

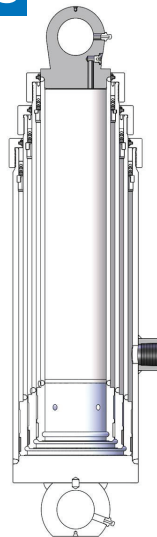
Technical Data Sheet



HC SERIES Telescopic cylinders

HC SERIES TELESCOPIC CYLINDERS

The HC series is a robust and reliable traditionally designed telescopic cylinder. It comes with various combinations of stroke and closed height with 3, 4 or 5 moving stages.



PRODUCT FEATURES

- All welded internal parts
- Rugged nylon guide rings with maximized overlap
- Breather on all sizes
- Easy to adjust traditional Vee-pack seals
- Gland nut design throughout
- Both joints with grease nipples as standard
- Strong long lasting weld arrangement of cylinder fittings
- Customization on stroke and closed height for application adaptation (Ask HYDRECO directly)
- Large oil inlet porting for safe hose connections
- All stages chromed

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HYDRAULICS

HYDRECO

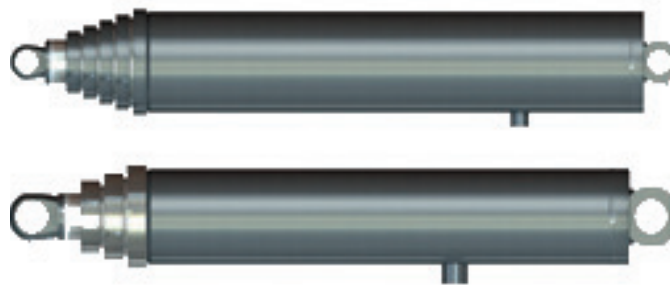
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HYDRECO Part #	CUSTOM HOIST	PARKER	HYCO	MUNCIE
HC53-603-084	53-4592-84	S53DC-14-84	70057-53-84	5-3-084-A00
HC53-603-086	-	-	-	-
HC63-702-110	63-4402-108	S63DC-44-111	103347-63-111D	-
HC63-702-120	63-4402-120	S63DC-47-120	70021-63-120D	6-3-120-A00
HC63-702-124	-	S63DC-44-123	70449-63-123	-
HC63-702-126	63-4402-126	S63DC-47-126	-	6-3-126-A00
HC63-702-140	63-4402-140	S63DC-47-140	-	6-3-140-A00
HC74-703-135	74-4401-135	S74DC-40-135	70016-74-135D	7-4-135-A00
HC74-703-156	74-4401-156	S74DC-40-156	70016-74-156D	7-4-156-A00
HC74-703-161	74-4401-161	S74DC-40-161	-	7-4-161-A00
HC74-703-167	74-4401-167	S74DC-40-167	-	7-4-167-A00
HC85-702-190	85-4402-190	S85DC-40-190	70000-815-190D	8-5-190-A00
HC85-702-220	85-4402-220	S85DC-40A-220	70000-815-220D	8-5-220-A00
HC85-702-235	85-4402-235	S85DC-40-235	70000-815-235D	8-5-235-A00
HC85-702-265	85-4453-265	S85DC-40A-265	7000-815-265D	8-5-235-A00

HC SERIES Cross Over Information



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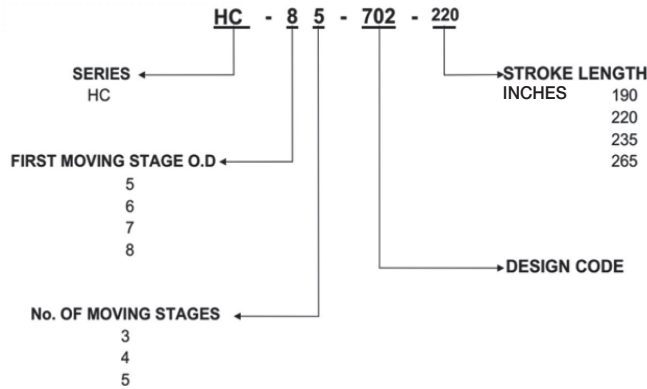
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Designation Codes

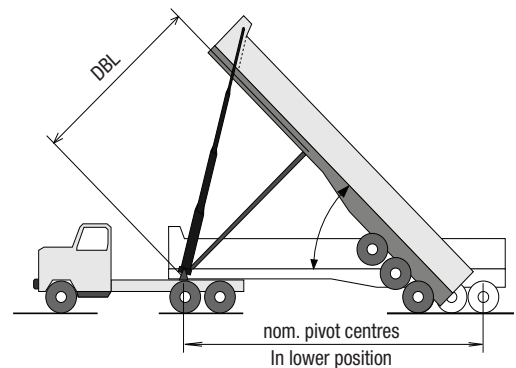
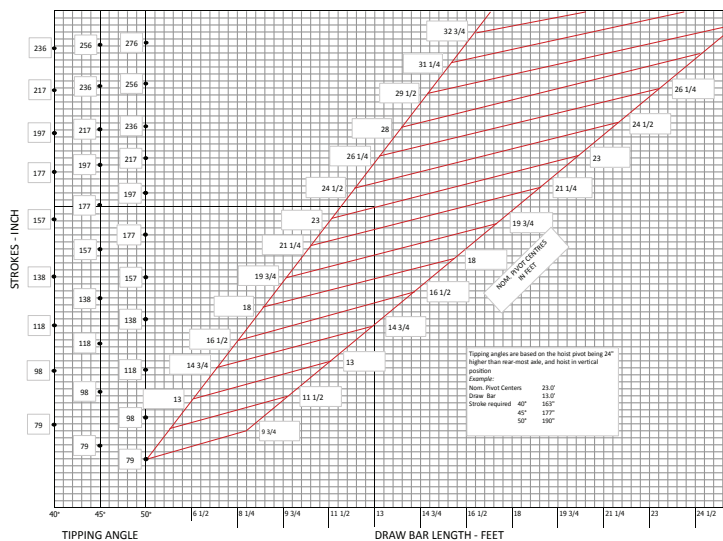


Tip over axle angle calculations

Stroke selection chart

This chart is for basic hoist selection calculations only. Tipping angles specified are based on the hoist pivot being 24" higher than the rearmost axle and the hoist mount in a vertical position. A hoist with a closed cylinder height of 60" has been used in these calculations but a variation in height of 10" either way will have minimal effect on the result. Nominal pivot centres is the distance, measured in a horizontal plane, between the hoist and draft arm pivot centres (same) and the rearmost axle centre line when the body is in a down position. The minimum recommended tipping angle is 48°

Red lines shaded area are nominal pivot centres (foot) in lowered position.



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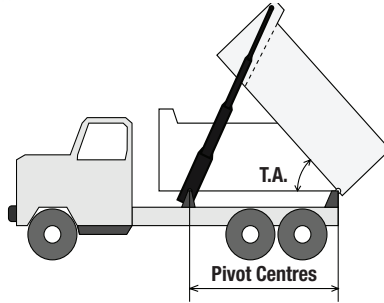
Tipping Angle Calculations

WHERE PIVOT CENTRES & STROKE ARE KNOWN USE FORMULAE

$$\frac{\text{STROKE}}{\text{PIVOT CENTRES}} \times 59 = \text{ANGLE OF TIP}$$

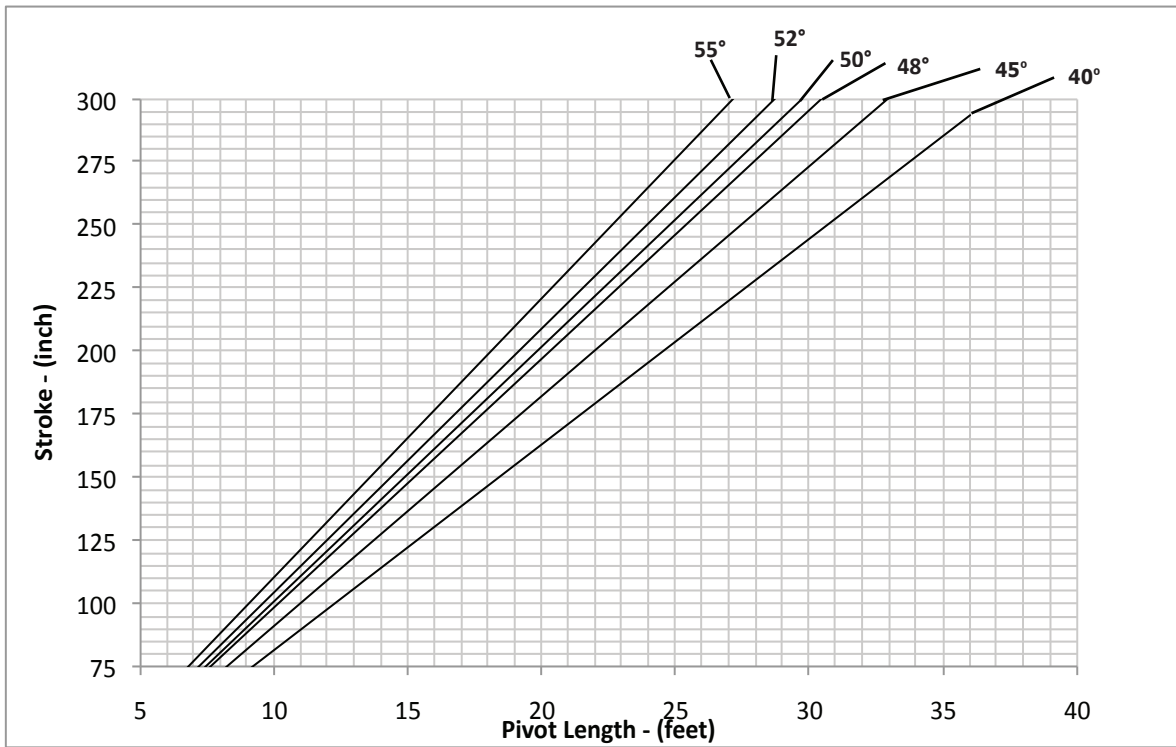
WHERE PIVOT CENTRES & ANGLE OF TIP ARE KNOWN USE FORMULAE

- 40° ANGLE = PIVOT CENTRES X 0.68 = HOIST STROKE
- 45° ANGLE = PIVOT CENTRES X 0.76 = HOIST STROKE
- 48° ANGLE = PIVOT CENTRES X 0.82 = HOIST STROKE
- 50° ANGLE = PIVOT CENTRES X 0.84 = HOIST STROKE
- 52° ANGLE = PIVOT CENTRES X 0.87 = HOIST STROKE
- 55° ANGLE = PIVOT CENTRES X 0.92 = HOIST STROKE



PIVOT CENTRES

- A. The pivot and hoist pivot are on the same horizontal plane.
- B. The hoist is vertical when closed.

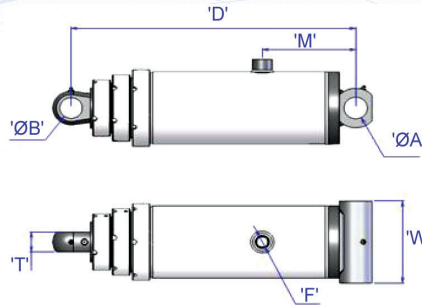


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Designation	CTC Height 'D'	Stroke	Extended Height	Rod Eye Width 'T'	Dimension 'W'	Dimension 'OA'	Dimension 'OB'	Dimension 'M'	Inlet Port 'F'	Weight lbs	Tipping Capacity
HC-53-603-84	42"	84"	126"	2"	7.2"	2.14"	2.08"	13.35"	1" - 1 1/2" DRY SEAL NPTF	181	20t
HC53-603-86	44"	86"	130"	2"	7.2"	2.14"	2.08"	13.35"		194	20t
HC63-702-110	49"	110"	159"	2"	8.2"	2.14"	2.08"	13.35"		263	28t
HC63-702-120	53"	120"	173"	2"	8.2"	2.14"	2.08"	13.35"		274	28t
HC63-702-124	55"	124"	179"	2"	8.2"	2.14"	2.08"	13.35"		279	28t
HC63-702-126	55"	126"	181"	2"	8.2"	2.14"	2.08"	13.35"		284	28t
HC63-702-140	60"	140"	200"	2"	8.2"	2.14"	2.08"	13.35"		307	28t
HC74-702-120	45"	120"	165"	2"	9.2"	2.14"	2.08"	13.35"		327	38t
HC74-702-135	48"	135"	183"	2"	9.2"	2.14"	2.08"	13.35"		333	38t
HC74-702-156	53"	156"	209"	2"	9.2"	2.14"	2.08"	13.35"		368	38t
HC74-702-161	55"	161"	216"	2"	9.2"	2.14"	2.08"	13.35"		408	38t
HC74-702-167	56"	167"	223"	2"	9.2"	2.14"	2.08"	13.35"		38	38t
HC85-702-190	54"	190"	244"	2"	10.2"	2.14"	2.08"	13.35"		487	50t
HC85-702-220	60"	220"	280"	2"	10.2"	2.14"	2.08"	13.35"		549	50t
HC85-702-235	65"	235"	300"	2"	10.2"	2.14"	2.08"	13.35"		606	50t
HC85-702-265	71"	265"	336"	2"	10.2"	2.14"	2.08"	13.35"		662	50t

Pressure Ratings:

All Sizes:

Normal operating pressure 138 bar (2000 psi)

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