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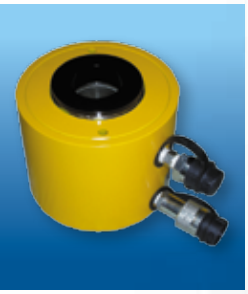


PROFILE

MAU QUAN INTERNATIONAL COMPANY LIMITED specialist in design and Manufacturing mechanical equipment, hydraulic jacks, hydraulic pumps, hydraulic control system, heavy-duty machine, machine tools and various types of mechanical part for construction industry around the world. We are also a distributor for many well-know brand products and capable in provide with better product, maintenance, after service in assisting our clients to reduce operation cost and hence generate highest profit. Other than the standard equipment and products, we provide custom made equipment and solution.

CAPABILITIES

CYLINDERS :

* Jacking Rams : 0.1TON-2500TON, Load Return, Lock Nut, Spring-Return Single-Acting and Double-Acting Cylinders, Max Stroke 6000mm, Max Diameter 1500mm, High and Low Pressure.
* Hollow Rams: 10ton-2000ton, Load Return, Spring-return, Single-Acting and Double-Acting Cylinders.

POWER UNIT :

* Motive Force : Electric (single and 3 phase) powered, Air, Petrol, Hands, High and Low Pressure.
* Operation Model : Manual, Solenoid Valves, PLC.
* Flow : Single Speed And Double Speed.

HYDRAULIC ACCESSORIES :

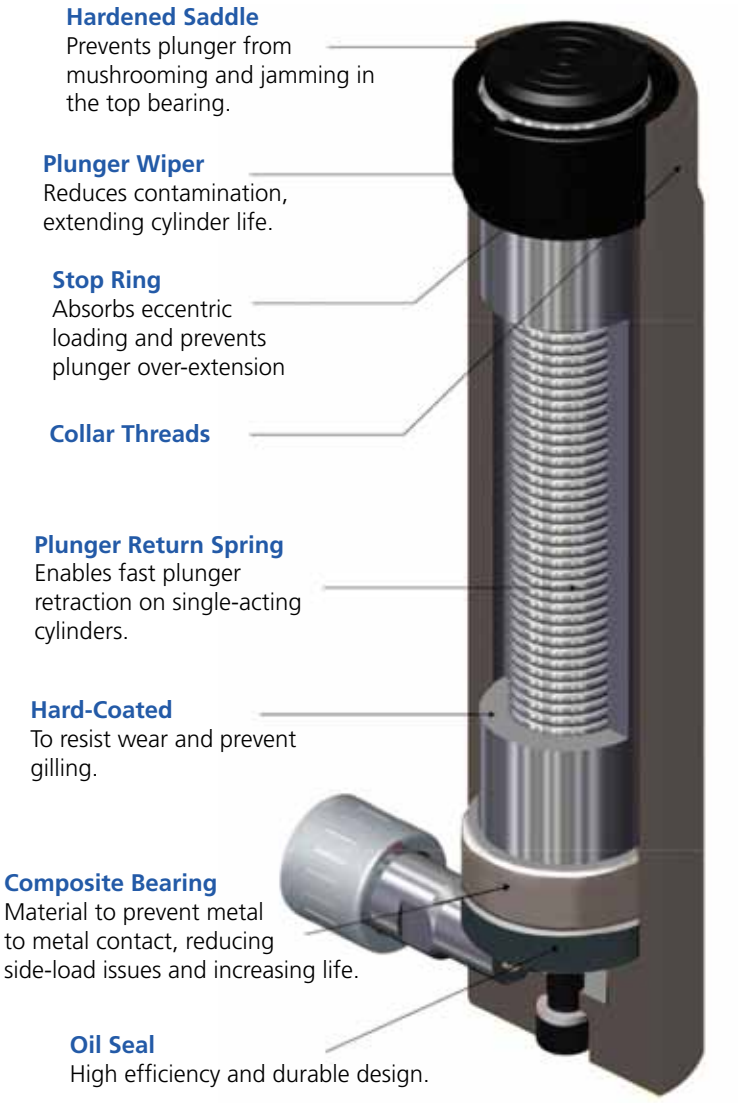
Presses Gauges, Hose, Couplers, Fittings, Manifolds, High and Low Pressure...ect.

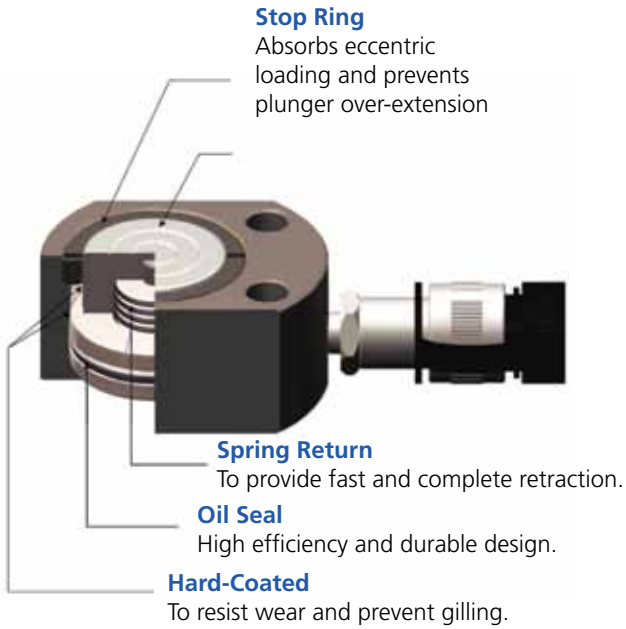
J&M Hydraulic Cylinders

J&M hydraulic cylinders are available in hundreds of different configurations. wharever the industrial application...lifting, pushing, pulling, bending, holding...Whatever the force capacity, stroke length, or size restrictions... single-or double-acting, solid or hollow plunger, you can be sure that J&M has the cylinder to suit your high force application.

** All cylinders are been well tested before delivery, and the safety facror is above 2.

** The cut-away drawing is representative of typical cylinder construction and may not represent all cylinders in this section.





SINGLE-STRAND JACKS-FRONT GRIP

Capacity (ton)	Model No.	Stroke (mm)	Outside Dia. (mm)	Hole Dia. (mm)	Retracted Ht. (mm)	Piston Area (A/cm^2)
30	JAD-308	200	115	25	496	47
	JAD-3030	800	115	25	1110	47

SINGLE-STRAND JACK-REAR GRIP

Capacity (ton)	Model No.	Stroke (mm)	Outside Dia. (mm)	Hole Dia. (mm)	Retracted Ht. (mm)	Piston Area (A/cm^2)
10	JKD-10	150	70	17	447	17.6
20	JKD-20	160	90	17	485	31.4
30	JKD-308	200	105	17	535	40.4

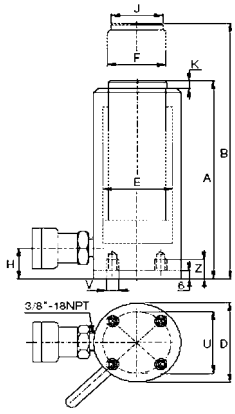
MULTI-STRAND HYDRANULIC STRESSING JACKS

Product features

- Combining with variegated methodological and pre-stressed material. (Only need to change the accessories)
- Small size, high efficiency also easy for operated and moved.

Capacity (ton)	Model No.	Stroke (mm)	Outside Dia. (mm)	Hole Dia. (mm)	Retracted Ht. (mm)	Piston Area (A/cm^2)
75	JKD-758	200	200	75	520	117
100	JKD-1008	200	240	80	570	174
200	JKD-2008	200	325	112	570	322
300	JKD-30010	250	400	142	625	550
400	JKD-40012	300	470	185	625	689
500	JKD-50012	300	490	200	700	800
700	JKD-7008	200	670	300	765	1101
1000	JKD-10008	200	740	300	640	1659

Single-Acting Aluminum Cylinders



Capacity
20-150T

Stroke
50-150mm

SAT
Series

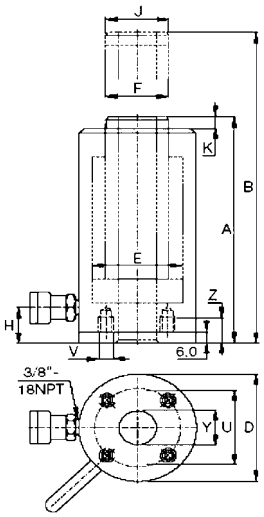
Max operating pressure
700bar/10,000psi

- Steel baseplate and saddle for protection against load-induced damage.
- High strength return spring for rapid cylinder retraction
- Allow to use in tough environments
- Handles included on all models easy to carry
- CR-400 coupler and dust cap include on all models

Model No.	U Boilt Circle (mm)	V Thread (mm)	Z Thread Depth (mm)
SAT-20	70	M6	12
SAT-30	80	M6	12
SAT-50	110	M6	12
SAT-100	160	M6	12
SAT-150	200	M6	12

Model No.	Capacity ton.	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	Weight (kg)
SAT-202	20	50	31.2	156	174	224	85	63	50	3.6
SAT-204		100	31.2	312	224	324	85	63	50	4.1
SAT-206		150	31.2	468	274	424	85	63	50	4.6
SAT-302	30	50	44.2	221	181	231	100	75	60	4.5
SAT-304		100	44.2	442	231	331	100	75	60	5.2
SAT-306		150	44.2	663	281	431	100	75	60	5.9
SAT-502	50	50	70.9	354	186	236	130	95	80	8.5
SAT-504		100	70.9	709	236	336	130	95	80	9.8
SAT-506		150	70.9	1063	286	436	130	95	80	11.1
SAT-1004	100	100	143.1	1431	271	371	180	135	110	19.6
SAT-1006		150	143.1	2147	321	471	180	135	110	21.9
SAT-1008		200	143.1	2863	371	571	180	135	110	24.2
SAT-1506	150	150	227	3405	343	493	230	17.0	140	33.3

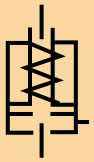
Hollow Aluminum Cylinders



Capacity
20-150T

Stroke
50-250mm

SAH
Series



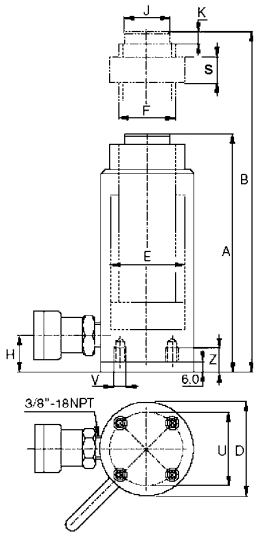
Max operating pressure
700bar/10,000psi

- Hollow plunger design allow for both pull and puch forces.
- Floating center tube increases seal life.
- Steel baseplate and saddle for protection against load-induced damage.
- High-strength return spring for rapid cylinder retraction.
- Allow to use in tough environments.
- Handles includes on all models easy to carry.
- CR-400 coupler and dust cap included or all models.

Model No.	U Boilt Circle (mm)	V Thread (mm)	Z Thread Depth (mm)
SAH-20	85	M6	12
SAH-30	110	M6	12
SAH-60	165	M6	12
SAH100	230	M6	12

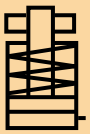
Model No.	Capacity	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	Y Center Hole Diam. (mm)	Weight (kg)
SAH-202	20	50	32.7	164	188	238	100	75	55	27	5.2
SAH-206		150	32.7	491	315	465	100	75	55	27	7.1
SAH-302	30	50	51.1	164	208	258	130	95	70	34	8.0
SAH-306		150	51.1	491	333	483	130	95	70	34	11.2
SAH-604	60	100	92.5	925	362	462	180	135	110	56	20.3
SAH-606		150	92.5	1388	412	562	180	135	110	56	22.9
SAH-1006	100	150	155.1	2327	391	541	250	185	150	79	43.4

Aluminum Single Acting Lock Nut Cylinders



Capacity
50-150T

SAL
Series



Stroke
50-150mm

Max operating pressure
700bar/10,000psi

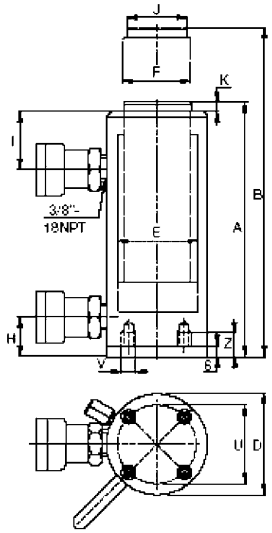
- Aluminum Lock Nut provides mechanical load holding for extended periods.
- Steel baseplate and saddle for protection against load-induced damage.
- High-strength return spring for rapid cylinder retraction.

Model No.	U Boilt Circle (mm)	V Thread (mm)	Z Thread Depth (mm)
SAL-50	110	M6	12
SAL-100	160	M6	12
SAL-150	200	M6	12

- Hard coat finish on all surfaces resists damage and extends cylinder life.
- Handles included on all models, easy to carry.
- CR-400 Coupler and dust cap included on all models.

Model No.	Capacity (ton)	Stroke (mm)	Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	S Look Nut Height (mm)	Weight (kg)
SAL-502	50	50	70.9	354	236	286	130	95	Tr 80x4	50	9.3
SAL-504		100	70.9	709	286	386	130	95	Tr 80x4	50	10.6
SAL-506		150	70.9	1063	336	486	130	95	Tr 80x4	50	11.9
SAL-1002	100	50	143.1	716	296	346	180	135	Tr 110x6	75	21.9
SAL-1004		100	143.1	1431	346	446	180	135	Tr 110x6	75	24.2
SAL-1006		150	143.1	2147	396	546	180	135	Tr 110x6	75	26.5
SAL-1502	150	50	227	1135	323	373	230	170	Tr 140x6	80	32.2
SAL-1504		100	227	2270	373	473	230	170	Tr 140x6	80	36.2
SAL-1506		150	227	3405	423	573	230	170	Tr 140x6	80	40.2

Aluminum Double Acting Cylinders



Capacity
20-150T

SAD
Series

Stroke
50-250mm

Max operating pressure
700bar/10,000psi

- Steel baseplate and saddle for protection against load-induced damage.
- Built in safety valve prevents accidental over pressurization.
- CR-400 coupler and dust cap included on all models.
- Handles included on all models easy to carry.
- Hard coat finish on all surfaces resists damage and extends cylinder life.
- Integral stopring prevents plunger over-travel and is capable of withstanding the full cylinder capacity.

Model No.	U Boilt Circle (mm)	V Thread (mm)	Z Thread Depth (mm)
SAD-50	110	M6	12
SAD-100	160	M6	12
SAD-150	200	M6	12

Model No.	Capacity (ton)	Stroke (mm)	Maximum Cylinder Capacity Push (kn)	Maximum Cylinder Capacity Pull (kn)	Cylinder Effective Area Push (cm^2)	Cylinder Effective Area Pull (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	Weight (kg)
SAD-502	50	50	496	187	70.9	26.7	220	201	251	145	95	75	11.1
SAD-504		100	496	187	70.9	26.7	442	251	351	145	95	75	12.7
SAD-506		150	496	187	70.9	26.7	662	301	451	145	95	75	14.3
SAD-1004	100	100	1002	557	143.1	79.5	636	301	401	185	135	90	19.3
SAD-1006		150	1002	557	143.1	79.5	954	351	501	185	135	90	24.2
SAD-1008		200	1002	557	143.1	79.5	1273	401	601	185	135	90	25.1
SAD-1506	150	150	1589	924	227	131.9	426	348	408	230	170	110	33.2

Single Acting Flat/Low Height Cylinders

Capacity
5-150T

Stroke
6-57mm

SFJ SLC Series

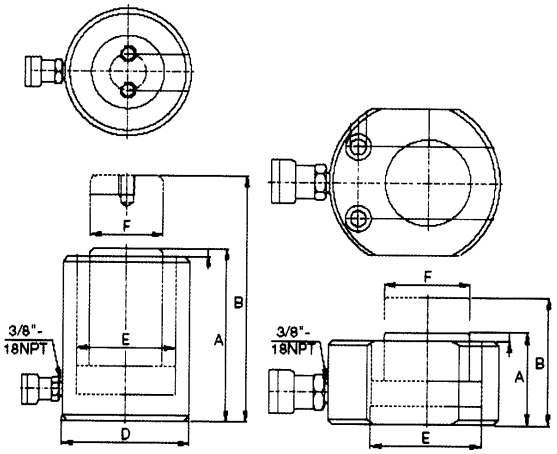
Max operating pressure
700bar/10,000psi

SFJ-Series, Flat Cylinders

- Compact flat design for use where space restriction.
- SFJ-150,1000,1500 have handles for easy carrying.
- Maunting holes permit easy fixturing.
- Baked enamel finish for increased corrosion resistance.
- Grooved plunger ends require no saddle.
- Hard chrome plate high quality material.

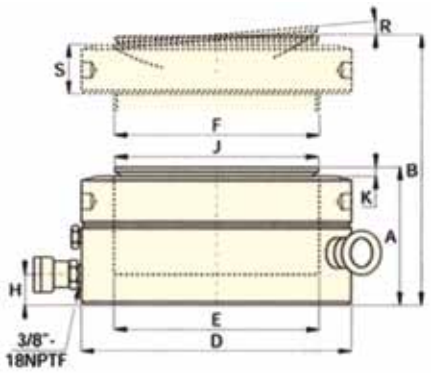
SLC-Series, Low Height Cylinders

- Light weight, low profile design for use in confined spaces.
- Grooved plunger end with threaded holes for mounting tilt saddles.
- CR-400 coupler and dust cap included on all models.
- Plunger wiper reduces contamination extending cylinder life.



Model No.	Capacity (ton)	Stroke (mm)	Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	Weight (kg)
SFJ-50	5	6	6.5	4	32	38	58 x 41	28.7	25.4	1.0
SFJ-100	10	12	14.5	18	43	54	82 x 55	42.9	38.1	1.4
SFJ-200	20	11	28.7	32	51	62	101 x 76	60.5	50.8	3.1
SFJ-300	30	13	42.1	55	58	71	117 x 95	73.2	63.4	4.5
SFJ-500	50	16	62.1	99	66	82	139 x 114	88.9	69.8	6.8
SFJ-750	75	16	102.6	164	79	95	165 x 139	114.3	82.6	11.3
SFJ-1000	100	16	126.7	203	85	101	177 x 152	127.0	92.2	14.5
SFJ-1500	150	16	198.1	317	100	116	215 x 190	158.8	114.3	26.3
SLC-101	10	38	14.5	55	88	126	69	42.9	38.1	4.1
SLC-201	20	45	28.7	129	98	143	92	60.5	50.8	5.0
SLC-302	30	62	42.1	261	117	179	101	73.2	66.5	6.8
SLC-502	50	60	62.1	373	122	182	124	8.9	69.8	10.9
SLC-1002	100	57	126.7	722	141	198	165	127.0	92.2	22.7

Pancake Lock Nut Cylinders



- Overflow port functions as a stroke limiter.
- Include integral tilt saddles with maximum tilt angles up to 5°
- Wiper seal fitted to most models to prevent penetration of dirt and extend cylinder life.

Capacity
60-520T

Stroke
45-50mm

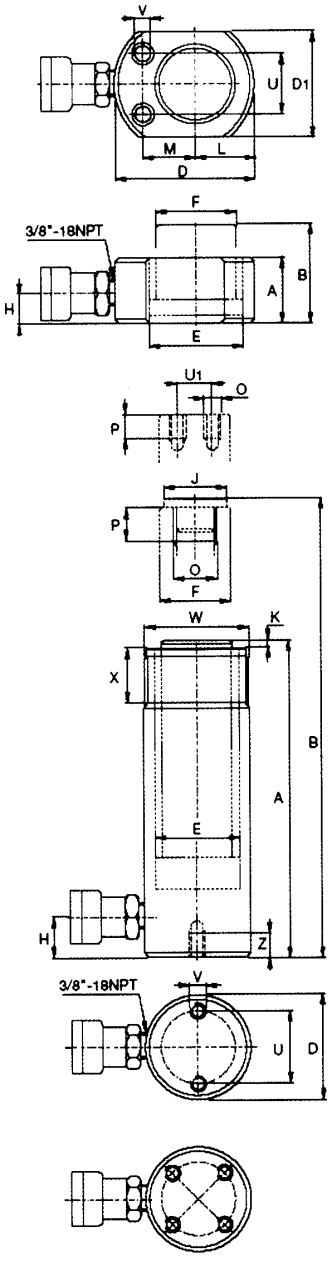
SCP
Series

Max operating pressure
700bar/10,000psi

Model No.	Capacity (ton)	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)	Weight (kg)
SCP-602	60	50	86.6	432	125	175	140	15
SCP-1002	100	50	146.8	734	137	187	175	26
SCP-1602	160	45	231.3	1040	148	193	220	44
SCP-2002	200	45	285.6	1285	155	200	245	57
SCP-2502	260	45	366.8	1650	159	204	275	74
SCP-4002	400	45	559.5	2517	178	223	350	134
SCP-5002	520	45	730.6	3287	192	237	400	189

Model No.	E Bore Diam. (mm)	F Plunger Diam. (mm)	H Base to Advance Port (mm)	J Saddle Diam. (mm)	K Saddle Protrusion From Pingr (mm)	R Saddle Max. Tilt Angle	S Lock Nut Height (mm)
SCP-602	105.0	Tr104 x 4	19	96	6	5	28
SCP-1002	136.7	Tr136 x 6	21	126	8	5	31
SCP-1602	171.6	Tr171 x 6	27	160	9	5	40
SCP-2002	190.7	Tr190 x 6	30	180	10	5	43
SCP-2502	216.1	Tr216 x 6	32	200	11	5	44
SCP-4002	266.9	Tr266 x 6	39	250	11	4	55
SCP-5002	305.0	Tr305 x 6	48	290	10	3	62

Single-Acting Cylinders



Capacity
5-100T

SGT
Series

Stroke
16-362mm

Max operating pressure
700bar/10,000psi

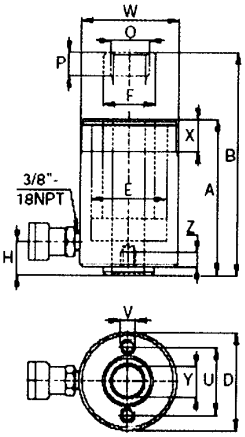
Model No.	Capacity (ton)	Stroke (mm)	Effective Area (cm^2)	Oil Capacity (cm^3)	**A** Collapsed Height (mm)	**B** Extended Height (mm)	**D** Outside Diam. (mm)
SGT-50	5	16	6.5	10	41	57	58
SGT-51		25	6.5	16	110	135	38
SGT-53		76	6.5	50	165	241	38
SGT-55		127	6.5	83	215	342	38
SGT-57		177	6.5	115	273	450	38
SGT-59		232	6.5	151	323	555	38
SGT-101	10	26	14.5	38	89	115	57
SGT-102		54	14.5	78	121	175	57
SGT-104		105	14.5	152	171	276	57
SGT-106		156	14.5	226	247	403	57
SGT-108		203	14.5	294	298	501	57
SGT-1010		257	14.5	373	349	606	57
SGT-1012		304	14.5	441	400	704	57
SGT-1014		356	14.5	516	450	806	57
SGT-151	15	25	20.3	51	124	149	69
SGT-152		51	20.3	104	149	200	69
SGT-154		101	20.3	205	200	301	69
SGT-156		152	20.3	308	271	423	69
SGT-158		203	20.3	411	322	525	69
SGT-1510		254	20.3	516	373	627	69
SGT-1512		305	20.3	619	423	728	69
SGT-1514		356	20.3	723	474	830	69
SGT-251	25	26	33.2	86	139	165	85
SGT-252		50	33.2	166	165	215	85
SGT-254		102	33.2	339	215	317	85
SGT-256		158	33.2	525	273	431	85
SGT-258		210	33.2	697	323	533	85
SGT-2510		261	33.2	867	374	635	85
SGT-2512		311	33.2	1033	425	736	85
SGT-2514		362	33.2	1202	476	838	85
SGT-308	30	209	42.1	880	387	596	101
SGT-502	50	51	71.2	362	176	227	127
SGT-504		101	71.2	719	227	328	127
SGT-506		159	71.2	1131	282	441	127
SGT-5013		337	71.2	2399	460	797	127
SGT-756	75	156	102.6	1601	285	441	146
SGT-7513		333	102.6	3417	492	825	146
SGT-1006	100	168	133.3	2239	357	525	177
SGT-10010		260	133.3	3466	449	709	177

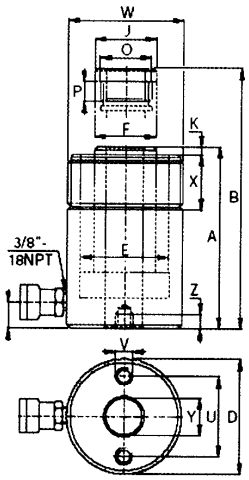
Single-Acting Cylinders

- Collar threads, plunger threads and base mounting holes enable easy fixturing. (on most models)
- Designed for use in all positions.
- High strength alloy steel for durability.
- CR-400 coupler and dust cap included on all model.
- High strength return spring for rapid cylinder retraction.
- Baked enamel finish for increased corrosion resistance.
- Wiper seal fitted to most models to prevent penetration of dirt and extend cylinder life.

Model No.	E Bore Dia. (mm)	F Plunger Diam. (mm)	H Base to Adv Port (mm)	J Saddle Diameter (mm)	K Saddle Protrusion form Plngr. (mm)	O Plunger Internal Thread	P Plunger Thread Length (mm)	U Bolt Circle (mm)	V Thread	Z Thrd Depth (mm)	W Collar Thread	X Collar Thread Length (mm)	Weight (kg)
SGT-50	28.7	25.4	19	-	-	-	-	28	1/4"-20un	-	-	-	1.0
SGT-51	28.7	25.4	19	25	6	3/4"-16	14	25	1/4"-20un	14	11/2"-16	28	1.0
SGT-53	28.7	25.4	19	25	6	3/4"-16	14	25	1/4"-20un	14	11/2"-16	28	1.5
SGT-55	28.7	25.4	19	25	6	3/4"-16	14	25	1/4"-20un	14	11/2"-16	28	1.9
SGT-57	28.7	25.4	19	25	6	3/4"-16	16	25	1/4"-20un	14	11/2"-16	28	2.4
SGT-59	28.7	25.4	19	25	6	3/4"-16	16	25	1/4"-20un	14	11/2"-16	28	2.8
SGT-101	42.9	38.1	19	-	-	#10-24un	6	39	5/16"-18un	12	21/2"-14	26	1.8
SGT-102	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	28	2.3
SGT-104	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	26	3.3
SGT-106	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	28	4.4
SGT-108	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	26	5.4
SGT-1010	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	28	6.4
SGT-1012	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	26	6.8
SGT-1014	42.9	38.1	19	35	6	1"-8	19	39	5/16"-18un	12	21/2"-14	26	8.2
SGT-151	50.8	41.4	19	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	3.3
SGT-152	50.8	41.4	19	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	4.1
SGT-154	50.8	41.4	19	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	5.0
SGT-156	50.8	41.4	25	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	6.8
SGT-158	50.8	41.4	25	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	8.2
SGT-1510	50.8	41.4	25	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	9.5
SGT-1512	50.8	41.4	25	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	10.9
SGT-1514	50.8	41.4	25	38	9	1"-8	25	47	3/8"-16un	12	23/4"-16	30	11.8
SGT-251	65	57.2	25	50	10	11/2"-16	19	58	1/2"-13un	19	35/16"-12	49	5.9
SGT-252	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	6.4
SGT-254	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	8.2
SGT-256	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	10.0
SGT-258	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	12.2
SGT-2510	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	14.1
SGT-2512	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	16.3
SGT-2514	65	57.2	25	50	10	11/2"-16	25	58	1/2"-13un	19	35/16"-12	49	17.7
SGT-308	73.2	57.2	57	50	10	11/2"-16	25	-	-	-	35/16"-12	49	18.1
SGT-502	95.2	79.5	33	71	2	-	-	95	1/2"-13un	19	5"-12	55	15.0
SGT-504	95.2	79.5	33	71	2	-	-	95	1/2"-13un	19	5"-12	55	19.1
SGT-506	95.2	79.5	35	71	2	-	-	95	1/2"-13un	19	5"-12	55	23.1
SGT-5013	95.2	79.5	35	71	2	-	-	95	1/2"-13un	19	5"-12	55	37.6
SGT-756	114.3	95.2	30	71	5	-	-	-	-	-	53/4"-12	44	29.5
SGT-7513	114.3	95.2	30	71	5	-	-	-	-	-	53/4"-12	44	59.0
SGT-1006	130.3	104.9	41	71	2	-	-	139	3/4"-10un	25	67/8"-12	44	59.0
SGT-10010	130.3	104.9	41	71	2	-	-	139	3/4"-10un	25	67/8"-12	44	72.6

Single Acting Hollow Spring Return Cylinders





- Hollow plunger design for allows both push and pull forces.
- High strength alloy for durability.
- CR-400 coupler and dust cap included on all models.
- Wiper seal fitted to most models to prevent penetration of dirt and extend cylinder life.
- collar threads for easy fixturing.

Capacity
12-100T

SHC
Series

Stroke
8-155mm

Max operating pressure
700bar/10,000psi

Model No.	Capacity (ton)	Stroke (mm)	Cylinder Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)	E Bore Diam. (mm)	F Plunger Diam. (mm)	Y Center Hole Diam. (mm)	Weight (kg)
SHC-120	12	8	17.9	14	55	63	69	54.1	35.1	19.6	1.5
SHC-121		42	17.9	75	120	162	69	54.1	35.1	19.6	2.8
SHC-1211		42	17.9	75	120	162	69	54.1	35.1	19.6	2.8
SHC-123		76	17.9	136	184	260	69	54.1	35.1	19.6	4.4
SHC-202	20	49	30.7	150	162	211	98	73.1	54.1	26.9	7.7
SHC-206		155	30.7	476	306	461	98	73.1	54.1	26.9	14.1
SHC-302	30	64	46.6	298	178	242	114	88.9	63.5	33.3	10.9
SHC-306		155	46.6	722	330	485	114	88.9	63.5	33.3	21.8
SHC-603	60	75	61.8	705	250	325	160	130	130	54	28
SHC-1003	100	76	133	1011	254	330	212	165.1	127.0	79.0	63.0

Model No.	O Plunger Internal Thread	P Plunger Thread Length (mm)	W Collar Thread	X Collar Thread Length (mm)	U Bolt Circle (mm)	V Thread	Z Thread Depth (mm)
SHC-120	3/4"-16un	16	2 3/4"-16	30	50.8	5/16"-18unc	9.0
SHC-121	-	-	2 3/4"-16	30	-	-	-
SHC-1211	3/4"-16un	16	2 3/4"-16	30	-	-	-
SHC-123	-	-	2 3/4"-12	30	50.8	5/16"-18unc	12.7
SHC-202	1 9/16"-16un	19	3 7/8"-12	38	82.6	5/16"-18unc	9.4
SHC-206	1 9/16"-16un	19	3 7/8"-12	38	82.6	3/8"-16unc	9.4
SHC-302	1 13/16"-16un	22	4 1/2"-12	42	92.2	3/8"-16unc	14.0
SHC-306	1 13/16"-16un	22	6 1/2"-12	42	92.2	3/8"-16unc	14.0
SHC-603	2 3/4"-16un	30	6 1/4"-12	48.5	-	-	-
SHC-1003	4"-16un	25	8 3/8"-12	60	177.8	5/8"-11unc	19.0

Single Acting Screw Jacks

- Single-axis and double-axis jacks are designed to allow the user conveniently where space is limited.
- Screw mechanical force is used to allow jacks to sustain pressure.
- Durable and high-strength screw design.
- Lightweight design in favor of removal.

Model No.	Capacity (ton)	Stroke (mm)	Plate Area (mm)	Height (mm)	Weight (kg)
JMC-100	100	150	300 x 300	450	108
JMC-150	150	150	300 x 300	500	146
JMC-200	200	150	350 x 350	560	200
JMC-250	250	150	400 x 400	580	230
JMC-300	300	150	400 x 400	580	265
JMC-350	350	150	400 x 400	600	322
JSC-30	30	100	200 x 200	300	25
JSC-60	60	100	250 x 250	350	40
JSC-100	100	150	295 x 295	450	81
JSC-150	150	150	295 x 295	500	115
JSC-200	200	150	345 x 345	500	151
JSC-250	250	150	345 x 345	500	161

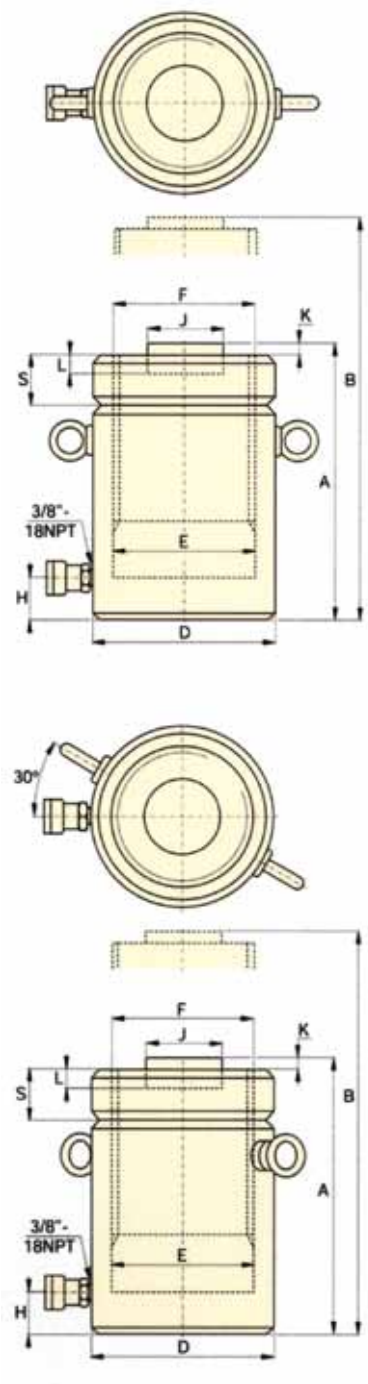
Single Acting Lock Nut Cylinders

Capacity
50-1000T

SLL
Series

Stroke
50-300mm

Max operating pressure
700bar/10,000psi



Model No.	Capacity (ton)	Stroke (mm)	Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)
SLL-502	50	50	70.9	355	164	214	125
SLL-504		100	70.9	709	214	314	125
SLL-506		150	70.9	1064	264	414	125
SLL-508		200	70.9	1418	314	514	125
SLL-5010		250	70.9	1773	364	614	125
SLL-5012		300	70.9	2127	414	714	125
SLL-1002	100	50	132.7	664	187	237	165
SLL-1004		100	132.7	1327	237	337	165
SLL-1006		150	132.7	1991	287	437	165
SLL-1008		200	132.7	264	337	537	165
SLL-10010		250	132.7	3318	387	637	165
SLL-10012		300	132.7	3981	437	737	165
SLL-1502	150	50	198.6	993	209	259	205
SLL-1504		100	198.6	1986	259	359	205
SLL-1506		150	198.6	2979	309	459	205
SLL-1508		200	198.6	3927	359	559	205
SLL-15010		250	198.6	4965	409	659	205
SLL-15012		300	198.6	5958	459	759	205
SLL-2002	200	50	265.6	1330	243	293	235
SLL-2006		150	265.6	3989	343	493	235
SLL-20012		300	265.6	7995	493	793	235
SLL-2502	250	50	366.1	1832	249	299	275
SLL-2506		150	366.1	5496	349	499	275
SLL-25012		300	366.1	10995	499	799	275
SLL-3002	300	50	456.2	2281	295	345	310
SLL-3006		150	456.2	6843	395	545	310
SLL-30012		300	456.2	13740	545	845	310
SLL-4002	400	50	559.9	2800	335	380	350
SLL-4006		150	559.9	8399	435	585	350
SLL-40012		300	559.9	16800	585	885	350
SLL-5002	500	50	731.1	3653	375	425	400
SLL-5006		150	731.1	10959	475	625	400
SLL-50012		300	731.1	21930	625	925	400
SLL-6002	600	50	854.8	4276	429	479	430
SLL-6006		150	854.8	12829	529	679	430
SLL-60012		300	854.8	25659	679	979	430
SLL-8002	800	50	1176.9	5882	455	505	505
SLL-8006		150	1176.9	17645	555	705	505
SLL-80012		300	1176.9	35370	705	1005	505
SLL-10002	1000	50	1466.4	7329	495	545	560
SLL-10006		150	1466.4	21986	595	745	560
SLL-100012		300	1466.4	43980	745	1045	560

Single Acting Lock Nut Cylinders

- Single acting load return.
- Safety Lock Nut for mechanical load holding.
- Overflow port functions as a stroke limiter.
- CR-400 coupler and dust cap included on model.
- Plunger wiper reduces contamination ingress, extending cylinder life.
- Special synthetic coating for improved corrosion resistance and lower friction for smoother operation.
- Interchangeable, hardened grooved saddles are standard.

Model No.	E Bore Dia. (mm)	F Plunger Diam. (mm)	H Base to Adv Port (mm)	J Saddle Diameter (mm)	K Saddle Protrusion from Plngr. (mm)	L Depth of Plunger Hole (mm)	S Lock Nut Height (mm)	Weight (kg)
SLL-502	95.0	Tr 95 x 4	30	71	2	13	36	15
SLL-504	95.0	Tr 95 x 4	30	71	2	13	36	20
SLL-506	95.0	Tr 95 x 4	30	71	2	13	36	25
SLL-508	95.0	Tr 95 x 4	30	71	2	13	36	30
SLL-5010	95.0	Tr 95 x 4	30	71	2	13	36	35
SLL-5012	95.0	Tr 95 x 4	30	71	2	13	36	40
SLL-1002	130.0	Tr 130 x 6	30	71	2	13	44	30
SLL-1004	130.0	Tr 130 x 6	30	71	2	13	44	39
SLL-1006	130.0	Tr 130 x 6	30	71	2	13	44	48
SLL-1008	130.0	Tr 130 x 6	30	71	2	13	44	56
SLL-10010	130.0	Tr 130 x 6	30	71	2	13	44	64
SLL-10012	130.0	Tr 130 x 6	30	71	2	13	44	73
SLL-1502	159.0	Tr 159 x 6	39	130	2	25	44	53
SLL-1504	159.0	Tr 159 x 6	39	130	2	25	44	66
SLL-1506	159.0	Tr 159 x 6	39	130	2	25	44	78
SLL-1508	159.0	Tr 159 x 6	39	130	2	25	44	92
SLL-15010	159.0	Tr 159 x 6	39	130	2	25	44	104
SLL-15012	159.0	Tr 159 x 6	39	130	2	25	44	117
SLL-2002	184.0	Tr 184 x 6	50	130	2	25	50	83
SLL-2006	184.0	Tr 184 x 6	50	130	2	25	50	117
SLL-20012	184.0	Tr 184 x 6	50	130	2	25	50	170
SLL-2502	216.0	Tr 216 x 6	50	150	2	25	56	116
SLL-2506	216.0	Tr 216 x 6	50	150	2	25	56	162
SLL-25012	216.0	Tr 216 x 6	50	150	2	25	56	234
SLL-3002	241.0	Tr 241 x 6	59	139	5	25	60	173
SLL-3006	241.0	Tr 241 x 6	59	139	5	25	60	233
SLL-30012	241.0	Tr 241 x 6	59	139	5	25	60	323
SLL-4002	267.0	Tr 266 x 6	70	159	5	25	70	250
SLL-4006	267.0	Tr 266 x 6	70	159	5	25	70	327
SLL-40012	267.0	Tr 266 x 6	70	159	5	25	70	441
SLL-5002	305.0	Tr 305 x 6	80	179	5	25	80	367
SLL-5006	305.0	Tr 305 x 6	80	179	5	25	80	466
SLL-50012	305.0	Tr 305 x 6	80	179	5	25	80	617
SLL-6002	330.0	Tr 330 x 6	85	194	5	25	85	446
SLL-6006	330.0	Tr 330 x 6	85	194	5	25	85	562
SLL-60012	330.0	Tr 330 x 6	85	194	5	25	85	737
SLL-8002	387.0	Tr 387 x 6	100	224	5	25	100	709
SLL-8006	387.0	Tr 387 x 6	100	224	5	25	100	870
SLL-80012	387.0	Tr 387 x 6	100	224	5	25	100	1110
SLL-10002	432.0	Tr 432 x 6	110	249	5	25	110	949
SLL-10006	432.0	Tr 432 x 6	110	249	5	25	110	1141
SLL-100012	432.0	Tr 432 x 6	110	249	5	25	110	1430

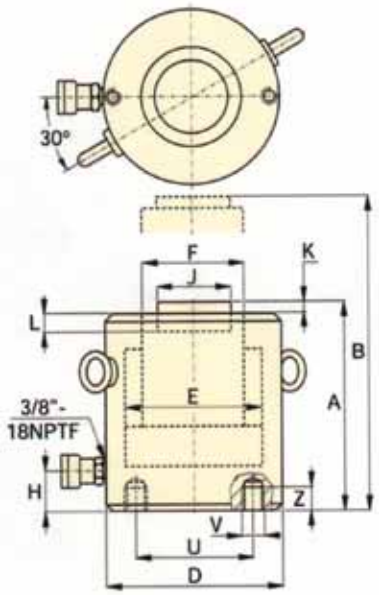
High Tonnage Single Load Return Cylinders

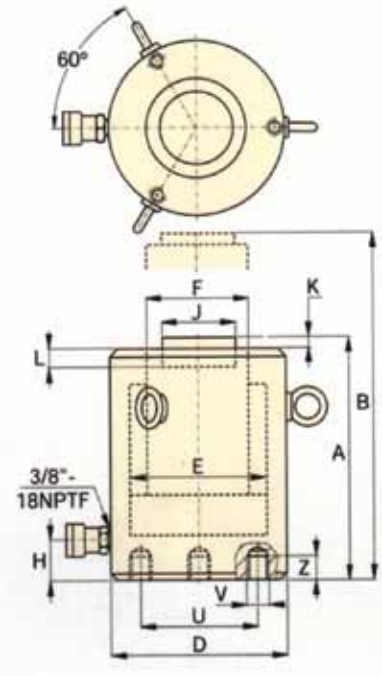
Capacity
50-1000T

SCC
Series

Stroke
50-300mm

Max operating pressure
700bar/10,000psi





Model No.	Capacity ton	Stroke (mm)	Effective Area (cm^2)	Oil Capacity (cm^3)	A Collapsed Height (mm)	B Extended Height (mm)	D Outside Diam. (mm)
SCC-502	50	50	77	385	164	212	130
SCC-504		100	77	770	212	312	130
SCC-506		150	77	1155	262	412	130
SCC-508		200	77	1540	312	512	130
SCC-5010		250	77	1924	362	612	130
SCC-5012		300	77	2309	412	712	130
SCC-1002	100	50	132.7	664	182	232	165
SCC-1004		100	132.7	1327	232	332	165
SCC-1006		150	132.7	1991	282	432	165
SCC-1008		200	132.7	2655	332	532	165
SCC-10010		250	132.7	3318	382	632	165
SCC-10012		300	132.7	3982	432	732	165
SCC-1502	150	50	198.6	993	196	246	205
SCC-1504		100	198.6	1986	246	346	205
SCC-1506		150	198.6	2979	296	446	205
SCC-1508		200	198.6	3972	346	546	205
SCC-15010		250	198.6	4956	396	646	205
SCC-15012		300	198.6	5958	446	746	205
SCC-2002	200	50	265.9	1330	216	266	235
SCC-2006		150	265.9	3989	316	466	235
SCC-20012		300	265.9	7977	466	766	235
SCC-2502	250	50	366.4	1832	235	285	275
SCC-2506		150	366.4	5497	335	485	275
SCC-25012		300	366.4	10993	485	785	275
SCC-3002	300	50	456.2	2281	312	362	310
SCC-3006		150	456.2	6843	412	562	310
SCC-30012		300	456.2	13685	562	862	310
SCC-4002	400	50	559.9	2800	375	425	350
SCC-4006		150	559.9	8399	475	625	350
SCC-40012		300	559.9	16797	625	925	350
SCC-5002	500	50	730.6	3653	419	469	400
SCC-5006		150	730.6	10959	519	669	400
SCC-50012		300	730.6	21918	669	969	400
SCC-6002	600	50	855.3	4276	429	479	430
SCC-6006		150	855.3	12829	529	679	430
SCC-60012		300	855.3	25659	679	979	430
SCC-8002	800	50	1176.3	5881	474	524	505
SCC-8006		150	1176.3	17644	574	724	505
SCC-80012		300	1176.3	35288	724	1024	505
SCC-10002	1000	50	1465.7	7329	564	614	560
SCC-10006		150	1465.7	21986	664	814	560
SCC-100012		300	1465.7	43972	814	1114	560

High Tonnage Single Load Return Cylinders

- Single Acting load return.
- Baked enamel outside finish and plated pistons provide superior corrosion protection.
- Integral stop ring provides piston blow-out protection.
- Wiper seal fitted to most models to prevent penetration of dirt and cylinder life.
- Base mounting holes standard on all models.

Model No.	E Bore Dia. (mm)	F Plunger Diam. (mm)	H Base to Adv Port (mm)	J Saddle Diameter (mm)	K Saddle Protrusion from Plgr.	L Depth of Plunger Hole (mm)	Weight (kg)
SCC-502	99.0	70.0	52	50	1	19	17
SCC-504	99.0	70.0	52	50	1	19	20
SCC-506	99.0	70.0	52	50	1	19	23
SCC-508	99.0	70.0	52	50	1	19	27
SCC-5010	99.0	70.0	52	50	1	19	31
SCC-5012	99.0	70.0	52	50	1	19	34
SCC-1002	130.0	95.0	54	75	1	19	19
SCC-1004	130.0	95.0	54	75	1	19	29
SCC-1006	130.0	95.0	54	75	1	19	40
SCC-1008	130.0	95.0	54	75	1	19	50
SCC-10010	130.0	95.0	54	75	1	19	61
SCC-10012	130.0	95.0	54	75	1	19	71
SCC-1502	159.0	114.0	61	94	1	19	39
SCC-1504	159.0	114.0	61	94	1	19	52
SCC-1506	159.0	114.0	61	94	1	19	65
SCC-1508	159.0	114.0	61	94	1	19	78
SCC-15010	159.0	114.0	61	94	1	19	92
SCC-15012	159.0	114.0	61	94	1	19	105
SCC-2002	184.0	133.0	67	113	1	24	55
SCC-2006	184.0	133.0	67	113	1	24	91
SCC-20012	184.0	133.0	67	113	1	24	146
SCC-2502	216.0	165.0	73	145	1	24	102
SCC-2506	216.0	165.0	73	145	1	24	136
SCC-25012	216.0	165.0	73	145	1	24	207
SCC-3002	241.0	197.0	101	177	1	19	184
SCC-3006	241.0	197.0	101	177	1	19	232
SCC-30012	241.0	197.0	101	177	1	19	303
SCC-4002	267.0	216.0	114	196	3	27	270
SCC-4006	267.0	216.0	114	196	3	27	330
SCC-40012	267.0	216.0	114	196	3	27	421
SCC-5002	305.0	248.0	114	228	3	27	401
SCC-5006	305.0	248.0	114	228	3	27	480
SCC-50012	305.0	248.0	114	228	3	27	599
SCC-6002	330.0	267.0	114	247	3	27	474
SCC-6006	330.0	267.0	114	247	3	27	565
SCC-60012	330.0	267.0	114	247	3	27	701
SCC-8002	387.0	317.0	149	297	3	27	741
SCC-8006	387.0	317.0	149	297	3	27	880
SCC-80012	387.0	317.0	149	297	3	27	1058
SCC-10002	432.0	343.0	174	323	3	27	1062
SCC-10006	432.0	343.0	174	323	3	27	1213
SCC-100012	432.0	343.0	174	323	3	27	1439

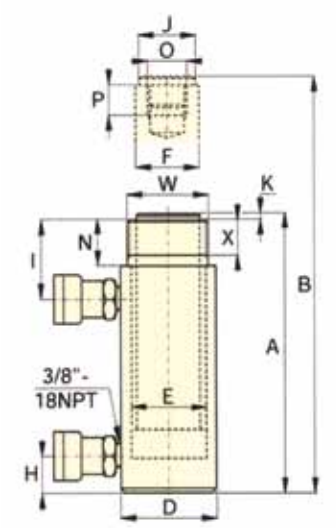
Double Acting Cylinders

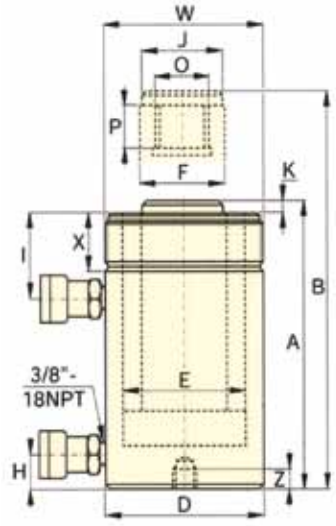
Capacity
10-500T

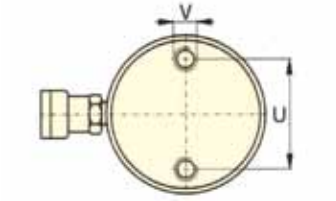
DPC
Series

Stroke
57-1219mm

Max operating pressure
700bar/10,000psi







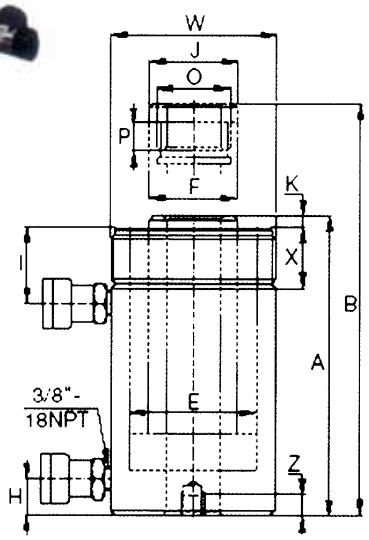
Model No.	Capacity (ton)	Stroke (mm)	Max Cylinder Capacity		Cylinder Effective Area		Oil Capacity		A Collap. Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)
			Push (kn)	Pull (kn)	Push (cm^2)	Pull (cm^2)	Push (cm^3)	Pull (cm^3)			
DPC-1010	10	254	101	33	14.5	4.8	368	122	409	663	73
DPC-1012		305	101	33	14.5	4.8	442	147	457	762	73
DPC-308	30	209	295	53	42.1	19.1	879	400	387	596	101
DPC-3014		368	295	53	42.1	19.1	1549	703	549	917	101
DPC-506	50	156	498	103	71.2	21.5	1111	335	331	487	127
DPC-5013		334	498	103	71.2	21.5	2378	718	509	843	127
DPC-5020		511	498	103	71.2	21.5	3638	1099	733	1244	127
DPC-756	75	156	718	156	102.6	31.4	1601	490	347	503	146
DPC-7513		333	718	156	102.6	31.4	3417	1046	525	858	146
DPC-1006	100	168	933	435	133.3	62.2	2238	1045	357	525	177
DPC-10013		333	933	435	133.3	62.2	4439	2071	524	857	177
DPC-10018		460	933	435	133.3	62.2	6132	2861	687	1147	177
DPC-1502	150	57	1386	668	198.1	95.4	1129	544	196	253	203
DPC-1506		156	1386	668	198.1	95.4	3090	1488	385	541	203
DPC-15013		333	1386	668	198.1	95.4	6597	3177	564	897	203
DPC-15032		815	1386	668	198.1	95.4	16145	7775	1116	1931	203
DPC-2006	200	152	1995	1017	285.0	145.3	4332	2209	430	582	247
DPC-20013		330	1995	1017	285.0	145.3	9405	4795	608	938	247
DPC-20018		457	1995	1017	285.0	145.3	13025	6640	765	1222	247
DPC-20024		610	1995	1017	285.0	145.3	17385	8863	917	1527	247
DPC-20036		914	1995	1017	285.0	145.3	26049	13280	1222	2136	247
DPC-20048		1219	1995	1017	285.0	145.3	34741	17712	1527	2746	247
DPC-3006	300	153	3201	1703	457.3	243.2	6997	3721	485	638	311
DPC-30012		305	3201	1703	457.3	243.2	13947	7418	638	943	311
DPC-30018		457	3201	1703	457.3	243.2	20889	11114	790	1247	311
DPC-30024		609	3201	1703	457.3	243.2	27850	14811	943	1552	311
DPC-30036		915	3201	1703	457.3	243.2	41843	22253	1247	2162	311
DPC-30048		1219	3201	1703	457.3	243.2	55745	29646	1552	2771	311
DPC-4006	400	152	4292	2297	613.1	328.1	9319	4987	528	690	358
DPC-40012		305	4292	2297	613.1	328.1	18700	10007	690	995	358
DPC-40018		457	4292	2297	613.1	328.1	28018	14995	843	1300	358
DPC-40024		610	4292	2292	613.1	328.1	37400	20014	995	1605	358
DPC-40036		914	4292	2292	613.1	328.1	56037	29988	1300	2214	358
DPC-40048		1219	4292	2292	613.1	328.1	74737	39996	1605	2824	358
DPC-5006	500	153	5108	2838	729.7	405.4	11164	6203	577	730	379
DPC-50012		305	5108	2838	729.7	405.4	22256	12365	730	1035	379
DPC-50018		457	5108	2838	729.7	405.4	33347	18526	882	1339	379
DPC-50024		609	5108	2838	729.7	405.4	44440	24689	1032	1644	379
DPC-50036		925	5108	2838	729.7	405.4	66768	36973	1339	2254	379
DPC-50048		1219	5108	2838	729.7	405.4	88951	49418	1644	2863	379

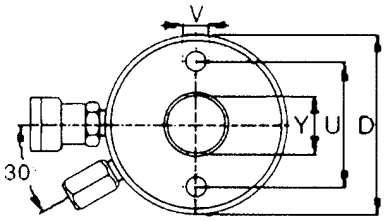
Double Acting Cylinders

- Allow to use in tough environments.
- Removable hardened saddles protect plunger during lifting and pressing.
- Designed for use in all positions.
- Plunger wiper reduces contamination extending cylinder life.
- Double acting design allows for both push and forces.
- Collar threads, plunger threads and base mounting holes for easy fixturing.
- CR-400 coupler and dust cap included on all model.

Model No.	E Bore Dia. (mm)	F Plunger Diam. (mm)	H Base to Adv Port (mm)	J Saddle Diameter (mm)	K Saddle Protrusion from Plgr. (mm)	O Plunger Intemal Thread	P Plunger Thread Length (mm)	U Bolt Circle Diam. (mm)	V Thread	Z Thrd Depth (mm)	W Collar Thread	X Collar Thread Length (mm)	Weight (kg)
DPC-1010	42.9	34.9	36	35	6	1"-8	25	-	-	-	2 1/4"-14	26	12
DPC-1012	42.9	34.9	36	35	6	1"-8	25	-	-	-	2 1/4"-14	26	14
DPC-308	73.2	54.1	36	50	10	1 1/2"-16	25	-	-	-	3 5/16"-12	49	18
DPC-3014	73.2	54.1	39	50	10	1 1/2"-16	25	-	-	-	3 5/16"-12	49	29
DPC-506	95.2	79.5	28	71	2	1"-12	25	-	-	-	5"-12	44	30
DPC-5013	95.2	79.5	28	71	2	1"-12	25	-	-	-	5"-12	44	52
DPC-5020	95.2	79.5	57	71	2	1"-12	25	76	1/2"-13	25	5"-12	44	68
DPC-756	114.3	95.2	30	71	6	1"-12	38	-	-	-	5 3/4"-12	38	41
DPC-7513	114.3	95.2	30	71	6	1"-12	38	-	-	-	5 3/4"-12	38	68
DPC-1006	130.3	95.2	38	76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	61
DPC-10013	130.3	95.2	38	76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	93
DPC-10018	130.3	95.2	41	76	3	1 3/4"-12	35	139	3/4"-10	25	6 7/8"-12	50	117
DPC-1502	158.8	114.3	22	114	19	-	-	-	-	-	-	-	49
DPC-1506	158.8	114.3	49	114	19	3 3/8"-16	35	158	3/4"-16	28	8"-12	55	93
DPC-15013	158.8	114.3	49	114	19	3 3/8"-16	35	158	3/4"-16	28	8"-12	55	124
DPC-15032	158.8	114.3	76	114	19	3 3/8"-16	35	-	-	-	8"-12	55	238
DPC-2006	190.5	133.4	57	133	22	-	-	127	1"-8	25	-	-	147
DPC-20013	190.5	133.4	57	133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	199
DPC-20018	190.5	133.4	85	133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	204
DPC-20024	190.5	133.4	85	133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	279
DPC-20036	190.5	133.4	85	133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	383
DPC-20048	190.5	133.4	85	133	22	2 1/2"-12	63	127	1"-8	25	9 3/4"-12	54	483
DPC-3006	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	200
DPC-30012	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	312
DPC-30018	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	385
DPC-30024	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	469
DPC-30036	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	628
DPC-30048	241.3	165.1	88	165	28	2 1/2"-12	82	158	1 1/4"-7	44	12 1/4"-12	58	780
DPC-4006	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	303
DPC-40012	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	399
DPC-40018	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	453
DPC-40024	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	597
DPC-40036	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	792
DPC-40048	279.4	190.5	108	190	28	3"-12	95	203	1 1/2"-6	50	14 1/8"-8	65	980
DPC-5006	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	432
DPC-50012	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	589
DPC-50018	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	680
DPC-50024	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	816
DPC-50036	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	1002
DPC-50048	304.8	203.2	120	203	28	3 1/4"-12	108	203	1 3/4"-5	57	15 5/8"-8	79	1224

Double Acting Hollow Cylinders





Capacity 30-150T	**DHC** Series
Stroke 38-257mm	
Max operating pressure 700bar/10,000psi	

- Hollow plunger allows for both push and pull forces.
- Nickel plated floating center tube increases product life.
- Baked enamel finish for increased corrosion resistance.
- Collar threads enable easy fixturing.
- Relief valves prevent damage in case of over pressurization.
- CR-400 Coupler and dust cap included on all model.
- Plunger wiper reduces contamination extending cylinder life.

Double Acting Hollow Cylinders

Model No.	Capacity (ton)	Stroke (mm)	Cylinder Effective Area (cm^3)	Oil Capacity (cm^3)	A Collap. Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)	E Bore Dia. (mm)	Y Center Hole Diam. (mm)
DHC-307	30	178	46.6	829	330	508	114	88.9	33.3
DHC-3010		258	46.6	1202	431	689	114	88.9	33.3
DHC-603	60	75	94	705	250	325	160	130	54
DHC-606		166	94	1366	323	489	159	123.9	53.8
DHC-6010		257	94	2115	438	695	159	123.9	53.8
DHC-1001	100	38	133.0	505	165	203	212	165.1	79.2
DHC-1003		76	133.0	1011	254	330	212	165.1	79.2
DHC-1006		153	133.0	2035	342	495	212	165.1	79.2
DHC-10010		257	133.0	3420	460	717	212	165.4	79.2
DHC-1104	110	100	165	1000	260	360	235	140	80
DHC-1106		150		2000	310	460			
DHC-1108		200		3000	360	560			
DHC-11010		250		4000	410	660			
DHC-11012		300		5000	460	760			
DHC-1504	150	100	234.8	2000	290	390	296	190	100
DHC-1506		150		4000	340	490			
DHC-1508		200		5000	390	590			
DHC-15010		250		6000	440	690			
DHC-15012		300		7000	490	790			
DHC-2004	200	100	304	3000	300	400	322	220	110
DHC-2006		150		5000	350	500			
DHC-2008		200		6000	400	600			
DHC-20010		250		8000	450	700			
DHC-20012		300		9000	500	800			
DHC-2504	250	100	380.3	4000	325	425	365	229	125
DHC-2506		150		6000	375	525			
DHC-2508		200		8000	425	625			
DHC-25010		250		9000	475	725			
DHC-25012		300		11000	525	825			
DHC-3006	300	150	465.5	7000	420	570	404	280	150
DHC-3008		200		9000	470	670			
DHC-30010		250		12000	520	770			
DHC-30012		300		14000	570	870			
DHC-3506	350	150	519	8000	425	575	455	318	175
DHC-3508		200		10000	475	675			
DHC-35010		250		13000	525	775			
DHC-35012		300		15000	575	875			
DHC-4006	400	150	602.4	9000	430	580	457	320	182
DHC-4008		200		12000	480	680			
DHC-40010		250		15000	530	780			
DHC-40012		300		13000	580	880			
DHC-5006	500	150	718.7	11000	500	650	508	343	195
DHC-5008		200		15000	550	750			
DHC-50010		250		18000	600	850			
DHC-50012		300		22000	650	950			
DHC-7006	700	150	1004	17000	505	655	650	405	230
DHC-7008		200		23000	555	755			
DHC-70010		250		28000	605	855			
DHC-70012		300		34000	655	955			
DHC-10006	1000	150	1539	23000	540	690	750	520	310
DHC-10008		200		31000	590	790			
DHC-100010		250		38000	640	890			
DHC-100012		300		46000	690	990			
DHC-13008	1300	200	1935.2	39000	705	905	870	585	355
DHC-130010		250		48000	755	1005			
DHC-130012		300		58000	805	1105			

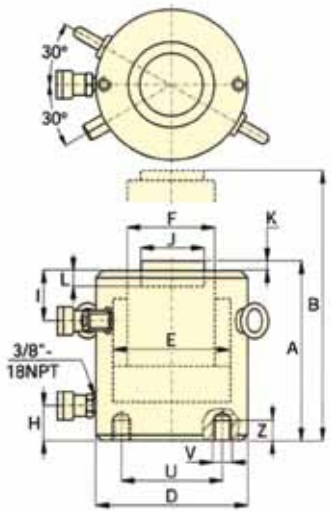
Double Acting, High Tonnage Cylinders

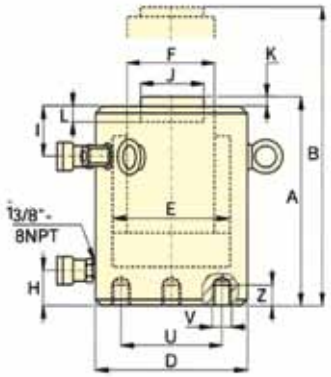
Capacity
50-100T

DCC
Series

Stroke
50-300mm

Max operating pressure
700bar/10,000psi





Model No.	Capacity ton	Stroke (mm)	Max Cylinder Capacity		Cylinder Effective Area		Oil Capacity		A Coll Height (mm)	B Ext. Height (mm)	D Outside Diam. (mm)
			Push (kn)	Pull (kn)	Push (cm^2)	Pull (cm^2)	Push (cm^3)	Pull (cm^3)			
DCC-502	50	50	539	269	77.0	38.5	385	192	162	212	130
DCC-504		100	539	269	77.0	38.5	770	385	212	312	130
DCC-506		150	539	269	77.0	38.5	1155	577	262	412	130
DCC-508		200	539	269	77.0	38.5	1540	770	312	512	130
DCC-5010		250	539	269	77.0	38.5	1924	962	362	612	130
DCC-5012		300	539	269	77.0	38.5	2309	1155	412	712	130
DCC-1002	100	50	929	433	132.7	61.9	664	309	179	229	165
DCC-1004		100	929	433	132.7	61.9	1327	619	229	329	165
DCC-1006		150	929	433	132.7	61.9	1991	928	279	429	165
DCC-1008		200	929	433	132.7	61.9	2655	1237	329	529	165
DCC-10010		250	929	433	132.7	61.9	3318	1546	379	629	165
DCC-10012		300	929	433	132.7	61.9	3982	1856	429	729	165
DCC-1502	150	50	1390	657	198.6	96.5	993	482	196	246	205
DCC-1504		100	1390	657	198.6	96.5	1986	965	246	346	205
DCC-1506		150	1390	657	198.6	96.5	2978	1447	296	446	205
DCC-1508		200	1390	657	198.6	96.5	3971	1930	346	546	205
DCC-15010		250	1390	657	198.6	96.5	4964	2412	396	646	205
DCC-15012		300	1390	657	198.6	96.5	5957	2895	446	746	205
DCC-2002	200	50	1861	889	265.9	127.0	1330	635	212	262	235
DCC-2006		150	1861	889	265.9	127.0	3989	1905	312	462	235
DCC-20012		300	1861	889	265.9	127.0	7977	3809	462	762	235
DCC-2502	250	50	2565	1068	366.4	152.6	1832	763	235	285	275
DCC-2506		150	2565	1068	366.4	152.6	5497	2289	335	485	275
DCC-25012		300	2565	1068	366.4	152.6	10993	4578	485	785	275
DCC-3002	300	50	3193	1060	456.2	151.4	2281	757	322	372	310
DCC-3006		150	3193	1060	456.2	151.4	6843	2270	422	572	310
DCC-30012		300	3193	1060	456.2	151.4	13685	4541	572	872	310
DCC-4002	400	50	3919	1354	559.9	193.5	2800	967	374	424	350
DCC-4006		150	3919	1354	559.9	193.5	8399	2902	474	624	350
DCC-40012		300	3919	1354	559.9	193.5	16797	5804	624	924	350
DCC-5002	500	50	5114	1733	730.6	247.6	3653	1238	419	469	400
DCC-5006		150	5114	1733	730.6	247.6	10959	3713	519	669	400
DCC-50012		300	5114	1733	730.6	247.6	21918	7427	669	969	400
DCC-6002	600	50	5987	2068	855.3	295.4	4276	1477	429	479	430
DCC-6006		150	5987	2068	855.3	295.4	12829	4431	529	679	430
DCC-60012		300	5987	2068	855.3	295.4	25659	8862	679	979	430
DCC-8002	800	50	8234	2709	1176.3	387.0	5881	1935	484	534	505
DCC-8006		150	8234	2709	1176.3	387.0	17644	5806	584	734	505
DCC-80012		300	8234	2709	1176.3	387.0	35288	11611	734	1034	505
DCC-10002	1000	50	10260	3792	1465.7	541.7	7329	2709	564	614	560
DCC-10006		150	10260	3792	1465.7	541.7	21986	8126	664	814	560
DCC-100012		300	10260	3792	1465.7	541.7	43972	16252	814	1114	560

High Tonnage Cylinders

- Allow to use in tough environments.
- Safety valve in retract side of cylinder helps to prevent damage in case of accidental over-pressurization.
- Plunger wiper reduces contamination ingress, extending cylinder life.
- Double Acting allows for positive retraction.
- Collar Threads, plunger threads and base mounting holes for easy fixturing.
- Interchageable, hardened grooved saddles are standard.
- CR-400 coupler and dust cap included on all model.

Model No.	E Bore Dia. (mm)	F Plunger Diam. (mm)	H Base to Adv Port (mm)	J Saddle Diameter (mm)	K Saddle Protrusion from Plgr.	L Depth of Plunger Hole (mm)	Weight (kg)
DCC-502	99	70	52	50	1	19	17
DCC-504	99	70	52	50	1	19	20
DCC-506	99	70	52	50	1	19	23
DCC-508	99	70	52	50	1	19	27
DCC-5010	99	70	52	50	1	19	31
DCC-5012	99	70	52	50	1	19	34
DCC-1002	130	95	54	75	1	19	19
DCC-1004	130	95	54	75	1	19	29
DCC-1006	130	95	54	75	1	19	40
DCC-1008	130	95	54	75	1	19	50
DCC-10010	130	95	54	75	1	19	61
DCC-10012	130	95	54	75	1	19	71
DCC-1502	159	114	61	94	1	19	39
DCC-1504	159	114	61	94	1	19	52
DCC-1506	159	114	61	94	1	19	65
DCC-1508	159	114	61	94	1	19	78
DCC-15010	159	114	61	94	1	19	92
DCC-15012	159	114	61	94	1	19	105
DCC-2002	184	133	67	113	1	24	55
DCC-2006	184	133	67	113	1	24	91
DCC-20012	184	133	67	113	1	24	146
DCC-2502	216	165	73	145	1	24	89
DCC-2506	216	165	73	145	1	24	136
DCC-25012	216	165	73	145	1	24	207
DCC-3002	241	197	101	177	1	19	184
DCC-3006	241	197	101	177	1	19	232
DCC-30012	241	197	101	177	1	19	303
DCC-4002	267	216	114	196	3	27	270
DCC-4006	267	216	114	196	3	27	330
DCC-40012	267	216	114	196	3	27	421
DCC-5002	305	248	114	228	3	27	401
DCC-5006	305	248	114	228	3	27	480
DCC-50012	305	248	114	228	3	27	599
DCC-6002	330	267	114	247	3	27	474
DCC-6006	330	267	114	247	3	27	565
DCC-60012	330	267	114	247	3	27	701
DCC-8002	387	317	149	297	3	27	741
DCC-8006	387	317	149	297	3	27	868
DCC-80012	387	317	149	297	3	27	1058
DCC-10002	432	343	174	323	3	27	1062
DCC-10006	432	343	174	323	3	27	1213
DCC-100012	432	343	174	323	3	27	1439

Two Speed Hand Pumps

PH-3000, PH-1200

PA-1300, PA-800

- Light weight and compact design.
- Two speed operation for reduced operator fatigue.
- 4 way valving on the PH-464 for operation of double acting cylinders.
- Lower handle effort to minimize operator fatigue.
- Large oil capacity to power a wide range of cylinder or tools.
- Internal pressure relief valve for overload protection.
- Output port 3/8"NPT

PH-462, PH-464

Model No.	TYPE	Usable oil capacity	Pressure Rating		Oil Displacement per Stroke		Dimension			Weight
			1st stage	2nd stage	1st stage	2nd stage	L	B	H	
		(cm^3)	(Bar)		(cc)		(mm)	(mm)	(mm)	(kg)
PH-1200	Single - Speed	1200	14	700	15.50	2.80	536	137	142	9.00
PH-3000		3000	14	700	15.50	2.80	536	137	142	13.00
PH-462		7420	14	700	126.60	4.70	742	308	270	28.00
PA-800		700	14	700	14.90	3.10	300	140	150	3.30
PH-392		900	13	700	11.26	2.47	522	120	177	4.10
PA-1300		1300	14	700	14.90	3.10	510	140	150	4.60
PH-464	Two - Speed	7420	14	700	126.60	4.70	742	308	270	28.00
PA-800		700	14	700	14.90	3.10	350	140	150	3.30
PA-1300		1300	14	700	14.90	3.10	510	140	150	4.30

POWER UNITS

MPE-5

MPE-7

MPE-10

PE-554

PE-0501

Model No.	Horsepower (Hp)	Out Flow Rate (L / Min)	Working Pressure (kg/cm^2)	Volume (mm)	Oil Capacity (L)	Pressure Gauge	Voltage
MPE-5	5	4.3	700	545 x 490 x 960	40	4"x 700 kg/cm^2 2.5"x 400 kg/cm^2	220V x 60Hz
MPE-7	7.5	5.4	700	700 x 600 x 1200	40	4"x 700 kg/cm^2 2.5"x 400 kg/cm^2	220V x 60Hz
MPE-10	10	6	700	700 x 650 x 1200	40	4"x 700 kg/cm^2 2.5"x 400 kg/cm^2	220V x 60Hz
PE-554	1 1/8	11.5	700	356 x 241 x 464	15	4"x 700 kg/cm^2 2.5"x 400 kg/cm^2	220V x 60Hz
PE-0501	0.5	4.2	700	305 x 245 x 500	3.8	4"x 700 kg/cm^2 2.5"x 400 kg/cm^2	220V x 60Hz

STEEL STRAND PUSHER

1. The pusher designed by idea of hydraulic system with low rotation rate and high torque features.
2. The power was driven by motor which operate at a high pressure pump, then transmit through to hydraulic motors for the mechanical means.
3. Maximum 1100RPM.
4. This device provides low and high speed.
5. The Fitting gauge showed pushing length obviously within operation.
6. The machine is capability of adjusting and retracting the superabundant strand at low speed with ease.
7. The strand frame produced by our company is made of most practical iron material.
8. Assembling easily, operation without crane, practical to use, low budget and high work efficiency.

Model No.	Max Threading Capacity	Max Length Threading Capacity	Speed (M/min)	Horsepower (Hp)	Elecnicity	Volume (mm)	Weight (kg)
SSP-7.5	13~16mm	Above 60M	39~230mm	7 1/2 HP	220V x 50/60Hz	1170 x 650 x 780	350
SSP-15	13~16mm	Above 100M	80~160mm	15 HP	220V x 50/60Hz	1880 x 1480 x 1800	1200
SSP-30	13~16mm	Above 160M	80~160mm	30 HP	220V x 50/60Hz	1880 x 1480 x 1800	1360

Fittings

Model No.	Description
 V-66	Used for load holding applications with single and double acting cylinders. Value is manually opened to allow oil to flow back to tank when cylinder retracts.
 V-82	To control cylinder speed. Can also be used as shut-off valve for temporary load holding. (3/8"NPTF female ports)
 BKH-026	To control the flow throngh it, port size 3/8" NPT.
 A-65	14" length with 7 female ports, port size 3/8" NPTF
 M-3	**3-Port Hexagon Manifold** Plugs furnished for all ports 3/8" NPTF
 M-6	**6-Port Hexagon Manifold** Plugs furnished for all ports 3/8" NPTF

Model No.	Hose End Assy and Couplers		Hose Length	Weight
	End One	End Two	(M)	(Kg)
6C2AT-1.8	3/8"NPT	3/8"NPT	1.8	0.9
6C2AT-3			3.0	1.4
6C2AT-6			6.0	2.8

Tee 3/8"NPT on all port
FZ-1612-1

Model No.	Full Scales	Unit Per Division	Dial	Thread Size
	PSI		Ø (mm)	
G4-088	15,000	100psi, 10bar	100	1/2" NPTF
G2-088		200psi, 10bar	63	1/4" NPTF

Coupling 3/8"NPT both size
FZ-1614

Model No.	Gauge port	Male	Female	Dimension Size
GA-4	3/8" NPTF	3/8" NPTF	3/8" NPTF	133 x 32 x 32

Street Elbow 3/8" NPT (M/F)
FZ-1617

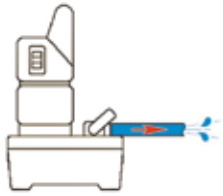
Model No.			Coupler Type	High Flow Coupler
Male Half	Female Half	Complete Set		
CH-604	CR-400	CHR-640	High Flow Coupler	40

Hex nipple 3/8" NPT (M/F)
FZ-16116

Basic Hydraulics

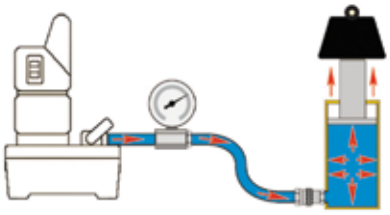
FLOW

A hydraulic pump produces flow



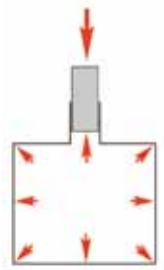
Pressure

Pressure occurs when there is resistance to flow



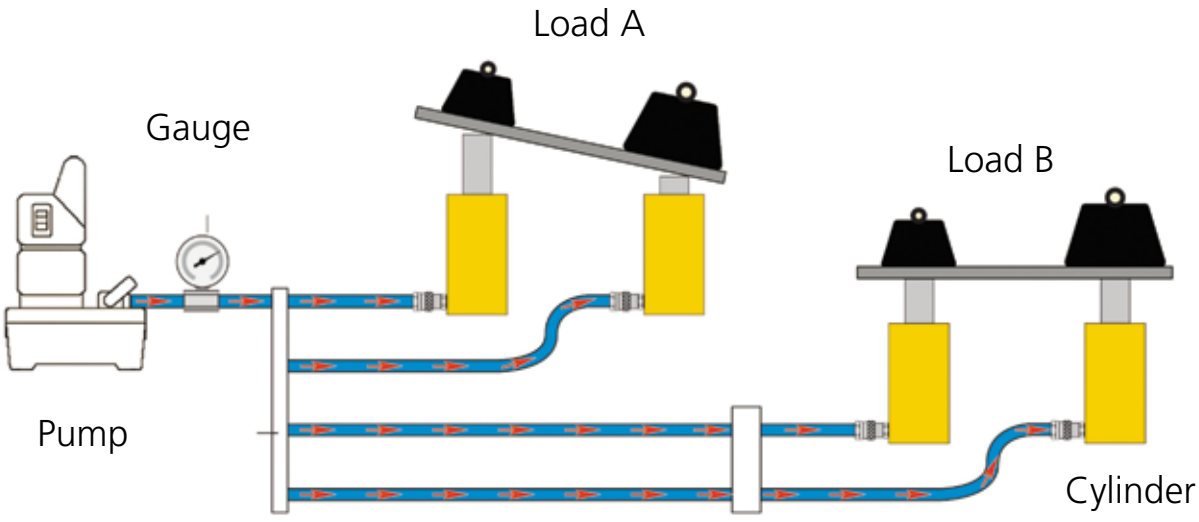
Pascal's Law

Pressure applied at any point upon a confined liquid is transmitted undiminished in all directions (Fig.1) This means that 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 (Fig.2) Cylinders with the lightest load will move fist, and cylinders with the heaviest load will move last (LoadA), 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 (see Cylinder section) must be added to the system (Load B).

X INCORRECT **O CORRECT**

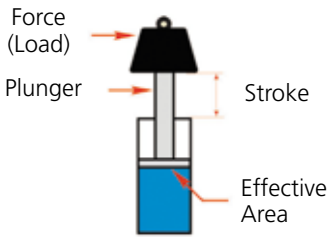


Synchronous Lift or Control Valves to provide uniform of load.

Basic Hydraulics

Force

The amount of force a hydraulic cylinder can generate is equal to the hydraulic pressure times the "effective area" of the cylinder



FORCE	=	HYDRAULIC WORKING PRESSURE	X	CYLINDER EFFECTIVE AREA
F	=	P	X	A

Use this formula to determine either force, pressure or effective area if two of the variables are known.

Example 1
An RC-106 cylinder with 2.24 in^2 effective area operating at 8,000 psi will generate what force?
Force = 8,000 psi x 2.24 in^2 = 17,920 lbs

Example 2
An RC-106 cylinder lifting 14,000 lbs will require what pressure?
Pressure = 14,000 lbs ÷ 2.24 in^2 = 6,250 psi

Example3
An RC-256 cylinder with 5.15 in^2 effective area is required to produce a force of 41,000 lbs. What pressure is required?
Pressure = 41,000 lbs. ÷ 5.15 in^2 = 7961 psi

Example 4
Four RC-308 cylinders each with 6.49 in^2 effective area are required to produce a force of 180,000 lbs. What pressure is required?
Pressure = 180,000 lbs ÷ (4 x 6.49 in^2) = 6933 psi
Remember, since four cylinders are used together, the area for one cylinder must be multiplied by the number of cylinders used.

Example5
A CLL-2506 cylinder with 56.79 in^2 effective area is going to be used with a power source that is capable of 7,5000 psi What is the theoretical force available form that cylinder?
Force = 7.500 psi x 56.79 in^2 = 425,925 lbs.

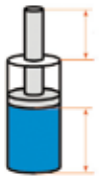
Cylinder Oil Capacity

The volume of oil required for a cylinder (cylinder oil (cylinder oil capacity) is equal to the effective area of the cylinder times the stroke.

CYLINDER OIL CAPACITY	=	CYLINDER EFFECTIVE AREA	X	CYLINDER STROKE

Note : these are theoretical examples and do not take into account the compressibility of oil under high pressure

Example 1
An RC-158 cylinder with 3.14 in^2 effective area and an 8 in stroke will require what volume of oil?
Oil Capacity = 3.14 in^2 x 8 in = 25.12 in^3



Example 2
An RC-5013 cylinder has an effective area of 11.05 in^2 and a storke of 13.25 in. How Much oil will be require?
Oil Capacity = 11.05 in^2 x 13.25 in = 146.41 in^3

Example 3
An RC-10010 cylinder has an effective area of 20.63 in^2 and a stroke of 10.25 in. How much oil will it require?
Oil Capacity = 20.63 in^2 x 10.25 in = 211.46 in^3

Example 4
Four RC-308 cylinders are being used, each with an effective area of 6.49 in^2 and stroke of 8.25 in. How much oil will be require?
Oil Capacity = 6.49 in^2 x 8.25 in = 53.54 in^3 for one cylinder
Multiply by four to obtain the requird capacity : 214.17 in^3

Basic Hydraulic

1 Cylinder
Applies hydraulic force.

2 Cylinder Base Plate
For applications such as lifting where additional cylinder stability is required.

3 Pump
Provides hydraulic flow.

4 Hose
Transports Hydraulic fluid.

5 Male Coupler
For quick connection of the hose to system components.

6 Female Couple
For quick connection of the hose end to the system components.

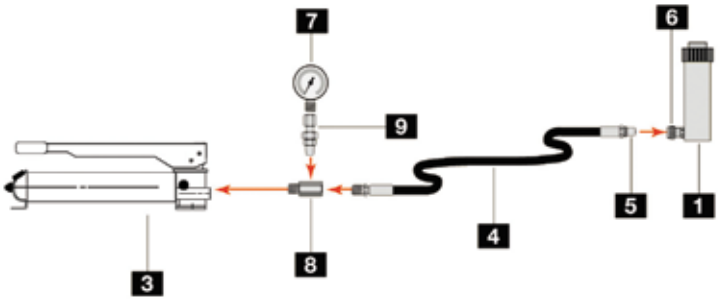
7 Gauge
To monitor pressure of the hydraulic circuit.

8 Gauge Adaptor
For quick and easy gauge installation.

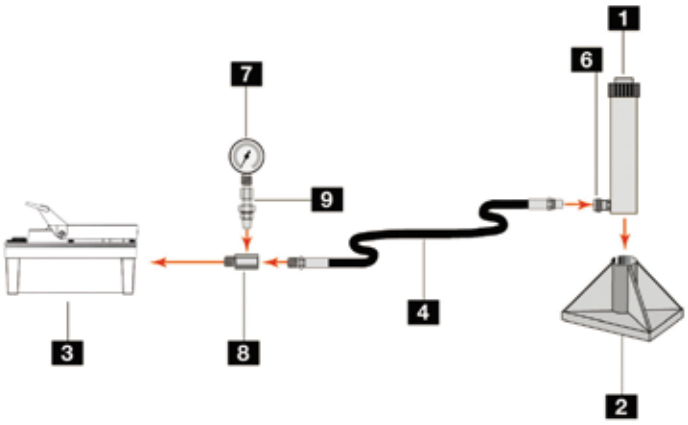
9 Swivel Connector
Allows proper allignment of valves and / or gauges. Used when units being connected cannot be rotated.

10 Auto-damper Valve V-10
Used to protect gauge from damage due to sudden pulses in the system. Needs no adjustment and allows correct positioning of gauge, prior to tightening.

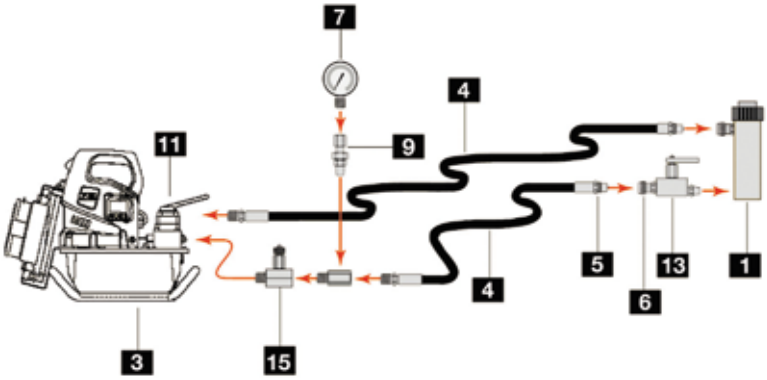
Single-acting push application, such as in a press.
The hand pump offers controlled cylinder advance, but may require many hand pump strokes in longer stroke applications when the cylinder capacity is 25 ton or above.



Single-acting cylinder with longer stroke used for lifting applications.



Double-acting cylinder set-up used for lifting applications where a slow controlled descent of the load must be maintained.



Basic System Set-ups

11 4-may Directional Control Valve
Controls the direction of hydraulic fluid in a double-acting system.

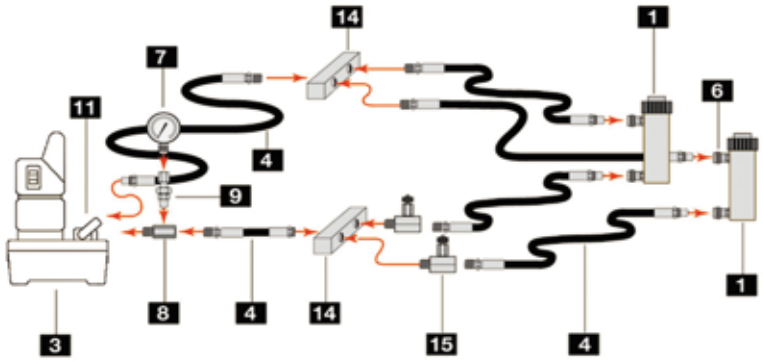
12 3-Way Directional Control Valve
Controls the directional of hydraulic fluid in a single-acting system.

13 Safety Holding Valve
Controls load descent in lifting applications.

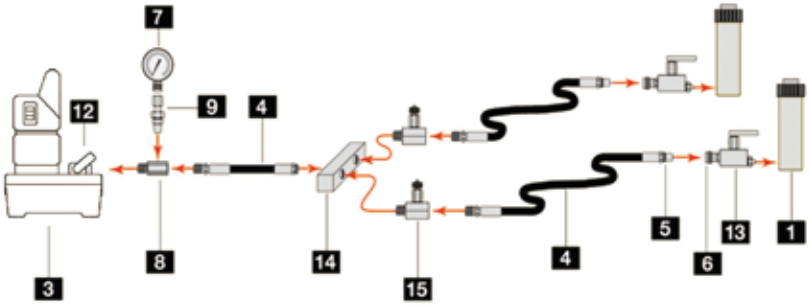
14 Manifold
Allows distribution of hydraulic fluid from one power source to several cylinders.

15 Needle Valve
Regulated the flow of hydraulic fluid to or from the cylinders.

Double-acting cylinder set-up used in a push/pull application.



Two point lifting set-up using single-acting cylinders.



Four point lifting set-up, using single-acting cylinder, flow control valves and safety valves.

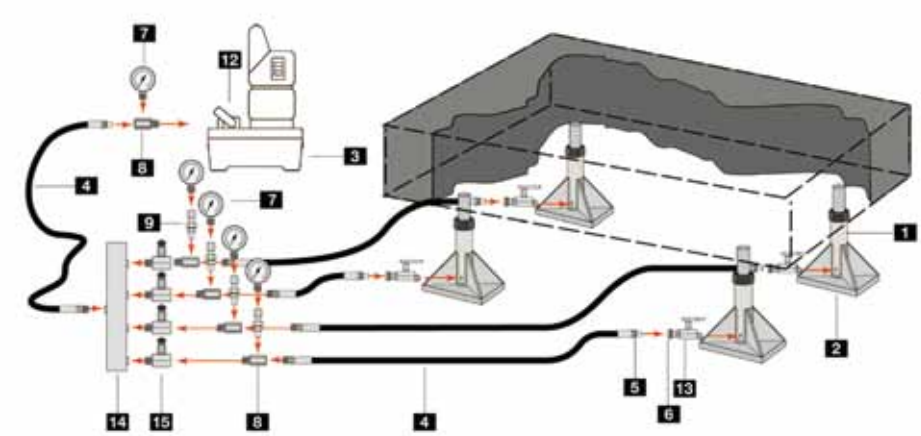


Photo of Projects


吊車運輸