1.6	39.9							3.2

Base to Adv. Port (H (mm))	Plunger Protrusion from Base (K (mm))	Plunger to Base (L (mm))	Plunger to Mtg. Hole (M (mm))	Weight (kg)	Base Mounting Hole				Model Number
					Hole Pitch (U1 (mm))	Hole Diam. (V (mm))	Counter Bore Diam. (mm)	Counter Bore Depth (mm)	
					U1 (mm)	V (mm)	(mm)	(mm)	
16	1	20	22	1.0	28.5	5.5	7.9	4.3	<b>DSM-50</b>
19	1	27	34	1.4	36.6	7.1	10.7	7.9	<b>DSM-100</b>
19	1	39	39	3.1	49.3	10.0	15.1	9.9	<b>DSM-200</b>
19	2	47	44	4.5	52.3	10.0	15.9	11.2	<b>DSM-300</b>
19	2	57	53	6.8	66.5	11.9	19.0	12.7	<b>DSM-500</b>
19	2	69	66	11.3	76.2	13.5	20.6	14.2	<b>DSM-750</b>
19	2	76	74	14.5	76.2	13.5	20.6	14.2	<b>DSM-1000</b>
23	2	95	82	26.3	117.3	13.5	20.6	14.2	<b>DSM-1500</b>

## DCS SERIES

### Single-Acting, Low Height Cylinders

- Low profile design meant for usage within confined spaces.
- Grooved piston end with threaded holes for installation of tilt saddles.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Increased durability with solid steel cylinder body.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



**DCS-201**



**DCS-502**

#### Handle Type

(S) - Standard equipped  
(C) - Customer order



**Weldable**



**Eyebolt**

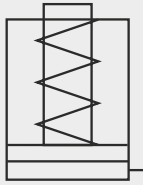


**Removable  
strap handles**



**Thread**

Handle type	Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)
	<b>DCS-101</b>	10 (101)	38	14.5	55	88	126	69
	<b>DCS-201</b>	20 (201)	45	28.7	129	98	143	92
	<b>DCS-302</b>	30 (295)	62	42.1	261	117	179	101
W	<b>DCS-502</b>	45 (435)	60	62.1	373	122	182	124
W	<b>DCS-1002</b>	90 (887)	57	126.7	722	141	198	165



### Single-Acting

Low Height Cylinder  
Spring return

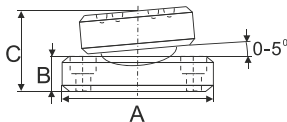
Capacity	10-90 ton
Stroke	38-62 mm
Maximum Operating Pressure	700 bar



### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.



DCS-1002

### Optional Saddle Dimensions (mm)

Cylinder Model/Cap. ton (kN)	Model Number	Model Number		
		A	B	*C
DCS-101	DXKCATRCS-10	35	11	21
DCS-20, 302, 502	DXKCATRCS-20	50	15	29
DCS-1002	DXKCATRCS-100	71	17	35

\*C dimension equals saddle protrusion from plunger. Mounting screws are included.



### Saddle

All DCS series cylinders have plunger mounting holes for installation of tilt saddles.

Cylinder Bore Diameter	Plunger Diameter	Base to Adv. Port	Plunger Protrusion from Base	Thread	Thread Depth	Bolt Circle	Weight	Model Number
E (mm)	F (mm)	H (mm)	K (mm)	O (mm)	P (mm)	U (mm)	(kg)	
42.9	38.1	17	5	M4	8	26	4.1	DCS-101
60.5	50.8	17	3	M5	8	39	5.0	DCS-201
73.2	66.5	19	3	M5	8	39	6.8	DCS-302
88.9	69.8	23	2	M5	8	39	10.9	DCS-502
127.0	92.2	31	1	M8	10	55	22.7	DCS-1002

## DH SERIES

### Single-Acting, Hollow Plunger Cylinders

- Hollow plunger design for pulling and pushing applications such as tensioning of cables or pushing of bearings out from shaft.
- Able to withstands full "dead-end" loads.
- Collar threads features, simplifying fixtures applications. Comes with a cap for better protection.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Increased durability with solid steel cylinder body.
- Maximum sized springs speed piston return and increase spring life.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.
- Also comes in aluminium range.



**DH-603**



#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.

#### Handle Type

(S) - Standard equipped  
(C) - Customer order



**Weldable**



**Eyebolt**

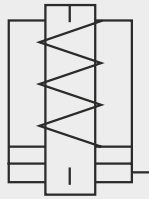


**Removable  
strap handles**



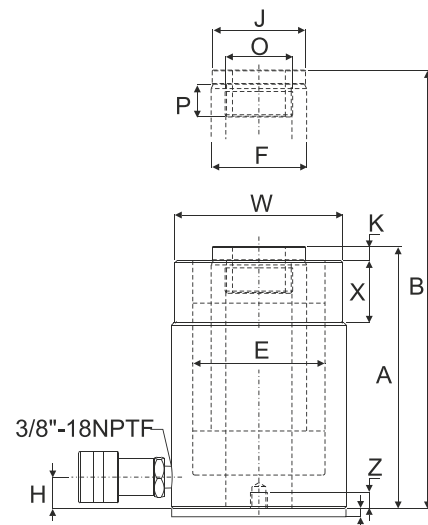
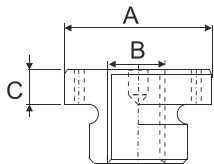
**Thread**

Handle type	Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diam.	Cylinder Bore Diam.	Plunger Diam.	Cyl. Base to Adv. Port
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)
	<b>DH-120</b>	13 (125)	8	17.9	14	55	63	69	54.1	35.1	9
	<b>DH-121</b>		42	17.9	75	120	162	69	54.1	35.1	19
	<b>DH-1211</b>		42	17.9	75	120	162	69	54.1	35.1	19
	<b>DH-123</b>		76	17.9	136	184	260	69	54.1	35.1	19
W	<b>DH-202</b>	20 (215)	49	30.7	150	162	211	98	73.1	54.1	19
W	<b>DH-204</b>		102	30.7	311	242	344	98	73.1	54.1	19
W	<b>DH-206</b>		155	30.7	476	306	461	98	73.1	54.1	19
W	<b>DH-302</b>	30 (326)	64	46.6	298	178	242	114	88.9	63.5	22
W	<b>DH-304</b>		102	46.6	473	233	335	114	88.9	63.5	22
W	<b>DH-306</b>		155	46.6	722	330	485	114	88.9	63.5	25
R	<b>DH-603</b>	60 (576)	76	82.3	626	247	323	159	123.9	91.9	31
R	<b>DH-606</b>		153	82.3	1259	323	476	159	123.9	91.9	31
R	<b>DH-1003</b>	95 (931)	76	133.0	1011	254	330	212	165.1	127.0	38



**Single-Acting**  
Hollow Plunger Cylinder  
Spring return

Capacity	13-95 ton
Stroke	8-155 mm
Centre Hole Diameter	19.6-79.0 mm
Maximum Operating Pressure	700 bar

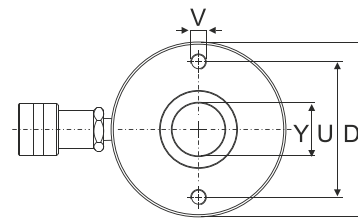


Steel baseplate :  
12ton serial : 8mm  
20~30ton serial : 10mm  
60ton serial : 12mm  
100ton serial : 16mm

**Optional Heat Treated Hollow Saddles**

Cylinder Model/Cap. (ton)	Model Number	Saddle Dimensions		
		A (mm)	B (in)	C (mm)
DH-202, 206	<b>DXKHCH-20</b>	53	1"-8	9
DH-302, 306	<b>DXKHCH-30</b>	63	1-1/4"-7	9
DH-603, 606	<b>DXKHCH-60</b>	91	1-5/8"-5-1/2	12
DH-1003	<b>DXKHCH-100</b>	126	2-1/2"-8	13

\*Smooth hollow saddles are standard on all DH series.  
(12ton models are not equipped with saddles.)



This drawing show the base mounting holes of barrel before setting steel base plate.

Saddle Diam. J (mm)	Saddle Protr. from Plngr. K (mm)	Plunger Internal Thread O (in)	Plunger Thread Length P (mm)	Collar Thread W (in)	Collar Thread Length X (mm)	Center Hole Diam. Y (mm)	Base Mounting Holes			Weight (kg)	Model Number
							Bolt Circle U (mm)	Thread V (in)	Thread Depth Z (mm)		
—	—	3/4"-16UN	16	23/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	1.70	<b>DH-120</b>
—	—	—	—	23/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	3.00	<b>DH-121</b>
—	—	3/4"-16UN	16	23/4"-16	30	19.6	50.8	5/16"-18UNC	9.0	3.00	<b>DH-1211</b>
—	—	—	—	23/4"-16	30	19.6	50.8	5/16"-18UNC	12.7	4.60	<b>DH-123</b>
54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	8.20	<b>DH-202</b>
54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	10.50	<b>DH-204</b>
54	6.9	1 9/16"-16UN	19	3 7/8"-12	38	26.9	82.6	3/8"-16UNC	9.4	14.60	<b>DH-206</b>
63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	11.55	<b>DH-302</b>
63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	14.75	<b>DH-304</b>
63	9.7	1 13/16"-16UN	22	4 1/2"-12	42	33.3	92.2	3/8"-16UNC	14.0	22.45	<b>DH-306</b>
91	12.7	2 3/4"-16UN	19	6 1/4"-12	48	53.8	130.3	1/2"-13UNC	14.0	29.70	<b>DH-603</b>
91	12.7	2 3/4"-16UN	19	6 1/4"-12	48	53.8	130.3	1/2"-13UNC	14.0	37.00	<b>DH-606</b>
126	12.7	4"-16UN	25	8 3/8"-12	60	79.0	177.8	5/8"-11UNC	19.0	66.60	<b>DH-1003</b>

## DDH SERIES

### Double-Acting, Hollow Plunger Cylinders

- Hollow plunger design for pulling and pushing applications such as tensioning of cables or pushing of bearings out from shaft.
- Built-in safety valves for prevention of over-pressurize.
- Able to withstands full "dead-end" loads.
- Collar threads features (Except DDH-1001 & DDH-1508), simplifying fixtures applications. Comes with a cap for better protection.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.
- Also comes in aluminium range.



DDH-6010



DDH-1508



#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.

#### Handle Type

(S) - Standard equipped  
(C) - Customer order



Weldable



Eyebolt

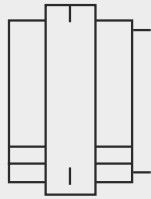


Removable  
strap handles



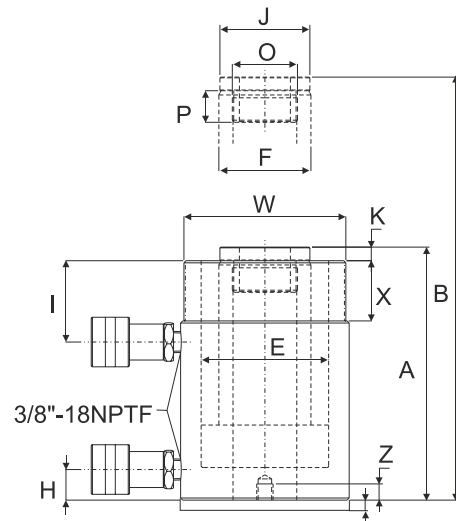
Thread

Handle type	Model Number	Cylinder Capacity	Stroke	Max. Cyl.Capacity		Cyl. Effect. Area		Oil Capacity		Coll. Height	Ext. Height	Out. Diam.	Cylinder Bore Diam.	Plngr. Diam.
				Push	Pull	Push	Pull	Push	Pull					
(S)		ton (kN)	(mm)	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		A (mm)	B (mm)	D (mm)	E (mm)	F (mm)
R	DDH-307	30	178	326	213	46.6	30.4	829	541	330	508	114	88.9	63.5
R	DDH-3010	(326)	258	326	213	46.6	30.4	1202	784	431	689	114	88.9	63.5
R	DDH-603	60	89	576	380	82.3	54.2	733	482	247	336	159	123.9	92.2
R	DDH-606	(576)	166	576	380	82.3	54.2	1366	900	323	489	159	123.9	92.2
R	DDH-6010		257	576	380	82.3	54.2	2115	1393	438	695	159	123.9	92.2
R	DDH-1001	95	38	931	612	133.0	87.4	505	333	165	203	212	165.1	127.0
R	DDH-1003	(931)	76	931	612	133.0	87.4	1011	666	254	330	212	165.1	127.0
R	DDH-1006		153	931	612	133.0	87.4	2035	1337	342	495	212	165.1	127.0
R	DDH-10010		257	931	612	133.0	87.4	3420	2246	460	717	212	165.1	127.0
R	DDH-1508	145	203	1429	718	204.1	102.6	4144	2083	349	552	247	190.5	152.4
		(1429)												

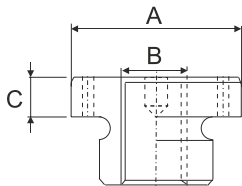


**Double-Acting**  
Hollow Plunger Cylinder  
Hydraulic return

Capacity	<b>30-145 ton</b>
Stroke	<b>38-258 mm</b>
Centre Hole Diameter	<b>33.3~79.5 mm</b>
Maximum Operating Pressure	<b>700 bar</b>



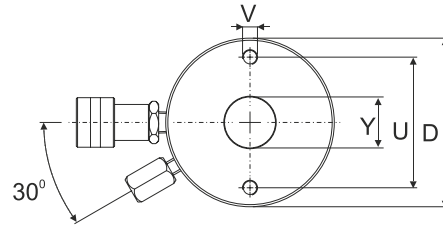
Steel baseplate :  
12ton serial : 8mm  
20~30ton serial : 10mm  
60ton serial : 12mm  
100ton serial : 16mm



**Optional Heat Treated Hollow Saddles**

Cylinder Model/ Cap. ton (kN)	Model Number	Saddle Dimensions		
		A (mm)	B (in)	C (mm)
DDH-307, 3010	DXKHCH-30	63	1-1/4"-7	9
DDH-603, 606, 6010	DXKHCH-60	91	1-5/8"-5-1/2	12
DDH-1001, 1003 1006, 10010	DXKHCH-100	126	2-1/2"-8	13

\*Smooth hollow saddles are standard on all DDH series.



This drawing show the base mounting holes of barrel before setting steel base plate.

Cyl. Base to Adv. Port H (mm)	Cyl. Top to Return Port I (mm)	Saddle Diam. J (mm)	Saddle Prot. Fr. Plngr. K (mm)	Plunger Internal Thread O (in)	Plunger Thread Length P (mm)	Collar Thread W (in)	Collar Thread Length X (mm)	Center Hole Diam. Y (mm)	Base Mounting Holes			Weight (kg)	Model Number
									Bolt Circle U (mm)	Thread V (in)	Thread Depth Z (mm)		
25	60	63	9	1 13/16"-16	22	4 1/2"-12	42	33.3	92.2	3/8"-16	15.7	21.65	<b>DDH-307</b>
25	60	63	9	1 13/16"-16	22	4 1/2"-12	42	33.3	92.2	3/8"-16	15.7	27.65	<b>DDH-3010</b>
31	66	91	12	2 3/4"-16	19	6 1/4"-12	48	54.1	130.0	1/2"-13	14.0	29.60	<b>DDH-603</b>
31	66	91	12	2 3/4"-16	19	6 1/4"-12	48	54.1	130.0	1/2"-13	14.0	36.60	<b>DDH-606</b>
31	66	91	12	2 3/4"-16	19	6 1/4"-12	48	54.1	130.0	1/2"-13	14.0	46.60	<b>DDH-6010</b>
38	44	126	12	4"-16	25	—	—	79.5	177.8	5/8"-11	19.0	36.60	<b>DDH-1001</b>
38	85	126	12	4"-16	25	8 3/8"-12	60	79.5	177.8	5/8"-11	19.0	64.60	<b>DDH-1003</b>
38	85	126	12	4"-16	25	8 3/8"-12	60	79.5	177.8	5/8"-11	19.0	82.60	<b>DDH-1006</b>
38	85	126	12	4"-16	25	8 3/8"-12	60	79.5	177.8	5/8"-11	19.0	109.60	<b>DDH-10010</b>
38	60	127	4	4 1/4"-12	25	—	—	79.5	214.0	5/8"-11	15.0	116.00	<b>DDH-1508</b>

## DD SERIES

### Double-Acting, General Cylinders

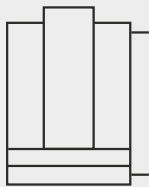
- Double-acting design allows for pull and push forces.
- Built-in safety valves for prevention of over-pressurize.
- Collar threads, plunger threads and base mounting holes features, simplifying fixtures applications.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



DD-308



DD-1506



#### Double-Acting

Long Stroke Cylinder  
Hydraulic return

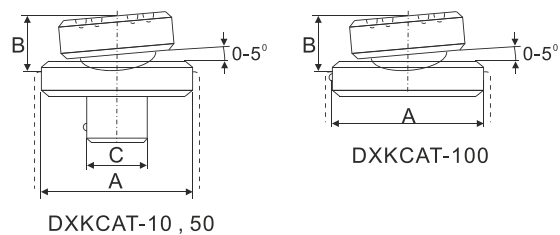
Capacity	10-520 ton
Stroke	57-1219 mm
Maximum Operating Pressure	700 bar



#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.



#### Optional Tilt Saddles Dimensions (mm)

Cylinder Model/ Cap. (ton)	Model Number Type: Tilt	A	B	C
DD-1010, 1012	<b>DXKCAT-10</b>	35	20	22
DD-308, 3014	<b>DXKCAT-50</b>	50	21	35
DD-506, 5013, 5020, 756, 7513	<b>DXKCAT-100</b>	71	24	—

DD-Series up to 75 tons have plunger thread for installation of DXKCAT-Series tilt saddles.

**Handle Type**(S) - Standard equipped  
(C) - Customer order**Weldable****Eyebolt****Removable  
strap handles****Thread**

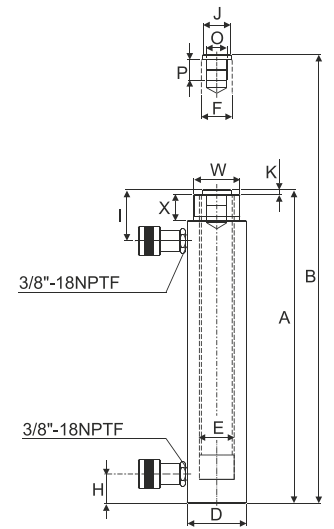
Handle type		Model Number	Cylinder Capacity	Stroke	Max. Cylinder Capacity		Collapsed Height	Weight
(C)	(S)				Push	Pull		
			ton (kN)	(mm)	(kN)		A (mm)	(kg)
		<b>DD-1010</b>	10 (101)	254	101	33	409	12
		<b>DD-1012</b>		305	101	33	457	14
		<b>DD-308</b>	30 (295)	209	295	133	387	18
		<b>DD-3014</b>		368	295	133	549	29
	R	<b>DD-506</b>	50 (498)	156	498	150	331	30
	R	<b>DD-5013</b>		334	498	150	509	52
	R	<b>DD-5020</b>		511	498	150	733	68
	R	<b>DD-756</b>	75 (718)	156	718	220	347	41
	R	<b>DD-7513</b>		333	718	220	525	68
	<sup>E</sup> R	<b>DD-1006</b>	95 (933)	168	933	435	357	61
	<sup>E</sup> R	<b>DD-10013</b>		333	933	435	524	93
R	E	<b>DD-10018</b>		460	933	435	687	117
	<sup>E</sup> R	<b>DD-1502</b>	140 (1386)	57	1386	668	196	49
R	E	<b>DD-1506</b>		156	1386	668	385	93
R	E	<b>DD-15013</b>		333	1386	668	563	124
R	E	<b>DD-15032</b>		815	1386	668	1116	238
R	E	<b>DD-2006</b>	200 (1995)	152	1995	1017	430	147
R	E	<b>DD-20013</b>		330	1995	1017	608	199
R	E	<b>DD-20018</b>		457	1995	1017	765	204
R	E	<b>DD-20024</b>		610	1995	1017	917	279
R	E	<b>DD-20036</b>		914	1995	1017	1222	383
R	E	<b>DD-20048</b>		1219	1995	1017	1527	483
	E	<b>DD-3006</b>	325 (3201)	153	3201	1703	485	200
	E	<b>DD-30012</b>		305	3201	1703	638	312
	E	<b>DD-30018</b>		457	3201	1703	790	385
	E	<b>DD-30024</b>		609	3201	1703	943	469
	E	<b>DD-30036</b>		915	3201	1703	1247	628
	E	<b>DD-30048</b>		1219	3201	1703	1552	780
	E	<b>DD-4006</b>	440 (4292)	152	4292	2297	538	303
	E	<b>DD-40012</b>		305	4292	2297	690	399
	E	<b>DD-40018</b>		457	4292	2297	843	453
	E	<b>DD-40024</b>		610	4292	2297	995	597
	E	<b>DD-40036</b>		914	4292	2297	1300	792
	E	<b>DD-40048</b>		1219	4292	2297	1605	980
	E	<b>DD-5006</b>	520 (5108)	153	5108	2838	577	432
	E	<b>DD-50012</b>		305	5108	2838	730	589
	E	<b>DD-50018</b>		457	5108	2838	882	680
	E	<b>DD-50024</b>		609	5108	2838	1035	816
	E	<b>DD-50036</b>		915	5108	2838	1339	1002
	E	<b>DD-50048</b>		1219	5108	2838	1644	1224

DD-1010 and DD-1012 : N=32mm ; DD-3 08 and DD-3014 : N=55mm.

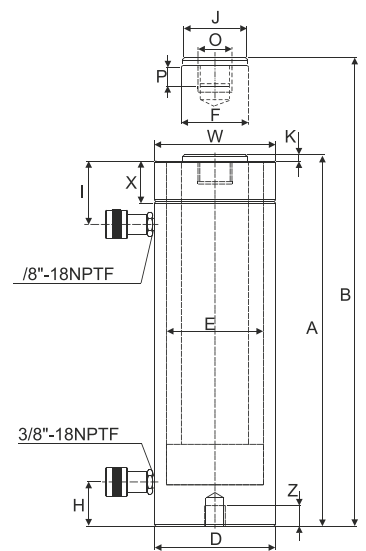
Model Number	Cylinder Capacity	Stroke	Max. Cyl.Capacity		Cyl. Effect. Area		Oil Capacity		Coll. Height	Ext. Height	Out. Diam.	Cylinder Bore Diam.	Plngr. Diam.	Base to Adv. Port	Top to Return Port
			Push	Pull	Push	Pull	Push	Pull							
	ton (kN)	(mm)	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )		A (mm)	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	I (mm)
DD-1010	10 (101)	254	101	33	14.5	4.8	368	122	409	663	73	42.9	34.9	36	57
DD-1012		305	101	33	14.5	4.8	442	147	457	762	73	42.9	34.9	36	57
DD-308	30 (295)	209	295	133	42.1	19.1	879	400	387	596	101	73.2	54.1	57	81
DD-3014		368	295	133	42.1	19.1	1549	703	549	917	101	73.2	54.1	57	81
DD-506	50 (498)	156	498	150	71.2	21.5	1111	335	331	487	127	95.2	79.5	28	76
DD-5013		334	498	150	71.2	21.5	2378	718	509	843	127	95.2	79.5	28	76
DD-5020		511	498	150	71.2	21.5	3638	1099	733	1244	127	95.2	79.5	57	76
DD-756	75 (718)	156	718	220	102.6	31.4	1601	490	347	503	146	114.3	95.2	30	76
DD-7513		333	718	220	102.6	31.4	3417	1046	525	858	146	114.3	95.2	30	81
DD-1006	95 (933)	168	933	435	133.3	62.2	2238	1045	357	525	177	130.3	95.2	38	71
DD-10013		333	933	435	133.3	62.2	4439	2071	524	857	177	130.3	95.2	38	71
DD-10018		460	933	435	133.3	62.2	6132	2861	687	1147	177	130.3	95.2	41	92
DD-1502	140 (1386)	57	1386	668	198.1	95.4	1129	544	196	253	203	158.8	114.3	22	66
DD-1506		156	1386	668	198.1	95.4	3090	1488	385	541	203	158.8	114.3	49	84
DD-15013		333	1386	668	198.1	95.4	6597	3177	563	897	203	158.8	114.3	49	84
DD-15032		815	1386	668	198.1	95.4	16145	7775	1116	1931	203	158.8	114.3	76	88
DD-2006	200 (1995)	152	1995	1017	285.0	145.3	4332	2209	430	582	247	190.5	133.4	57	96
DD-20013		330	1995	1017	285.0	145.3	9405	4795	608	938	247	190.5	133.4	57	96
DD-20018		457	1995	1017	285.0	145.3	13025	6640	765	1222	247	190.5	133.4	85	101
DD-20024		610	1995	1017	285.0	145.3	17385	8863	917	1527	247	190.5	133.4	85	101
DD-20036		914	1995	1017	285.0	145.3	26049	13280	1222	2136	247	190.5	133.4	85	101
DD-20048		1219	1995	1017	285.0	145.3	34741	17712	1527	2746	247	190.5	133.4	85	101
DD-3006	325 (3201)	153	3201	1703	457.3	243.2	6997	3721	485	638	311	241.3	165.1	88	114
DD-30012		305	3201	1703	457.3	243.2	13947	7418	638	943	311	241.3	165.1	88	114
DD-30018		457	3201	1703	457.3	243.2	20889	11114	790	1247	311	241.3	165.1	88	114
DD-30024		609	3201	1703	457.3	243.2	27850	14811	943	1552	311	241.3	165.1	88	114
DD-30036		915	3201	1703	457.3	243.2	41843	22253	1247	2162	311	241.3	165.1	88	114
DD-30048		1219	3201	1703	457.3	243.2	55745	29646	1552	2771	311	241.3	165.1	88	114
DD-4006	440 (4292)	152	4292	2297	613.1	328.1	9319	4987	538	690	358	279.4	190.5	108	133
DD-40012		305	4292	2297	613.1	328.1	18700	10007	690	995	358	279.4	190.5	108	133
DD-40018		457	4292	2297	613.1	328.1	28018	14995	843	1300	358	279.4	190.5	108	133
DD-40024		610	4292	2297	613.1	328.1	37400	20014	995	1605	358	279.4	190.5	108	133
DD-40036		914	4292	2297	613.1	328.1	56037	29988	1300	2214	358	279.4	190.5	108	133
DD-40048		1219	4292	2297	613.1	328.1	74737	39996	1605	2824	358	279.4	190.5	108	133
DD-5006	520 (5108)	153	5108	2838	729.7	405.4	11164	6203	577	730	397	304.8	203.2	120	152
DD-50012		305	5108	2838	729.7	405.4	22256	12365	730	1035	397	304.8	203.2	120	152
DD-50018		457	5108	2838	729.7	405.4	33347	18526	882	1339	397	304.8	203.2	120	152
DD-50024		609	5108	2838	729.7	405.4	44440	24689	1035	1644	397	304.8	203.2	120	152
DD-50036		915	5108	2838	729.7	405.4	66768	36973	1339	2254	397	304.8	203.2	120	152
DD-50048		1219	5108	2838	729.7	405.4	88951	49418	1644	2863	397	304.8	203.2	120	152

DD-1010 and DD-1012 : N=32mm ; DD-3 08 and DD-3014 : N=55mm.

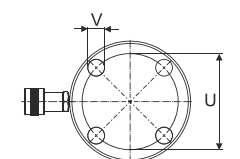
Saddle Diam.	Saddle Protr. fr. Plngr.	Plunger Internal Thread	Plunger Thread Length	Base Mounting Holes			Collar Thread	Collar Thread Length	Weight (kg)	Model Number
				Bolt Circle	Thread	Thread Depth				
J (mm)	K (mm)	O (in)	P (mm)	U (mm)	V (in)	Z (mm)	W (in)	X (mm)		
35	6	1"-8	25	—	—	—	2 1/4"-14	26	12	<b>DD-1010</b>
35	6	1"-8	25	—	—	—	2 1/4"-14	26	14	<b>DD-1012</b>
50	10	1 1/2"-16	25	—	—	—	3 5/16"-12	49	18	<b>DD-308</b>
50	10	1 1/2"-16	25	—	—	—	3 5/16"-12	49	29	<b>DD-3014</b>
71	2	1"-12	25	—	—	—	5"-12	50	30	<b>DD-506</b>
71	2	1"-12	25	—	—	—	5"-12	50	52	<b>DD-5013</b>
71	2	1"-12	25	76	1/2"-13	25	5"-12	50	68	<b>DD-5020</b>
71	6	1"-12	38	—	—	—	5 3/4"-12	38	41	<b>DD-756</b>
71	6	1"-12	38	—	—	—	5 3/4"-12	38	68	<b>DD-7513</b>
76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	61	<b>DD-1006</b>
76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	93	<b>DD-10013</b>
76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	117	<b>DD-10018</b>
93	19	—	—	—	—	—	—	—	49	<b>DD-1502</b>
114	19	3 3/8"-16	35	158	3/4"-16	28	8"-12	60	93	<b>DD-1506</b>
114	19	3 3/8"-16	35	158	3/4"-16	28	8"-12	60	124	<b>DD-15013</b>
114	19	3 3/8"-16	35	—	—	—	8"-12	60	238	<b>DD-15032</b>
133	22	—	—	127	1"-8	25	—	—	147	<b>DD-2006</b>
133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	199	<b>DD-20013</b>
133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	204	<b>DD-20018</b>
133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	279	<b>DD-20024</b>
133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	383	<b>DD-20036</b>
133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	483	<b>DD-20048</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	200	<b>DD-3006</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	312	<b>DD-30012</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	385	<b>DD-30018</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	469	<b>DD-30024</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	628	<b>DD-30036</b>
165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	780	<b>DD-30048</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	303	<b>DD-4006</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	399	<b>DD-40012</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	453	<b>DD-40018</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	597	<b>DD-40024</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	792	<b>DD-40036</b>
190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	980	<b>DD-40048</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	432	<b>DD-5006</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	589	<b>DD-50012</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	680	<b>DD-50018</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	816	<b>DD-50024</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	1002	<b>DD-50036</b>
203	28	3 1/4"-12	108	203	1 3/4"-5	54	15 5/8"-8	79	1224	<b>DD-50048</b>



DD-1010 to DD-3014 models

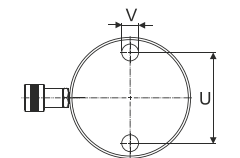


DD-506 to DD-50048 models



DD-1006 to DD-30048 models

No mounting hole on DD-506 / 5013 / 5020 / 756 / 7513 / 1502 / 15032



DD-4006 to DD-50048 models

## DLSG SERIES

### Single-Acting, High Tonnage Cylinders

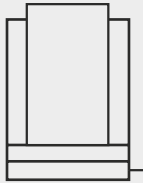
- Single-Acting, load return hydraulic cylinders up till 1000 tonnage.
- Optional swivel cap to provide up to 5 degrees of concentrated load centering.
- Base mounting holes standard on all models.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Integral stop ring for piston blow-out protection.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



**DLSG-506**



**DLSG-1006**



#### Single-Acting

High Tonnage Cylinder  
Load return

Capacity	50-1,000 ton
Stroke	50-300 mm
Maximum Operating Pressure	700 bar

#### 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 1,000 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.



#### Feature

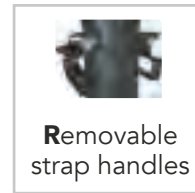
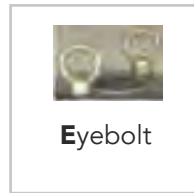
- DLSG-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1,000 tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.

#### Low Height-High Tonnage

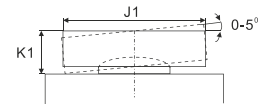
- When low height with high force is required, load return with lock ring cyl. offer the solution to lift the first few inches.

### Handle Type

(S) - Standard equipped  
(C) - Customer order



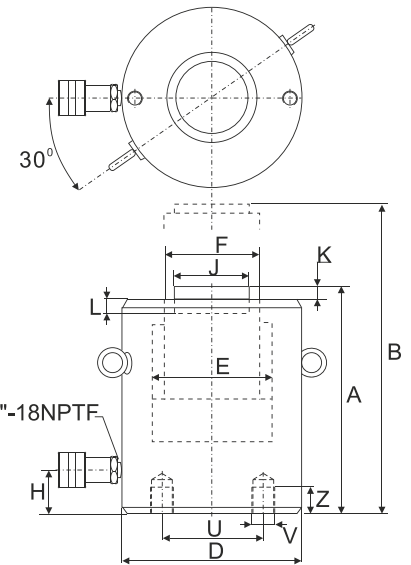
Handle type	Model Number	Cylinder Capacity	Stroke	Effective Area	Coll. Height	Weight	Optional Tilt Saddle		
							Model Number	Diam.	Ht.
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1 (mm)	J1 (mm)	K1 (mm)
E	DLSG-502	50 (539)	50	77.0	162	17	<b>DXKCATG-50</b>	50	24
E	DLSG-504		100	77.0	212	20	<b>DXKCATG-50</b>	50	24
E	DLSG-506		150	77.0	262	23	<b>DXKCATG-50</b>	50	24
E	DLSG-508		200	77.0	312	27	<b>DXKCATG-50</b>	50	24
E	DLSG-5010		250	77.0	362	31	<b>DXKCATG-50</b>	50	24
E	DLSG-5012		300	77.0	412	34	<b>DXKCATG-50</b>	50	24
E	DLSG-1002	100 (929)	50	132.7	182	19	<b>DXKCATG-100</b>	73	29
E	DLSG-1004		100	132.7	232	29	<b>DXKCATG-100</b>	73	29
E	DLSG-1006		150	132.7	282	40	<b>DXKCATG-100</b>	73	29
E	DLSG-1008		200	132.7	332	50	<b>DXKCATG-100</b>	73	29
E	DLSG-10010		250	132.7	382	61	<b>DXKCATG-100</b>	73	29
E	DLSG-10012		300	132.7	432	71	<b>DXKCATG-100</b>	73	29
E	DLSG-1502	150 (1390)	50	198.6	196	39	<b>DXKCATG-150</b>	91	31
E	DLSG-1504		100	198.6	246	52	<b>DXKCATG-150</b>	91	31
E	DLSG-1506		150	198.6	296	65	<b>DXKCATG-150</b>	91	31
E	DLSG-1508		200	198.6	346	78	<b>DXKCATG-150</b>	91	31
E	DLSG-15010		250	198.6	396	92	<b>DXKCATG-150</b>	91	31
E	DLSG-15012		300	198.6	446	105	<b>DXKCATG-150</b>	91	31
E	DLSG-2002	200 (1861)	50	265.9	216	68	<b>DXKCATG-200</b>	113	35
E	DLSG-2006		150	265.9	316	91	<b>DXKCATG-200</b>	113	35
E	DLSG-20012		300	265.9	466	146	<b>DXKCATG-200</b>	113	35
E	DLSG-2502	250 (2565)	50	366.4	235	102	<b>DXKCATG-250</b>	144	46
E	DLSG-2506		150	366.4	335	136	<b>DXKCATG-250</b>	144	46
E	DLSG-25012		300	366.4	485	207	<b>DXKCATG-250</b>	144	46
E	DLSG-3002	300 (3193)	50	456.2	312	184	<b>DXKCATG-300</b>	160	62
E	DLSG-3006		150	456.2	412	232	<b>DXKCATG-300</b>	160	62
E	DLSG-30012		300	456.2	562	303	<b>DXKCATG-300</b>	160	62
E	DLSG-4002	400 (3919)	50	559.9	375	270	<b>DXKCATG-400</b>	193	51
E	DLSG-4006		150	559.9	475	330	<b>DXKCATG-400</b>	193	51
E	DLSG-40012		300	559.9	625	421	<b>DXKCATG-400</b>	193	51
E	DLSG-5002	500 (5114)	50	730.6	419	401	<b>DXKCATG-500</b>	228	63
E	DLSG-5006		150	730.6	519	480	<b>DXKCATG-500</b>	228	63
E	DLSG-50012		300	730.6	669	599	<b>DXKCATG-500</b>	228	63
E	DLSG-6002	600 (5987)	50	855.3	429	474	<b>DXKCATG-600</b>	241	76
E	DLSG-6006		150	855.3	529	565	<b>DXKCATG-600</b>	241	76
E	DLSG-60012		300	855.3	679	701	<b>DXKCATG-600</b>	241	76
E	DLSG-8002	800 (8234)	50	1176.3	474	741	<b>DXKCATG-800</b>	287	75
E	DLSG-8006		150	1176.3	574	880	<b>DXKCATG-800</b>	287	75
E	DLSG-80012		300	1176.3	724	1058	<b>DXKCATG-800</b>	287	75
							<b>Equipped Tilt Saddle</b>		
E	DLSG-10002	1000 (10260)	50	1465.7	564	1062	<b>DXKCATG-1000</b>	311	93
E	DLSG-10006		150	1465.7	664	1213	<b>DXKCATG-1000</b>	311	93
E	DLSG-100012		300	1465.7	814	1439	<b>DXKCATG-1000</b>	311	93



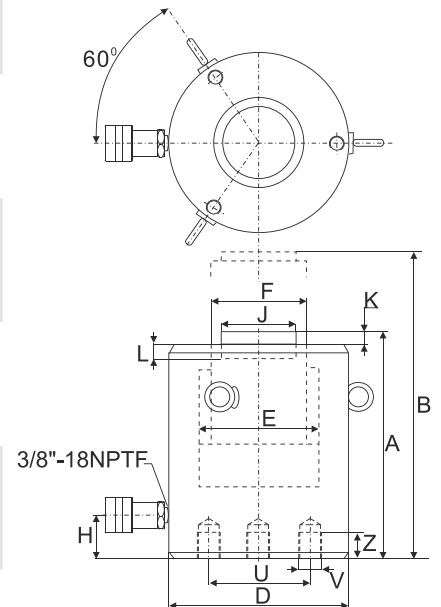
\* Capacity above 1,000 tons cylinders are equipped with tilt saddle. If you want to opt fixed grooved saddle please contact us order DXKLRG-1000.

Model Number	Cylinder Capacity	Stroke (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diam. D (mm)	Bore Diam. E (mm)	Plunger Diam. F (mm)	Base to Adv. Port H (mm)
	ton (kN)									
<b>DLSG-502</b>	50 (539)	50	77.0	385	162	212	130	98.6	70.0	42
<b>DLSG-504</b>		100	77.0	770	212	312	130	98.6	70.0	42
<b>DLSG-506</b>		150	77.0	1155	262	412	130	98.6	70.0	42
<b>DLSG-508</b>		200	77.0	1540	312	512	130	98.6	70.0	42
<b>DLSG-5010</b>		250	77.0	1924	362	612	130	98.6	70.0	42
<b>DLSG-5012</b>		300	77.0	2309	412	712	130	98.6	70.0	42
<b>DLSG-1002</b>	100 (929)	50	132.7	664	182	232	165	130.0	95.0	54
<b>DLSG-1004</b>		100	132.7	1327	232	332	165	130.0	95.0	54
<b>DLSG-1006</b>		150	132.7	1991	282	432	165	130.0	95.0	54
<b>DLSG-1008</b>		200	132.7	2655	332	532	165	130.0	95.0	54
<b>DLSG-10010</b>		250	132.7	3318	382	632	165	130.0	95.0	54
<b>DLSG-10012</b>		300	132.7	3982	432	732	165	130.0	95.0	54
<b>DLSG-1502</b>	150 (1390)	50	198.6	993	196	246	205	159.0	114.0	61
<b>DLSG-1504</b>		100	198.6	1986	246	346	205	159.0	114.0	61
<b>DLSG-1506</b>		150	198.6	2978	296	446	205	159.0	114.0	61
<b>DLSG-1508</b>		200	198.6	3971	346	546	205	159.0	114.0	61
<b>DLSG-15010</b>		250	198.6	4964	396	646	205	159.0	114.0	61
<b>DLSG-15012</b>		300	198.6	5957	446	746	205	159.0	114.0	61
<b>DLSG-2002</b>	200 (1861)	50	265.9	1330	216	266	235	184.0	133.0	67
<b>DLSG-2006</b>		150	265.9	3989	316	466	235	184.0	133.0	67
<b>DLSG-20012</b>		300	265.9	7977	466	766	235	184.0	133.0	67
<b>DLSG-2502</b>	250 (2565)	50	366.4	1832	235	285	275	216.0	165.0	73
<b>DLSG-2506</b>		150	366.4	5497	335	485	275	216.0	165.0	73
<b>DLSG-25012</b>		300	366.4	10993	485	785	275	216.0	165.0	73
<b>DLSG-3002</b>	300 (3193)	50	456.2	2281	312	362	310	241.0	197.0	101
<b>DLSG-3006</b>		150	456.2	6843	412	562	310	241.0	197.0	101
<b>DLSG-30012</b>		300	456.2	13685	562	862	310	241.0	197.0	101
<b>DLSG-4002</b>	400 (3919)	50	559.9	2800	375	425	350	267.0	216.0	114
<b>DLSG-4006</b>		150	559.9	8399	475	625	350	267.0	216.0	114
<b>DLSG-40012</b>		300	559.9	16797	625	925	350	267.0	216.0	114
<b>DLSG-5002</b>	500 (5114)	50	730.6	3653	419	469	400	305.0	248.0	114
<b>DLSG-5006</b>		150	730.6	10959	519	669	400	305.0	248.0	114
<b>DLSG-50012</b>		300	730.6	21918	669	969	400	305.0	248.0	114
<b>DLSG-6002</b>	600 (5987)	50	855.3	4276	429	479	430	330.0	267.0	114
<b>DLSG-6006</b>		150	855.3	12829	529	679	430	330.0	267.0	114
<b>DLSG-60012</b>		300	855.3	25659	679	979	430	330.0	267.0	114
<b>DLSG-8002</b>	800 (8234)	50	1176.3	5881	474	524	505	387.0	317.0	149
<b>DLSG-8006</b>		150	1176.3	17644	574	724	505	387.0	317.0	149
<b>DLSG-80012</b>		300	1176.3	35288	724	1024	505	387.0	317.0	149
<b>DLSG-10002</b>	1000 (10260)	50	1465.7	7329	564	614	560	432.0	343.0	174
<b>DLSG-10006</b>		150	1465.7	21986	664	814	560	432.0	343.0	174
<b>DLSG-100012</b>		300	1465.7	43972	814	1114	560	432.0	343.0	174

Standard Saddle Diam.	Saddle Protrusion from Plngr.	Depth of Plunger Hole	Base Mounting Holes			Weight (kg)	Model Number
			Bolt Cir. Diam.	Thread	Thread Depth		
J (mm)	K (mm)	L (mm)	U (mm)	V (mm)	Z (mm)		
50	1	19	65	2xM12	22	17	<b>DLSG-502</b>
50	1	19	65	2xM12	22	20	<b>DLSG-504</b>
50	1	19	65	2xM12	22	23	<b>DLSG-506</b>
50	1	19	65	2xM12	22	27	<b>DLSG-508</b>
50	1	19	65	2xM12	22	31	<b>DLSG-5010</b>
50	1	19	65	2xM12	22	34	<b>DLSG-5012</b>
75	1	19	95	2xM12	22	19	<b>DLSG-1002</b>
75	1	19	95	2xM12	22	29	<b>DLSG-1004</b>
75	1	19	95	2xM12	22	40	<b>DLSG-1006</b>
75	1	19	95	2xM12	22	50	<b>DLSG-1008</b>
75	1	19	95	2xM12	22	61	<b>DLSG-10010</b>
75	1	19	95	2xM12	22	71	<b>DLSG-10012</b>
94	1	19	130	2xM12	22	39	<b>DLSG-1502</b>
94	1	19	130	2xM12	22	52	<b>DLSG-1504</b>
94	1	19	130	2xM12	22	65	<b>DLSG-1506</b>
94	1	19	130	2xM12	22	78	<b>DLSG-1508</b>
94	1	19	130	2xM12	22	92	<b>DLSG-15010</b>
94	1	19	130	2xM12	22	105	<b>DLSG-15012</b>
113	1	24	165	4xM12	22	68	<b>DLSG-2002</b>
113	1	24	165	4xM12	22	91	<b>DLSG-2006</b>
113	1	24	165	4xM12	22	146	<b>DLSG-20012</b>
145	1	24	190	3xM12	22	102	<b>DLSG-2502</b>
145	1	24	190	3xM12	22	136	<b>DLSG-2506</b>
145	1	24	190	3xM12	22	207	<b>DLSG-25012</b>
177	1	19	180	3xM16	36	184	<b>DLSG-3002</b>
177	1	19	180	3xM16	36	232	<b>DLSG-3006</b>
177	1	19	180	3xM16	36	303	<b>DLSG-30012</b>
196	3	27	205	3xM16	36	270	<b>DLSG-4002</b>
196	3	27	205	3xM16	36	330	<b>DLSG-4006</b>
196	3	27	205	3xM16	36	421	<b>DLSG-40012</b>
228	3	27	250	3xM24	38	401	<b>DLSG-5002</b>
228	3	27	250	3xM24	38	480	<b>DLSG-5006</b>
228	3	27	250	3xM24	38	599	<b>DLSG-50012</b>
247	3	27	275	3xM24	38	474	<b>DLSG-6002</b>
247	3	27	275	3xM24	38	565	<b>DLSG-6006</b>
247	3	27	275	3xM24	38	701	<b>DLSG-60012</b>
297	3	27	330	3xM24	38	741	<b>DLSG-8002</b>
297	3	27	330	3xM24	38	880	<b>DLSG-8006</b>
297	3	27	330	3xM24	38	1058	<b>DLSG-80012</b>
323	3	27	375	3xM24	38	1062	<b>DLSG-10002</b>
323	3	27	375	3xM24	38	1213	<b>DLSG-10006</b>
323	3	27	375	3xM24	38	1439	<b>DLSG-100012</b>



DLSG-50 to DLSG-150 models

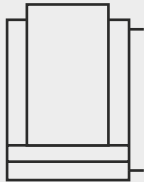


DLSG-200 to DLSG-1000 models

## DLRG SERIES

### Double-Acting, High Tonnage Cylinders

- Double-Acting hydraulic cylinders for push and pull.
- Built-in safety valves for prevention of over-pressurize.
- Optional swivel cap to provide up to 5 degrees of concentrated load centering.
- Base mounting holes standard on all models.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Hardened grooved saddles are included and interchangeable.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



#### Double-Acting

High Tonnage Cylinder  
Hydraulic return

Capacity	50-1,600 ton
Stroke	50-300 mm
Maximum Operating Pressure	700 bar

#### 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 1,000 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.



DLRG-1006



DLRG-6006



#### Feature

- DLRG-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1,000 tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.



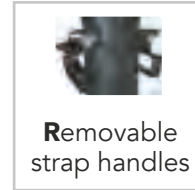
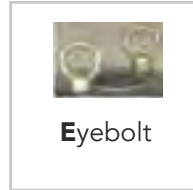
#### Use in combination with our hydraulic pumps and accessories

Basic system set-up include cylinder, male/female coupler, hose, pressure gauge, gauge accessories and pump.

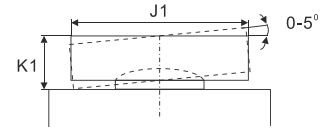
Please contact DURAJACK office nearest to you for advice and technical assistance in the layout of your ideal.

### Handle Type

(S) - Standard equipped  
(C) - Customer order



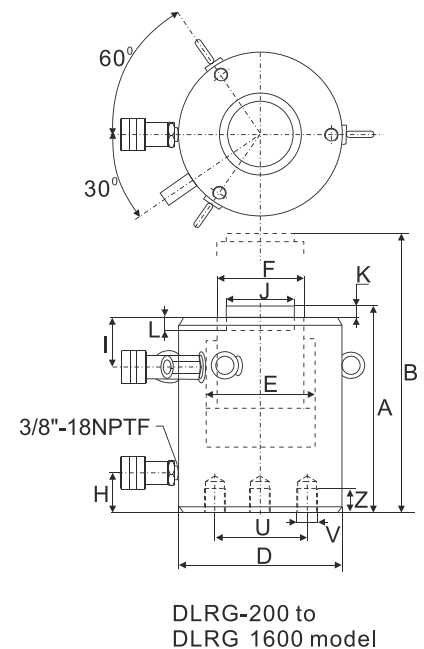
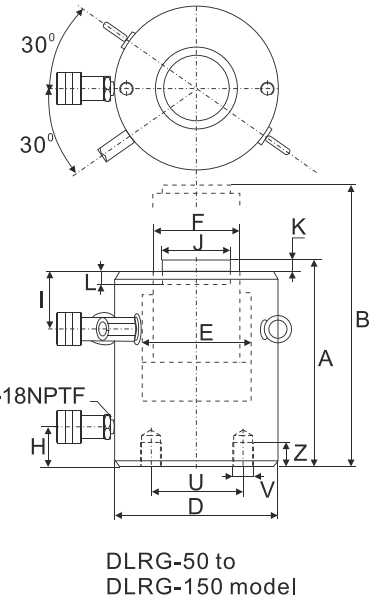
Handle type	Model Number	Cylinder Capacity	Stroke	Max. Cyl. Cap.		Coll. Height	Weight	Optional Tilt Saddle		
				Push	Pull			Model Number	Diam.	Ht.
				(kN)						
(S)		ton (kN)	(mm)			A (mm)	(kg)			
E	<b>DLRG-502</b>	50 (539)	50	539	269	162	17	<b>DXKCATG-50</b>	50	24
E	<b>DLRG-504</b>		100	539	269	212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



\* Capacity above 1,000 tons cylinders are equipped with tilt saddle. If you want to opt fixed grooved saddle please contact us order DXKLRG-1000.

Model Number	Cylinder Cap.	Stroke (mm)	Max. Cylinder Cap.		Cylinder Effective Area		Oil Capacity		Coll. Height A (mm)	Ext. Height B (mm)	Out. Diam. D (mm)	Cyl. Bore Diam. E (mm)	Plngr. Diam. F (mm)	Base to Adv. Port H (mm)
			Push	Pull	Push	Pull	Push	Pull						
	(kN)		(cm <sup>2</sup> )		(cm <sup>3</sup> )									
<b>DLRG-502</b>	50 (539)	50	539	269	76.2	37.7	385	192	162	212	130	98.6	70.0	42
<b>DLRG-504</b>		100	539	269	76.2	37.7	770	385	212	312	130	98.6	70.0	42
<b>DLRG-506</b>		150	539	269	76.2	37.7	1155	577	262	412	130	98.6	70.0	42
<b>DLRG-508</b>		200	539	269	76.2	37.7	1540	770	312	512	130	98.6	70.0	42
<b>DLRG-5010</b>		250	539	269	76.2	37.7	1924	962	362	612	130	98.6	70.0	42
<b>DLRG-5012</b>		300	539	269	76.2	37.7	2309	1155	412	712	130	98.6	70.0	42
<b>DLRG-1002</b>	100 (929)	50	929	433	132.7	61.9	664	309	182	232	165	130.0	95.0	54
<b>DLRG-1004</b>		100	929	433	132.7	61.9	1327	619	232	332	165	130.0	95.0	54
<b>DLRG-1006</b>		150	929	433	132.7	61.9	1991	928	282	432	165	130.0	95.0	54
<b>DLRG-1008</b>		200	929	433	132.7	61.9	2655	1237	332	532	165	130.0	95.0	54
<b>DLRG-10010</b>		250	929	433	132.7	61.9	3318	1546	382	632	165	130.0	95.0	54
<b>DLRG-10012</b>		300	929	433	132.7	61.9	3982	1856	432	732	165	130.0	95.0	54
<b>DLRG-1502</b>	150 (1390)	50	1390	675	198.6	96.5	993	482	196	246	205	159.0	114.0	61
<b>DLRG-1504</b>		100	1390	675	198.6	96.5	1986	965	246	346	205	159.0	114.0	61
<b>DLRG-1506</b>		150	1390	675	198.6	96.5	2978	1447	296	446	205	159.0	114.0	61
<b>DLRG-1508</b>		200	1390	675	198.6	96.5	3971	1930	346	546	205	159.0	114.0	61
<b>DLRG-15010</b>		250	1390	675	198.6	96.5	4964	2412	396	646	205	159.0	114.0	61
<b>DLRG-15012</b>		300	1390	675	198.6	96.5	5957	2895	446	746	205	159.0	114.0	61
<b>DLRG-2002</b>	200 (1861)	50	1861	889	265.9	127.0	1330	635	216	266	235	184.0	133.1	67
<b>DLRG-2006</b>		150	1861	889	265.9	127.0	3989	1905	316	466	235	184.0	133.1	67
<b>DLRG-20012</b>		300	1861	889	265.9	127.0	7977	3809	466	766	235	184.0	133.1	67
<b>DLRG-2502</b>	250 (2565)	50	2565	1068	366.4	152.6	1832	763	235	285	275	216.0	165.1	73
<b>DLRG-2506</b>		150	2565	1068	366.4	152.6	5497	2289	335	485	275	216.0	165.1	73
<b>DLRG-25012</b>		300	2565	1068	366.4	152.6	10993	4578	485	785	275	216.0	165.1	73
<b>DLRG-3002</b>	300 (3193)	50	3193	1060	456.2	151.4	2281	757	312	362	310	241.0	197.1	101
<b>DLRG-3006</b>		150	3193	1060	456.2	151.4	6843	2270	412	562	310	241.0	197.1	101
<b>DLRG-30012</b>		300	3193	1060	456.2	151.4	13685	4541	562	862	310	241.0	197.1	101
<b>DLRG-4002</b>	400 (3919)	50	3919	1354	559.9	193.5	2800	967	375	425	350	267.0	216.0	114
<b>DLRG-4006</b>		150	3919	1354	559.9	193.5	8399	2902	475	625	350	267.0	216.0	114
<b>DLRG-40012</b>		300	3919	1354	559.9	193.5	16797	5804	625	925	350	267.0	216.0	114
<b>DLRG-5002</b>	500 (5114)	50	5114	1733	730.6	247.6	3653	1238	419	469	400	305.0	248.0	114
<b>DLRG-5006</b>		150	5114	1733	730.6	247.6	10959	3713	519	669	400	305.0	248.0	114
<b>DLRG-50012</b>		300	5114	1733	730.6	247.6	21918	7427	669	969	400	305.0	248.0	114
<b>DLRG-6002</b>	600 (5987)	50	5987	2068	855.3	295.4	4276	1477	429	479	430	330.0	267.0	114
<b>DLRG-6006</b>		150	5987	2068	855.3	295.4	12829	4431	529	679	430	330.0	267.0	114
<b>DLRG-60012</b>		300	5987	2068	855.3	295.4	25659	8862	679	979	430	330.0	267.0	114
<b>DLRG-8002</b>	800 (8234)	50	8234	2709	1176.3	387.0	5881	1935	474	524	505	387.0	317.0	149
<b>DLRG-8006</b>		150	8234	2709	1176.3	387.0	17644	5806	574	724	505	387.0	317.0	149
<b>DLRG-80012</b>		300	8234	2709	1176.3	387.0	35288	11611	724	1024	505	387.0	317.0	149
<b>DLRG-10002</b>	1000 (10260)	50	10260	3792	1465.7	541.7	7329	2709	564	614	560	432.0	343.0	174
<b>DLRG-10006</b>		150	10260	3792	1465.7	541.7	21986	8126	664	814	560	432.0	343.0	174
<b>DLRG-100012</b>		300	10260	3792	1465.7	541.7	43972	16252	814	1114	560	432.0	343.0	174
<b>DLRG-16006</b>	1600 (16024)	155	16024	4891	2289.1	699.3	35495	10845	825	980	710	540.0	450.0	205

Top to Retract Port	Standard Saddle Diam.	Saddle Protrusion from Plngr.	Depth of Plunger Hole	Base Mounting Holes			Weight (kg)	Model Number
				Bolt Cir. Diam.	Thread	Thread Depth		
I (mm)	J (mm)	K (mm)	L (mm)	U (mm)	V (mm)	Z (mm)		
33	50	1	19	65	2xM12	22	17	<b>DLRG-502</b>
33	50	1	19	65	2xM12	22	20	<b>DLRG-504</b>
33	50	1	19	65	2xM12	22	23	<b>DLRG-506</b>
33	50	1	19	65	2xM12	22	27	<b>DLRG-508</b>
33	50	1	19	65	2xM12	22	31	<b>DLRG-5010</b>
33	50	1	19	65	2xM12	22	34	<b>DLRG-5012</b>
48	75	1	19	95	2xM12	22	29	<b>DLRG-1002</b>
48	75	1	19	95	2xM12	22	34	<b>DLRG-1004</b>
48	75	1	19	95	2xM12	22	40	<b>DLRG-1006</b>
48	75	1	19	95	2xM12	22	46	<b>DLRG-1008</b>
48	75	1	19	95	2xM12	22	52	<b>DLRG-10010</b>
48	75	1	19	95	2xM12	22	65	<b>DLRG-10012</b>
56	94	1	19	130	2xM12	22	39	<b>DLRG-1502</b>
56	94	1	19	130	2xM12	22	52	<b>DLRG-1504</b>
56	94	1	19	130	2xM12	22	65	<b>DLRG-1506</b>
56	94	1	19	130	2xM12	22	78	<b>DLRG-1508</b>
56	94	1	19	130	2xM12	22	92	<b>DLRG-15010</b>
56	94	1	19	130	2xM12	22	105	<b>DLRG-15012</b>
56	113	1	24	165	4xM12	22	55	<b>DLRG-2002</b>
56	113	1	24	165	4xM12	22	91	<b>DLRG-2006</b>
56	113	1	24	165	4xM12	22	146	<b>DLRG-20012</b>
78	145	1	24	190	3xM12	22	102	<b>DLRG-2502</b>
78	145	1	24	190	3xM12	22	136	<b>DLRG-2506</b>
78	145	1	24	190	3xM12	22	207	<b>DLRG-25012</b>
75	177	1	19	180	3xM16	36	184	<b>DLRG-3002</b>
75	177	1	19	180	3xM16	36	232	<b>DLRG-3006</b>
75	177	1	19	180	3xM16	36	303	<b>DLRG-30012</b>
105	196	3	27	205	3xM16	36	270	<b>DLRG-4002</b>
105	196	3	27	205	3xM16	36	330	<b>DLRG-4006</b>
105	196	3	27	205	3xM16	36	421	<b>DLRG-40012</b>
135	228	3	27	250	3xM24	38	401	<b>DLRG-5002</b>
135	228	3	27	250	3xM24	38	480	<b>DLRG-5006</b>
135	228	3	27	250	3xM24	38	599	<b>DLRG-50012</b>
135	247	3	27	275	3xM24	38	474	<b>DLRG-6002</b>
135	247	3	27	275	3xM24	38	565	<b>DLRG-6006</b>
135	247	3	27	275	3xM24	38	701	<b>DLRG-60012</b>
135	297	3	27	330	3xM24	38	741	<b>DLRG-8002</b>
135	297	3	27	330	3xM24	38	868	<b>DLRG-8006</b>
135	297	3	27	330	3xM24	38	1058	<b>DLRG-80012</b>
170	323	3	27	375	3xM24	38	1062	<b>DLRG-10002</b>
170	323	3	27	375	3xM24	38	1213	<b>DLRG-10006</b>
170	323	3	27	375	3xM24	38	1439	<b>DLRG-100012</b>
170	—	—	—	400	3xM24	30	2179	<b>DLRG-16006</b>



## DLL SERIES

### Single-Acting, High Tonnage, Lock Nut Cylinders

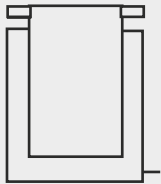
- Supports lifted load through safety lock nut features for extended period of time.
- Single-Acting, load return hydraulic cylinders up till 1000 tonnage.
- Hard chrome plated piston rod and inner cylinder barrel resists wear and corrosion.
- Hardened grooved saddles are included and interchangeable.
- Overflow port (also known as "weep hole") prevents piston from overextended with its stroke limiter functions.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



**DLL-504**



**DLL-1006**



#### Single-Acting

High Tonnage Lock Nut Cylinder  
Load return

Capacity	50-1,000 ton
Stroke	50-300 mm
Maximum Operating Pressure	700 bar



#### Feature

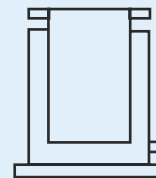
- DLL-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1,000 tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.

#### Cylinder Capacity

- More above 1,000 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.

#### Optional Features

##### DLLR



DLL series cylinder can be designed in Double-acting.

**Double-acting: DLLR**



To add optional features to your cylinder, add the follow suffixes to the end of the model number.

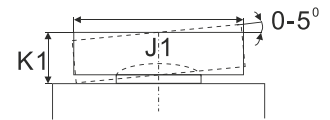
**Spring return: XF**

#### Example:

DLL-502 with spring return, order: DLL-502XF Technical specifications for these features are available from DURAJACK.

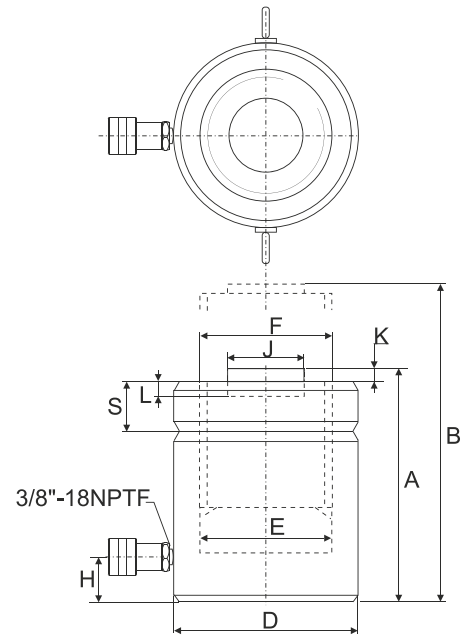
**Handle Type**(S) - Standard equipped  
(C) - Customer order**Weldable****Eyebolt****Removable  
strap handles****Thread**

Handle type	Model Number	Cylinder Capacity	Stroke	Effective Area	Coll. Height	Weight	Optional Tilt Saddle		
							Model Number	Diam.	Ht.
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1 (mm)	K1 (mm)	
E	DLL-502	50 (496)	50	70.9	164	15	DXKCAT-100	71	24
E	DLL-504		100	70.9	214	20	DXKCAT-100	71	24
E	DLL-506		150	70.9	264	25	DXKCAT-100	71	24
E	DLL-508		200	70.9	314	30	DXKCAT-100	71	24
E	DLL-5010		250	70.9	364	35	DXKCAT-100	71	24
E	DLL-5012		300	70.9	414	40	DXKCAT-100	71	24
E	DLL-1002	100 (929)	50	132.7	187	30	DXKCAT-100	71	24
E	DLL-1004		100	132.7	237	39	DXKCAT-100	71	24
E	DLL-1006		150	132.7	287	48	DXKCAT-100	71	24
E	DLL-1008		200	132.7	337	56	DXKCAT-100	71	24
E	DLL-10010		250	132.7	387	64	DXKCAT-100	71	24
E	DLL-10012		300	132.7	437	73	DXKCAT-100	71	24
E	DLL-1502	150 (1390)	50	198.6	209	53	DXKCAT-200	130	20
E	DLL-1504		100	198.6	259	66	DXKCAT-200	130	20
E	DLL-1506		150	198.6	309	78	DXKCAT-200	130	20
E	DLL-1508		200	198.6	359	92	DXKCAT-200	130	20
E	DLL-15010		250	198.6	409	104	DXKCAT-200	130	20
E	DLL-15012		300	198.6	459	117	DXKCAT-200	130	20
E	DLL-2002	200 (1859)	50	265.6	243	83	DXKCAT-200	130	20
E	DLL-2006		150	265.6	343	117	DXKCAT-200	130	20
E	DLL-20012		300	265.6	493	170	DXKCAT-200	130	20
E	DLL-2502	250 (2562)	50	366.1	249	116	DXKCAT-250	150	21
E	DLL-2506		150	366.1	349	162	DXKCAT-250	150	21
E	DLL-25012		300	366.1	499	234	DXKCAT-250	150	21
E	DLL-3002	300 (3193)	50	456.2	295	173	DXKCAT-300	195	75
E	DLL-3006		150	456.2	395	233	DXKCAT-300	195	75
E	DLL-30012		300	456.2	545	323	DXKCAT-300	195	75
E	DLL-4002	400 (3919)	50	559.9	335	250	DXKCAT-400	225	85
E	DLL-4006		150	559.9	435	327	DXKCAT-400	225	85
E	DLL-40012		300	559.9	585	441	DXKCAT-400	225	85
E	DLL-5002	500 (5118)	50	731.1	375	367	DXKCAT-500	250	91
E	DLL-5006		150	731.1	475	466	DXKCAT-500	250	91
E	DLL-50012		300	731.1	625	617	DXKCAT-500	250	91
E	DLL-6002	600 (5983)	50	854.8	395	446	DXKCAT-600	275	96
E	DLL-6006		150	854.8	495	562	DXKCAT-600	275	96
E	DLL-60012		300	854.8	645	737	DXKCAT-600	275	96
E	DLL-8002	800 (8238)	50	1176.9	455	709	DXKCAT-800	320	123
E	DLL-8006		150	1176.9	555	870	DXKCAT-800	320	123
E	DLL-80012		300	1176.9	705	1110	DXKCAT-800	320	123
E	DLL-10002	1000 (10260)	50	1466.4	495	949	DXKCAT-1000	360	136
E	DLL-10006		150	1466.4	595	1141	DXKCAT-1000	360	136
E	DLL-100012		300	1466.4	745	1430	DXKCAT-1000	360	136

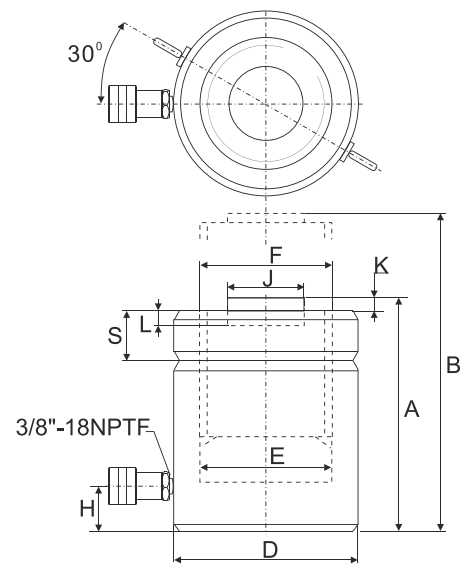


Model Number	Cylinder Cap.	Stroke (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diam. D (mm)	Bore Diam. E (mm)	Plunger Diam. (threaded) F (mm)
	ton (kN)								
<b>DLL-502</b>	50 (496)	50	70.9	355	164	214	125	95.0	Tr95x4
<b>DLL-504</b>		100	70.9	709	214	314	125	95.0	Tr95x4
<b>DLL-506</b>		150	70.9	1064	264	414	125	95.0	Tr95x4
<b>DLL-508</b>		200	70.9	1418	314	514	125	95.0	Tr95x4
<b>DLL-5010</b>		250	70.9	1773	364	614	125	95.0	Tr95x4
<b>DLL-5012</b>		300	70.9	2127	414	714	125	95.0	Tr95x4
<b>DLL-1002</b>	100 (929)	50	132.7	664	187	237	165	130.0	Tr130x6
<b>DLL-1004</b>		100	132.7	1327	237	337	165	130.0	Tr130x6
<b>DLL-1006</b>		150	132.7	1991	287	437	165	130.0	Tr130x6
<b>DLL-1008</b>		200	132.7	2654	337	537	165	130.0	Tr130x6
<b>DLL-10010</b>		250	132.7	3318	387	637	165	130.0	Tr130x6
<b>DLL-10012</b>		300	132.7	3981	437	737	165	130.0	Tr130x6
<b>DLL-1502</b>	150 (1390)	50	198.6	993	209	259	205	159.0	Tr159x6
<b>DLL-1504</b>		100	198.6	1986	259	359	205	159.0	Tr159x6
<b>DLL-1506</b>		150	198.6	2979	309	459	205	159.0	Tr159x6
<b>DLL-1508</b>		200	198.6	3972	359	559	205	159.0	Tr159x6
<b>DLL-15010</b>		250	198.6	4965	409	659	205	159.0	Tr159x6
<b>DLL-15012</b>		300	198.6	5958	459	759	205	159.0	Tr159x6
<b>DLL-2002</b>	200 (1859)	50	265.6	1330	243	293	235	184.0	Tr184x6
<b>DLL-2006</b>		150	265.6	3989	343	493	235	184.0	Tr184x6
<b>DLL-20012</b>		300	265.6	7995	493	793	235	184.0	Tr184x6
<b>DLL-2502</b>	250 (2562)	50	366.1	1832	249	299	275	216.0	Tr216x6
<b>DLL-2506</b>		150	366.1	5496	349	499	275	216.0	Tr216x6
<b>DLL-25012</b>		300	366.1	10976	499	799	275	216.0	Tr216x6
<b>DLL-3002</b>	300 (3193)	50	456.2	2281	295	345	310	241.0	Tr241x6
<b>DLL-3006</b>		150	456.2	6843	395	545	310	241.0	Tr241x6
<b>DLL-30012</b>		300	456.2	13740	545	845	310	241.0	Tr241x6
<b>DLL-4002</b>	400 (3919)	50	559.9	2800	335	385	350	267.0	Tr266x6
<b>DLL-4006</b>		150	559.9	8399	435	585	350	267.0	Tr266x6
<b>DLL-40012</b>		300	559.9	16800	585	885	350	267.0	Tr266x6
<b>DLL-5002</b>	500 (5118)	50	731.1	3653	375	425	400	305.0	Tr305x6
<b>DLL-5006</b>		150	731.1	10967	475	625	400	305.0	Tr305x6
<b>DLL-50012</b>		300	731.1	21930	625	925	400	305.0	Tr305x6
<b>DLL-6002</b>	600 (5983)	50	854.8	4277	395	445	430	330.0	Tr330x6
<b>DLL-6006</b>		150	854.8	12830	495	645	430	330.0	Tr330x6
<b>DLL-60012</b>		300	854.8	25650	645	945	430	330.0	Tr330x6
<b>DLL-8002</b>	800 (8238)	50	1176.9	5882	455	505	505	387.0	Tr387x6
<b>DLL-8006</b>		150	1176.9	17645	555	705	505	387.0	Tr387x6
<b>DLL-80012</b>		300	1176.9	35370	705	1005	505	387.0	Tr387x6
<b>DLL-10002</b>	1000 (10260)	50	1466.4	7329	495	545	560	432.0	Tr432x6
<b>DLL-10006</b>		150	1466.4	21986	595	745	560	432.0	Tr432x6
<b>DLL-100012</b>		300	1466.4	43980	745	1045	560	432.0	Tr432x6

Base to Adv. Port H (mm)	Standard Saddle Diam. J (mm)	Saddle Protrusion from Plngr. K (mm)	Depth of Plunger Hole L (mm)	Lock Nut Height S (mm)	Weight (kg)	Model Number
30	71	2	15	36	15	DLL-502
30	71	2	15	36	20	DLL-504
30	71	2	15	36	25	DLL-506
30	71	2	15	36	30	DLL-508
30	71	2	15	36	35	DLL-5010
30	71	2	15	36	40	DLL-5012
30	71	2	15	44	30	DLL-1002
30	71	2	15	44	39	DLL-1004
30	71	2	15	44	48	DLL-1006
30	71	2	15	44	56	DLL-1008
30	71	2	15	44	64	DLL-10010
30	71	2	15	44	73	DLL-10012
39	130	2	25	44	53	DLL-1502
39	130	2	25	44	66	DLL-1504
39	130	2	25	44	78	DLL-1506
39	130	2	25	44	92	DLL-1508
39	130	2	25	44	104	DLL-15010
39	130	2	25	44	117	DLL-15012
50	130	2	25	50	83	DLL-2002
50	130	2	25	50	117	DLL-2006
50	130	2	25	50	170	DLL-20012
50	150	2	25	56	116	DLL-2502
50	150	2	25	56	162	DLL-2506
50	150	2	25	56	234	DLL-25012
59	139	5	25	60	173	DLL-3002
59	139	5	25	60	233	DLL-3006
59	139	5	25	60	323	DLL-30012
70	159	5	25	70	250	DLL-4002
70	159	5	25	70	327	DLL-4006
70	159	5	25	70	441	DLL-40012
80	179	5	25	80	367	DLL-5002
80	179	5	25	80	466	DLL-5006
80	179	5	25	80	617	DLL-50012
85	194	5	25	85	446	DLL-6002
85	194	5	25	85	562	DLL-6006
85	194	5	25	85	737	DLL-60012
100	224	5	25	100	709	DLL-8002
100	224	5	25	100	870	DLL-8006
100	224	5	25	100	1110	DLL-80012
110	249	5	25	110	949	DLL-10002
110	249	5	25	110	1141	DLL-10006
110	249	5	25	110	1430	DLL-100012



DLL-50 to DLL-250 models



DLL-300 to DLL-1000 models

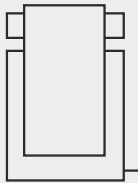
## DLP SERIES

### Single-Acting, Pancake Lock Nut Cylinders

- Pancake flat design for usage within confined areas.
- Supports lifted load through safety lock nut features for extended period of time.
- Optional swivel cap to provide up to 5 degrees of concentrated load centering.
- Overflow port (also known as "weep hole") prevents piston from overextended with its stroke limiter functions.
- Powder-coated nitride finishing for increased corrosion resistance and antirust features.
- 3/8" NPTF female coupler and dust cap included for all models.



**DLP-602**



#### Single-Acting

Pancake Lock Nut Cylinder  
Load return

Capacity	<b>60-520 ton</b>
Stroke	<b>45-50 mm</b>
Maximum Operating Pressure	<b>700 bar</b>



**DLP-1002**

#### Handle Type

(S) - Standard equipped  
(C) - Customer order



**Weldable**



**Eyebolt**

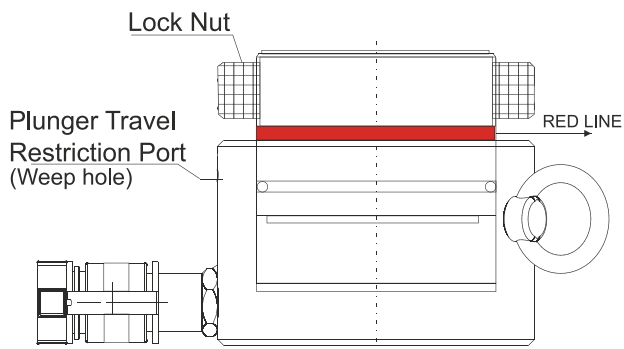


**Removable  
strap  
handles**

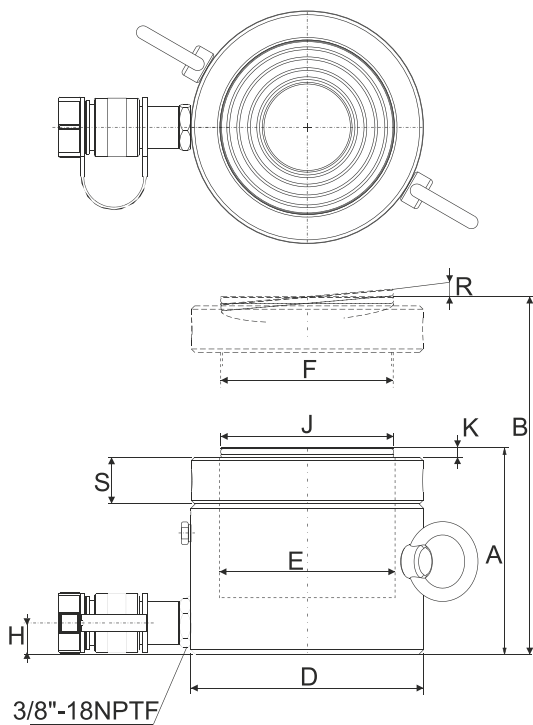


**Thread**

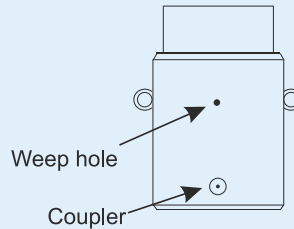
Handle type	Model Number	Cylinder Capacity	Stroke	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	(cm <sup>3</sup> )	A (mm)	B (mm)	D (mm)
E	<b>DLP-602</b>	60 (606)	50	86.6	432	125	175	140
E	<b>DLP-1002</b>	100 (1027)	50	146.8	734	137	187	175
E	<b>DLP-1602</b>	160 (1619)	45	231.3	1040	148	193	220
E	<b>DLP-2002</b>	200 (1999)	45	285.6	1285	155	200	245
E	<b>DLP-2502</b>	260 (2567)	45	366.8	1650	159	204	275
E	<b>DLP-4002</b>	400 (3916)	45	559.5	2517	178	223	350
E	<b>DLP-5002</b>	520 (5114)	45	730.6	3287	192	237	400



Plunger show at maximum extension



**WARNING**



**Apply to Single-acting, High tonnage cylinder DLP, DLL and DLS series**

When stroke limit is reached; overflow port ("weep hole") spurt oil to prevents piston from being overextended.



**Saddle**

All DLP-Series include integral tilt saddles with maximum tilt angles up to 5°.

Cyl. Bore Diameter	Plunger Diameter	Base to Advance Port	Saddle Diameter	Saddle Protrusion from Plngr.	Saddle Max. Tilt Angle	Lock Nut Height	Weight	Model Number
E (mm)	F (mm)	H (mm)	J (mm)	K (mm)	R	S (mm)	(kg)	
105.0	Tr104X4	19	96	6	5°	28	15	<b>DLP-602</b>
136.7	Tr136X6	21	126	8	5°	31	26	<b>DLP-1002</b>
171.6	Tr171X6	27	160	9	5°	40	44	<b>DLP-1602</b>
190.7	Tr190X6	30	180	10	5°	43	57	<b>DLP-2002</b>
216.1	Tr216X6	32	200	11	5°	44	74	<b>DLP-2502</b>
266.9	Tr266X6	39	250	11	4°	55	134	<b>DLP-4002</b>
305.0	Tr305X6	48	290	10	3°	62	189	<b>DLP-5002</b>

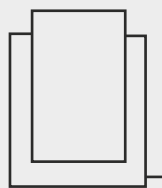
## DLS SERIES

### Single-Acting, High Tonnage Cylinders

- Lowest collapsed height for use in confined spaces.
- Interchangeable, hardened grooved saddles are standard.
- Single-acting, load return.
- Overflow port functions as a stroke limiter.
- Hard chrome plated plunger resists wear and corrosion.
- 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.



DLS-5006

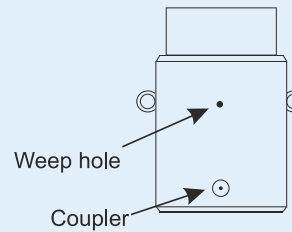


**Single-Acting**  
High Tonnage Cylinder  
Load return

Capacity	50-1,000 ton
Stroke	50-300 mm
Maximum Operating Pressure	700 bar



## WARNING



### Apply to Single-acting, High tonnage cylinder DLP, DLL and DLS series

When stroke limit is reached; overflow port ("weep hole") spurt oil to prevents piston from being overextended.

### Cylinder Capacity

- More above 1,000 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.

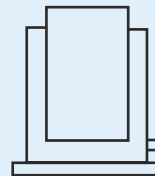


### Feature

- DLS-series are equipped with interchangeable, hardened grooved saddles. (Except capacity above 1,000 tons)
- DQC-3/8UF coupler and dust cap.
- Top and side mount lifting eye capability.

### Optional Features

#### DLSR



DLSR series cylinder can be designed in Double-acting.

**Double-acting: DLSR**

### Optional Spring



To add optional features to your cylinder, add the follow suffixes to the end of the model number.

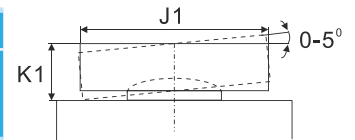
**Spring return: XF**

#### Example:

DLS-502 with spring return, order: DLS-502XF Technical specifications for these features are available from DURAJACK.

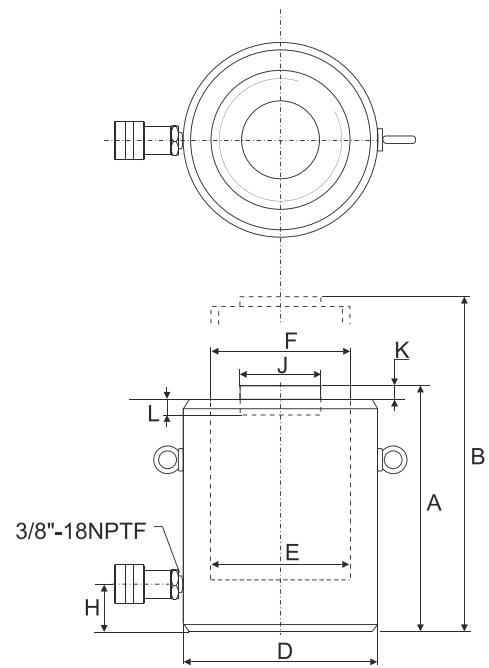
**Handle Type**(S) - Standard equipped  
(C) - Customer order**Weldable****Eyebolt****Removable  
strap handles****Thread**

Handle type	Model Number	Cylinder Capacity	Stroke	Effective Area	Coll. Height	Weight	Optional Tilt Saddle		
							Model Number	Diam.	Ht.
(S)		ton (kN)	(mm)	(cm <sup>2</sup> )	A (mm)	(kg)	J1 (mm)	J1 (mm)	K1 (mm)
E	DLS-502	50 (496)	50	70.9	128	14	DXKCAT-100	71	24
E	DLS-504		100	70.9	178	18	DXKCAT-100	71	24
E	DLS-506		150	70.9	228	23	DXKCAT-100	71	24
E	DLS-508		200	70.9	278	28	DXKCAT-100	71	24
E	DLS-5010		250	70.9	327	33	DXKCAT-100	71	24
E	DLS-5012		300	70.9	378	38	DXKCAT-100	71	24
E	DLS-1002	100 (929)	50	132.7	143	24	DXKCAT-100	71	24
E	DLS-1004		100	132.7	193	32	DXKCAT-100	71	24
E	DLS-1006		150	132.7	243	40	DXKCAT-100	71	24
E	DLS-1008		200	132.7	293	49	DXKCAT-100	71	24
E	DLS-10010		250	132.7	343	58	DXKCAT-100	71	24
E	DLS-10012		300	132.7	392	66	DXKCAT-100	71	24
E	DLS-1502	150 (1390)	50	198.6	165	43	DXKCAT-200	130	20
E	DLS-1504		100	198.6	215	55	DXKCAT-200	130	20
E	DLS-1506		150	198.6	265	66	DXKCAT-200	130	20
E	DLS-1508		200	198.6	315	82	DXKCAT-200	130	20
E	DLS-15010		250	198.6	365	95	DXKCAT-200	130	20
E	DLS-15012		300	198.6	414	108	DXKCAT-200	130	20
E	DLS-2002	200 (1859)	50	265.6	193	66	DXKCAT-200	130	20
E	DLS-2006		150	265.6	293	101	DXKCAT-200	130	20
E	DLS-20012		300	265.6	443	154	DXKCAT-200	130	20
E	DLS-2502	250 (2562)	50	366.1	193	90	DXKCAT-250	150	21
E	DLS-2506		150	366.1	293	137	DXKCAT-250	150	21
E	DLS-25012		300	366.1	443	208	DXKCAT-250	150	21
E	DLS-3002	300 (3193)	50	456.2	235	137	DXKCAT-300	195	75
E	DLS-3006		150	456.2	335	198	DXKCAT-300	195	75
E	DLS-30012		300	456.2	485	288	DXKCAT-300	195	75
E	DLS-4002	400 (3919)	50	559.9	265	200	DXKCAT-400	225	85
E	DLS-4006		150	559.9	365	275	DXKCAT-400	225	85
E	DLS-40012		300	559.9	515	390	DXKCAT-400	225	85
E	DLS-5002	500 (5118)	50	731.1	295	289	DXKCAT-500	250	91
E	DLS-5006		150	731.1	395	390	DXKCAT-500	250	91
E	DLS-50012		300	731.1	545	540	DXKCAT-500	250	91
E	DLS-6002	600 (5983)	50	854.8	310	350	DXKCAT-600	275	96
E	DLS-6006		150	854.8	410	465	DXKCAT-600	275	96
E	DLS-60012		300	854.8	560	640	DXKCAT-600	275	96
E	DLS-8002	800 (8238)	50	1176.9	355	549	DXKCAT-800	320	123
E	DLS-8006		150	1176.9	455	709	DXKCAT-800	320	123
E	DLS-80012		300	1176.9	605	950	DXKCAT-800	320	123
E	DLS-10002	1000 (10260)	50	1466.4	385	729	DXKCAT-1000	360	136
E	DLS-10006		150	1466.4	485	921	DXKCAT-1000	360	136
E	DLS-100012		300	1466.4	635	1210	DXKCAT-1000	360	136

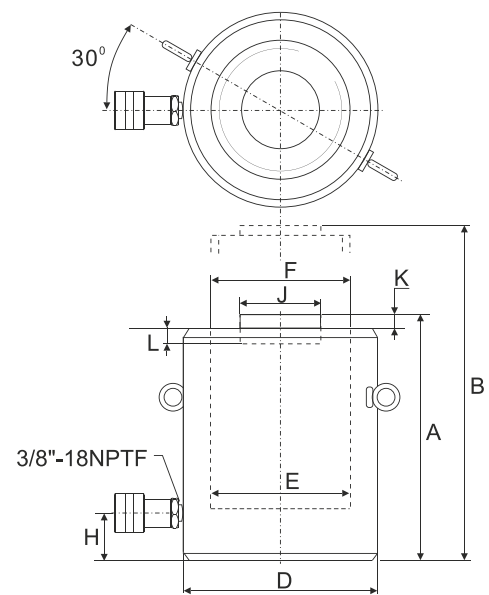


Model Number	Cylinder Cap.	Stroke (mm)	Effective Area (cm <sup>2</sup> )	Oil Capacity (cm <sup>3</sup> )	Collapsed Height A (mm)	Extended Height B (mm)	Outside Diam. D (mm)	Bore Diam. E (mm)	Plunger Diam. F (mm)
	ton (kN)								
DLS-502	50 (496)	50	70.9	355	128	178	125	95.0	95.0
DLS-504		100	70.9	709	178	278	125	95.0	95.0
DLS-506		150	70.9	1064	228	378	125	95.0	95.0
DLS-508		200	70.9	1418	278	478	125	95.0	95.0
DLS-5010		250	70.9	1773	327	578	125	95.0	95.0
DLS-5012		300	70.9	2127	378	678	125	95.0	95.0
DLS-1002	100 (929)	50	132.7	664	143	193	165	130.0	130.0
DLS-1004		100	132.7	1327	193	293	165	130.0	130.0
DLS-1006		150	132.7	1991	243	393	165	130.0	130.0
DLS-1008		200	132.7	2654	293	493	165	130.0	130.0
DLS-10010		250	132.7	3318	343	593	165	130.0	130.0
DLS-10012		300	132.7	3981	392	693	165	130.0	130.0
DLS-1502	150 (1390)	50	198.6	993	165	215	205	159.0	159.0
DLS-1504		100	198.6	1986	215	315	205	159.0	159.0
DLS-1506		150	198.6	2979	265	415	205	159.0	159.0
DLS-1508		200	198.6	3972	315	515	205	159.0	159.0
DLS-15010		250	198.6	4965	365	615	205	159.0	159.0
DLS-15012		300	198.6	5958	414	715	205	159.0	159.0
DLS-2002	200 (1859)	50	265.6	1330	193	243	235	183.9	183.9
DLS-2006		150	265.6	3989	293	443	235	183.9	183.9
DLS-20012		300	265.6	7977	443	743	235	183.9	183.9
DLS-2502	250 (2562)	50	366.1	1832	193	243	275	215.9	215.9
DLS-2506		150	366.1	5496	293	443	275	215.9	215.9
DLS-25012		300	366.1	10996	443	743	275	215.9	215.9
DLS-3002	300 (3193)	50	456.2	2281	235	285	310	241.0	241.0
DLS-3006		150	456.2	6843	335	485	310	241.0	241.0
DLS-30012		300	456.2	13740	485	785	310	241.0	241.0
DLS-4002	400 (3919)	50	559.9	2800	265	315	350	267.0	267.0
DLS-4006		150	559.9	8399	365	515	350	267.0	267.0
DLS-40012		300	559.9	16770	515	815	350	267.0	267.0
DLS-5002	500 (5118)	50	731.1	3656	295	345	400	305.1	305.1
DLS-5006		150	731.1	10967	395	545	400	305.1	305.1
DLS-50012		300	731.1	21900	545	845	400	305.1	305.1
DLS-6002	600 (5983)	50	854.8	4277	310	360	430	329.9	329.9
DLS-6006		150	854.8	12830	410	560	430	329.9	329.9
DLS-60012		300	854.8	25710	560	860	430	329.9	329.9
DLS-8002	800 (8238)	50	1176.9	5882	355	405	505	387.1	387.1
DLS-8006		150	1176.9	17645	455	605	505	387.1	387.1
DLS-80012		300	1176.9	35370	605	905	505	387.1	387.1
DLS-10002	1000 (10260)	50	1466.4	7329	385	435	560	432.1	432.1
DLS-10006		150	1466.4	21986	485	635	560	432.1	432.1
DLS-100012		300	1466.4	43950	635	935	560	432.1	432.1

Base to Adv. Port H (mm)	Standard Saddle Diam. J (mm)	Saddle Protrusion from Plngr. K (mm)	Depth of Plunger Hole L (mm)	Weight (kg)	Model Number
30	71	2	15	14	<b>DLS-502</b>
30	71	2	15	18	<b>DLS-504</b>
30	71	2	15	23	<b>DLS-506</b>
30	71	2	15	28	<b>DLS-508</b>
30	71	2	15	33	<b>DLS-5010</b>
30	71	2	15	38	<b>DLS-5012</b>
30	71	2	15	24	<b>DLS-1002</b>
30	71	2	15	32	<b>DLS-1004</b>
30	71	2	15	40	<b>DLS-1006</b>
30	71	2	15	49	<b>DLS-1008</b>
30	71	2	15	58	<b>DLS-10010</b>
30	71	2	15	66	<b>DLS-10012</b>
39	130	2	25	43	<b>DLS-1502</b>
39	130	2	25	55	<b>DLS-1504</b>
39	130	2	25	69	<b>DLS-1506</b>
39	130	2	25	82	<b>DLS-1508</b>
39	130	2	25	95	<b>DLS-15010</b>
39	130	2	25	108	<b>DLS-15012</b>
50	130	2	25	66	<b>DLS-2002</b>
50	130	2	25	101	<b>DLS-2006</b>
50	130	2	25	154	<b>DLS-20012</b>
50	150	2	25	90	<b>DLS-2502</b>
50	150	2	25	137	<b>DLS-2506</b>
50	150	2	25	208	<b>DLS-25012</b>
59	139	5	25	137	<b>DLS-3002</b>
59	139	5	25	198	<b>DLS-3006</b>
59	139	5	25	288	<b>DLS-30012</b>
70	159	5	25	200	<b>DLS-4002</b>
70	159	5	25	275	<b>DLS-4006</b>
70	159	5	25	390	<b>DLS-40012</b>
80	179	5	25	289	<b>DLS-5002</b>
80	179	5	25	390	<b>DLS-5006</b>
80	179	5	25	540	<b>DLS-50012</b>
85	194	5	25	350	<b>DLS-6002</b>
85	194	5	25	465	<b>DLS-6006</b>
85	194	5	25	640	<b>DLS-60012</b>
100	224	5	25	549	<b>DLS-8002</b>
100	224	5	25	709	<b>DLS-8006</b>
100	224	5	25	950	<b>DLS-80012</b>
110	249	5	25	729	<b>DLS-10002</b>
110	249	5	25	921	<b>DLS-10006</b>
110	249	5	25	1210	<b>DLS-100012</b>



DLS-502 to DLS-25012



DLS-3002 to DLS-100012

## DP, DHE/DHB SERIES

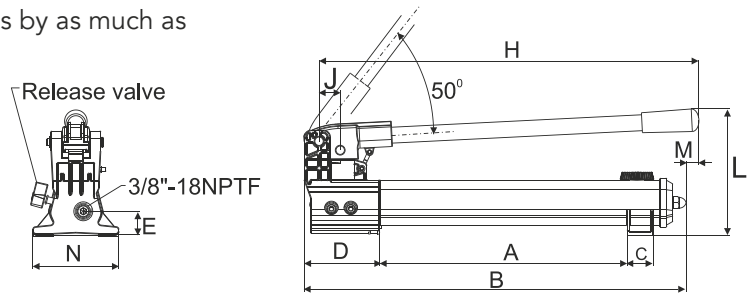
### DP-392

#### Light Weight, Two-Speed Hand Pump

- Internal pressure relief valve for overload protection.
- Durable glass-filled nylon reservoir and nylon encapsulated aluminium pump baser for maximum corrosion resistance.
- Two speed operation reduces handle strokes by as much as 78% over single speed pumps.
- Lower handle effort to minimize operator fatigue.
- Handle lock and lightweight construction for easy carrying.
- Non-conductive fiberglass handle for operator safety.



DP-392



DP-392

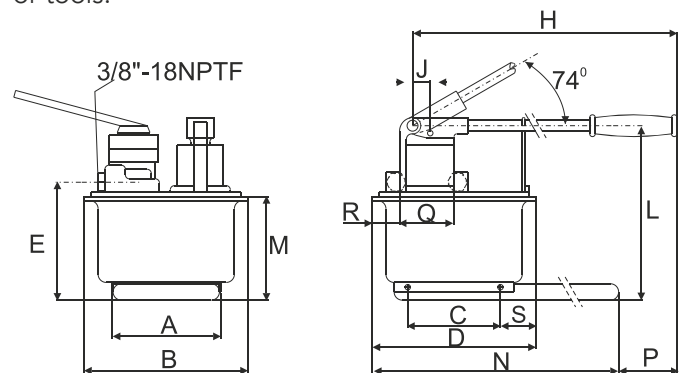
### DP-46

#### Steel, Two-Speed Hand Pump



DP-464

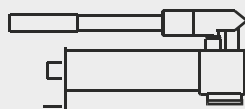
- Internal pressure relief valve for overload protection.
- 4-Way valving on the DP-464 for operation of double-acting cylinder.
- Large oil capacity to power a wide range of cylinders or tools.



DP-462 / DP-464

Model Number	Pump Type	Usable Oil Capacity (cm <sup>3</sup> )	Pressure Rating		Oil Displacement per Stroke		Max. Handle Effort (kg)	Piston Stroke (mm)	Dimensions (mm)		
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage			A	B	C
			(bar)		(cm <sup>3</sup> )						
DP-392	Two-Speed	901	13	700	11.26	2.47	42.2	25.4	344	533	36
DP-462		7423	14	700	126.20	4.75	50.0	38.1	210	308	163
DP-464		7423	14	700	126.20	4.75	50.0	38.1	210	308	163

Model Number	Dimensions (mm)											Weight (kg)
	D	E	H	J	L	M	N	P	Q	R	S	
DP-392	99	33	522	30	177	16	120	—	—	—	—	4.1
DP-462	320	195	671	25	270	175	650	92	—	—	80	27.7
DP-464	320	195	671	25	270	175	650	92	89	68	80	27.7



## Manual Pump

Light Weight /  
Steel hand pump

Reservoir Capacity	400-7,400 cm <sup>3</sup>
Flow at Rated Pressure	1.25-4.75 cm <sup>3</sup>
Maximum Operating Pressure	700 bar

### Optional Features

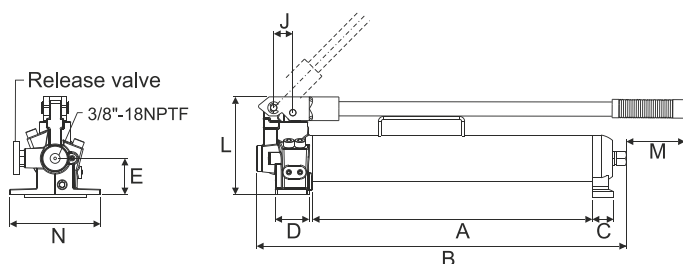


To add optional features to your pump, add the follow suffixes to the end of the model number.

**4 ways control valve: Model D**

#### Example:

DP-20 with 4 ways control valve, order: DP-20D.  
Technical specifications for these features are available from DURAJACK.



## DP

### Steel Hand Pump

- Internal pressure relief valve for overload protection.
- Large oil capacity, suitable for wide application.
- Two speed auto-switch reduces manpower and increase efficiency.



Model Number	Pump Type	Usable Oil Capacity (cm <sup>3</sup> )	Pressure Rating		Oil Displacement per Stroke		Piston Stroke (mm)	Dimensions (mm)								Weight (include all) (kg)	
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage		A	B	C	D	E	J	L	M		N
			(bar)		(cm <sup>3</sup> )												
DP-4	S/S	400	—	700	—	1.25	22	200	296	32.0	50	50	29	142	45	140	5.0
DP-9	Two-speed	900	14	700	12.5	2.8	21	410	510	32.5	45	55	29	150	60	136	7.5
DP-12		1200	14	700	12.5	2.8	19	425	536	32.5	48	55	29	150	65	137	9.0
DP-20		2200	14	700	14.5	2.8	21	425	536	32.5	45	55	29	150	60	136	10.5
DP-30		3000	14	700	14.5	2.8	21	425	562	45.0	48	55	29	150	65	137	13.6

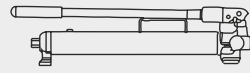
## DHB-DHE SERIES

### Steel Hand Pumps

- Rugged construction and light handle efforts.
- Handy release knobs with anti-leaking mechanism are truly suitable to industrial requirement and your daily works.
- Both single and dual-speed models are available.
- Internal overload relief valve prevents pump from being used beyond its rated capacity.
- External adjustable relief valve with anti-losing mechanism design.
- Carrying handle for easy portability.



**DHB-700**



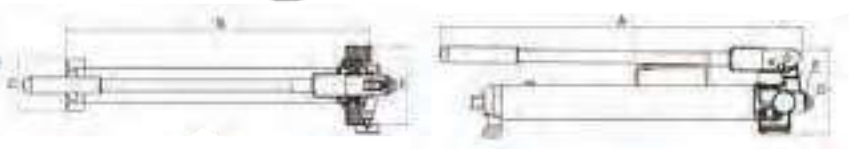
### Manual Pump

Steel hand pump

Reservoir Capacity	640-1,800 cm <sup>3</sup>
Flow at Rated Pressure	2.8 cm <sup>3</sup>
Maximum Operating Pressure	700 bar



**DHE-2000**



Model Number	Pump Type	Usable Oil Capacity (c.c.)	Pressure Rating		Oil Capacity (c.c.)	Oil Volume Per Stroke		Dimensions (mm)					Oil Port Thread F	Weight (kg)
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage		1 <sup>st</sup> stage	2 <sup>nd</sup> stage	A	B	C	D	E		
			(bar)			(c.c.)								
<b>DHB-700</b>	Two-Speed	640	20	700	850	13.0	2.8	633	528	90	148	137	3/8 NPT	8
<b>DHE-2000</b>		1800	20	700	2100	13.0	2.8	580	523	140	189	148	3/8 NPT	11.5

## DPHA

### Aluminium Hand Pump

- All Aluminium Alloy construction and hand size release knobs that with anti-losing mechanism are truly suitable to industrial requirement and your daily work.
- Special design with Aluminium Alloy construction as much light weight is ideally for easy portability and maneuvering.



**DPHA-1500**



Model Number	Pump Type	Usable Oil Capacity (cm <sup>3</sup> )	Pressure Rating		Oil Displacement per Stroke		Piston Stroke (mm)	Dimensions (mm)								Weight (include all) (kg)	
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage		A	B	C	D	E	J	L	M		N
			(bar)		(cm <sup>3</sup> )												
<b>DPHA-500</b>	Two-Speed	500	14	700	6.28	1.57	20	377	503	38	80.1	27.7	22	119.4	21	97.5	4.5
<b>DPHA-750</b>		750	14	700	12.5	2.8	21	245	389	60	76.7	60.3	31	150.3	234	140	5.6
<b>DPHA-1500</b>		1500	14	700	12.5	2.8	21	425	568	60	76.7	60.3	31	150.3	54	140	5.0

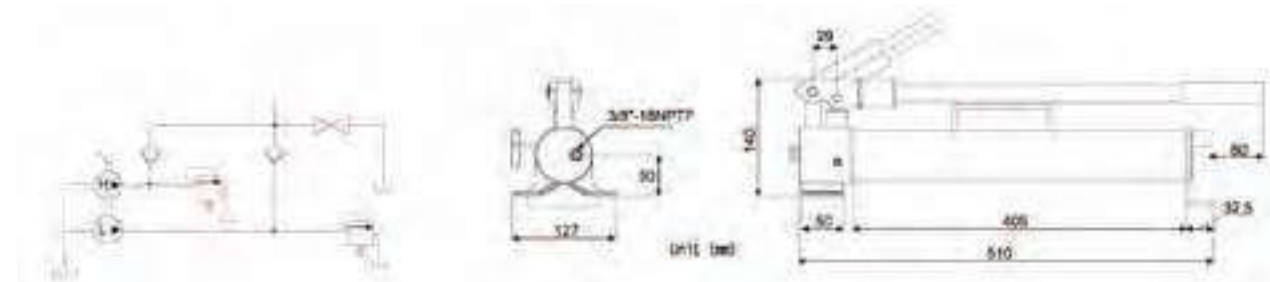
## DPHW

### Water / Hydraulic Manual Pump

- Manual pump whose hydraulic fluid is "Water" and can increase the pressure up to 700 bar.
- Special rust-proof treatment is performed to the stainless-steel materials or special steel where the pump contacts water.
- Can be used in a place where the usage of oil is hesitated.
- A safe mechanism incorporating a safety valve like other time-tested 700 bar series.
- Automatic high-low pressure switching pump for improved work efficiency.



**DPHW-900**



Model Number	Pressure Rating (psi) / (bar)		Output flow rate (c.c / stroke)		Water Capacity (c.c)	Weight (No water) (kg)
	1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage		
<b>DPHW-900</b>	290 (20)	10,000 (700)	13.0	2.3	900	5.7

## DPHP

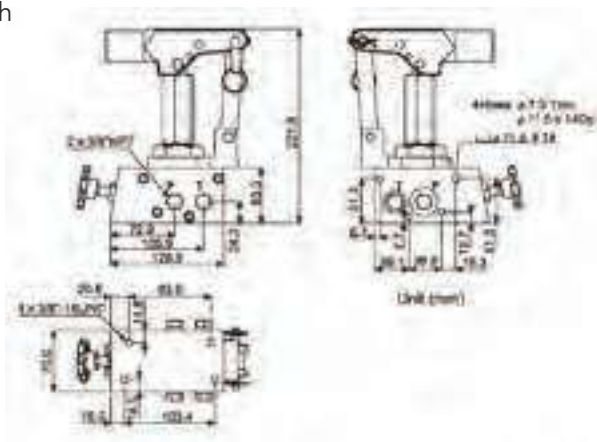
### Special Application Pump Head

- Adjustable linkage for reduced handle force.
- Swivel pump head for flexible fixturing.
- Wide range of operating pressures to select from.
- Design for tight mounting space, backup manual power or lower pressure and high flows.
- Design for applications when pumps oil tank need to be changed.
- DPHP and DPHH handle construct by Aluminium Alloy which dimension be  $\varnothing 22 * 60$  mm.



**DPHP-210**

Model Number	Pressure Rating (psi) / (bar)	Volume (c.c / stroke)	Max. Handle Eff. (kgf)	Weight (kg)
<b>DPHP-50</b>	750 (50)	75	36	5
<b>DPHP-70</b>	1,000 (70)	35	48	5
<b>DPHP-210</b>	3,000 (210)	22	54	4
<b>DPHP-450</b>	6,500 (450)	9	54	4
<b>DPHP-700</b>	10,000 (700)	5	54	4



# DPA-6

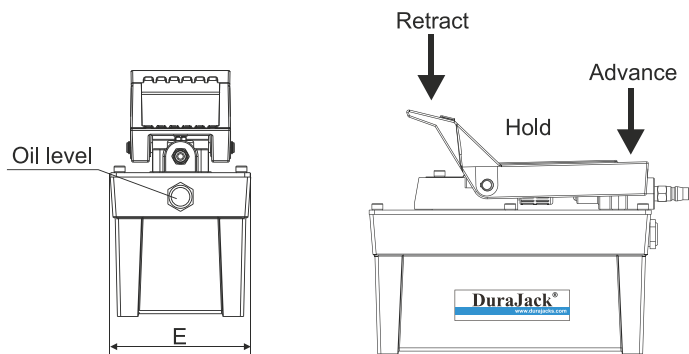
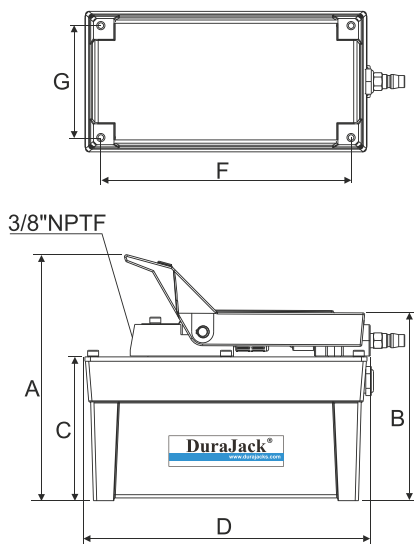
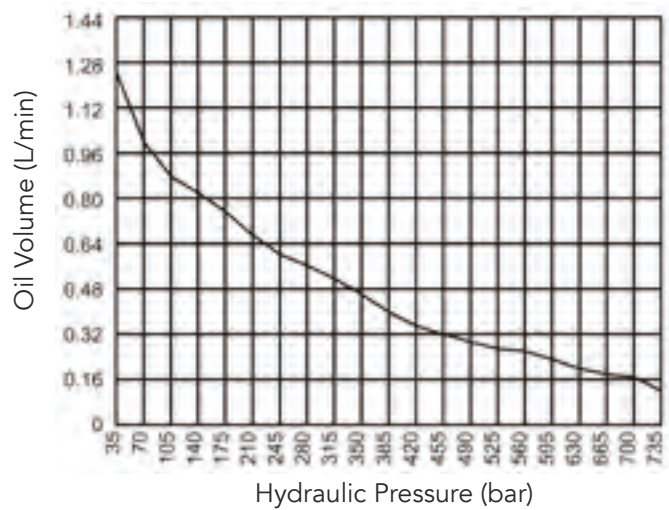
## Air Hydraulic Pumps

- Internal relief valve protects circuit components, air inlet filter protects motor.
- High pressure output, light weight by aluminium alloy reservoir.
- Serviceable pump motor is not a “throw away”, providing economical repair.
- Permanently vented reservoir cap.
- Three-position treadle provides cylinder advance, hold and retract operation.
- Equipped with air coupler, easy for using.
- dBA 85 at 700bar for all DPA-6 pumps, lower noise.



DPA-6

DPA-6 Pressure vs Volume @ 700 bar (10,000 psi)

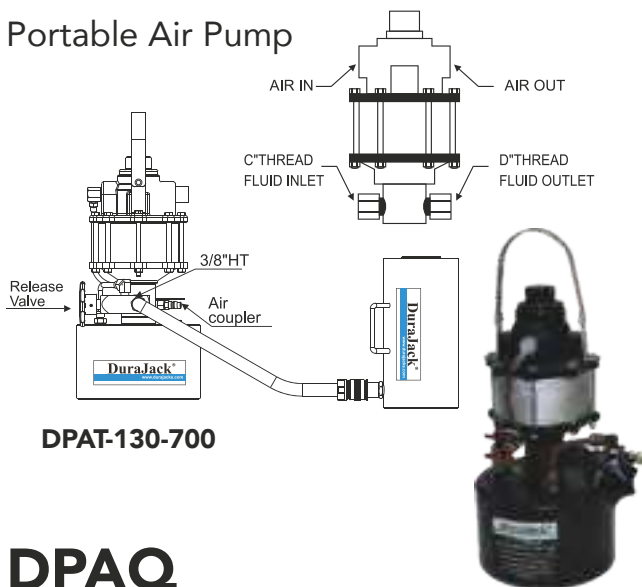


Model Number	Usable Oil Capacity (L)	Pressure Rating		Air Pressure Range (kgf/cm <sup>2</sup> )	Output Flow Rate (no-load) (L/min)		Dimensions (mm)							Weight (Oil) (kg)
		(bar)	(psi)		0 bar	700 bar	A	B	C	D	E	F	G	
DPA-6	1.8	700	10,000	6-10	1.24	0.16	225	171	131	260	128	228	102	8.2

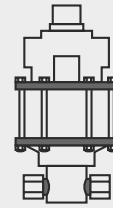
# DPAT, DPAQ & DHTP SERIES

## DPAT

Portable Air Pump



**DPAT-130-700**



### Air Pump

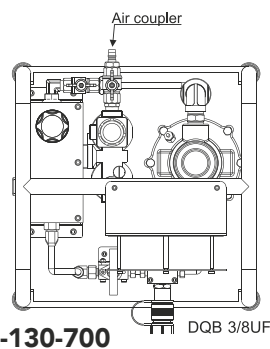
High Effect Air Pump

Reservoir Capacity	2-5.6 L
Flow at rated pressure	2.5-9.5 c.c / per stroke
Air press	5-7 kg/cm <sup>2</sup>
Maximum Operating Pressure	300-700 bar

## DPAQ

Frame Air Pump

- Steel base and frame.
- Easy to carry.

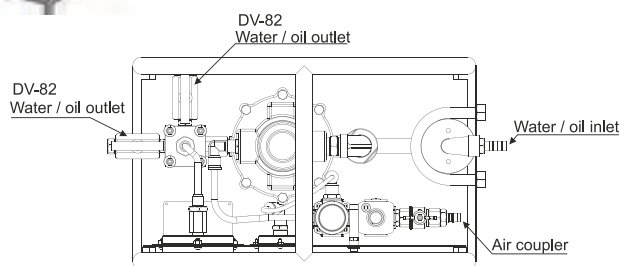


**DPAQ-130-700**

## DHTP

Hydrostatic Pump

- Air units (F.R.L.Unit) provide filter, regulator and lubricate.
- Input water filter which provide protect.
- Steel base.
- Liquid can be oil or water.



**DHTP-130-300F**  
**DHTP-130-700F**



Description	Model Number	Compress Ratio	Output oil	Work press. (bar)	Air press. (kgf/cm <sup>2</sup> )	Equipped reservoir (c.c)	Dimensions			Weight (kg)
			(cm <sup>3</sup> / per stroke)				C	D	(mm)	
Portable	<b>DPAT-130-700</b>	1:150	2.5	700	5~7	2000	—	1/2"PT-14	Ø220x420L	9
Portable	<b>DPAT-130-700-4K</b>	1:150	2.5	700	5~7	4000	—	1/2"PT-14	Ø220x530L	12
Steel Frame	<b>DPAQ-130-700F</b>	1:150	2.5	700	5~7	5600	1/4PT-19	9/16-18UNF	400*400*420	25
Steel Frame	<b>DPAQ-180-700F</b>	1:117	12.5	700	5~7	5600	1/4PT-19	9/16-18UNF	500*500*520	28
Standard type	<b>DHTP-130-300L</b>	1:60	6.4	300	5~7	—	1/4PT-19	9/16-18UNF	650*300*300	25
Steel Frame	<b>DHTP-130-300F</b>	1:60	6.4	300	5~7	—	1/4PT-19	9/16-18UNF	500*300*420	
Steel Frame	<b>DHTP-130-700F</b>	1:150	3.1	700	5~7	—	1/4PT-19	9/16-18UNF		

\* Reservoir will be changed by user.

\* Weight and dimension will be changed by reservoir alter.

# DPE3000 SERIES

## Hydraulic Electric Pump

- Requires less energy, simple and easy to operate.
- Suitable for any industrial application.
- Handle and casing built together.
- Equipped with 10ft remote line.
- Carbon brushless motor, working frequently.




DPE3000APS

Custom build your Electric Pump:

### DPE-3000 A

1. Valve

- A. 3way / 2position built-in Solenoid Valve: Advance Hold Return
- B. Remote Release Pressure: Advance Return (Ideal for punching, crimping and cutting)
- C. 3way / 2position Manual Valve: Advance Hold Manual return
- D. 4way / 3position Manual Valve: Advance Hold Manual Return



### Electric Pump

Light Weight Pump

Reservoir Capacity	3-6 L
Flow at rated pressure	4-0.4 L
Motor Size	0.37 kW (0.5 hp)
Maximum Operating Pressure	700 bar

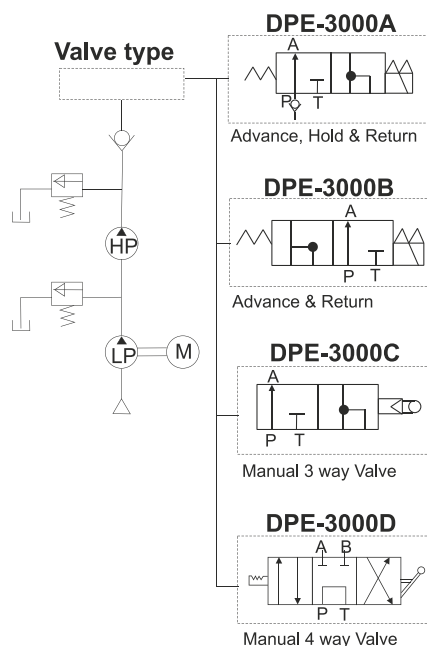
### Control Valve

A single-acting cylinder must be powered by a pump with a 3-way solenoid (built-in) or manual valve.

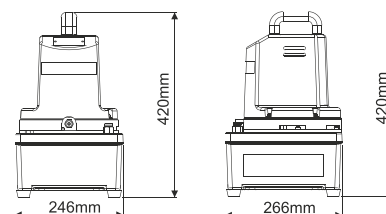
**Compare Model: DPE-3000APS (solenoid) or DPE-3000CPS (manual)**

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

**Compare Model: DPE-3000D**



Basic Pump Valve	Used with Cylinder		Valve Functions		
Manual 3 way Valve	•		•	•	•
Manual 4 way Valve		•	•	•	•

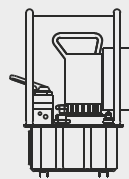
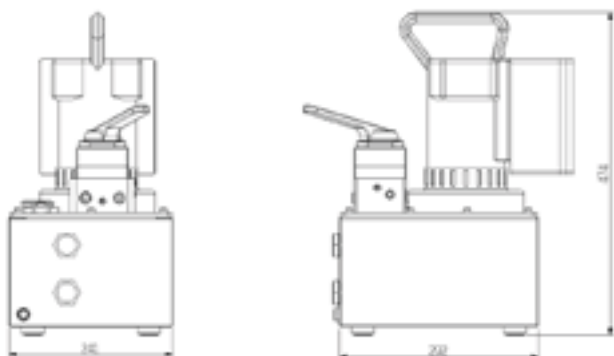


Model Number	Motor kW (hp)	Max. Pressure (psi) / (bar)	Pressure Rating		Output flow rate		dBa at Idle and 700 bar	Weight (include all) (kg)	Dimensions (mm)
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage			
			(psi) / (bar)		(L/min)				
DPE3000-50-220	0.37 (0.5)	10,000 (700)	200 (14)	10,000 (700)	4	0.4	85-90	14.5	250*270*400
DPE3000M-50-220	0.37 (0.5)	10,000 (700)	200 (14)	10,000 (700)	4	0.4	85-90	28	300*350*460

## DPE554 SERIES

### Hydraulic Electric Pump

- External adjustable pressure regulator.
- DPE554TWP-220-BS series: just use with Hydraulic Torque Wrench (see page 76).
- DPE554-50-220 series: just use with Hydraulic lift applications.
- 3M (10ft) remote motor control.
- Stainless frame easy to carry.



### Electric Pump

Industrial Application  
Electric Pump

Reservoir Capacity	8-20 L
Flow at rated pressure	11.3-0.9 L
Motor Size	0.84kW (1-1/8 hp)
Maximum Operating Pressure	700 bar



DPE554-50-220

Model Number	Motor kW (hp)	Flow rate @ 230VAC (L/min)				Rpm	dBA at Idle and 700 bar	Amp at 700 bar (A)	Oil tank (L)	Usable oil (L)	Weight (include all) (kg)
		0 bar	50 bar	350 bar	700 bar						
DPE554 Series	0-84 (1-1/8)	11.3	7.1	1.2	0.9	12000	80	25/110V	8	7	32
								10.7/230V			

# DPE-2 SERIES

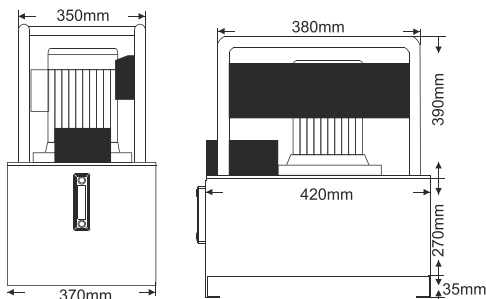
## Hydraulic Electric Pump

- Two stage models for reduced cycle times and improved productivity.
- Easy to customize with modular accessory kits.
- User adjustable external relief valve with a factory set upper limit prevents system overload.
- Easy to read integrated oil level sight glass.
- Totally enclosed fan-cooled motors are ideal for outdoor use in many environments.



DPE-2

Optional



### Electric Pump

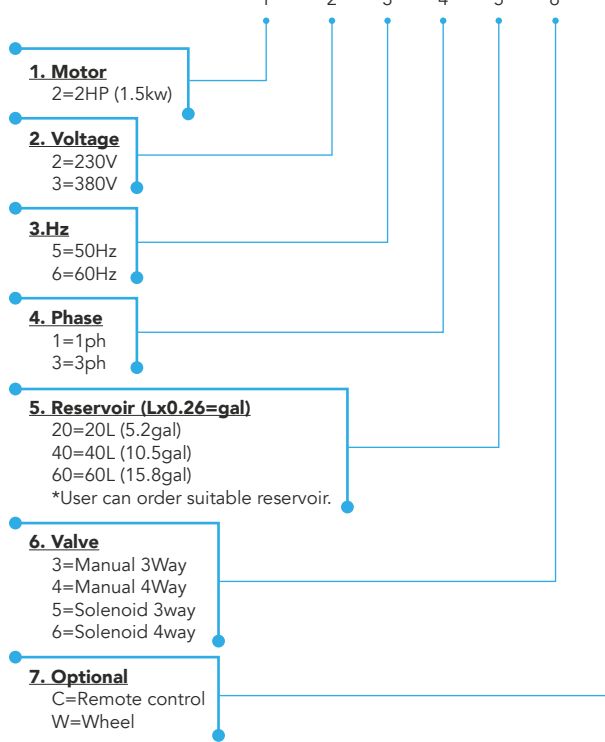
Industrial Application  
Electric Pump

Reservoir Capacity	20-60 L
Flow at rated pressure	10.5-1 L
Motor Size	1.5kW (2 hp)
Maximum Operating Pressure	700 bar

Custom build your Electric Pump:

**DPE- 2 2 6 3 20 3 CW**

1 2 3 4 5 6 7



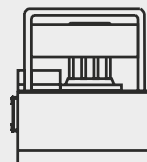
Basic Pump Valve	Used with Cylinder	Valve Functions		
Manual 3 way Valve	•	•	•	•
Manual 4 way Valve	•	•	•	•

Model Number	Motor kW (hp)	Operation	Flow Rate		Pressure Rating		Rpm	dBA at Idle and 700 bar	Weight (20L reservoir no oil) (kg)
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage			
			(L/min)		(bar)				
DPE-2	1.5 (2)	Two-stage	10.5	1	55	700	1725	70-79	55.5

# DPE-5 SERIES

## Hydraulic Electric Pump

- Vary reservoirs for use with a wide range of cylinders and application.
- All pumps feature sturdy Roll Cages for use in tough environments.
- Two stage models for reduced cycle times and improved productivity.
- User adjustable external relief valve with a factory set upper limit prevents system overload.
- Easy to read integrated oil level sight glass.
- Totally enclosed fan-cooled motors are ideal for outdoor use in many environments.



### Electric Pump

Industrial Application  
Electric Pump

Reservoir Capacity	50-60 L
Flow at rated pressure	2.6-18 L
Motor Size	3.7kW (5 hp)
Maximum Operating Pressure	700 bar



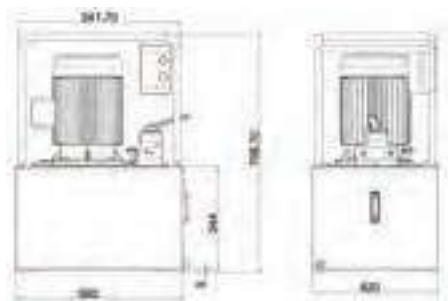
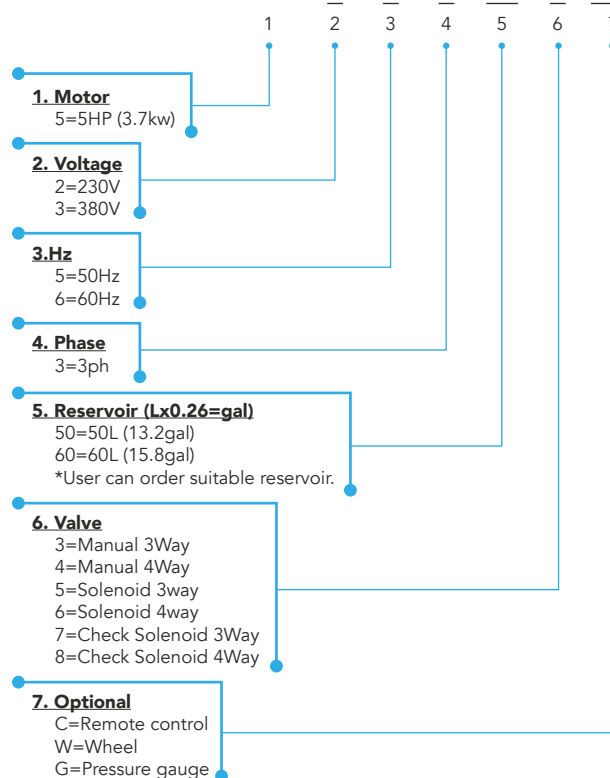
DPE-5

Optional



Custom build your Electric Pump:

**DPE- 5 2 6 3 50 4 CW**



Basic Pump Valve	Used with Cylinder	Valve Functions		
Manual 3 way Valve	•	•	•	•
Manual 4 way Valve		•	•	•

Model Number	Motor kW (hp)	Operation	Flow Rate		Pressure Rating		Rpm	dBA at Idle and 700 bar	Weight (50L reservoir no oil) (kg)
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage			
			(L/min)		(bar)				
DPE-5	3.7 (5)	Two-stage	18	2.6	60	700	1740	70-79	190

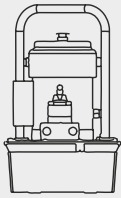
# DPE-18 SERIES

## Electric Pump

- Original pumps are built with 1/2 HP, 220V, 50Hz, Single phases universal brushless motor.
- Internal relief valve (700 bars) protects the components and work safety.
- Pumps are included with 24V, 3 meters remote control cord.
- Quiet pumps comply OSHA noise limitation (80dBA at 700bar).
- DPE-18D specially designed for double-acting cylinders without the need for additional control valve and adapters.
- Both models are available with Solenoid Valve version.



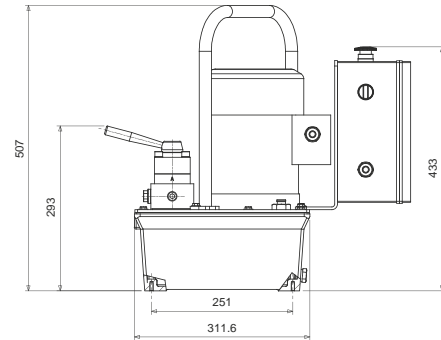
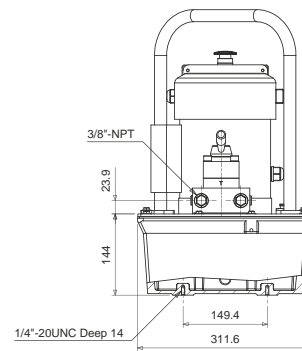
**DPE18D-50-220**



### Electric Pump

Electric Pump

Reservoir Capacity	<b>8 L</b>
Flow at rated pressure	<b>3.3-0.3 L</b>
Motor Size	<b>0.45 kW (0.6 hp)</b>
Maximum Operating Pressure	<b>700 bar</b>



**DPE-18D**

Model Number	Acting	RPM 50Hz	Motor	Max. Pressure (psi) / (bar)	Output flow rate (L/min. @) * (50 Hz)				Valve		Oil Tank (L)	Usable Oil Capacity (L)
					0 bar	7 bar	345 bar	700 bar	Type	Function		
<b>DPE-18S</b> <b>DPE-18SS*</b>	Single	2860	0.45 KW 220V 50 Hz Single Phase	10,000 (700)	3.3	2.3	0.3	0.3	2 Position / 2 way	Hold / Return	8	7.2
<b>DPE-18D</b> <b>DPE-18DS*</b>	Double	2860	0.45 KW 220V 50 Hz Single Phase	10,000 (700)	3.3	2.3	0.3	0.3	2 Position / 2 way	Hold / Return	8	7.2

Model Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	Weight (kg)
<b>DPE-18 Series</b>	504	141.5	311.6	251	391	311.6	149.4	3/8"-NPT	543.5	32

\* Solenoid Valve version.

\*\* The weight is excluding the hydraulic oil.

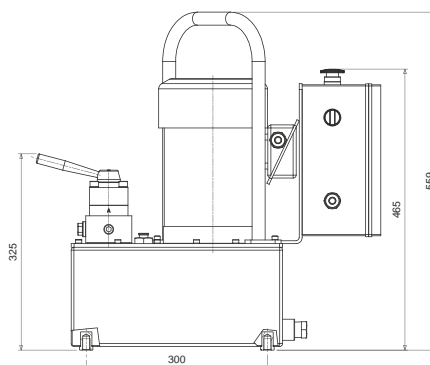
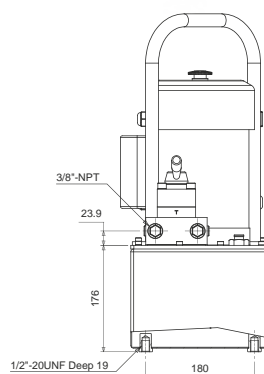
# DPE-211 SERIES

## Electric Pump

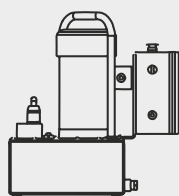
- Original pumps are built with 1 1/2 HP, 220V, 50Hz, Single phases universal brushless motor.
- Internal relief valve (700 bars) protects the components and work safety.
- Pumps are included with 24V, 3 meters remote control cord.
- Quiet pumps comply OSHA noise limitation (80dBA at 700bar).
- DPE-211D specially designed for double-acting cylinders without the need for additional control valve and adapters.
- Both models are available with Solenoid Valve version.



**DPE211D-50-220**



**DPE-211D**



### Electric Pump

Electric Pump

Reservoir Capacity	11 L
Flow at rated pressure	6.6-0.6 L
Motor Size	1.12 kW (1.5 hp)
Maximum Operating Pressure	700 bar

Model Number	Acting	RPM 50Hz	Motor	Max. Pressure (psi) / (bar)	Output flow rate (L/min. @) * (50 Hz)				Valve		Oil Tank (L)	Usable Oil Capacity (L)
					0 bar	7 bar	345 bar	700 bar	Type	Function		
<b>DPE-211S</b> <b>DPE-211SS*</b>	Single	2860	1.12 KW 220V 50 Hz Single Phase	10,000 (700)	6.6	6.1	0.7	0.6	2 Position / 2 way	Hold / Return	11	9.5
<b>DPE-211D</b> <b>DPE-211DS*</b>	Double	2860	1.12 KW 220V 50 Hz Single Phase	10,000 (700)	6.6	6.1	0.7	0.6	2 Position / 2 way	Hold / Return	11	9.5

Model Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	Weight (kg)
<b>DPE-211 Series</b>	559	176	515.5	300	391.5	224.4	180	3/8"-NPT	515.5	40

\* Solenoid Valve version.

\*\* The weight is excluding the hydraulic oil.

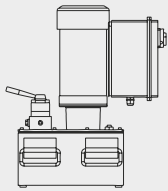
# DPE-420 SERIES

## Electric Pump

- Original pumps are built with 2.24kW, 220/380V, 50Hz, 3 phases universal brushless motor.
- Internal relief valve (700 bars) protects the components and work safety.
- Pumps are included with 24V, 3 meters remote control cord.
- Quiet pumps comply OSHA noise limitation (80dBA at 700bar).
- DPE-420D specially designed for double-acting cylinders without the need for additional control valve and adapters.
- Internal relief valve limits pressure to 10,000 psi. External relief valve is adjustable from 1,000 to 10,000 psi.
- Both models are available with Solenoid Valve version.



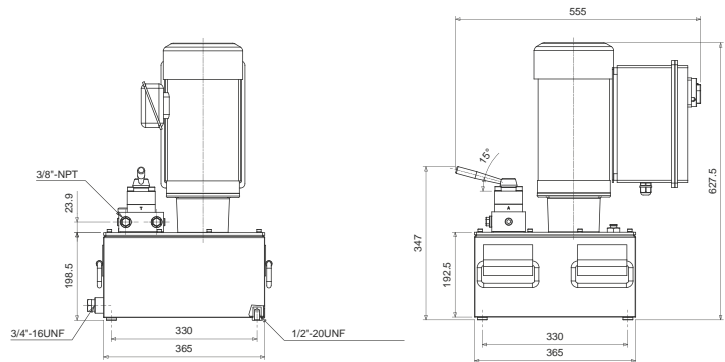
**DPE420DS-50-380**



### Electric Pump

Electric Pump

Reservoir Capacity	<b>20 L</b>
Flow at rated pressure	<b>9.5-1.8 L</b>
Motor Size	<b>2.24 kW (3 hp)</b>
Maximum Operating Pressure	<b>700 bar</b>



**DPE-420D**

Model Number	Acting	RPM 50Hz	Motor	Max. Pressure (psi) / (bar)	Oil Del. (L/min. @) * (50 Hz)				Valve		Oil Tank (L)	Usable Oil Capacity (L)
					7 bar	69 bar	345 bar	700 bar	Type	Function		
<b>DPE-420S</b> <b>DPE-420SS*</b>	Single	1435	2.24 KW 220V/380V 50 Hz 3 Phase	10,000 (700)	9.5	2.5	2.0	1.8	3 Position / 4 Way	Adv. / Hold / Retract	20	18
<b>DPE-420D</b> <b>DPE-420DS*</b>	Double	1435	2.24 KW 220V/380V 50 Hz 3 Phase	10,000 (700)	9.5	2.5	2.0	1.8	3 Position / 4 Way	Adv. / Hold / Retract	20	18

Model Number	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)	Weight (kg)
<b>DPE-420 Series</b>	-	198.5	365	330	627.5	365	300	3/8"-NPT	512	65

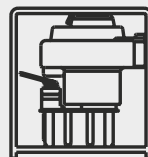
\* Solenoid Valve version.

\*\* The weight is excluding the hydraulic oil.

# DGP SERIES

## Hydraulic Gasoline Pump

- Vary reservoirs for use with a wide range of cylinders and application.
- All pumps feature sturdy Roll Cages for use in tough environments.
- High by-pass pressure improve productivity on all model.

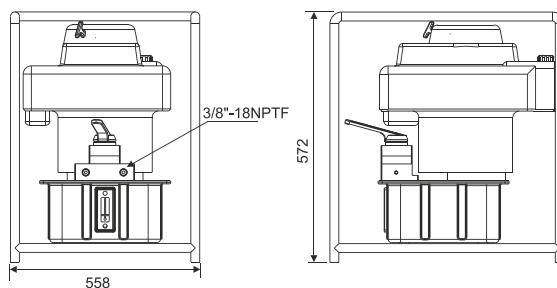
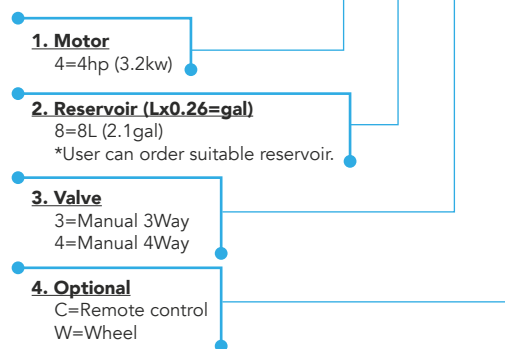


### Gasoline Pump Pump

Reservoir Capacity	8 L
Flow at rated pressure	0.78-5.5 L
Motor Size	3.2 kW (4 hp)
Maximum Operating Pressure	700 bar

Custom build your Electric Pump:

**DGP- 4 8 4 CW**  
1 2 3 4



unit (mm)

Basic Pump Valve	Used with Cylinder		Valve Functions		
Manual 3 way Valve	•		•	•	•
Manual 4 way Valve		•	•	•	•

Model Number	Motor Type / Size kW (hp)	Flow Rate		Valve Function (bar)	dBA at Idle and 700 bar	Weight (kg)
		1 <sup>st</sup> stage	2 <sup>nd</sup> stage			
DGP	Honda-4hp	5.5	0.78	Advance / Hold / Retract	90	54

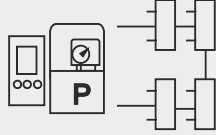
# DPSC

## Synchronous Lift System

- 4 to 64 points, load and stroke monitored and controlled.
- Capacities from 10 up to 1,000 ton per lifting point.
- Up to 1mm accuracy over full plunger stroke.
- PLC-control unit with user-friendly touch screen.
- Automatic data storage.
- System secured with warning and stop features to achieve optimal safety.

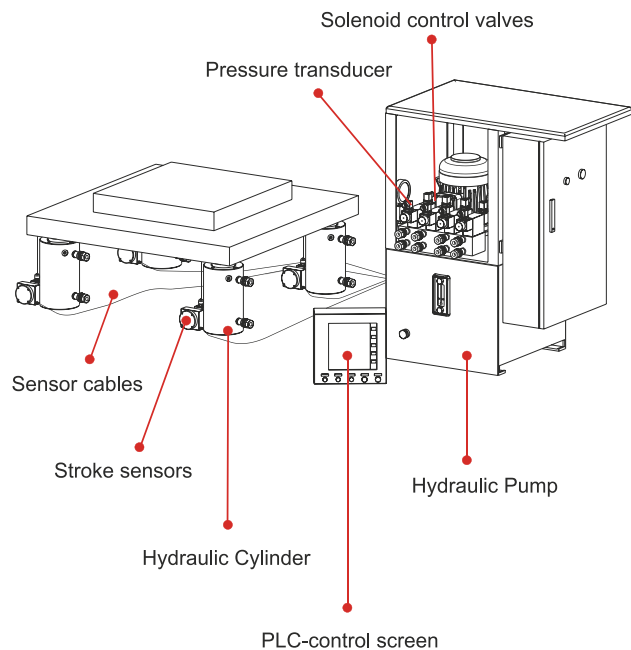
### System Options:

- Load and force measurement.
- Load cell for precise force measurement up to 0.1% of full scale.
- Digital stroke sensors for:
  - up to 0.1mm accuracy over full stroke.
  - up to max. 1km distance between control unit and lifting points.
- Two-axis tilting control to level structures.
- Oil heater or heat exchange for extreme conditions.



### Synchronous Lift System

Capacity per Lifting point	10-1000 tons
Max. Stroke	5000 mm
Maximum Operating Pressure	700 bar



Features	Basic	Premium
Analog stroke sensors	x	x
Digital stroke sensors	-	o
Stroke controlled movement	x	x
Load controlled movement	-	x
Max. accuracy (depends on components)	±1.0mm	±1.0mm
Recording capabilities	-	x
Graphical representation	-	o
Intercommunication capabilities	-	o
Sensor cables	x	x

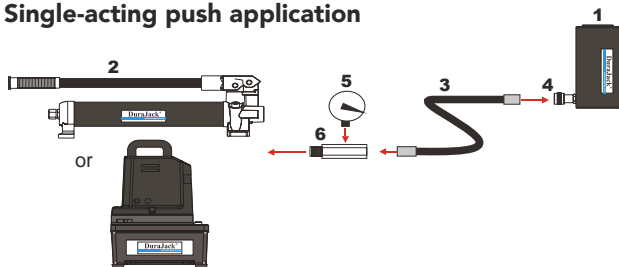
Basic & Premium System Management & Control Features  
X=Standard, O=Optional

Alarms	Basic	Premium
Stroke limitation	x	x
Load limitation	-	x
Low oil level	-	x
Oil filter warning	-	x
Oil temperature warning	-	x

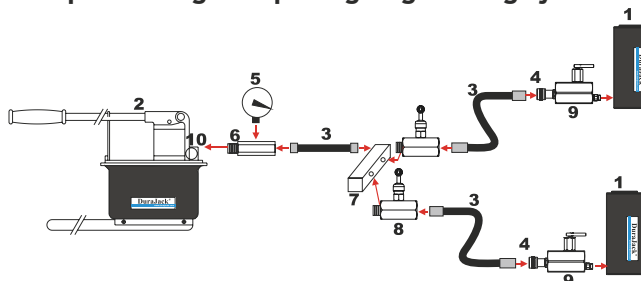
### Basic System Set-up

These are just a few basic systems possible with DURAJACK hydraulic components. Countless applications are possible: In presses, for lifting or jacking applications or in production or maintenance setups. The pump shown is a typical hydraulic unit. Electric or air driven pumps are available.

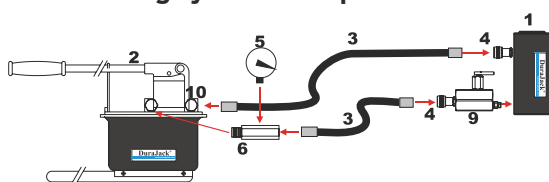
#### Single-acting push application



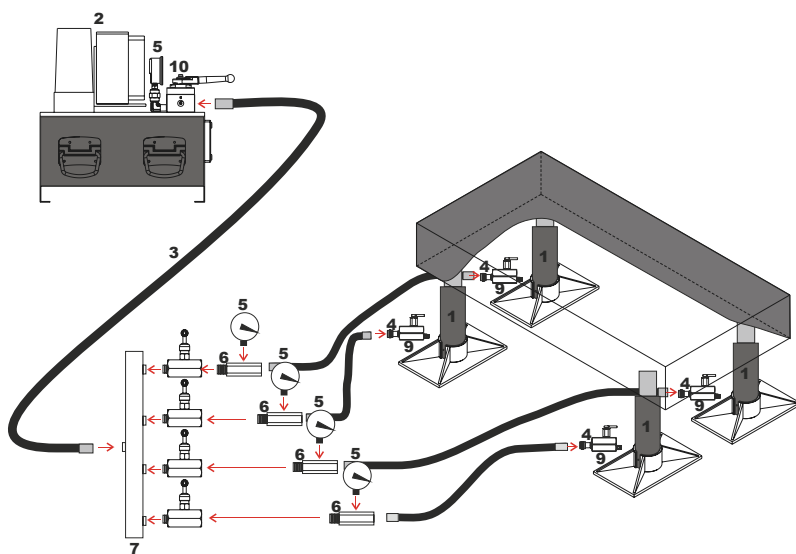
#### Two point lifting set-up using single-acting cylinder



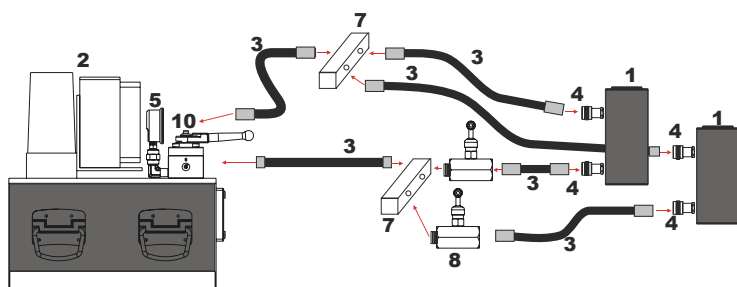
#### Double-acting cylinder set-up



#### Single-acting push application



#### Two point set-up with Double-acting cylinder used in a push/pull application.



**1 Cylinder**  
Applies hydraulic force.

**2 Pump**  
Provides hydraulic flow.

**3 Hose**  
Transports hydraulic fluid.

**4 Quick Coupling**  
"hose half" and "cylinder half" couplings are used for quick connection and fluid flow check when separated.

**5 Gauge**  
To monitor pressure of the cylinder circuit.

**6 Gauge Adaptor**  
For quick and easy gauge installation.

**7 Manifold**  
Allows distribution of hydraulic fluid from one power source to several cylinder.

**8 Needle Valve**  
Regulates the flow of hydraulic fluid to or from the cylinder such as DV-82.

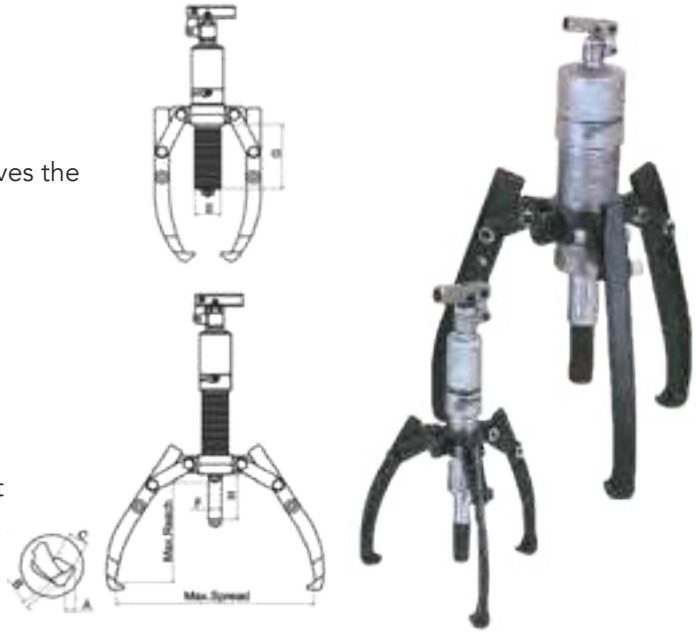
**9 Safety Holding Valve**  
Controls load descent in lifting applications such as DV-66-3.

**10 Control Valve**  
3-way direction by single-action  
4-way direction by double-action such as DW or DVM series.

## DPM SERIES

### Hydraulic Pullers

- Four stages of foldable & removable handle saves the handle force during operation.
- 360° Rotary Socket.
- Integral safety valve installed.
- Spring loaded live center nut for easy job (Removable)
- Chrome plated cylinder provides linear force.
- Heat treated forged alloy steel cross bolts & jaws with manganous-phosphate plated for rust proof and long life service.
- Extension rod available.

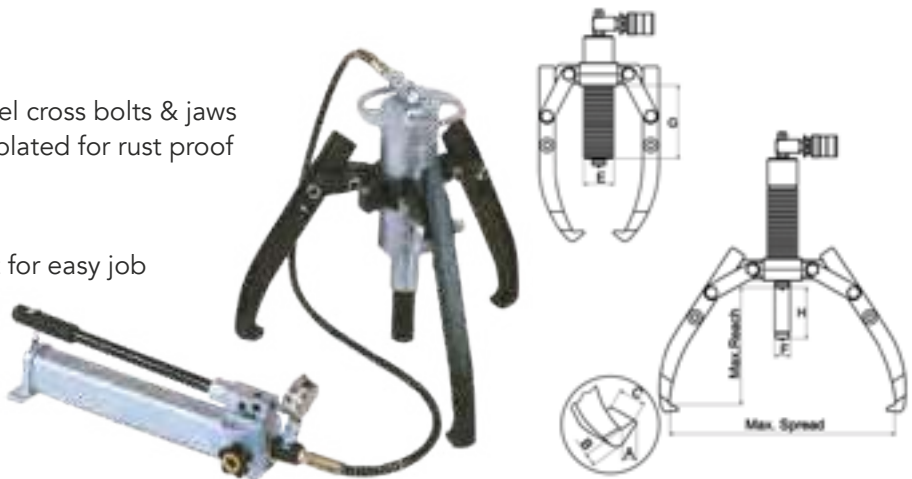


Capacity	Model No.	Reach (Max.) (mm)	Spread (Max.) (mm)	Stroke (mm)	Pump Tip			Jaw Tip			Weight (kg)
					H (mm)	E (mm)	F (mm)	G (mm)	A (mm)	B (mm)	
4 ton	<b>DPM-400</b>	185	255	60	42	22	84	11	6	22	4.5
6 ton	<b>DPM-600</b>	220	330	70	45	23	94	13	10	22	5.5
8 ton	<b>DPM-800</b>	230	350	85	50	25	122	11	10	25	6.5
12 ton	<b>DPM-1200</b>	270	375	85	60	28	128	14	10	29	8.0
20 ton	<b>DPM-2000</b>	360	520	111	80	40	160	20	27	33	22
30 ton	<b>DPM-3000</b>	360	550	111	98	50	155	20	27	38	32

## DPR SERIES

### Hydraulic Pullers

- Heat treated forged alloy steel cross bolts & jaws with manganous-phosphate plated for rust proof and long life service.
- Easy release valve
- Spring loaded live center nut for easy job (Removable)
- Steel Hand Pump: Maximum Working Pressure 700 bar / 10,000 psi

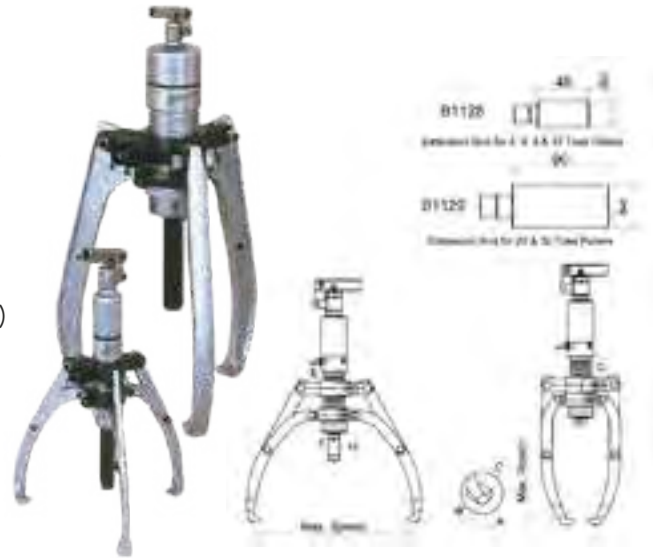


Capacity	Model No.	Reach (Max.) (mm)	Spread (Max.) (mm)	Stroke (mm)	Pump Tip			Jaw Tip			Weight (kg)
					H (mm)	E (mm)	F (mm)	G (mm)	A (mm)	B (mm)	
4 ton	<b>DPR-400</b>	185	255	60	42	22	84	11	6	22	9.5
8 ton	<b>DPR-800</b>	230	350	85	50	25	122	11	10	25	11.5
12 ton	<b>DPR-1200</b>	270	375	85	60	28	118	14	10	29	14.0
20 ton	<b>DPR-2000</b>	360	520	111	80	40	161	20	27	33	20
30 ton	<b>DPR-3000</b>	360	550	111	98	50	155	20	27	38	30

# DPME SERIES

## Hydraulic Pullers

- Four stages of foldable & removable handle saves the handle force during operation.
- 360° Rotary Socket.
- Integral safety valve installed.
- Spring loaded live center nut for easy job (Removable)
- Chrome plated cylinder provides linear force.
- Heat treated forged alloy steel cross bolts & jaws with manganous-phosphate plated for rust proof and long life service.
- Extension rod available.



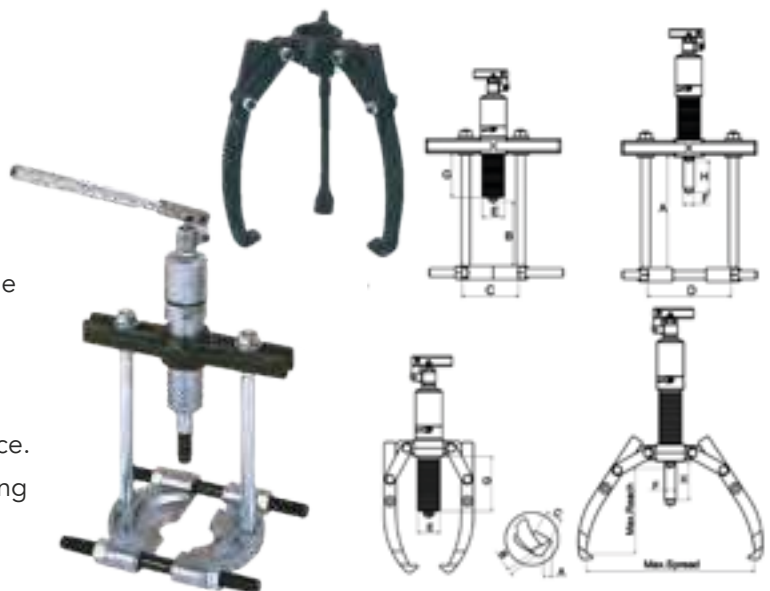
Capacity	Model No.	Reach (Max.) (mm)	Spread (Max.) (mm)	Stroke	Pump Tip				Jaw Tip			Weight (kg)
				H (mm)	E (mm)	F (mm)	G (mm)	A (mm)	B (mm)	C (mm)		
4 ton	<b>DPME-400</b>	190	315	60	42	22	40	13	10	22	8.0	
6 ton	<b>DPME-600</b>	230	390	70	45	23	50	13	10	22	9.8	
8 ton	<b>DPME-800</b>	280	460	85	50	25	70	13	13	27.5	11.7	
12 ton	<b>DPME-1200</b>	300	515	85	60	28	70	15	16.5	29	14.8	
20 ton	<b>DPME-2000</b>	325	520	111	80	40	62	20	27	33	25.7	
30 ton	<b>DPME-3000</b>	415	620	111	98	50	85	20	27	38	36	

Patented in USA, Germany, Taiwan, P.R.C... Etc.

# DPM SERIES - PACKAGE MODEL

## Hydraulic Pullers

- Four stages of foldable & removable handle saves the handle force during operation.
- 360° Rotary Socket.
- Integral safety valve installed.
- Chrome plated cylinder provides linear force.
- Impact set including available size of bearing attachment for great and safety job.











Capacity	Model No.	Reach (Max.) (mm)	Spread (Max.)		Stroke	Pump Tip				Jaw Tip			Weight (kg)
			C (mm)	D (mm)	H (mm)	E (mm)	F (mm)	G (mm)	A (mm)	B (mm)	C (mm)		
4 ton	<b>DPM-420</b>	185/250	55	255/110	60	42	22	84	11	6	22	4.5/8.5	
6 ton	<b>DPM-620</b>	220/270	95	330/180	70	45	23	94	13	10	22	5.5/11.5	
8 ton	<b>DPM-820</b>	230/270	95	350/220	85	50	25	122	11	10	25	6.5/12.6	
12 ton	<b>DPM-1220</b>	270/380	225	375/290	85	60	28	128	14	10	29	8.0/18.0	

# DM SERIES



## Manifolds

Maximum Operating Pressure **700 bar**

	Model Number	Description	Dimensions (mm)
 DM-64	DM-64	178mm Long Manifold with 7 female ports.	
 DM-64	DM-65	369mm Long Manifold with 7 female ports	
 DM-25G	DM-25G	130mm Long Manifold 3/8"-18NPTF Female port: 3 1/8"PT Female port: 1 1/4"NPT Female port: 1	
 DM-25	DM-25	130mm Long Manifold 3/8"-18NPTF Female port: 3 1/8"PT Female port: 1	
 DM-23	DM-23	75mm Long Manifold 3/8"-18NPTF Female port: 3 M8-1.28 Female port: 1	
 DM-66	DM-66	6-Port Hexagon Manifold Plugs furnished for all ports 3/8"-18NPTF	
 DM-2	DM-2 2 control bars	<b>Premounted Manifold</b> Functions as split-flow valve to control 2~4 single-acting cylinders simultaneously. All ports 3/8"-18NPTF	
 DM-4	DM-4 4 control bars		


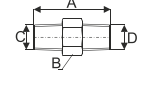

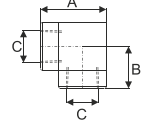

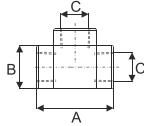

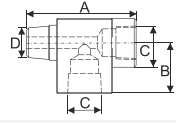

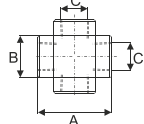

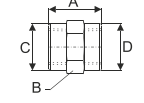

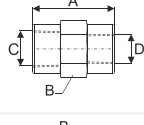

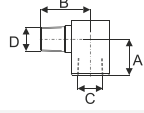

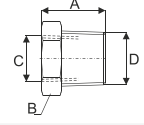

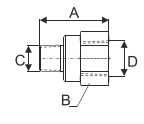

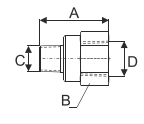

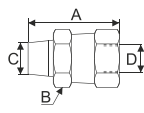
## DF SERIES



## Fitting

Maximum Operating Pressure

700 bar

	Model No.	Description			Dimensions (mm)			
		From	To		A	B	C	D
<b>Hex Nipple</b> 	DF-1608	1/4"-NPTF Male	1/4"-NPTF Male		38	16	1/4"-18NPTF	1/4"-18NPTF
	DF-1617	3/8"-NPTF Male	3/8"-NPTF Male		37	19	3/8"-18NPTF	3/8"-18NPTF
	DF-1618	1/4"-NPTF Male	3/8"-NPTF Male		37	19	1/4"-18NPTF	3/8"-18NPTF
	DF-1619	3/8"-NPTF Male	3/8"-NPTF Male		51	19	3/8"-18NPTF	3/8"-18NPTF
<b>Elbow</b> 	DF-1610	3/8"-NPTF Female	3/8"-NPTF Female		35	22.5	3/8"-18NPTF	—
	DF-1638	1/4"-NPTF Female	1/4"-NPTF Female		35	22.5	1/4"-18NPTF	—
<b>T Connector</b> 	DF-1612	3/8"-NPTF Female	3/8"-NPTF Female		45	25	3/8"-18NPTF	—
	DF-1637	1/4"-NPTF Female	1/4"-NPTF Female		45	25	1/4"-18NPTF	—
<b>Street Tee</b> 	DFB-16312	3/8"-NPTF Female	3/8"-NPTF Male		56	26	3/8"-18NPTF	3/8"-18NPTF
<b>Cross</b> 	DF-1613	3/8"-NPTF Female	3/8"-NPTF Female		45	25	3/8"-18NPTF	—
<b>Coupling</b> 	DF-1614	3/8"-NPTF Female	3/8"-NPTF Female		29	26	3/8"-18NPTF	3/8"-18NPTF
	DF-1605	1/4"-NPTF Female	1/4"-NPTF Female		29	19	1/4"-18NPTF	1/4"-18NPTF
<b>Reducing Connector</b> 	DF-1615	3/8"-NPTF Female	1/4"-NPTF Female		28	25	3/8"-18NPTF	1/4"-18NPTF
	DF-1625	1/2"-NPTF Female	3/8"-NPTF Female		47	29	1/2"-14NPTF	3/8"-18NPTF
<b>Street Elbow</b> 	DF-1616	3/8"-NPTF Male	3/8"-NPTF Female		23	33	3/8"-18NPTF	3/8"-18NPTF
<b>Bushing</b> 	DF-1630	1/4"-NPTF Female	3/8"-NPTF Male		19	19	1/4"-18NPTF	3/8"-18NPTF
	DFB-1630	1/4"-NPTF Female	1/2"-NPTF Male		28	22	1/4"-18NPTF	1/2"-14NPTF
	DFB-16301	G1/4" Female	3/8"-NPTF Male		19	19	G1/4"	3/8"-18NPTF
<b>Adaptor</b> 	DFB-16411	1/4"-18NPTF Male	G1/4" Female		35	19	1/4"-18NPTF	G1/4"
	DFB-16421	1/8"-27NPTF Male	G1/4" Female		31	19	1/8"-27NPTF	G1/4"
	DFB-16323	1/4"-18NPTF Male	G3/8" Female		43	24	1/4"-18NPTF	G3/8"
	DFB-16324	3/8"-18NPTF Male	G3/8" Female		43	24	3/8"-18NPTF	G3/8"
<b>Adaptor</b> 	DF-1055	1/4"-18NPTF Male	3/8"-18NPTF Female		44	23	1/4"-18NPTF	3/8"-18NPTF
	DF-1633	1/4"-18NPTF Male	1/2"-14NPTF Female		43	29	1/4"-18NPTF	1/2"-14NPTF
	DF-1634	3/8"-18NPTF Male	1/2"-14NPTF Female		43	29	3/8"-18NPTF	1/2"-14NPTF
	DF-1642	1/8"-27NPTF Male	1/4"-18NPTF Female		30	19	1/8"-27NPTF	1/4"-18NPTF
<b>Swivel Fitting</b> 	DF-1660	3/8"-NPTF Male	3/8"-NPTF Female		40	22	3/8"-18NPTF	3/8"-18NPTF

\* unit (mm)

# DV/W SERIES

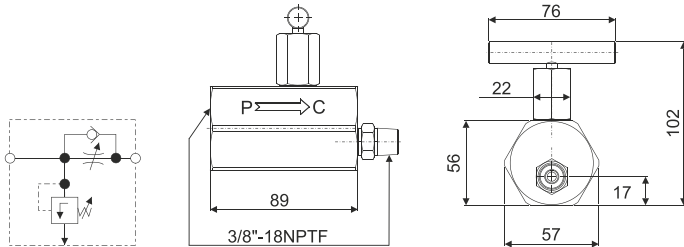
**Valve**

Maximum Operating Pressure

700 bar

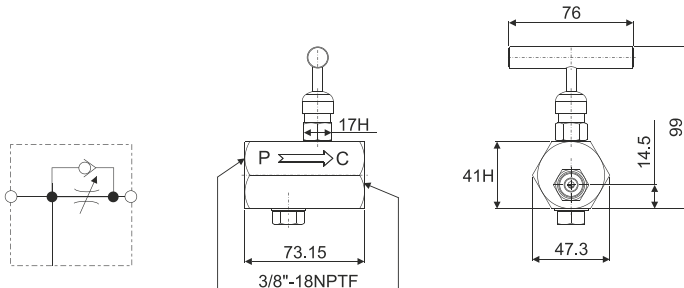
## Manually Operated Check Valve

- Valve is manually opened to allow oil to flow back to tank when cylinder retracts.
- Used for load holding applications with single and double acting cylinder.


**DV-66**

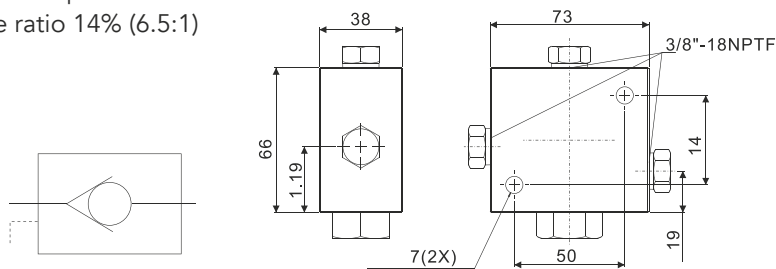
## Manually Operated Check Valve

- Valve is manually opened to allow oil to flow back to tank when cylinder retracts.
- Used for load holding applications with single and double acting cylinder.


**DV-66-3**

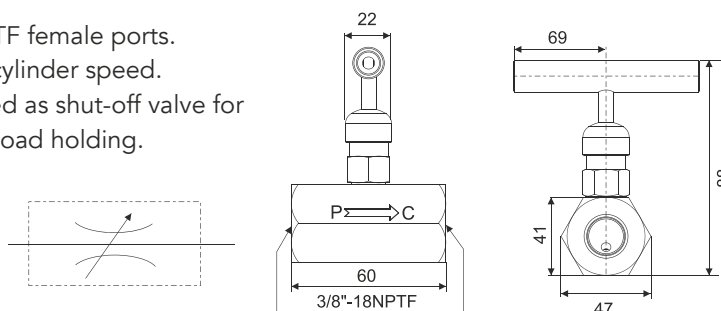
## Pilot Operated Check Valve

- Can be mounted at the cylinder to hold the load in case of system pressure loss.
- Normally used with double-acting cylinders where pilot port receives pressure from a T-fitting in the cylinder retract line.
- 3/8" NPTF female ports.
- Pilot pressure ratio 14% (6.5:1)


**DV-42**

## Needle Valve

- 3/8"-18NPTF female ports.
- To control cylinder speed.
- Also be used as shut-off valve for temporary load holding.


**DV-82**

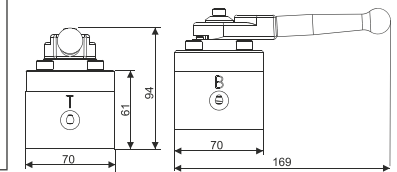
**Control Valves**

- 4-way/3-position
- Lever operated, detent positioned.
- Application: double-acting cylinders and single-acting cylinders which be equipped with DV-66-3.
- Provides "advance", "hold" and "return".



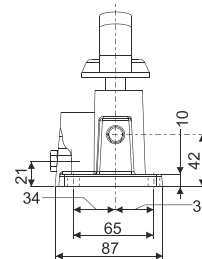
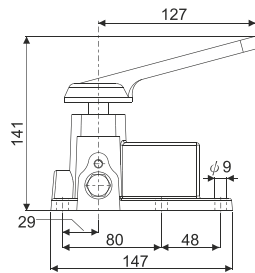
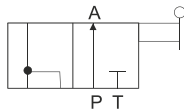
**DW-700**

Model No.		Advance	Hold	Retract
DW-700				
DW-700B				



**Control Valves**

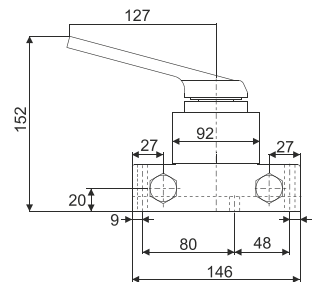
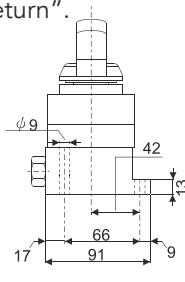
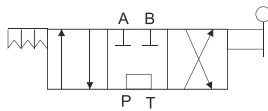
- 3-way/2-position manual control valve.
- Provides "advance" and "return".
- For use with single-acting cylinder.



**DVM-S2**

**Control Valves**

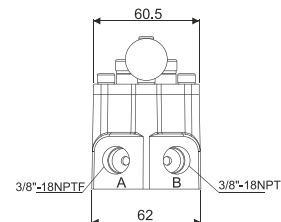
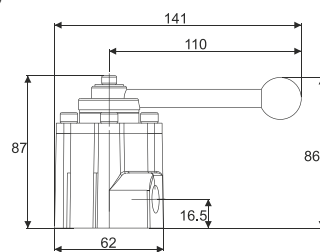
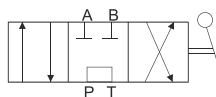
- 4-way/3-position manual control valve.
- Tandem center, lever operated, detent positioned.
- Provides "advance", "hold" and "return".
- For use with double-acting or two single-acting cylinder.



**DVM-D4**

**Control Valves**

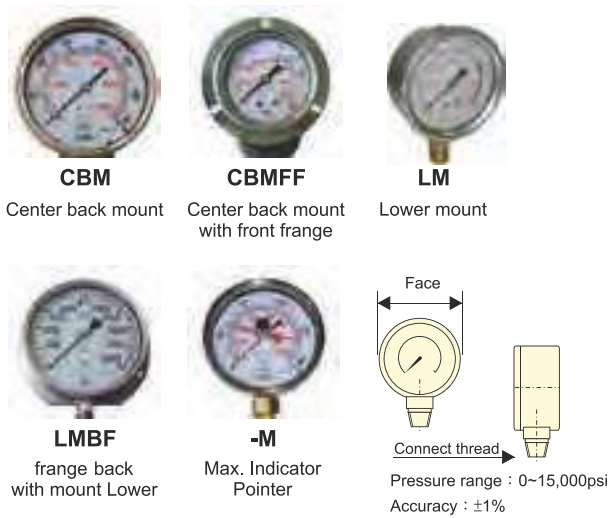
- 4-way/3-position manual control valve.
- Tandem center, lever operated, detent positioned.
- Provides "advance", "hold" and "return".
- For use with double-acting or two single-acting cylinder.



**DVR-D4**

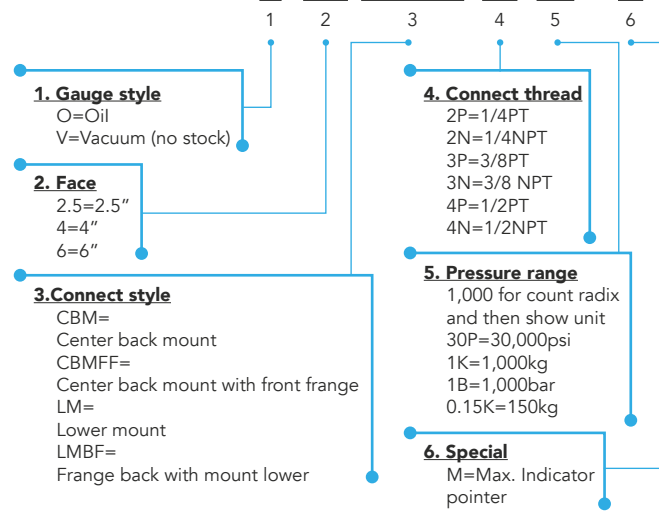
# DPG SERIES

## Hydraulic Pressure / Force Gauges



How is a hydraulic pressure gauge model number is built up:

**DPG O 2.5 CBMFF 2P 1K - M**



Model Number	Face (mm)	Style	Connect thread	Pressure range
DPGO2.5CBMFF2P1K	60	Center back mount with front fringe	1/4PT	0~1,000kgf/cm <sup>2</sup>
DPGO2.5LM2N1B	60	Lower mount	1/4NPT	0~1,000bar
DPGO2.5LM2N1K	60	Lower mount	1/4NPT	0~1,000kgf/cm <sup>2</sup>
DPGO2.5LM2P0.15K	60	Lower mount	1/4PT	0~150kgf/cm <sup>2</sup>
DPGO2.5LM2P1K	60	Lower mount	1/4PT	0~1,000kgf/cm <sup>2</sup>
DPGO2.5LM2P0.7K-M	60	Max. Indicating pointer	1/4PT	0~700kgf/cm <sup>2</sup>
DPGO4CBM2P0.7K	100	Center back mount	1/4PT	0~700kgf/cm <sup>2</sup>
DPGO4CBM2P1K	100	Center back mount	1/4PT	0~1,000kgf/cm <sup>2</sup>
DPGO4CBM3P1K	100	Center back mount	3/8PT	0~1,000kgf/cm <sup>2</sup>
DPGO4CBMFF3P0.35K	100	Center back mount	3/8PT	0~350kgf/cm <sup>2</sup>
DPGO4CBMFF3P0.4K	100	Center back mount	3/8PT	0~400kgf/cm <sup>2</sup>
DPGO4LM2N1B	100	Lower mount	1/4NPT	0~1,000bar
DPGO4LM3P0.15K	100	Lower mount	3/8PT	0~150kgf/cm <sup>2</sup>
DPGO4LM3P0.25K	100	Lower mount	3/8PT	0~250kgf/cm <sup>2</sup>
DPGO4LM3P0.35K	100	Lower mount	3/8PT	0~350kgf/cm <sup>2</sup>
DPGO4LM3P1K	100	Lower mount	3/8PT	0~1,000kgf/cm <sup>2</sup>
DPGO4LM3P0.15K-M	100	Max. Indicating pointer	3/8PT	0~150kgf/cm <sup>2</sup>
DPGO4LM3P0.1K-M	100	Max. Indicating pointer	3/8PT	0~100kgf/cm <sup>2</sup>
DPGO4LM3P0.25K-M	100	Max. Indicating pointer	3/8PT	0~250kgf/cm <sup>2</sup>
DPGO4LM3P0.35K-M	100	Max. Indicating pointer	3/8PT	0~350kgf/cm <sup>2</sup>
DPGO4LM3P0.5K-M	100	Max. Indicating pointer	3/8PT	0~500kgf/cm <sup>2</sup>
DPGO4LM3P0.7K-M	100	Max. Indicating pointer	3/8PT	0~700kgf/cm <sup>2</sup>
DPGO4LM3P1K-M	100	Max. Indicating pointer	3/8PT	0~1,000kgf/cm <sup>2</sup>
DPGO6LMBF4N30P	100	Lower mount with back fringe	1/2NPT	0~30,000psi

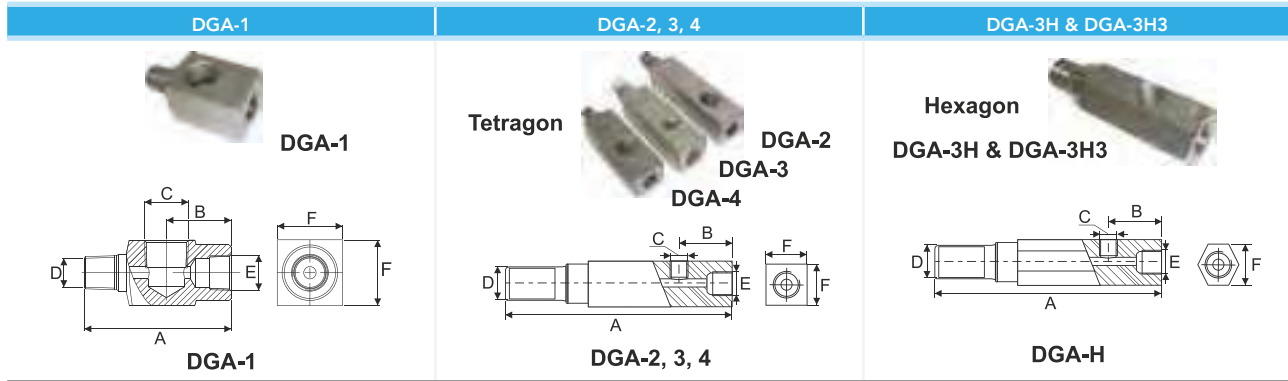
# DGA SERIES

## Gauge Accessories

- Easy mounting of pressure gauge into hydraulic system
- Male end screw into pump or cylinder port, female end accepts hose or coupler, third port is for gauge connection.

### Gauge Accessory

Maximum Operating Pressure **700 bar**



Model Number	Gauge port C (NPTF)	Male end D (NPTF)	Female end E (NPTF)	Dimensions (mm)					
				A	B	C	D	E	F
<b>DGA-1</b>	1/2	3/8	3/8	71	31	1/2NPTF	3/8NPTF	3/8NPTF	32
<b>DGA-2</b>	1/2	3/8	3/8	155	35	1/2NPTF	3/8NPTF	3/8NPTF	32
<b>DGA-3</b>	1/4	3/8	3/8	133	48	1/4NPTF	3/8NPTF	3/8NPTF	32
<b>DGA-4</b>	1/2	1/4	3/8	111	35	1/2NPTF	1/4NPTF	3/8NPTF	32
<b>DGA-3H</b>	1/4	3/8	3/8	90	28	1/4NPTF	3/8NPTF	3/8NPTF	26H
<b>DGA-452</b>	1/4	1/4	1/4	50	—	1/4NPTF	1/4NPTF	1/4NPTF	38
<b>DGA-453</b>	1/4	3/8	3/8	50	—	1/4NPTF	3/8NPTF	3/8NPTF	38

# DO

## Hydraulic Oil



### High wear-resisting Hydraulic oil (Lower temperature area use) GF10

- Main ingredients is composed by high quality basic oil and additive.
- Include HL hydraulic oil (fit in with DIN51525 or 51524 standard.)
- Include additive which can resisting combustion, rust and wear.
- It also reduce low load pump damage as continuous using which become sticky to result air foam.
- Main application as hydraulic control and/or power transit system and machine.

### High grade Hydraulic oil AW22/ 32/ 46/ 68/ 100/ 150

- Include special additive that prevent combustion, air foam and increase oil life and protect machine.
- High sticky which used in most application. Additive which can resisting combustion, rust and wear.
- Easy separate oil and water that can increase machine life.
- Use in all application such as industry hydraulic machine, injection machine and mid/ high pressure large hydraulic presses machine.

Model Number	DOW22-4L DOW22-5L	DOW32-4L DOW32-5L	DOW46-4L DOW46-5L	DOW68-4L DOW68-5L
ISO	22	32	46	68
Gravity, SPGR g/ml	0.868	0.872	0.874	0.879
40°C Viscosity SUS	22.2	32.1	46.7	68.9
100°C Viscosity SUS	4.4	5.5	6.9	9.0
Viscosity Index	107	107	103	105
Flash Point.°C	200	205	216	221
Pour Point.°C	-26	-22	-24	-26

Model Number	DOG10-4L DOG10-5L
ISO - H-LP	10
Gravity, SPGR 15°C g/ml	0.855
0°C Viscosity SUS	50
40°C Viscosity SUS	10
100°C Viscosity SUS	2.8
Viscosity Index	98
Flash Point.°C	160
Pour Point.°C	-39

# DIP SERIES

## Hydraulic Presses with Imperial Dimension

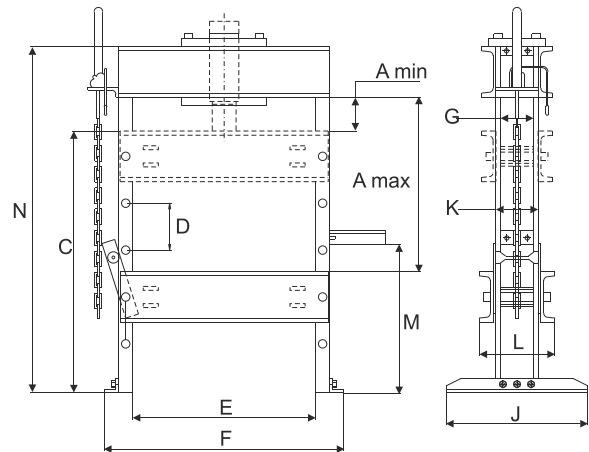
- High strength structure and durable.
- Hydraulic-life bed for effortless adjustment in the vertical direction. (10 ton models are manual)
- Multi-selection for power source, such as manual, pneumatic and electric.
- Gauges and V-Blocks are included on all models. (Capacity 10 ton series is not equipped with V-Block)



### DIP Series

Capacity	10-200 ton
Maximum Daylight & Width	1384 * 1219 mm
Maximum Operating Pressure	700 bar

Pump Model	Motor	Oil cap.
DIP-10E	0.5hp, 115V/ 220V, 50/60Hz, 1ph	3000c.c
DIP-256E	0.5hp, 115V/ 220V, 50/60Hz, 1ph	3000c.c
DIP-2514E	1hp, 115V/ 220V, 50/60Hz, 1ph	3000c.c
DIP-30E	1hp, 115V/ 220V, 50/60Hz, 1ph	3000c.c
DIP-506E	0.5hp, 115V/ 220V, 50/60Hz, 1ph	3000c.c
DIP-5013E	2hp, 115V/ 220V, 50/60Hz, 1ph	5gal.
DIP-100E	2hp, 115V/ 220V, 50/60Hz, 3ph	5gal.
DIP-150E	2hp, 115V/ 220V, 50/60Hz, 3ph	5gal.
DIP-200E	3hp, 115V/ 220V, 50/60Hz, 3ph	5gal.



Press Model Number	Cap. (tons)	Cylinder Model No.	Pump	H-Frame Press Dimensions (mm)											
				Vertical Daylight		C	D	E	F	G	J	K	L	M	N
				A (max)	A (min)										
DIP-DC1010	10 (101)	DC-1010	H	1016	62	1187	127	473	632	—	756	108	189	889	1321
DIP-DD1010		A	E												
DIP-DC256	25 (232)	DC-256	H	1384	178	1448	302	737	1029	102	762	133	272	673	1930
DIP-DC2514		A	E												
DIP-DC308	30 (295)	DC-308	H	1384	178	1448	302	737	1029	102	762	133	272	673	1930
DIP-DD3014		A	E												
DIP-DC506	50 (498)	DC-506	H	1233	179	1372	264	730	1086	127	914	184	365	781	1930
DIP-DC5013		A	E												
DIP-DD5013		E													
DIP-DC10010	100 (933)	DC-10010	H	1080	178	1295	297	889	1295	171	914	222	441	842	1930
DIP-DD1006		A	E												
DIP-DD10013		E													
DIP-DD15013	150 (1386)	DD-15013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2286
DIP-DD20013	200 (1995)	DD-20013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2886

H: Hand Pumps    A: Air Hydraulic Pumps    E: Electric Pumps

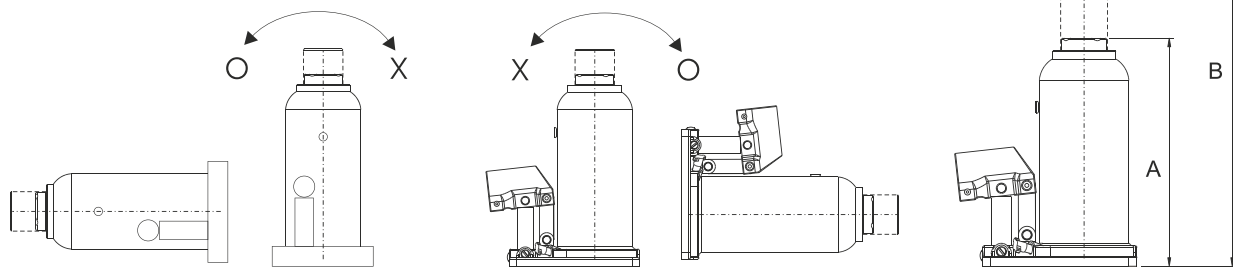
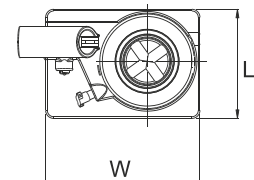
# DBJ

## Manual Hydraulic Bottle Jack

- Carbon steel base with automatic welding makes stable quality.
- Alloy steel plunger with chrome plated.
- Easy to use, carry & extensive applications.



DBJ-Series



DBJ-50A(SG)



DBJ-20A(SG)

### Optional Features

To add optional features to your jack, add the follow suffixes to the end of the model number.

**Hydraulic Pressure Gauge: (SG)**



#### Example:

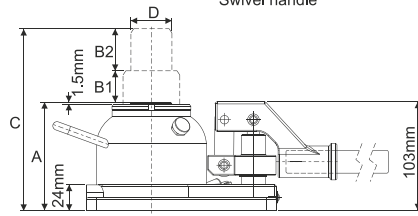
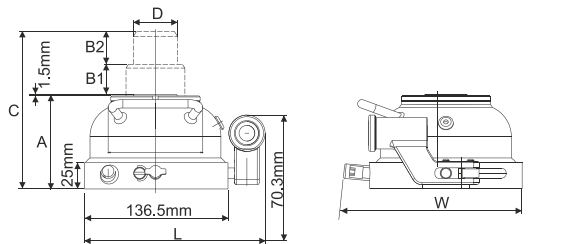
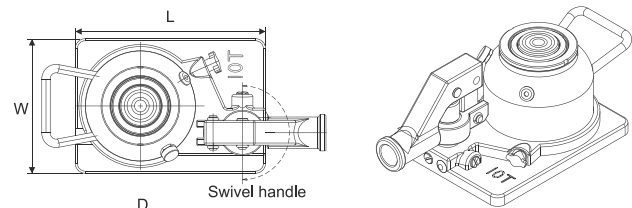
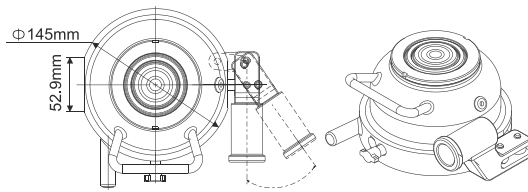
DBJ-20A with hydraulic pressure gauge, order: DBJ-20A(SG), Technical specifications for these features are available from DURAJACK.

Model Number	Capacity (ton)	Stroke (mm)	Min. Height A (mm)	Ext. Height B (mm)	Plunger Diam. J (mm)	Base Dimensions L x W (mm)	Auxiliary Height (mm)	Weight (kg)
DBJ-05	5	137	204.0	341.0	30	90 X 110	56	3.5
DBJ-10A	10	134	238.5	372.5	42	105 X 166	85	8.2
DBJ-10B		80	169.0	249.0	42	105 X 166	55	6.4
DBJ-20A	20	150	267.5	417.5	55	128 X 181	85	13.3
DBJ-20B		80	187.5	267.5	55	128 X 181	55	10.0
DBJ-30A	30	154	283.0	437.0	62	141 X 197	N / A	19.6
DBJ-30B		75	183.0	258.0	62	141 X 197	N / A	13.8
DBJ-50A	50	150	305.0	455.0	85	200 X 257	N / A	42.3

## DTJ

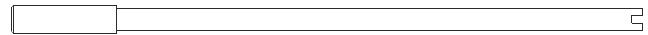
### Two-stage-Telescopic Jack

- Carbon steel base with automatic welding makes stable quality.
- Alloy steel plunger with chrome plated.
- Easy to use, carry & extensive applications.
- With long travel from low position.



Connection handle

DTJ-10S-2



Integral handle

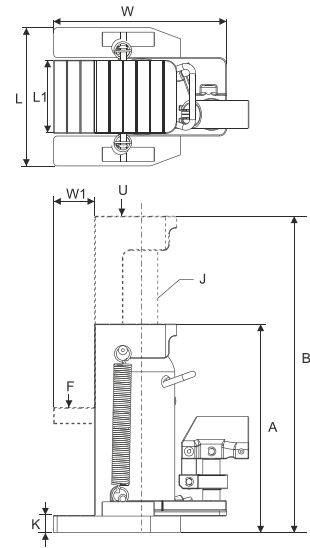
DTJ-10-2

Model Number	Capacity (ton)	Stroke (mm)	Min. Ht. A (mm)	Stage Ht. (mm)		Ext. Height C (mm)	Top plunger Diam. D (mm)	Base Dimensions L x W (mm)	Handle tube (mm)	Weight (kg)
				B1	B2					
DTJ-10S-2	10	60	90	28.5	30	150	42	171.81 X 170	Ø21.7*425/connection handle	6.8
DTJ-10-2	10	70	102	31.5	40	172	39	181 X 128	Ø21.7*600/integral handle	7.0

# DTL

## Manual Hydraulic Bottle Jack with Toe-Lift

- Carbon steel base with automatic welding makes stable quality.
- Chrome plated plunger resists corrosion and extends life.
- For heavy equipment lifting or check level with minimum available access.



DTL-2.5E



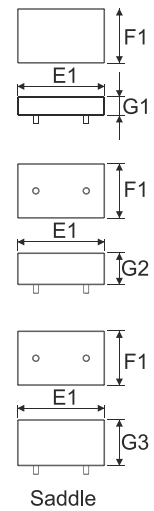
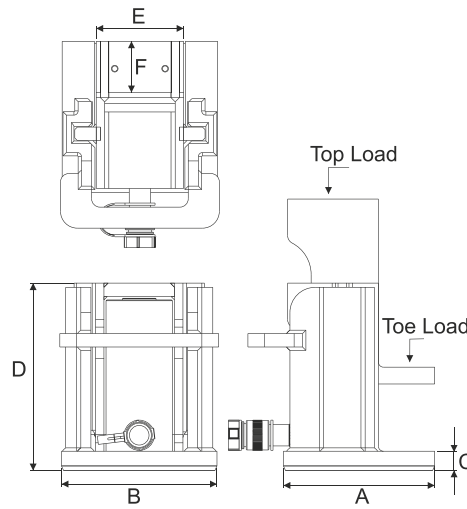
DTL-5E

Model Number	Top Cap. U (ton)	Toe-Lift Cap. F (ton)	Stroke (mm)	Coll Height A (mm)	Ext. Height B (mm)	Plunger Dia. J (mm)	Base Dimensions L x W (mm)	Height K (mm)	Toe-Lift Base L1 x W1 (mm)	Weight (kg)
DTL-2.5E	5	2.5	110	230	340	32	152 x 200.5	16	78 x 47	8.5
DTL-5E	10	5.0	135	277	412	42	185 x 235	22	98 x 55	20.0
DTL-10E	20	10.0	150	317	467	55	220 x 240	25	132 x 48	31.5
DTL-15E	30	15.0	150	335	486	62	265 x 272	28	149 x 60	44.0
DTL-25E	50	25.0	150	370	520	85	340 x 354	40	190 x 75	88.5



# DL SERIES

## Hydraulic Toe-Lifting Cylinder

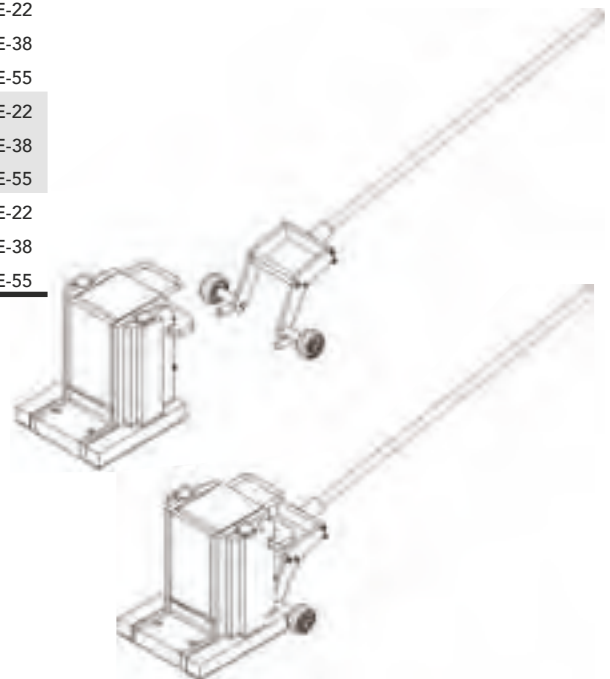
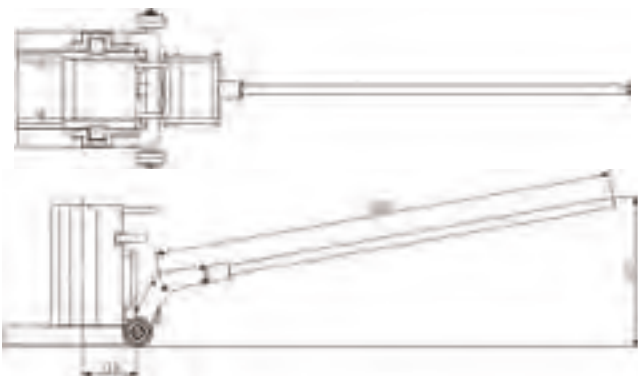


Model Number	Cylinder Model	Top Cap.	Toe Cap.	Stroke (mm)	Base L		Base H	Close H	Toe W	Toe L	Weight (kg)
		Ton (kN)	Ton (kN)		A (mm)	B (mm)					
DL-2.5E	DS-103	10 (101)	5 (50)	75	150	155	19	185	82	51	14.0
DL-5E	DS-104	10 (101)	5 (50)	100	150	155	19	210	82	51	15.0
DL-10E	DS-204	20 (198)	10 (100)	100	180	185	23	223	104	57	25.0
DL-15E	DS-305	30 (294)	20 (200)	125	238	220	33	272	134	100	45.0
DL-30E	DS-505	50 (498)	30 (300)	125	268	250	43	307	164	100	52.0

Model Number	Saddle Dimension			Weight (kg)	Saddle Model No.
	E1 (mm)	F1 (mm)	G (mm)		
DL-2.5E	82	48	G1 22	3.5	XKDL2-5E-22
			G2 38		XKDL2-5E-38
			G3 55		XKDL2-5E-55
DL-5E	82	48	G1 22	3.5	XKDL5E-22
			G2 38		XKDL5E-38
			G3 55		XKDL5E-55
DL-10E	104	65	G1 22	6.1	XKDL10E-22
			G2 38		XKDL10E-38
			G3 55		XKDL10E-55
DL-15E	134	98	G1 22	12	XKDL15E-22
			G2 38		XKDL15E-38
			G3 55		XKDL15E-55
DL-30E	164	98	G1 22	14.5	XKDL30E-22
			G2 38		XKDL30E-38
			G3 55		XKDL30E-55

### Optional

Auxiliary cart applicable to models DL-15E and above.



# D

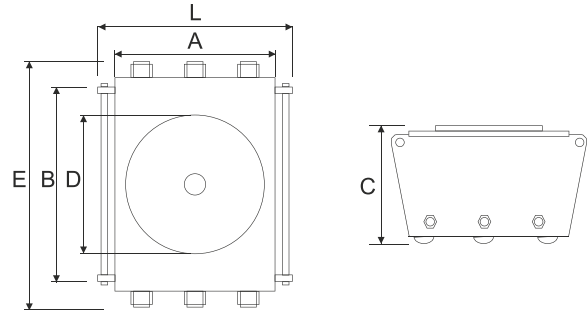
## Roller Skate with Turn Table

- Easy working in narrow space.
- 360° degrees rotations.



Load Table

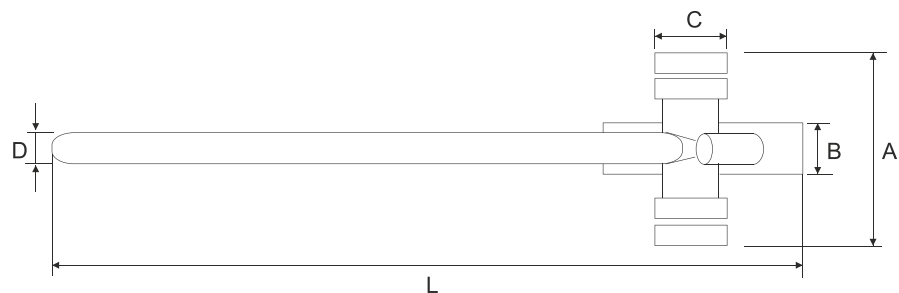
D-4 S Fixed Load Table  
D-4 ST Rolling Load Table



Model Number	Capacity (ton)	Style	Dimension (mm)						Weight (kg)
			A	B	C	D	E	L	
D-4S	6	Pu 4wheel	170	198	110	150	218	287	15
D-4ST	6	Pu 4wheel	170	198	110	150	218	287	15
D-6S	8	Pu 6wheel	265	198	110	150	218	287	21
D-6ST	8	Pu 6wheel	265	198	110	150	218	287	21
D-8S	12	Pu 8wheel	360	198	110	150	222	477	28
D-8ST	12	Pu 8wheel	360	198	110	150	222	477	28

# DJO

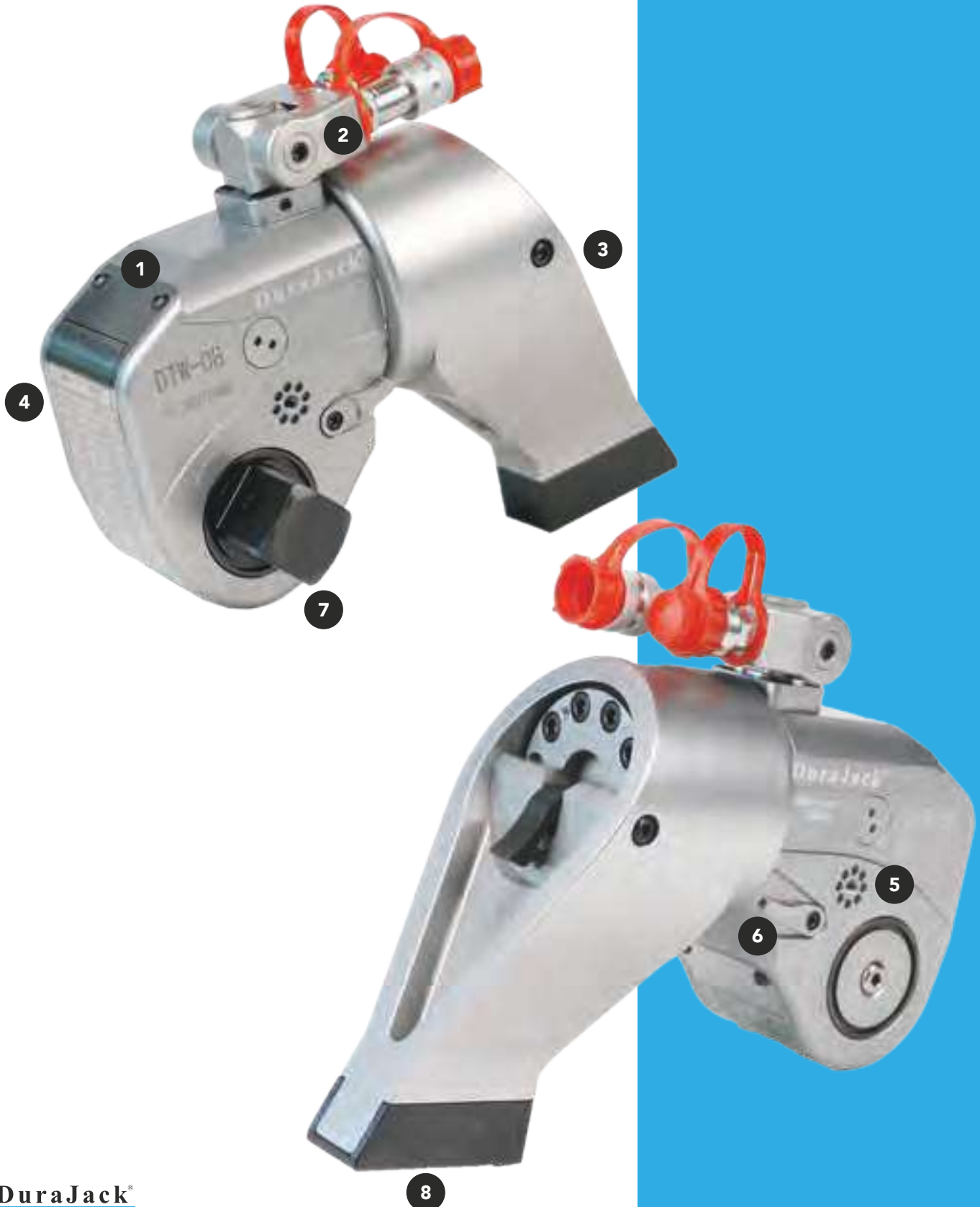
## Bearing wrecking bar



Model Number	Capacity (ton)	Dimension (mm)					Weight (kg)
		A	B	C	D	L	
DJO-3	3	150	65	62	34	1430	6.8
DJO-5	5	165	75	72	38	1580	12.0

# DTW SERIES

## Square Drive Hydraulic Torque Wrench



Durajack DTW Series standard hydraulic wrenches offer extremely high torquing power. There are ten models to choose from.

### 1 Aluminium & Titanium Alloy

High durable strength body, lightweight housing to achieve top-grade quality resulting in proficient torque to weight ratio performance. Housing is equipped with multiple docking points for installation of support handle.

### 2 Multi-axis swivel

Designed with multi-directional articulation, the swivel offers enhanced flexibility and smoother hose positioning compared to conventional single-axis designs.

### 3 Fine-tuned reaction arm

Creates good arm positioning on any fixed fulcrum, preventing any drop hazard.

### 4 Spring-loaded shroud

Dissipate operational forces and absorb impact upon usage.

### 5 Tapped handle security point

Built-in threaded mounting point for secure handle attachment.

### 6 Safety pawl

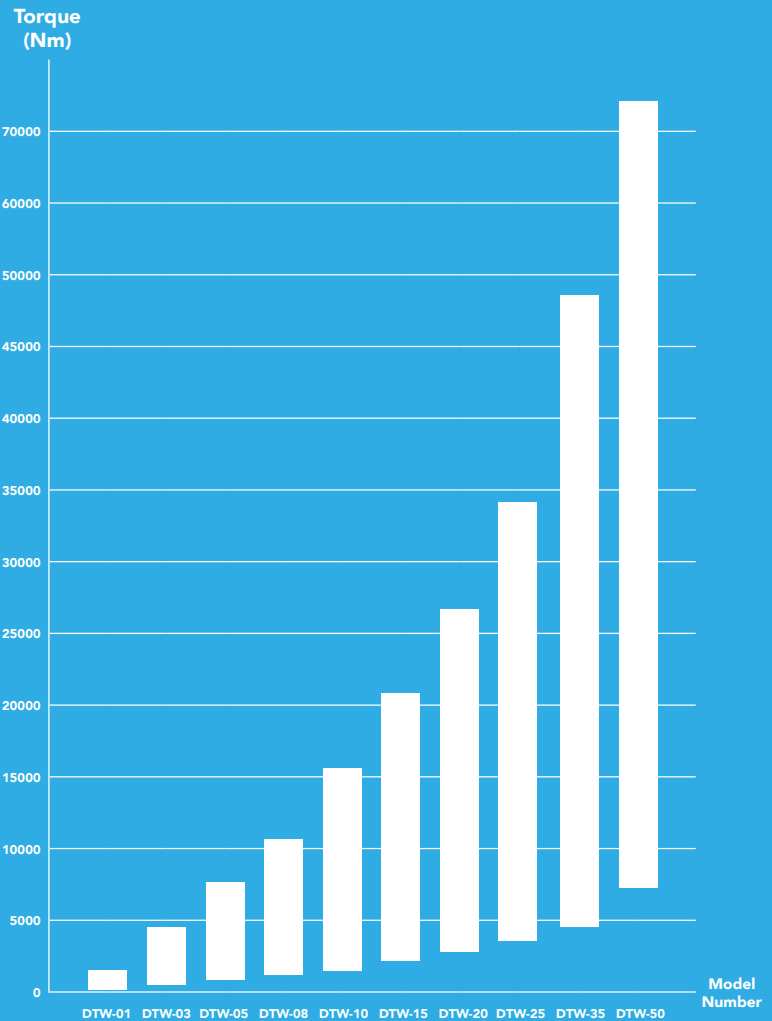
Improves operational efficiency while minimizing manual intervention from the operator.

### 7 Splined square drive

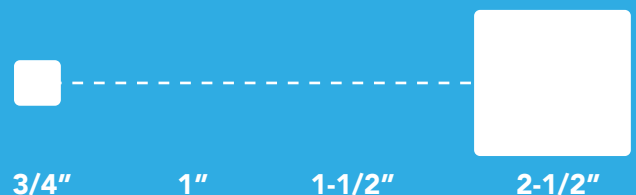
The splined square drive system ensures uniform load distribution across internal components, enabling reliable heavy-duty torque transfer. Direct hex drives and hex adaptors are available as optional configurations.

### 8 High strength steel boot

Supplied as standard with a durable high-strength steel reaction arm boot.



### Square Drive Sizes



## DTW SERIES

### Square Drive Hydraulic Torque Wrench

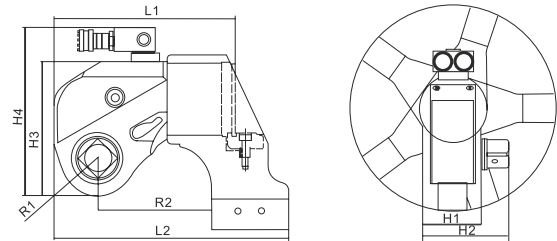
- Max working pressure up to 700 bar, accuracy up to  $\pm 3\%$ .
- A total of ten models from 112-72000Nm, the most complete models and widest coverage of bolts in the market.
- Multi-Axis swivel provides greater range of movement, to allow better positioning of hose to move.
- Square driver connects with high strength sockets, bolts used for a wide range of applications.
- The trigger type lock can place the 360° fine-tuning type reaction arm on any fixed fulcrum.
- Aluminium and titanium alloy forming body, high strength, high toughness.
- New type anti-loose joints to ensure the oil flows smoothly.



**DTW-08**



**DTW-03**



**DTW-10**

Model	Torque Range (N.m)	Weight (kg)	L1	L2	H1	H2	H3	H4	R1	R2	Square Drive
DTW-01	183-1837	2	130	182	50	72	99	144	26	99	3/4"
DTW-03	451-4512	4	166	241	68	95	130	176	34	134	1"
DTW-05	752-7528	7	198	281	80	123	155	198	39	152	1-1/2"
DTW-08	1078-10780	9.1	213	308	90	130	171	216	47	171	1-1/2"
DTW-10	1551-15516	13.1	231	336	100	141	187	230	51	174	1-1/2"
DTW-15	2062-20627	18	270	400	110	179	201	244	55	195	2-1/2"
DTW-20	2666-26664	25	295	443	120	182	228	268	59	250	2-1/2"
DTW-25	3472-34725	31	314	464	137	200	255	295	67	251	2-1/2"
DTW-35	4866-48666	45	355	489	153	217	290	330	79	271	2-1/2"
DTW-50	7200-72000	85	386	516	161	223	307	352	81	259	2-1/2"

Notes: all kinds of special specifications of drive shafts, drive wheels and reaction arms can be customized.

# SOCKETS







Impact Sockets - Metric (for DTW)				
Socket Size Metric	3/4" Drive Order No.	1" Drive Order No.	1 - 1/2" Drive Order No.	2 - 1/2" Drive Order No.
22mm	DWSMA022	-	-	-
24mm	DWSMA024	-	-	-
27mm	DWSMA027	-	-	-
30mm	DWSMA030	DWSMB030	-	-
32mm	DWSMA032	DWSMB032	-	-
34mm	DWSMA034	DWSMB034	-	-
36mm	DWSMA036	DWSMB036	DWSMC036	-
41mm	DWSMA041	DWSMB041	DWSMC041	-
46mm	DWSMA046	DWSMB046	DWSMC046	-
50mm	DWSMA050	DWSMB050	DWSMC050	-
55mm	DWSMA055	DWSMB055	DWSMC055	DWSMD055
60mm	-	DWSMB060	DWSMC060	DWSMD060
65mm	-	DWSMB065	DWSMC065	DWSMD065
70mm	-	DWSMB070	DWSMC070	DWSMD070
75mm	-	DWSMB075	DWSMC075	DWSMD075
80mm	-	-	DWSMC080	DWSMD080
85mm	-	-	DWSMC085	DWSMD085
90mm	-	-	DWSMC090	DWSMD090
95mm	-	-	DWSMC095	DWSMD095
100mm	-	-	DWSMC100	DWSMD100
105mm	-	-	DWSMC105	DWSMD105
110mm	-	-	DWSMC110	DWSMD110
115mm	-	-	DWSMC115	DWSMD115
120mm	-	-	DWSMC120	DWSMD120
130mm	-	-	DWSMC130	DWSMD130
135mm	-	-	-	DWSMD135
145mm	-	-	-	DWSMD145
150mm	-	-	-	DWSMD150
155mm	-	-	-	DWSMD155
165mm	-	-	-	DWSMD165
170mm	-	-	-	DWSMD170
175mm	-	-	-	DWSMD175

# TWIN HOSES



Standard Twin-line Hoses (4:1 Burst)	
Order No.	Description
<b>0208TWIN-3M</b>	3 meter twin-line hose
<b>0208TWIN-6M</b>	6 meter twin-line hose
<b>0208TWIN-10M</b>	10 meter twin-line hose

Additional lengths (all styles) available upon request.

<b>102304100</b>		Metal Dust Cover for male coupler
<b>102304101</b>		Metal Dust Cover for female coupler
<b>(male) 102306402</b>		Quick-connect, screw-on male nipple. Used on 700 bar torque wrenches, nutsplitters, hoses, and pumps. 1/4" NPT Female Thread
<b>(female) 102301452</b>		Quick-connect, screw-on female coupling. Used on 700 bar torque wrenches, nutsplitters, hoses, and pumps. 1/4" NPT Male Thread

# DLW SERIES

## Low Profile Hydraulic Torque Wrench



Durajack DLW Series Low Profile Hydraulic Torque Wrenches eliminate problems with tight clearances.

### 1 Multi-axis swivel

Engineered with multi-directional movement, the swivel delivers superior flexibility and allows the hose to position more freely.

### 2 Aluminium & Titanium Alloy

High durable strength body, lightweight housing to achieve top-grade quality resulting in proficient torque to weight ratio performance.

### 3 Safety pawl

Optimizes operating speed and minimizes the need for manual operator involvement.

### 4 Automatic engagement

The powerhead automatically connects to the direct-fit ratchet link, ensuring seamless and efficient engagement.

### 5 High strength steel alloy

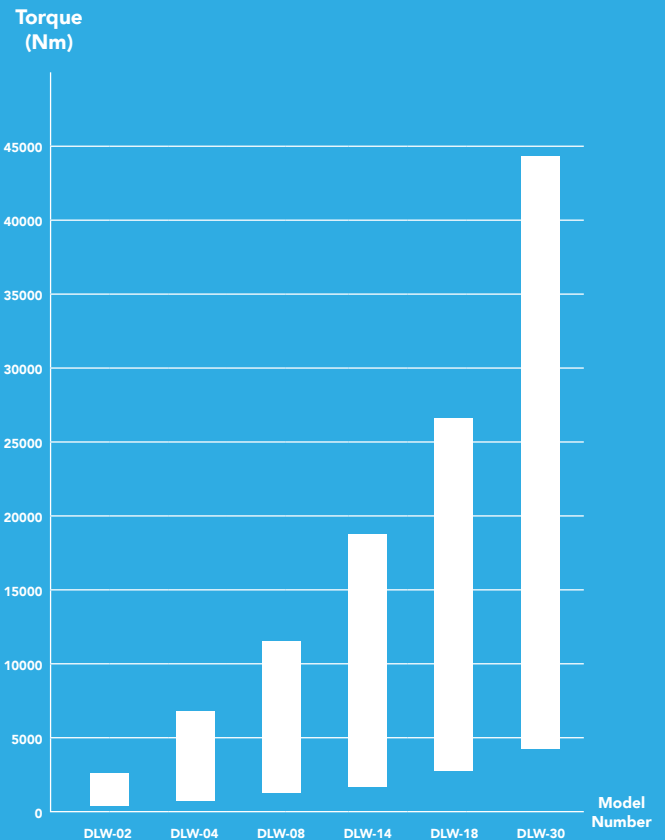
Extended life span of the tool.

### 6 Reaction options available

The in-line reaction pad is suitable for most standard applications. For specialized requirements, Durajack provides on-site reaction arms and Alco arms to expand reaction point capabilities.

### 7 Hex Range

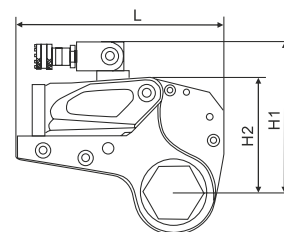
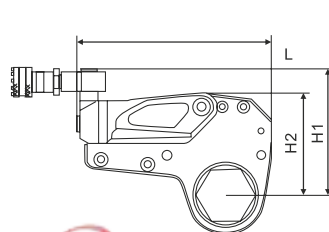
Extensive selection of hex sizes to accommodate huge variety of applications. Torque output remains consistent across all link sizes.



## DLW SERIES

### Low Profile Hydraulic Torque Wrench

- Max working pressure up to 700 bar, accuracy up to  $\pm 3\%$ .
- A total of six models from 232-44593Nm.
- $360^\circ \times 180^\circ$  and  $360^\circ \times 360^\circ$  rotation hose connectors optional, used without limited space.
- Integrated lengthen design, longer arm, reliability enhanced.
- Aluminium and titanium alloy forming body, high strength, high toughness.
- New type anti-loose joints to ensure the oil flows smoothly.
- Anti-stop pawl design can prevent the wrench ratchet from reversing, higher work efficiency and torque accuracy.
- Hollow design, wrench directly acts on the nut, more accurate torque and lighter.



**DLW04-50mm**



**DLW04-55mm**

**DLW04-60mm**

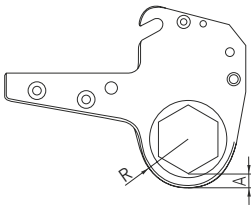
Model	Torque Range (N.m)	A/F (mm)	Drive Head Weight (kg)	Working Head Weight (kg)	L	H1	H2	W1	W2
DLW-02	232-2328	19-55	0.9	1.5	196	126	102	32	51
	242-2414	60	0.9	1.5	196	129	105	32	51
DLW-04	585-5858	34-65	1.7	3.4	258	163	136	42	66
	647-6474	70-80	1.7	3.4	263	173	146	42	66
DLW-08	1094-10941	41-95	3.0	6.3	300	192	168	53	83
	1177-11774	100-105	3.1	6.3	311	201	177	53	83
DLW-14	1852-18521	50-117	4.6	11.4	360	225	204	64	99
DLW-18	2695-26958	65-130	6.5	14.3	388	264	231	71	109
DLW-30	4188-41882	110-155	10.4	20.5	430	303	272	85	131
	4459-44593	160-175	10.4	20.5	441	315	285	85	131

Notes: all kinds of special specifications of drive shafts, drive wheels and reaction arms can be customized.

## DLW SERIES

### Low Profile Hydraulic Torque Wrench

- The DLW Series Hydraulic Wrench is the perfect tool for those low clearance applications which has inaccessible areas. Not only does it eliminate problems with tight clearances, its long neck with compact design and small radius will be able to achieve great success in bolting areas. With a combination of a drive body and a ratchet link to complete a set. Each tool are sold separately.



#### Adjustable casing

Adjustable casing cooperates with DLW series working head, so that a single working head can match multiple bolt size, which can greatly improve the adaptability of different conditions.

#### Standard working head selection table of hollow torque wrench

Bolt Dia. mm	A/F mm	DLW-02		DLW-04		DLW-08		DLW-14		DLW-18		DLW-30	
		R (mm)	A (mm)	R (mm)	A (mm)	R (mm)	A (mm)	R (mm)	A (mm)	R (mm)	A (mm)	R (mm)	A (mm)
12	19	27	16										
14	22	27	14										
18	27	27	11										
20	30	29	12										
	32	29	11										
22	34	31	11	36	16								
24	36	31	10	36	15								
27	41	34	10	39	15	50	26						
30	46	37	10	42	15	50	23						
33	50	40	11	44	15	50	21	66	37				
36	55	43	11	46	14	50	18	66	34				
39	60	46	11	50	15	55	20	66	31				
42	65			53	15	55	17	66	28	62	23		
45	70			56	15	60	20	66	25	65	23		
48	75			59	15	60	17	66	22	67	22		
52	80			61	15	66	19	66	19	70	22		
56	85					66	16	72	22	72	23		
60	90					71	19	72	20	74	22		
64	95					71	16	77	22	77	23	89	34
68	100					78	20	77	19	79	22	89	31
72	105					78	17	83	22	82	23	89	38
76	110							83	19	84	22	89	25
80	115							87	20	89	24	95	28
	117							87	19	89	23	95	27
85	120									92	23	95	25
	125									94	23	104	32
90	130									98	23	104	29
95	135											104	26
	140											110	29
100	145											110	26
105	150											116	29
110	155											116	26
	160											128	36
115	165											128	33
120	170											128	30
	175											128	27



# REDUCER

Drive Body, Links & Reducers

Body	Reference	Nut A/F	Reducer		Reducer		Reducer	
Order No.	Link No.	mm	mm	Order No.	mm	Order No.	mm	Order No.
DLW-02	DLW02-32MM	32	-	-	-	-	-	-
	DLW02-36MM	36	-	-	-	-	-	-
	DLW02-41MM	41	41-36	DLR02-041036	41-32	DLR02-041032	-	-
	DLW02-46MM	46	46-41	DLR02-046041	46-36	DLR02-046036	46-32	DLR02-046032
	DLW02-50MM	50	50-46	DLR02-050046	50-41	DLR02-050041	50-36	DLR02-050036
	DLW02-55MM	55	55-50	DLR02-055050	55-46	DLR02-055046	55-41	DLR02-055041
	DLW02-60MM	60	60-55	DLR02-060055	60-50	DLR02-060050	60-46	DLR02-060046
DLW-04	DLW04-36MM	36	36-34	DLR04-036034	36-32	DLR04-036032	-	-
	DLW04-41MM	41	41-36	DLR04-041036	41-34	DLR04-041034	41-32	DLR04-041032
	DLW04-46MM	46	46-41	DLR04-046041	46-36	DLR04-046036	46-34	DLR04-046034
	DLW04-50MM	50	50-46	DLR04-050046	50-41	DLR04-050041	50-36	DLR04-050036
	DLW04-55MM	55	55-50	DLR04-055050	55-46	DLR04-055046	55-41	DLR04-055041
	DLW04-60MM	60	60-55	DLR04-060055	60-50	DLR04-060050	60-46	DLR04-060046
	DLW04-65MM	65	65-60	DLR04-065060	65-55	DLR04-065055	65-50	DLR04-065050
	DLW04-70MM	70	70-65	DLR04-070065	70-60	DLR04-070060	70-55	DLR04-070055
	DLW04-75MM	75	75-70	DLR04-075070	75-65	DLR04-075065	75-60	DLR04-075060
	DLW04-80MM	80	80-75	DLR04-080075	80-70	DLR04-080070	80-65	DLR04-080065
DLW-08	DLW08-41MM	41	-	-	-	-	-	-
	DLW08-46MM	46	-	-	-	-	-	-
	DLW08-50MM	50	-	-	-	-	-	-
	DLW08-55MM	55	55-50	DLR08-055050	-	-	-	-
	DLW08-60MM	60	60-55	DLR08-060055	60-50	DLR08-060050	60-46	DLR08-060046
	DLW08-65MM	65	65-60	DLR08-065060	65-55	DLR08-065055	65-50	DLR08-065050
	DLW08-70MM	70	70-65	DLR08-070065	70-60	DLR08-070060	70-55	DLR08-070055
	DLW08-75MM	75	75-70	DLR08-075070	75-65	DLR08-075065	75-60	DLR08-075060
	DLW08-80MM	80	80-75	DLR08-080075	80-70	DLR08-080070	80-65	DLR08-080065
	DLW08-85MM	85	85-80	DLR08-085080	85-65	DLR08-085065	85-70	DLR08-085070
	DLW08-90MM	90	90-85	DLR08-090085	90-80	DLR08-090080	90-75	DLR08-090075
	DLW08-95MM	95	95-90	DLR08-095090	95-85	DLR08-095085	95-80	DLR08-095080
	DLW08-100MM	100	100-95	DLR08-100095	100-90	DLR08-100090	100-85	DLR08-100085
	DLW08-105MM	105	105-100	DLR08-105100	105-95	DLR08-105095	105-90	DLR08-105090



Body	Reference	Nut A/F	Reducer		Reducer		Reducer		
Order No.	Link No.	mm	mm	Order No.	mm	Order No.	mm	Order No.	
DLW-14	DLW14-60MM	60	-	-	-	-	-	-	
	DLW14-65MM	65	65-60	DLR14-065060	-	-	-	-	
	DLW14-70MM	70	70-65	DLR14-070065	70-60	DLR14-070060	-	-	
	DLW14-75MM	75	75-70	DLR14-075070	75-65	DLR14-075065	75-60	DLR14-075060	
	DLW14-80MM	80	80-75	DLR14-080075	80-70	DLR14-080070	80-65	DLR14-080065	
	DLW14-85MM	85	85-80	DLR14-085080	85-65	DLR14-085065	85-70	DLR14-085070	
	DLW14-90MM	90	90-85	DLR14-090085	90-80	DLR14-090080	90-75	DLR14-090075	
	DLW14-95MM	95	95-90	DLR14-095090	95-85	DLR14-095085	95-80	DLR14-095080	
	DLW14-100MM	100	100-95	DLR14-100095	100-90	DLR14-100090	100-85	DLR14-100085	
	DLW14-105MM	105	105-100	DLR14-105100	105-95	DLR14-105095	105-90	DLR14-105090	
	DLW14-110MM	110	110-105	DLR14-110105	110-100	DLR14-110100	110-95	DLR14-110095	
	DLW14-115MM	115	115-110	DLR14-115110	115-105	DLR14-115105	115-100	DLR14-115100	
	DLW14-117MM	117	117-115	DLR14-117115	117-110	DLR14-117110	117-105	DLR14-117105	
	DLW-18	DLW18-65MM	65	-	-	-	-	-	-
DLW18-70MM		70	70-65	DLR18-070065	-	-	-	-	
DLW18-75MM		75	75-70	DLR18-075070	75-65	DLR18-075065	-	-	
DLW18-80MM		80	80-75	DLR18-080075	80-70	DLR18-080070	80-65	DLR18-080065	
DLW18-85MM		85	85-80	DLR18-085080	85-75	DLR18-085065	85-70	DLR18-085070	
DLW18-90MM		90	90-85	DLR18-090085	90-80	DLR18-090080	90-75	DLR18-090075	
DLW18-95MM		95	95-90	DLR18-095090	95-85	DLR18-095085	95-80	DLR18-095080	
DLW18-100MM		100	100-95	DLR18-100095	100-90	DLR18-100090	100-85	DLR18-100085	
DLW18-105MM		105	105-100	DLR18-105100	105-95	DLR18-105095	105-90	DLR18-105090	
DLW18-110MM		110	110-105	DLR18-110105	110-100	DLR18-110100	110-95	DLR18-110095	
DLW18-115MM		115	115-110	DLR18-115110	115-105	DLR18-115105	115-100	DLR18-115100	
DLW18-117MM		117	117-115	DLR18-117115	117-110	DLR18-117110	117-105	DLR18-117105	
DLW18-120MM		120	120-115	DLR18-120115	120-110	DLR18-120110	120-105	DLR18-120105	
DLW18-125MM		125	125-120	DLR18-125120	125-115	DLR18-125115	125-110	DLR18-125110	
DLW18-130MM	130	130-125	DLR18-130125	130-120	DLR18-130120	130-115	DLR18-130115		
DLW-30	DLW30-95MM	95	95-90	DLR30-095090	95-85	DLR30-095085	95-80	DLR30-095080	
	DLW30-100MM	100	100-95	DLR30-100095	100-90	DLR30-100090	100-85	DLR30-100085	
	DLW30-105MM	105	105-100	DLR30-105100	105-95	DLR30-105095	105-90	DLR30-105090	
	DLW30-110MM	110	110-105	DLR30-110105	110-100	DLR30-110010	110-95	DLR30-110095	
	DLW30-115MM	115	115-110	DLR30-115110	115-105	DLR30-115015	115-100	DLR30-115100	
	DLW30-120MM	120	120-115	DLR30-120115	120-110	DLR30-120110	120-105	DLR30-120105	
	DLW30-130MM	130	130-120	DLR30-130120	130-115	DLR30-130115	130-110	DLR30-130110	
	DLW30-135MM	135	135-125	DLR30-135125	135-120	DLR30-135120	135-115	DLR30-135115	
	DLW30-145MM	145	AVAILABLE UPON REQUEST						
	DLW30-150MM	150							
	DLW30-155MM	155							
	DLW30-160MM	160							
	DLW30-165MM	165							
	DLW30-170MM	170							
DLW30-175MM	175								

## DPA SERIES

### Hydraulic Air Torque Wrench Pump

- Use where air is the preferred source of power.
- Max. Pressure: 700 bar
- Two speed high performance pump.
- External adjustable pressure regulator.
- Retract side internal relief valve protects tool.
- Four-tool manifold (-4 models only) allow usage of up to four tools simultaneously.
- Use for Hydraulic torque Wrench.
- Pneumatic remote control.

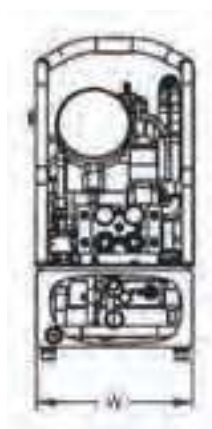
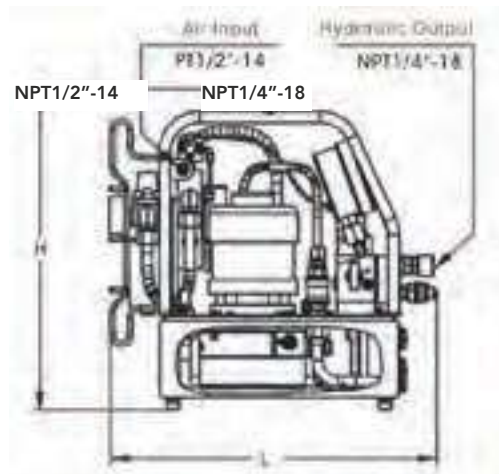


DPA-70

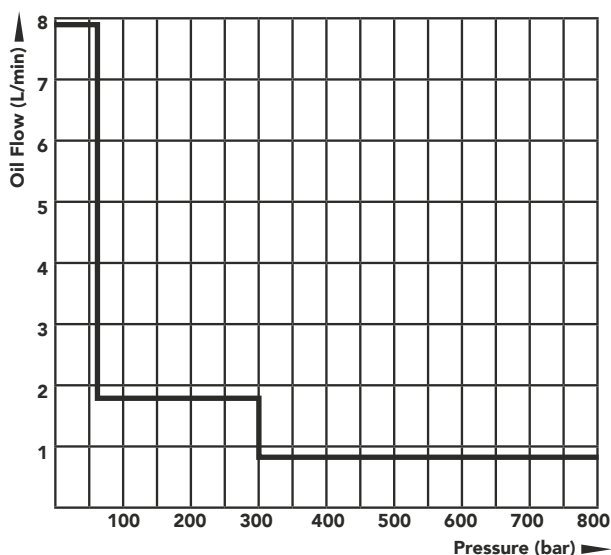
#### DPA Series

##### Hydraulic Air Torque Wrench Pump

Reservoir Capacity	5 L
Flow at rated pressure	0.85 L
Motor size	3 kW
Maximum Operating Pressure	700 bar



#### Oil Flow vs. Pressure



Model Number	Air Supply Req'd (bar)	Motor (hp)	Flow rate (L/min)				Oil tank (L)	Dimensions (L x W x H (mm))	Weight (kg)
			0 (bar)	70 (bar)	350 (bar)	700 (bar)			
DPA-70	4-8	4	8.0	1.8	0.9	0.9	5	490 x 229 x 500	22

# DPE554TWP-220-BS

## Hydraulic Electric/Torque Wrench Pump

- External adjustable pressure regulator.
- Retract side internal relief valve protects tool.
- DPE-554TQ series: just use with Hydraulic Torque Wrench.
- DPE-554TQJ series: just use with Hydraulic lift applications.
- Opt eight 1/4" ports (include female and male couplers with dust cap), that can synchronize work for 4 hydraulic wrench.
- It can be set automatic stop moving as motor idle running till 30 seconds and pressure release.
- Safety start: After stopping, need to press another start button to continue.
- Heat Exchanger Kit: Design air cooling to avoid pump overheating and costly repair from long work periods.

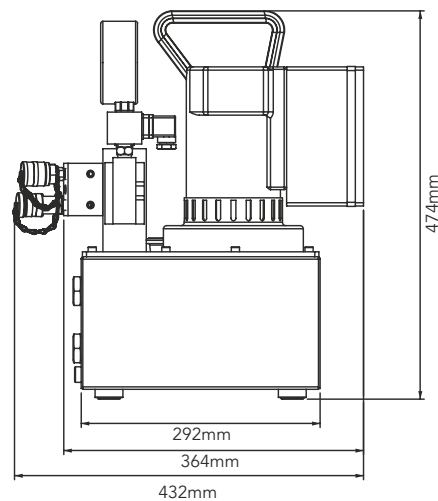
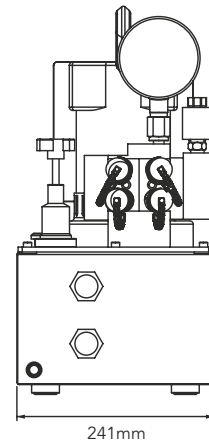


**DPE554TWP-220-BS**

### DPE554TWP-220-BS

Hydraulic Electric  
Torque Wrench Pump

Reservoir Capacity	8-20 L
Flow at rated pressure	0.9-11.3 L
Motor size	0.84 kW (1-1/8 hp)
Maximum Operating Pressure	700 bar



Model Number	Rpm	dBA at Idle and 700 bar	Motor kW (hp)	Amp at 700 bar	Flow rate @115VAC(L/min)				Oil tank (L)	Usable oil (L)	Weight (with oil) (kg)
					0 (bar)	50 (bar)	350 (bar)	700 (bar)			
DPE554TWP-220-BS	12000	80	0.84 (1-1/8)	25 /110V 13 /230V	11.3	7.1	1.2	0.9	8	7	32

# DTG SERIES

## Hydraulic Bolt Tensioners



### Hydraulic connections

Quick-release hydraulic couplings for easy dismantling.

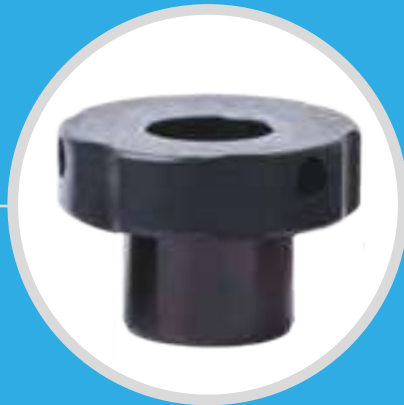


### Nut Rotating Socket (NRS)

Encircles the bolted joint nut, enabling smooth and effortless rotation during operation.

## Topside Tensioners for Several Applications in Multiple Industries

Durajack DTG range of topside bolt tensioning tools comprises 6 base tools covering bolt sizes from 3/4" to 4" (M20 to M100). The tools are designed to fit on to most ANSI B16.5, ANSI B16.47 Series 1, MSS-SP44, API-6A and API-17D flanges. Each base tool can be converted for use with different bolt sizes using a conversion kit.



### Threaded insert

Incorporates an internal female thread precisely matched to the bolt being tensioned.



### Reliable seals

Advanced sealing technology delivers long-term durability, supporting thousands of high-pressure operating cycles.



### Piston stroke

Provides a 15 mm piston/ram stroke capacity on models DTG 01 through DTG 06.

### Versatile

Interchangeable bridge component.

## DTG SERIES

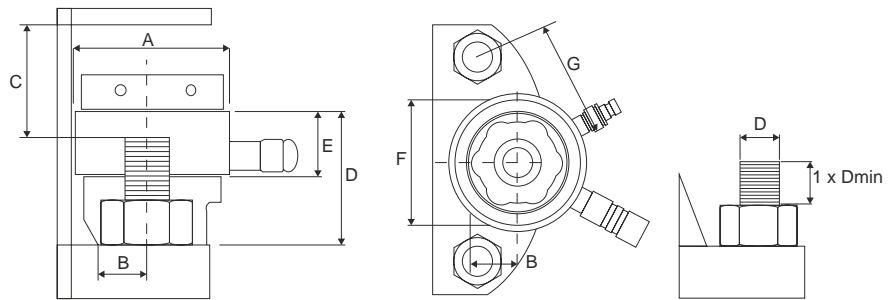
### Hydraulic Bolt Tensioners

- Light weight and compact structure suits operations in small space.
- Special steel body and advanced surface treatment with perfect rust and corrosion resistance.
- Strong versatility and high adaptability.
- Synchronous application available.
- Default maximum working pressure of 1,500 bar fits high pressure manual pump, high pressure pneumatic pump and high pressure electric pump.

### Hydraulic Bolt Tensioners

Interchangeable type  
Gravity restoration

Bolt range	<b>3/4" - 4" M20-M100</b>
Load Capacity	<b>228-2643 KN</b>
Stroke	<b>10-15 mm</b>
Maximum Operating Pressure	<b>1,500 bar</b>



### Optional Features



### Usage of hydraulic bolt tensioning pump and accessories

System to be paired in order to be functional for bolting services.

Load Cell Model Number	Adaptor Kit Model Number	Thread Size		Adaptor Kit Model Number	Bolt Load (kN)	Stroke (mm)
		(in)	(mm)			
DTG1	AK1-0750 U10	3/4"-1 OUNC	M20x2.5	AK1-M2025	227.81	10
	AK1-0875 U09	7/8"-9UNC	M22x2.5	AK1-M2225		
	AK1-1000 U08	1"-8UN	M24x3	AK1-M2430		
	AK1-1125 U08	1.1/8"-8UN	M27x3	AK1-M2730		
DTG2	AK2-1125 U08	1.1/8"-8UN	M27x3	AK2-M2730	1828.99	15
	AK2-1250 U08	1.1/4"-8UN	M30x3.5	AK2-M3035		
	AK2-1375 U08	1.3/8"-8UN	M33x3.5	AK2-M3335		
	AK2-1500 U08	1.1/2"-8UN	M36x4	AK2-M3640		
DTG3	AK3-1500 U08	1.1/2"-8UN	M39x4	AK3-M3940	443.00	15
	AK3-1625 U08	1.5/8"-8UN	M42x4.5	AK3-M4245		
	AK3-1750 U08	1.3/4"-8UN	M45x4.5	AK3-M4545		
	AK3-1875 U08	1.7/8"-8UN	M48x5	AK3-M4850		
DTG4	AK3-2000 U08	2"-8UN	M52x5	AK3-M5250	810.85	15
	AK4-1875 U08	1.7/8"-8UN	M48x5	AK4-M4850		
	AK4-2000 U08	2"-8UN	M52x5	AK4-M5250		
	AK4-2250 U08	2.1/4"-8UN	M56x5.5	AK4-M5655		
DTG5	AK4-2500 U08	2.1/2"-8UN	M60x5.5	AK4-M6055	1273.16	15
	AK5-2500 U08	2.1/2"-8UN	M64x6	AK4-M6460		
	AK5-2750 U08	2.3/4"-8UN	M68x6	AK5-M6860		
	AK5-3000 U08	3"-8UN	M72x6	AK5-M7260		
DTG6	AK5-3000 U08	3"-8UN	M76x6	AK5-M7660	2643.43	15
	AK6-3250 U08	3.1/4"-8UN	M80x6	AK6-M8060		
	AK6-3500 U08	3.1/2"-8UN	M85x6	AK6-M8560		
	AK6-3750 U08	3.3/4"-8UN	M90x6	AK6-M9060		
AK6-4000 U08	4"-8UN	M95x6	AK6-M9560	AK6-M10060		

### Ordering Example

Please select the adaptor kit with the load cell.

Example, to order a complete tensioner for a M20X25 threaded bolt order :

- Load cell: DTG1
- Adaptor kit: AK1-M2025

If you also want a stretch cylinder to fit a variety of bolt specifications, please select a variety of stretch heads according to the parameter list.

### Optional Hydraulic Components

These products operate at ultra-high pressure, use only the specified fitting and hoses designed for these pressure. For details, please refer to the section hydraulic components.

### Ultra-High Pressure Air Pump

Ultra-high pressure air pump can be selected.

Ram Area		A	B	C	D	E	F	G	Weight	Adaptor Kit Model Number	Load Cell Model Number
(in <sup>2</sup> )	(mm <sup>2</sup> )	(mm)							(kg)	Imperial	
2.354	1518.76	73.5	21.0	67.0	71.0	45	62	49.5	2.0	AK1-0750 U10	DTG1
			24.0	64.0	71.0		63	53	1.9	AK1-0875 U09	
			24.0	69.0	78.0		69	58.5	1.9	AK1-1000 U08	
			24.0	66.0	79.0		74	63.5	1.9	AK1-1125 U08	
4.578	2953.69	102	27.0	85.0	92.0	54	82	67.6	4.8	AK2-1125 U08	DTG2
			32.0	85.0	93.0		85	69	4.9		
			31.0	84.0	95.0		85	72	4.6	AK2-1250 U08	
			34.0	84.0	98.0		91	78	4.6	AK2-1375 U08	
8.379	5405.70	133	36.5	98.0	109.0	56	97	83.5	9.5	AK3-1500 U08	DTG3
			37.5	93.0	107.0		110	92.5	9.0	AK3-1625 U08	
			40.5	98.5	116.0		115	98	9.3	AK3-1750 U08	
			42.5	95.0	116.0		116	101	9.0	AK3-1875 U08	
13.159	8489.96	163	50.0	93.5	117.0	57	120	106	8.6	AK3-2000 U08	DTG4
			43.5	106.0	118.0		130	108	16.1	AK4-1875 U08	
			46.0	102.5	117.0		124	108	15.7	AK4-2000 U08	
			55.0	103.0	123.0		134	118.5	15.8	AK4-2250 U08	
18.905	12196.45	193	54.0	121.5	145.5	60	150	127	18.3		DTG5
			58.0	102.5	130.0		147	130.5	15.1	AK4-2500 U08	
			64.0	107.5	133.0		147	130.5	22.7	AK5-2500 U08	
			80.0	111.0	141.0		160	138	23.6		
27.323	17627.48	233	72.0	115.0	147.0	64	161	143	24.7	AK5-2750 U08	DTG6
			77.0	108.0	146.0		170	153	22.2	AK5-3000 U08	
			77.0	120.0	153.0		170	153	38.5	AK5-3000 U08	
			78.0	117.0	154.0		178	155.5	38.3		
			78.0	114.0	154.0		182	165.5	38.1	AK6-3250 U08	
			86.0	114.0	160.0		191	174.5	37.0	AK6-3500 U08	
			99.0	116.0	168.0		210	183.5	37.0	AK6-3750 U08	
			105.0	116.0	174.0		220	200	36.4	AK6-4000 U08	

# SM9T

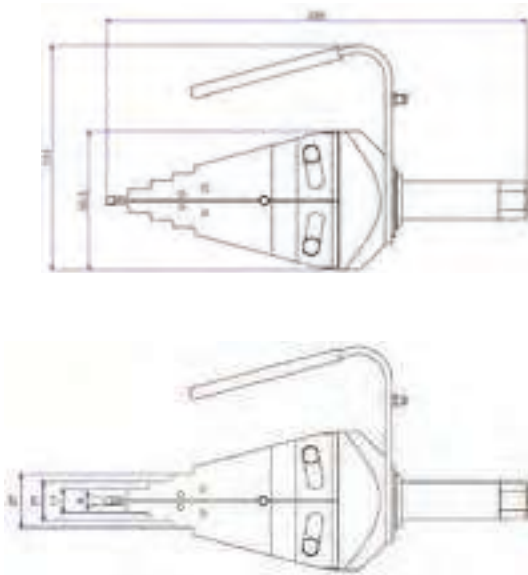
## Hydraulic Fixed Flange and Rotational Leveling Tool

- Integrated wedge concept ensures friction-free, smooth, and parallel wedge movement, preventing flange damage and spreading arm failure.
- Unique interlocking wedge design eliminates first-step bending and reduces the risk of slipping out of the joint.
- Minimal access gap required, needing only 6 mm (0.24 in) for operation.
- Fewer moving parts provide enhanced durability and low maintenance requirements.

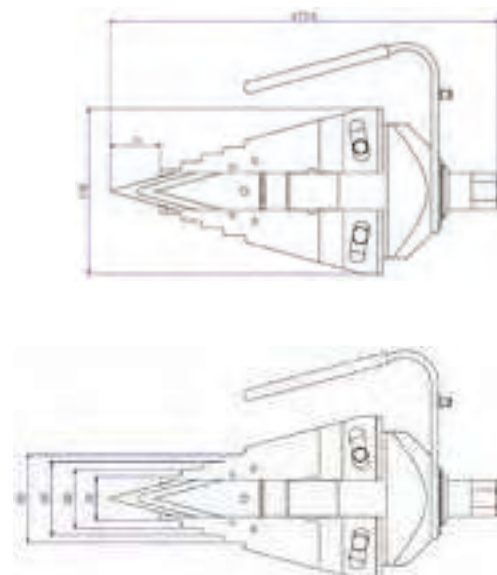


**SM9TM**

**TOOL DIMENSIONS - CLOSED**



**TOOL DIMENSIONS - OPEN**



**SAFETY BLOCK (PART NO. B1095) DIMENSIONS**



Model Number	Max. Spread Force	Tip Clearance	Max. Spread	Weight
<b>SM9T</b>	9.4 ton (94kN)	6mm	81mm	7.3kg
<b>SM9TM</b>	8 ton (72kN)	6mm	81mm	7.3kg

Notes: SM9T pack with carton box. SM9TM pack with molding case.

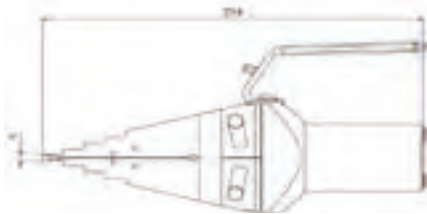
# SH15T

## Hydraulic Flange Spreader Wedge Single Kit

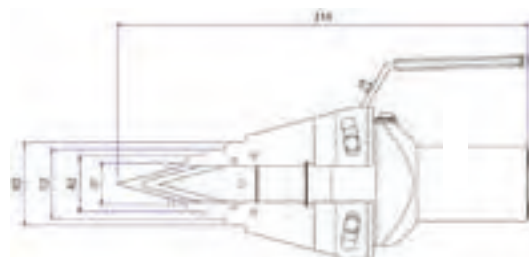
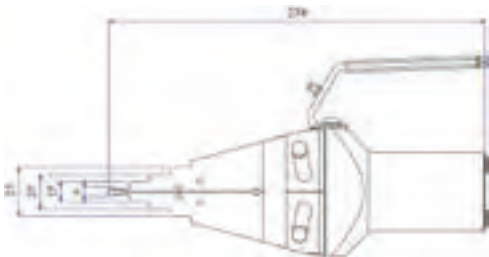
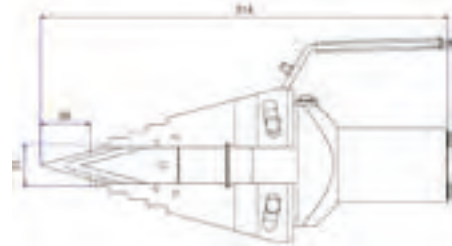
- Integrated wedge concept allows friction-free, smooth, and parallel wedge movement, eliminating flange damage and spreading arm failure.
- Unique interlocking wedge design prevents first-step bending and removes the risk of slipping out of the joint.
- Minimal access gap required, with operation possible from just 6 mm (0.24 in).
- Fewer moving parts ensure high durability and low maintenance.
- Compatible with any hydraulic pump rated for an oil pressure of 700 bar.



TOOL DIMENSIONS - CLOSED



TOOL DIMENSIONS - OPEN



SAFETY BLOCK (PART NO. B1095) DIMENSIONS



Model Number	Max. Spread Force	Tip Clearance	Max. Spread	Oil Capacity	Weight
<b>SH15T</b>	15.5 ton (155kN)	6mm	81mm	80cm <sup>3</sup>	7.5kg
<b>SH15TM</b>	15.5 ton (155kN)	6mm	81mm	80cm <sup>3</sup>	7.5kg

Notes: SH15T pack with carton box. SH15TM pack with molding case.

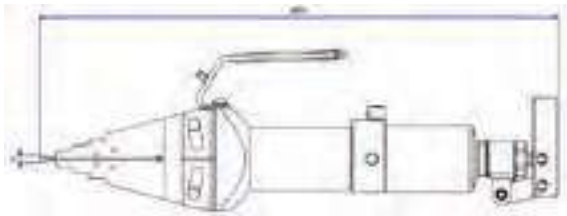
# SH15TC

## Integral Hydraulic Flange Spreader Wedge

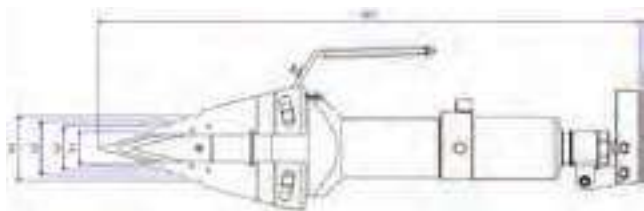
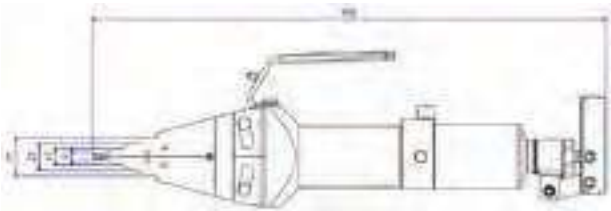
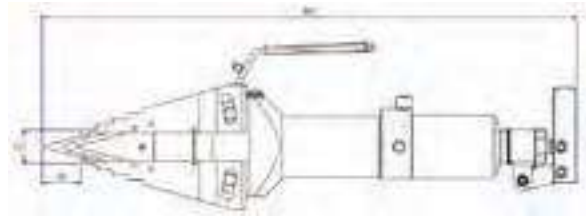
- Friction-free integrated wedge design allows smooth, parallel movement, preventing flange damage and spreading arm failure.
- Interlocking wedge construction eliminates first-step bending and minimizes the risk of slipping out of the joint.
- Operates with a minimal access gap of just 6 mm (0.24 in).
- A simple mechanism with few moving parts ensures high durability and low maintenance.



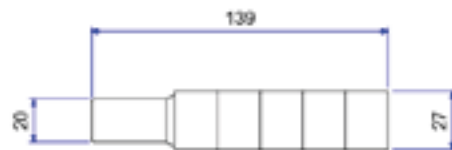
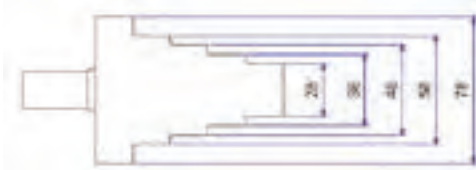
TOOL DIMENSIONS - CLOSED



TOOL DIMENSIONS - OPEN



SAFETY BLOCK (PART NO. B1095) DIMENSIONS



Model Number	Max. Spread Force	Tip Clearance	Max. Spread	Oil Capacity	Weight
SH15TC	15 ton (155kN)	6mm	81mm	152cm <sup>3</sup>	9.0kg

# SM7T

## Mini Gap Flange Spreader

- Light weight, ergonomic design for easy usage.
- Adjustable jaw width up to 27mm maximum spread for wide range of applications.
- hand held lever for easy operations.

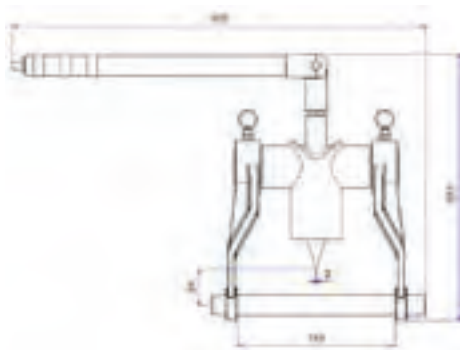
### Flange Spreader Matching Chart

ASA Rating (psi)	Pipe Size	
	FS-56	FS-109
150	5-20	22-42
300	2.50-14	16-28
400	2.50-12	14-24
500	2.50-10	12-20
900	.50-6	8-16
1500	.50-3.50	4-8
2500	.50-2.50	3-4

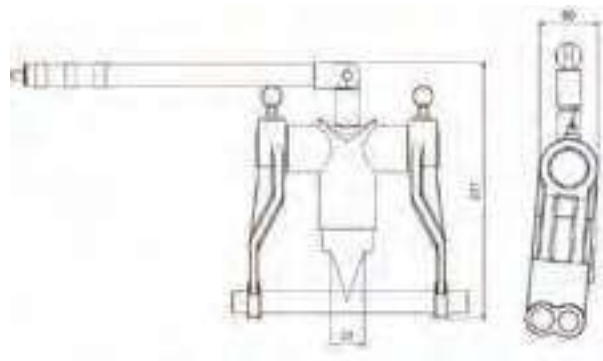


### Large Ø20 mm spreading bar

**TOOL CONFIGURATION 1**  
Retracted wedge

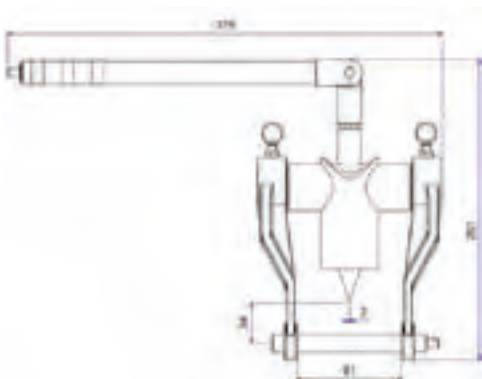


**TOOL CONFIGURATION 1**  
Advanced wedge

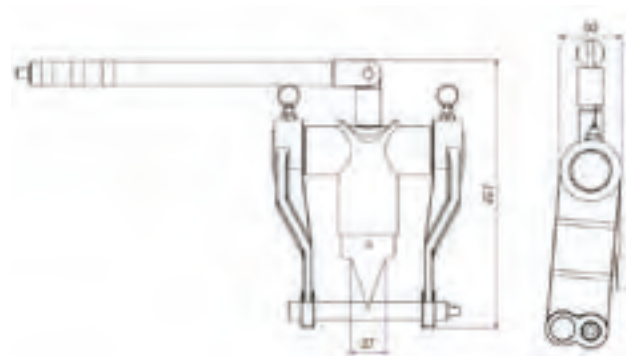


### Small Ø16 mm spreading bar

**TOOL CONFIGURATION 2**  
Retracted wedge



**TOOL CONFIGURATION 2**  
Advanced wedge



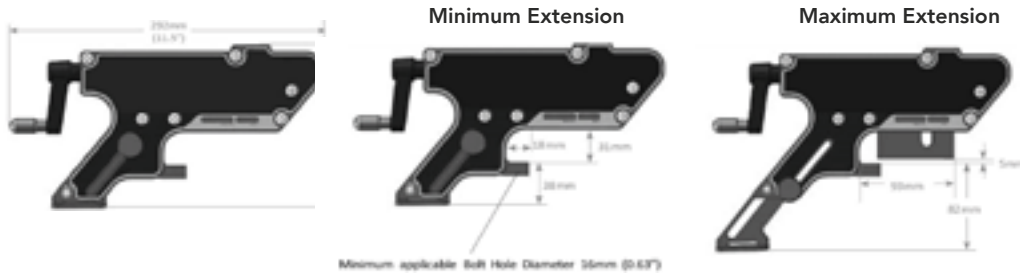
Model Number	Max. Spread Force	Max. Spread	Weight
SM7T	6.8 ton (68kN)	27mm	5kg

# M1TFE

## Flange Leveling Tool



Model Number	Aligning Force	Weight
<b>M1TFE</b>	1 ton (10kN)	2.1kg

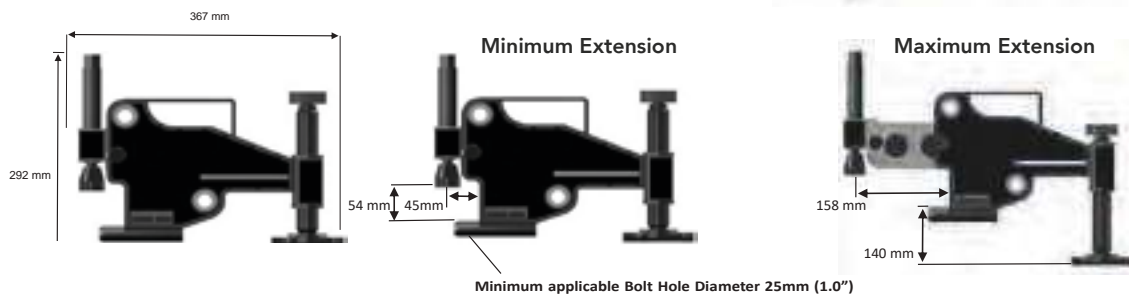


# M4TFE

## Mechanical Fixed Flange and Rotational Leveling Tool



Model Number	Aligning Force	Weight
<b>M4TFE</b>	4 ton (40kN)	8.6kg

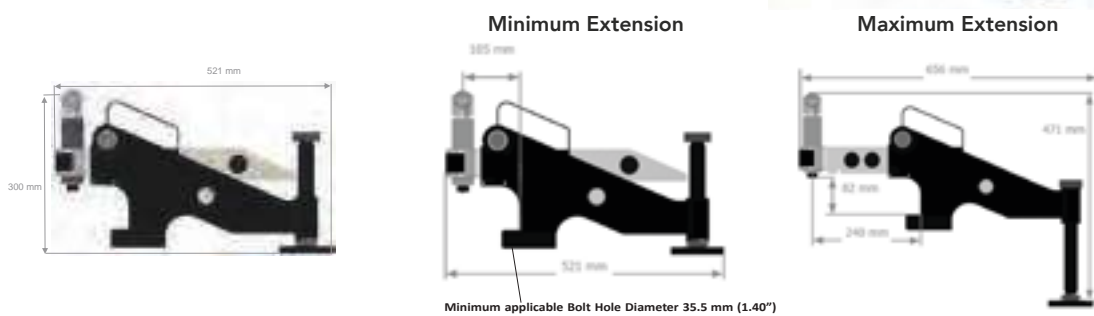


# H9TFE

## Hydraulic Fixed Flange and Rotational Leveling Tool



Model Number	Aligning Force	Weight
<b>H9TFE</b>	9 ton (90kN)	14.5kg





DuraJack  
DLR04-65MM  
SN 34072507

DuraJack  
DLR-01  
SN 280386

DuraJack®

## Conversion Formulas

FRACTION	DECIMALS	MILLIMETERS
1/64	0.015625	0.397
1/32	0.03125	0.794
3/64	0.046875	1.191
1/16	0.0625	1.588
5/64	0.078125	1.984
3/32	0.09375	2.381
7/64	0.109375	2.778
1/8	0.1250	3.175
9/64	0.140625	3.572
5/32	0.15625	3.969
11/64	0.171875	4.366
3/16	0.1875	4.763
13/64	0.203125	5.159
7/32	0.21875	5.556
15/64	0.234375	5.953
1/4	0.2500	6.350
17/64	0.265625	6.747
9/32	0.28125	7.144
19/64	0.296875	7.541
5/16	0.3125	7.938
21/64	0.328125	8.334
11/32	0.34375	8.731
23/64	0.359375	9.128
3/8	0.3750	9.525
25/64	0.390625	9.922
13/32	0.40625	10.319
27/64	0.421875	10.716
7/16	0.4375	11.113
29/64	0.453125	11.509
15/32	0.46875	11.906
31/64	0.484375	12.303
1/2	0.5000	12.700

FRACTION	DECIMALS	MILLIMETERS
33/64	0.515625	13.097
17/32	0.53125	13.494
35/64	0.546875	13.891
9/16	0.5625	14.288
37/64	0.578125	14.684
19/32	0.59375	15.081
39/64	0.609375	15.478
5/8	0.6250	15.875
41/64	0.640625	16.272
21/32	0.65625	16.669
43/64	0.671875	17.066
11/16	0.6875	17.463
45/64	0.703125	17.859
23/32	0.71875	18.256
47/64	0.734375	18.653
3/4	0.7500	19.050
49/64	0.765625	19.447
25/32	0.78125	19.844
51/64	0.796875	20.241
13/16	0.8125	20.638
53/64	0.828125	21.034
27/32	0.84375	21.431
55/64	0.859375	21.828
7/8	0.8750	22.225
57/64	0.890625	22.622
29/32	0.90625	23.019
59/64	0.921875	23.416
15/16	0.9375	23.813
61/64	0.953125	24.209
31/32	0.96875	24.606
63/64	0.984375	25.003
1	1.000	25.400

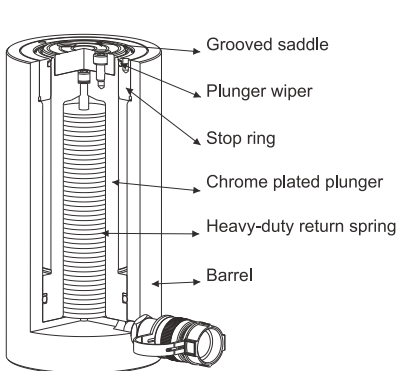
NOTE:  
 1 MM = .03937"  
 .001" = .0254 MM

## Conversion Formulas

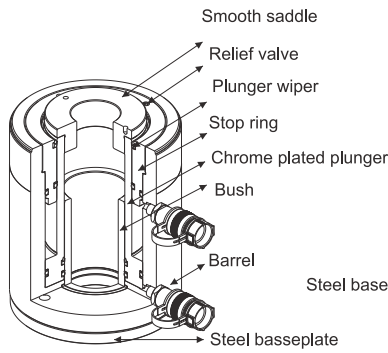
	MULTIPLY SI* UNIT	BY CONVERSION FACTOR	TO GET OR MULTIPLY NON-SI UNIT	BY CONVERSION FACTOR	TO GET SI* UNIT
LENGTH	Millimeter (mm)	X 0.03937	= inch	X 25.4	= mm (1 inch = 25.4 mm exactly)
	Centimeter (cm) 10 mm	X 0.3937	= inch	X 2.54	= cm
	Meter (m) 1000 mm	X 3.28	= foot	X 0.305	= m
	meter (m)	X 1.09	= yard	X 0.914	= m
	kilometer (km) 1000 m	X 0.62	= mile	X 1.61	= km
AREA	millimeter <sup>2</sup> (mm <sup>2</sup> )	X 0.00155	= inch <sup>2</sup>	X 645	= mm <sup>3</sup>
	centimeter <sup>2</sup> (cm <sup>2</sup> )	X 0.155	= inch <sup>2</sup>	X 6.45	= cm <sup>3</sup>
	meter <sup>2</sup> (m <sup>2</sup> )	X 10.8	= foot <sup>2</sup>	X 0.0929	= m <sup>3</sup>
	meter <sup>2</sup> (m <sup>2</sup> )	X 1.2	= yard <sup>2</sup>	X 0.836	= m <sup>3</sup>
	hectare (ha) 10,000 m <sup>2</sup>	X 2.47	= acre	X 0.405	= ha
	kilometer <sup>2</sup> (km <sup>2</sup> )	X 0.39	= mile <sup>2</sup>	X 2.59	= km <sup>3</sup>
VOLUME	centimeter <sup>3</sup> (cm <sup>3</sup> )	X 0.061	= inch <sup>3</sup>	X 16.4	= cm <sup>3</sup>
	liter (L)	X 61	= inch <sup>3</sup>	X 0.016	= L
	milliliter (mL)	X 0.034	= oz-liq	X 29.6	= mL (1 mL = 1 cm <sup>3</sup> )
	liter (L) 1000 mL	X 1.06	= quart	X 0.946	= L
	liter (L)	X 0.26	= Gallon	X 3.79	= L
	meter <sup>3</sup> (m <sup>3</sup> ) 1000 L	X 1.3	= yard <sup>3</sup>	X 0.76	= m <sup>3</sup>
MASS	Gram (g)	X 0.035	= ounce	X 28.3	= g
	kilogram (kg) 1000 g	X 2.2	= pound	X 0.454	= kg
	metric ton (t) 1000 kg	X 1.1	= ton (short)	X 0.907	= t
FORCE	Newton (N)	X 0.225	= pound	X 4.45	= N
	kilo-newton (kN)	X 225	= pound	X 0.00445	= kN
	newton meter (Nm)	X 8.9	= lb. in.	X 0.113	= Nm
	newton meter (Nm)	X 0.74	= lb. ft.	X 1.36	= Nm
PRESSURE	kilo-pascal (kPa)	X 4.0	= in. H <sub>2</sub> O	X 0.249	= kPa
	kilo-pascal (kPa)	X 0.30	= in. Hg	X 3.38	= kPa
	kilo-pascal (kPa)	X 0.145	= psi	X 6.89	= kPa
	mega-pascal (MPa)	X 145	= psi	X 0.00689	= MPa
	bar	X 14.5	= psi	X 0.0680	= bar
POWER	kilowatt (kw)	X 1.34	= hp	X 0.746	= kw
	kilowatt (kw)	X 0.948	= Btu/s	X 1.055	= kw
	watt (w)	X 0.74	= ft. lb/s	X 1.36	= w
FLOW	cu cm/min	X 0.061	= cu in/min	X 16.4	= cu cm/min
	liters/min	X 0.2642	= GPM	X 3.785	= liters/min

\* SYSTEM INTERNATIONAL (MODERN METRIC SYSTEM)

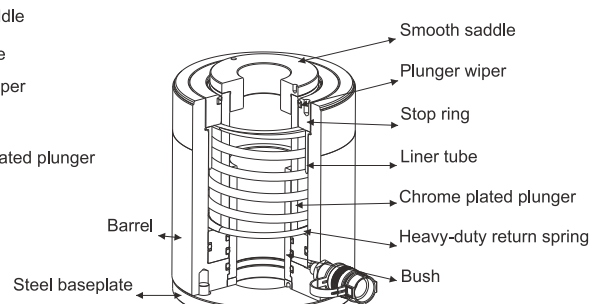
## Sectional Drawing



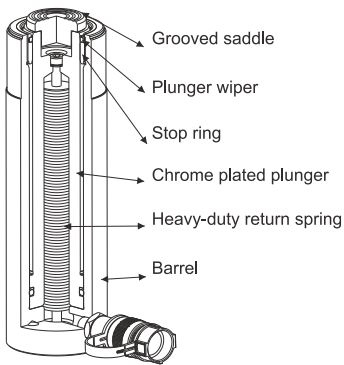
**DS Series**



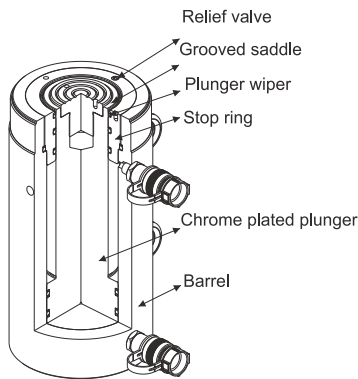
**DDH Series**



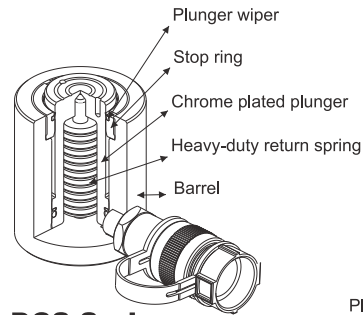
**DH Series**



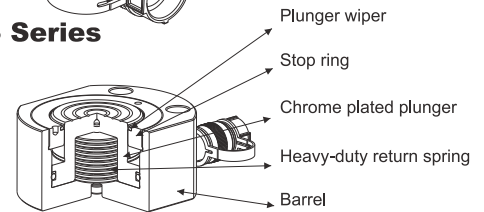
**DC Series**



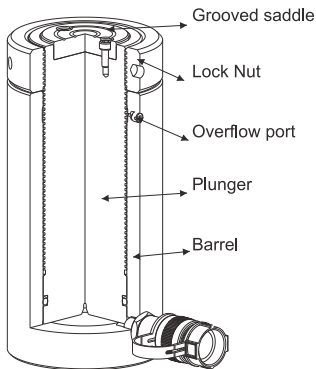
**DD Series**



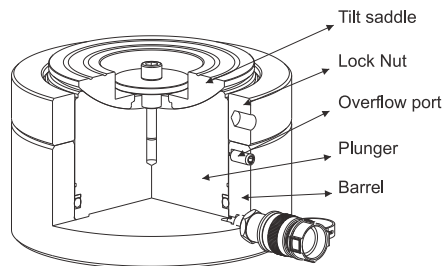
**DCS Series**



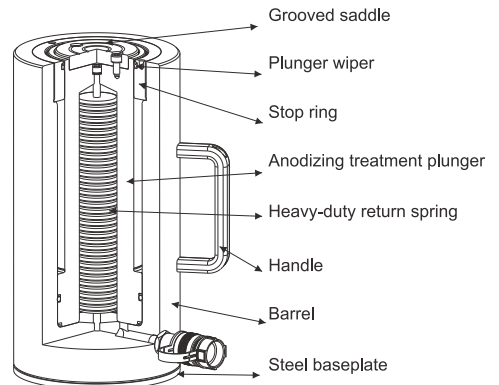
**DSM Series**



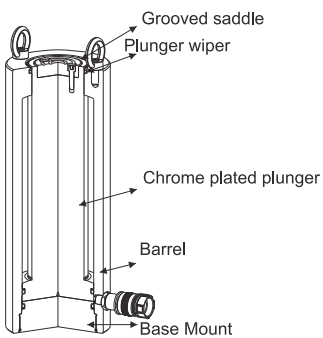
**DLL Series**



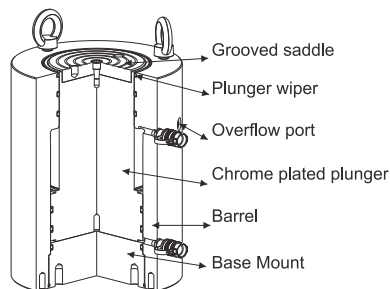
**DLP Series**



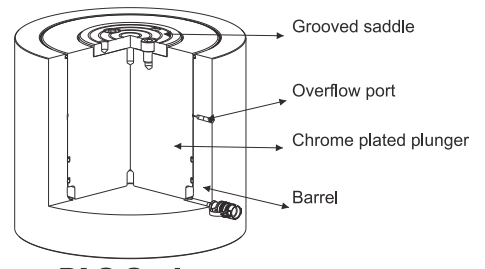
**DAC Series**



**DLSG Series**



**DLRG Series**



**DLS Series**

Capacity lower than 500 tons, General cylinder: DS, DC, DSM, DCS, DH, DDH, DD-Series  
Saddle : help stabilize the load, heat treated.

Most cylinders are equipped with hardened removable grooved saddles ,but will have exception as below :

- 1.DC series 5、15、25 tons are snap-in & grooved saddle.
- 2.Center hollow cylinders are equipped with bolt-on smooth saddle.
- 3.Optional tilt saddle.

Plunger wiper : reduces contaminant.

Stop ring : prevents plunger over-extension.

Most cylinder's stop ring are coated with wear-resisting.

Chrome plated plunger : all model cylinder will be and which resists wear and corrosion.

Heavy-duty return spring : wound steel spring provides fast and complete retraction on single-acting cylinder.

Barrel : powder coat finish for increased corrosion resistance. Chrome plated inner for single-acting cylinder.

Aluminum cylinder : DAC-Series

Saddle : help stabilize the load, heat treated.

All cylinders are equipped with hardened removable grooved saddles.

Plunger wiper : reduces contaminant.

Stop ring : prevents plunger over-extension.

It is capable of withstanding the full cylinder capacity.

Anodizing treatment plunger : resist wear and prevent galling.

Heavy-duty return spring : wound steel spring provides fast and complete retraction on single-acting cylinder.

Handle : All DAC-cylinders are equipped with handle.

Barrel : Anodizing treatment of aluminum not only surfaces but also inner.

Steel baseplate : for protection against load-induced damage.

High Tonnage, Lock Nut & Pancake Lock Nut Cylinder: DLP, DLSP, DLRG, DLL, DLS-Series

Saddle : help stabilize the load, heat treated.

Most cylinders are equipped with hardened removable grooved saddles ,but will have exception as below :

- 1.DLP integral tilt saddle.
- 2.Optional tilt saddle.

Plunger wiper : reduces contaminant.

Stop ring : prevents plunger over-extension.

Most cylinder's stop ring are coated with wear-resisting, but DLL & DLP will be processed different formula.

Plated plunger : All model cylinder's plunger will be chrome plated plunger which resists wear and corrosion, but DLL & DLP will be processed different formula.

Barrel : powder coat finish for increased corrosion resistance. Chrome plated inner for single-acting cylinder.

## Key to measurements

### LENGTH

mm	× 0.03937 = in	× 25.4 = mm
cm	× 0.3937 = in	× 2.54 = cm
m	× 3.28 = foot	× 0.305 = m

### AREA

mm <sup>2</sup>	× 0.00155 = in <sup>2</sup>	× 645 = mm <sup>2</sup>
cm <sup>2</sup>	× 0.155 = in <sup>2</sup>	× 6.45 = cm <sup>2</sup>
m <sup>2</sup>	× 10.8 = foot <sup>2</sup>	× 0.0929 = m <sup>2</sup>

### VOLUME

cm <sup>3</sup>	× 0.061 = in <sup>3</sup>	× 16.4 = cm <sup>3</sup>
liter(L)	× 61 = in <sup>3</sup>	× 0.016 = L
Milliliter(mL)	× 0.034 = oz-liq	× 29.6 = mL = cm <sup>3</sup>
liter(L)	× 1.06 = quart	× 0.946 = L
liter(L)	× 0.26 = gallon	× 3.79 = L

### MASS

g	× 0.035 = ounce	× 28.3 = g
kg	× 2.2 = pound	× 0.454 = kg
metric ton(t)	× 1.1 = ton(short)	× 0.907 = t
metric ton(t)	× 9.8 = kN	× 0.102 = metric(t)

### FORCE

newton(N)	× 0.225 = pound	× 4.45 = N
kilonewton(kN)	× 225 = pound	× 0.00445 = kN

### TORQUE

newton Meter(N.m)	× 8.9 = lbf.in	× 0.113 = N.m
newton Meter(N.m)	× 0.74 = lbf.ft	× 1.36 = N.m

### PRESSURE (Pa = N/m<sup>2</sup>)

kilopascal(kPa)	× 0.145 = p.s.i	× 6.89 = kPa
kgf/cm <sup>2</sup>	× 14.23 = p.s.i	× 0.07 = kgf/cm <sup>2</sup>
Bar	× 14.5 = p.s.i	× 0.0689 = bar
Bar	× 1.02 = kgf/cm <sup>2</sup>	× 0.981 = bar

### POWER (w = J/s)

kw	× 1.34 = hp	× 0.746 = kW
watt(W)	× 0.74 = ft.lbf/s	× 1.36 = W

※ Cylinder Oil Cap.=Cylinder Effective Area x Cylinder Stroke

※ Force = Hydraulic Working Pressure x Cylinder Effective Area

© Most cylinder capacity in this catalog are ton(short).







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