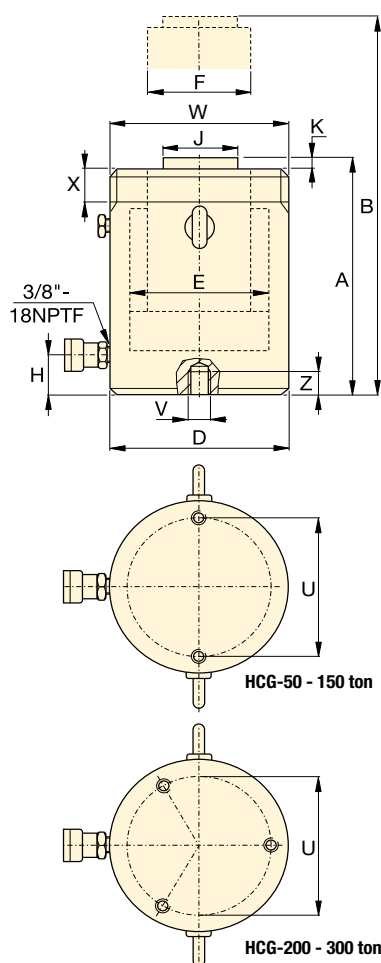


HCG-Series, High Tonnage Cylinders

ENERPAC



HCG-Series, Single-Acting, Gravity Return Cylinders

- Hardened surface resists side-loading and cyclic wear
- Designed to withstand 10% side-load of maximum capacity ¹⁾
- Stop ring to prevent plunger blow-out
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes and collar threads.
- Standard collar thread up to 250 ton models. Collar thread is optional on 300 ton models and higher.

SELECTION CHART 50 - 300 TON HCG-MODELS

For 400 - 1000 ton models, see pages 50-51.

For full product features see pages 44-45.

Cylinder Capacity ton	Stroke (mm)	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)
50	50	HCG502	56 (550)	78,5	393	183
	100	HCG504			785	233
	150	HCG506 ¹⁾			1178	283
	200	HCG508			1571	346
	250	HCG5010			1963	396
	300	HCG5012 ¹⁾			2356	446
100	50	HCG1002	102 (1002)	143,1	716	202
	100	HCG1004			1431	252
	150	HCG1006			2147	302
	200	HCG1008			2863	379
	250	HCG10010			3578	429
	300	HCG10012			4294	479
150	50	HCG1502	153 (1497)	213,8	1069	220
	100	HCG1504			2138	270
	150	HCG1506			3207	320
	200	HCG1508			4276	397
	250	HCG15010			5346	447
	300	HCG15012			6415	497
200	50	HCG2002	202 (1985)	283,5	1418	231
	100	HCG2004			2835	281
	150	HCG2006			4253	331
	200	HCG2008			5671	408
	250	HCG20010			7088	458
	300	HCG20012			8506	508
250	50	HCG2502	259 (2541)	363,1	1815	241
	100	HCG2504			3631	291
	150	HCG2506			5446	341
	200	HCG2508			7261	431
	250	HCG25010			9076	481
	300	HCG25012			10.892	531
300	50	HCG3002	310 (3036)	433,7	2169	296
	100	HCG3004			4337	346
	150	HCG3006			6506	396
	200	HCG3008			8675	446
	250	HCG30010			10.843	496
	300	HCG30012			13.012	546

Collar Thread * (mm)		
Model / Capacity ton	Thread Size	Thread Length
	W	X
HCG50	M130 x 2	30
HCG100	M175 x 3	46
HCG150	M215 x 3	55
HCG200	M250 x 3	63
HCG250	M280 x 3	64
HCG300 *	M305 x 3	73

* Standard collar thread up to 250 ton models. Collar thread is optional on 300 ton models and higher. For collar thread on cylinder add suffix "E002" to model number. Example: HCG3006E002. The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (mm)					
Model / Capacity ton	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCG50	105	M12 x 1,75	22	2	90°
HCG100	150	M12 x 1,75	22	2	90°
HCG150	185	M12 x 1,75	22	2	90°
HCG200	215	M12 x 1,75	22	3	60°
HCG250	245	M12 x 1,75	22	3	60°
HCG300	260	M16 x 2	25	3	60°

¹⁾ HCG506 and HCG5012: 7% side-load of maximum capacity.

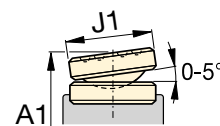
Single-Acting, High Tonnage Cylinders

Capacity:
50 - 300 ton

Stroke:
50 - 300 mm

Maximum Operating Pressure:
700 bar

HCG Series



CATS-Series Tilt Saddle

	Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter	Base to Advance Port	Standard Saddle Diameter	Saddle Protrusion from Plunger		Model Number	Optional Tilt Saddle		
	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)		(kg)	Saddle Diameter J1 (mm)	Collapsed Height A1 (mm)	Saddle Model Number
	233	130	100	70	38	50	3	17	HCG502	71	197	CATS50
	333							20	HCG504		247	
	433							24	HCG506 ¹⁾		297	
	546							29	HCG508		360	
	646							32	HCG5010		410	
	746							36	HCG5012 ¹⁾		460	
	252	175	135	95	38	75	3	33	HCG1002	71	212	CATS101
	352							40	HCG1004		262	
	452							46	HCG1006		312	
	579							58	HCG1008		389	
	679							65	HCG10010		439	
	779							71	HCG10012		489	
	270	215	165	120	41	94	3	56	HCG1502	97	239	CATS150
	370							66	HCG1504		289	
	470							76	HCG1506		339	
	597							94	HCG1508		416	
	697							104	HCG15010		466	
	797							115	HCG15012		516	
	281	250	190	140	47	113	3	81	HCG2002	126	249	CATS200
	381							95	HCG2004		299	
	481							109	HCG2006		349	
	608							136	HCG2008		426	
	708							150	HCG20010		476	
	808							164	HCG20012		526	
	291	280	215	170	53	140	4	107	HCG2502	175	280	CATS300
	391							125	HCG2504		330	
	491							144	HCG2506		380	
	631							182	HCG2508		470	
	731							201	HCG25010		520	
	831							219	HCG25012		570	
	346	305	235	200	58	140	4	158	HCG3002	175	335	CATS300
	446							182	HCG3004		385	
	546							206	HCG3006		435	
	646							230	HCG3008		485	
	746							254	HCG30010		535	
	846							278	HCG30012		585	

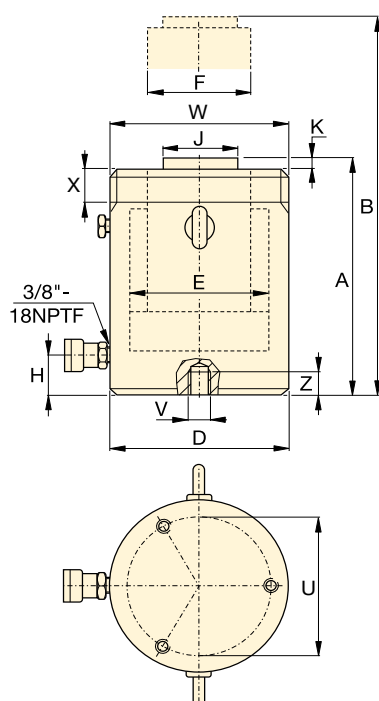
²⁾ A1 = Collapsed height including CATS-Series tilt saddle.

HCG-Series, High Tonnage Cylinders

ENERPAC

HCG-Series, Single-Acting, Gravity Return Cylinders

- Hardened surface resists side-loading and cyclic wear
- Designed to withstand 10% side-load of maximum capacity
- Stop ring to prevent plunger blow-out
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes
- Optional collar threads on 300 ton models and higher capacities.



SELECTION CHART 400 - 1000 TON HCG-MODELS

For 50 - 300 ton models, see pages 48-49.

For full product features see pages 44-45.

Cylinder Capacity ton	Stroke (mm)	Model Number	Maximum Cylinder Capacity at 700 bar ton (kN)	Cylinder Effective Area (cm ²)	Oil Capacity (cm ³)	Collapsed Height A (mm)
400	50	HCG4002	409 (4008)	572,6	2863	321
	100	HCG4004			5726	371
	150	HCG4006			8588	421
	200	HCG4008			11.451	471
	250	HCG40010			14.314	521
	300	HCG40012			17.177	571
500	50	HCG5002	522 (5114)	730,6	3653	344
	100	HCG5004			7306	394
	150	HCG5006			10.959	444
	200	HCG5008			14.612	494
	250	HCG50010			18.265	544
	300	HCG50012			21.918	594
600	50	HCG6002	611 (5987)	855,3	4276	352
	100	HCG6004			8553	402
	150	HCG6006			12.829	452
	200	HCG6008			17.106	502
	250	HCG60010			21.382	552
	300	HCG60012			25.659	602
800	50	HCG8002	831 (8149)	1164,2	5821	404
	100	HCG8004			11.642	454
	150	HCG8006			17.462	504
	200	HCG8008			23.283	554
	250	HCG80010			29.104	604
	300	HCG80012			34.925	654
1000	50	HCG10002	1085 (10.644)	1520,5	7603	442
	100	HCG10004			15.205	492
	150	HCG10006			22.808	542
	200	HCG10008			30.411	592
	250	HCG100010			38.013	642
	300	HCG100012			45.616	692

Optional Collar Thread (mm)

Model / Capacity ton	Thread Size	Thread Length
	W	X
HCG400	M350 x 3	83
HCG500	M400 x 4	90
HCG600	M430 x 4	100
HCG800	M505 x 5	122
HCG1000	M570 x 5	137

Collar thread is optional on 300 ton models and higher. For collar thread on cylinder add suffix "E002" to model number. Example: HCG4006E002

The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (mm)

Model / Capacity ton	Bolt Circle	Thread Size	Minimum Thread Depth	Number of Holes	Angle from Coupler
	U	V	Z		
HCG400	300	M16 x 2	25	3	60°
HCG500	340	M24 x 3	36	3	60°
HCG600	370	M24 x 3	36	3	60°
HCG800	440	M24 x 3	36	3	60°
HCG1000	500	M24 x 3	36	3	60°

Single-Acting, High Tonnage Cylinders



▲ Offshore wind turbines levelling: Enerpac's synchronous lifting system was the solution for levelling support cross pieces on 80 wind turbines.

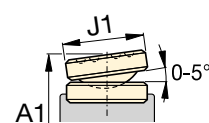
HCG Series



Capacity:
400 - 1000 ton

Stroke:
50 - 300 mm

Maximum Operating Pressure:
700 bar



CATS-Series Tilt Saddle

	Extended Height	Outside Diameter	Cylinder Bore Diameter	Plunger Diameter	Base to Advance Port	Standard Saddle Diameter	Saddle Protrusion from Plunger		Model Number	Optional Tilt Saddle		
	B (mm)	D (mm)	E (mm)	F (mm)	H (mm)	J (mm)	K (mm)			Saddle Diameter J1 (mm)	Collapsed Height * A1 (mm)	Saddle Model Number
	371	350	270	220	74	159	4	227	HCG4002	210	369	CATS400
	471							257	HCG4004		419	
	571							287	HCG4006		469	
	671							317	HCG4008		519	
	771							347	HCG40010		569	
	871							378	HCG40012		619	
	394	400	305	250	79	179	4	319	HCG5002	230	392	CATS500
	494							359	HCG5004		442	
	594							399	HCG5006		492	
	694							439	HCG5008		542	
	794							479	HCG50010		592	
	894							519	HCG50012		642	
	402	430	330	270	85	194	4	378	HCG6002	250	405	CATS600
	502							424	HCG6004		455	
	602							470	HCG6006		505	
	702							516	HCG6008		555	
	802							562	HCG60010		605	
	902							608	HCG60012		655	
	454	505	385	320	100	224	4	606	HCG8002	275	461	CATS800
	554							671	HCG8004		511	
	654							735	HCG8006		561	
	754							800	HCG8008		611	
	854							864	HCG80010		661	
	954							929	HCG80012		711	
	492	570	440	340	114	249	4	840	HCG10002	300	519	CATS1000
	592							916	HCG10004		569	
	692							992	HCG10006		619	
	792							1068	HCG10008		669	
	892							1145	HCG100010		719	
	992							1221	HCG100012		769	

* A1 = Collapsed height including CATS-Series tilt saddle.