

WELDED TYPE

DUMP HOIST



Type:	Welded Hydraulic Cylinder
Action:	Double Acting
Rod End:	Heavy-Duty Rod with Through-Hole for Pin Attachment
Base End:	Mounting Flange is a One Solid Machined Piece
Bore:	5.00" and 6.00"
Stroke:	15.75", 16", 20" and 21.5"
Rod:	Standard Chrome Plated Rod Steel 1045
Pressure:	3500 PSI
Application:	Dump Trailers & Various Hoist Equipment



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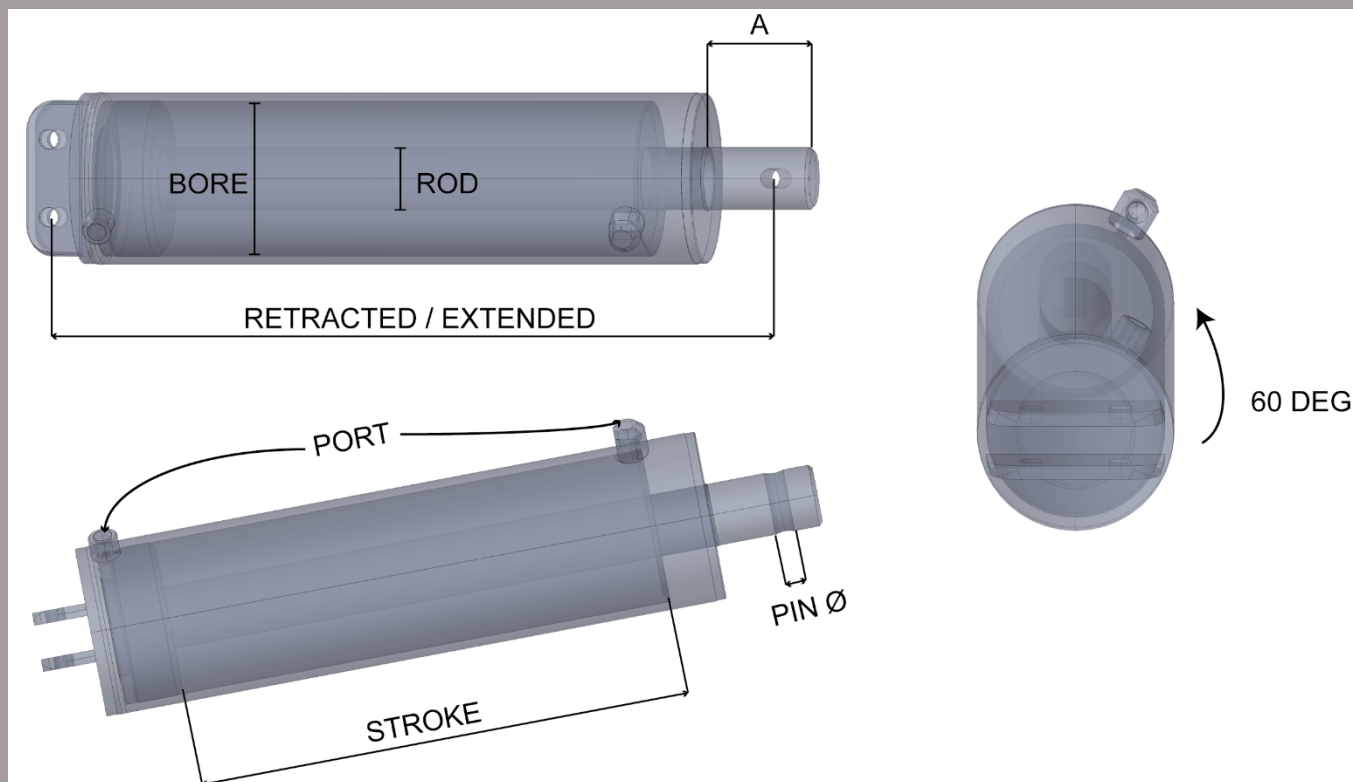


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5" BORE		DUMP HOIST WELDED DOUBLE ACTING HYDRAULIC CYLINDER - 3500 PSI									
SKU	Bore	Stroke	Rod Ø	Retracted	Extended	A	Pin Ø (Base)	Pin Ø (rod)	Port Size	Column Load (LBs)	Weight (LBs)
HT 5X15.75	5"	15.75"	2"	23.5"	39.25"	3.5"	0.63"	0.63"	SAE 6	57,700	66
HT 5X16	5"	16"	2.5"	25"	41"	3.125"	1.262"	1.262"	3/8-18 NPT	57,724	80
HT 5X20	5"	20"	2"	27.5"	47.5"	3.2"	0.63"	0.63"	SAE 6	57,700	74
HT 5X21.5	5"	21.5"	2"	29.37"	50.87"	3.57"	0.63"	0.63"	SAE 6	57,700	78

TELESCOPIC TYPE

BLEEDERLESS - PARKER / CUSTOM

HOIST



Type:	Hydraulic Cylinder
Action:	Single Acting
Rod End:	Options include pin-eye drilled thru, clevis, and threaded ends
Base End:	Cross tube, trunnion, flange, and other common OEM-style options
Stages	2 to 4 moving stages
Nominal stage OD range:	4 to 8
Rod:	Standard Chrome Plated Rod Steel 1045
Application:	Dump trailers, tipping bodies, and other OEM hoist equipment
Replacement	Hyco®, Parker®, Hyva®, Custom Hoist®, and other standard SAT models



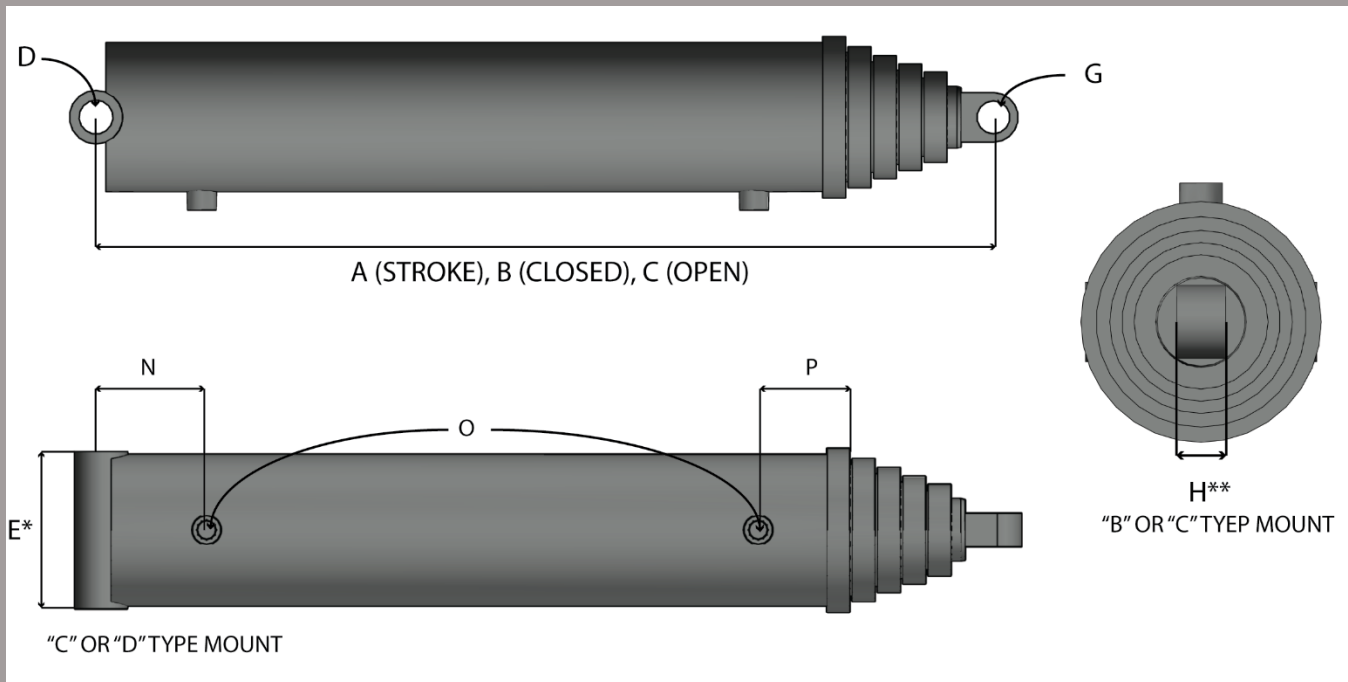
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EXAMPLES OF PARKER CYLINDER CODES

S42CC-19-40

S - SINGLE ACTING TELESCOPIC (SAT)
 SD - DOUBLE ACTING TELESCOPIC (DAT)
 4 - NUMBER OF MOVING STAGES OR SLEEVES IN TELESCOPIC CYLINDER
 2 - MOUNTING OPTION ON BODY/BASE END OF CYLINDER
 C - MOUNTING OPTION ON ROD / PLUNGER END OF CYLINDER
 C - MODIFICATION OR DESIGN VARIATION
 19 - LENGTH OF CYLINDER STROKE IN INCHES

MOUNTING OPTIONS																
CODE LETTER		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
MOUNT		PLAIN - NO MOUNT	PIN EYE DRILLED THRU MOUNT	PIN EYE DRILLED THRU LUG	CROSS TUBE	THREADED	DRILLED AND TAPPED	FLANGE MOUNT AT BASE	FLANGE MOUNT MID-BODY	FOOT/PAD MOUNT	CENTERLINE MOUNT	DOUBLE LUG CLEVIS MOUNT	TRUNNION MOUNT	ROD END DRILLED AND TAPPED	BALL MOUNT	SOCKET MOUNT
MOUNT LOCATION	BODY	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
	ROD	✓	✓	✓	✓	✓	✓					✓		✓	✓	✓

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2 STAGE			BLEEDERLESS-CUSTOM HOIST/PARKER SINGLE ACTING HYDRAULIC CYLINDER										
Model	NOMINAL STAGE OD	NUMBER STAGES	A STROKE	B CLOSED	C OPEN	D PIN	E WIDTH	G PIN	H WIDTH	N LOCATION	O SIZE	P LOCATION	WEIGHT LBS
SAT42CC-19-40	4	2	40.00	32.44	72.44	1.50	2.00	1.50	2.00	14"	3/4" NPT		52
SAT52CC-41-54.62	5	2	54.62	38.00	92.62	2.50	3.62	2.50	3.62	3.88"	1" NPT		120
SAT52CC-41-67.25	5	2	67.25	46.81	114.06	2.50	3.62	2.50	3.62	3.88"	1" NPT		145
SAT52DB-9-67.50	5	2	67.50	46.75	114.25	3.00	5.50	2.00	3.00	20"	1" NPT		135

3 STAGE			BLEEDERLESS-CUSTOM HOIST/PARKER SINGLE ACTING HYDRAULIC CYLINDER										
Model	NOMINAL STAGE OD	NUMBER STAGES	A STROKE	B CLOSED	C OPEN	D PIN	E WIDTH	G PIN	H WIDTH	N LOCATION	O SIZE	P LOCATION	WEIGHT LBS
SAT43DB-3-75	4	3	75.00	33.88	108.88	2.00	5.00	1.25	1.69		3/4" NPT	19"	85
SAT53DB-13-60	5	3	60.00	30.00	90.00	2.00	6.00	1.50	2.63		1" NPT	19"	120
SAT53DB-18-90	5	3	90.00	39.75	129.75	2.00	6.00	1.50	2.63		1" NPT	19"	200
SAT53DC-65-104	5	3	104.00	47.69	151.69	2.00	7.00	1.75	2.00		1" NPT	15.50"	175
SAT53DC-65-107	5	3	107.56	48.38	155.94	2.00	7.00	1.75	2.00		1" NPT	9.94"	178
SAT53DC-65-120	5	3	120.13	53.06	173.19	2.00	7.00	1.75	2.00		1" NPT	15.50"	195
SAT53DC-65-126	5	3	126.63	54.56	181.19	2.00	7.00	1.75	2.00		1" NPT	16.12"	205
SAT53DC-66-72	5	3	72.00	37.19	109.19	2.00	7.00	1.63	1.50	19.50"	1" NPT		165
SAT53DC-66-84	5	3	84.00	41.19	125.19	2.00	7.00	1.63	1.50	19.50"	1" NPT		170
SAT53DC-68-105	5	3	105.00	48.50	153.50	2.00	7.75	1.75	1.50	24.81"	1" NPT		170
SAT53DC-68-120	5	3	120.00	52.50	172.50	2.00	7.75	1.75	1.50	24.81"	1" NPT		220
SAT53DC-68-123	5	3	123.00	54.50	177.50	2.00	7.75	1.75	1.50	24.81"	1" NPT		232
SAT53DC-68-99	5	3	99.00	46.50	145.50	2.00	7.75	1.75	1.50	24.81"	1" NPT		165
SAT63DC-101-104	6	3	103.94	47.00	150.94	2.00	7.00	2.00	2.00	20.81"	1" NPT		250
SAT63DC-101-107	6	3	107.56	48.38	155.94	2.00	7.00	2.00	2.00	20.81"	1" NPT		256
SAT63DC-101-120	6	3	120.06	52.62	172.68	2.00	7.00	2.00	2.00	20.81"	1" NPT		275
SAT63DC-101-126	6	3	126.31	54.56	180.87	2.00	7.00	2.00	2.00	20.81"	1" NPT		285
SAT63DC-101-140	6	3	140.25	59.81	200.06	2.00	7.00	2.00	2.00	20.81"	1" NPT		310
SAT63DC-101-150	6	3	149.88	63.00	212.88	2.00	7.00	2.00	2.00	20.81"	1" NPT		325
SAT63DC-101-86	6	3	86.75	40.88	127.63	2.00	7.00	2.00	2.00	20.81"	1" NPT		225
SAT63DC-101-92	6	3	92.00	45.00	137.00	2.00	7.00	2.00	2.00	20.81"	1" NPT		195
SAT63DC-102-120	6	3	120.00	53.50	173.50	2.38	8.00	2.19	1.50	24.91"	1" NPT		270
SAT63DC-102-126	6	3	126.00	55.50	181.50	2.38	8.00	2.19	1.50	24.91"	1" NPT		275
SAT63DC-102-138	6	3	138.00	59.50	197.50	2.38	8.00	2.19	1.50	24.91"	1" NPT		300
SAT63DC-102-150	6	3	150.00	66.00	216.00	2.38	8.00	2.19	1.50	24.91"	1" NPT		330
SAT63DC-102-162	6	3	162.00	67.50	229.50	2.38	8.00	2.19	1.50	24.91"	1" NPT		330
SAT63DC-79-67	6	3	67.00	36.50	103.50	3.00	7.88	1.75	1.50	20.50"	1" NPT		180
SAT63DC-96-130	6	3	130.00	56.00	186.00	2.00	7.00	2.00	2.00	20.81"	1" NPT		295
SAT63DC-96-82.50	6	3	82.50	43.56	126.06	2.00	7.00	2.00	2.00	20.81"	1" NPT		230
SAT63DC-97-111	6	3	111.00	49.94	160.94	2.00	7.00	2.00	2.00	3.81"	1" NPT	24"	270
SAT63DC-97-123	6	3	123.00	54.94	177.94	2.00	7.00	2.00	2.00	3.81"	1" NPT	29"	285
SAT73DC-66-110	7	3	110.63	50.06	160.69	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	335
SAT73DC-66-120	7	3	120.00	53.12	173.12	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	360
SAT73DC-66-124	7	3	124.88	54.81	179.69	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	370
SAT73DC-66-129	7	3	129.00	56.50	185.50	2.00	8.25	2.00	2.00	8.56"	1" NPT	4.62"	385
SAT73DC-66-140	7	3	140.44	60.00	200.44	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	400
SAT73DC-66-150	7	3	150.00	63.50	213.50	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	420

4 STAGE			BLEEDERLESS-CUSTOM HOIST SINGLE ACTING HYDRAULIC CYLINDER										
Model	NOMINAL STAGE OD	NUMB ER STAG ES	A STROKE	B CLOSED	C OPEN	D PIN	E WIDTH	G PIN	H WIDTH	N LOCATIO N	O SIZE	P LOCATION	WEIGHT LBS
SAT64DB-12-135	6	4	135.00	47.19	182.19	1.75	8.00	1.50	2.69			5.50"	275
SAT64DB-12-156	6	4	156.00	53.19	209.19	1.75	8.00	1.50	2.69			5.50"	293
SAT64DC-14-156	6	4	156.00	53.62	209.62	2.00	7.25	2.00	1.75	6.31"	1" NPT		310
SAT64DC-15-157	6	4	157.00	58.56	215.56	1.50	7.00	1.50	2.00	4.31"	1" NPT		310
SAT74DC-74-120	7	4	120.00	44.12	164.12	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	325
SAT74DC-74-135	7	4	135.00	48.44	183.44	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	375
SAT74DC-74-140	7	4	140.00	49.75	189.75	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	365
SAT74DC-74-156	7	4	156.00	53.75	209.75	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	388
SAT74DC-74-161	7	4	161.75	55.31	217.06	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	405
SAT74DC-74-180	7	4	180.00	61.12	241.12	2.00	8.25	2.00	2.00	7.06"	1" NPT	4.62"	430
SAT84DC-40-170	8	4	170.00	57.25	227.25	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	570
SAT84DC-66-140	8	4	140.00	49.75	189.75	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	488
SAT84DC-66-148	8	4	147.75	51.50	199.25	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	515
SAT84DC-66-156	8	4	156.00	53.75	209.75	2.00	9.50	2.00	2.00	5.56"	1" NPT	5.62"	535
SAT84DC-66-161	8	4	160.00	55.75	215.75	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	555
SAT84DC-66-170	8	4	170.00	57.25	227.25	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	568
SAT84DC-66-180	8	4	180.00	59.75	239.75	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	591
SAT84DC-66-188	8	4	188.00	61.75	249.75	2.00	9.50	2.00	2.00	6.50"	1" NPT	5.62"	610

TELESCOPIC TYPE

7 TON AND 12 TON



Type:	Telescopic Hydraulic Cylinder
Action:	Single Acting
Rod End:	Drilled pinhole
Base End:	Pin mount or clevis
Stages	3 moving stages
Nominal stage OD range:	5" to 9"
Rod:	Standard Chrome Plated Rod Steel 1045
Pressure:	3000 PSI
Application:	Dump trucks, trailers, and tipping equipment with rated lifting capacities of 7 to 12 ton



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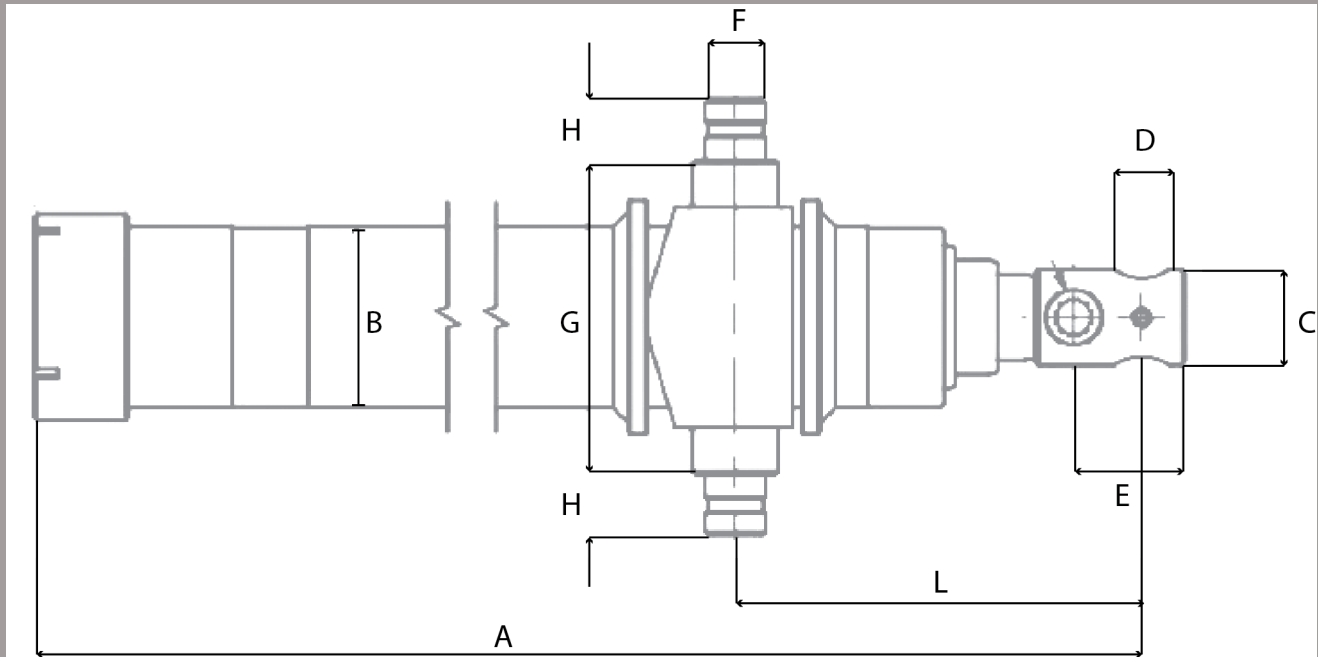


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7 TON		INVERSE SINGLE ACTING TELESCOPIC CYLINDER									
MODEL	STROKE	A (")	B (")	C (")	D (")	E (")	F (")	G (")	H (")	L (")	WEIGHT (KGS)
HTC-07833	78	35.5	3.75	2	1.063	2.5	1.25	6.5	1.25	7	37
HTC-09033	90	39.5	3.75	2	1.063	3.0	1.25	6.5	1.25	7	41
HTC-10833	108	45	3.75	2	1.063	3.0	1.25	6.5	1.25	7	46

12 TON		INVERSE SINGLE ACTING TELESCOPIC CYLINDER									
MODEL	STROKE	A (")	B (")	C (")	D (")	E (")	F (")	G (")	H (")	L (")	WEIGHT (KGS)
HTC-07843	78	34.75	4.4	2	1.063	2.25	1.5	7.5	1.5	7	48
HTC-09043	90	38.75	4.4	2	1.063	2.25	1.5	7.5	1.5	7	52
HTC-10843	108	44.75	4.4	2	1.063	2.25	1.5	7.5	1.5	7	59
HTC-12043	120	48.75	4.4	2	1.063	2.25	1.5	7.5	1.5	7	64
HTC-14443	144	56.78	4.4	2	1.063	2.25	1.5	7.5	1.5	7	74

PIN TO PIN MOUNT CYLINDER

DEFINITION

Pin-to-Pin cylinders have a pivot pin at both the base end and the rod end. This allows the cylinder to pivot freely at both connection points as it extends and retracts.

ADVANTAGES

- Easy installation and removal with simple pin connections
- Ideal for applications with changing alignment during operation
- Compact design for limited space applications
- Handles high side loads when paired with spherical bearings

APPLICATION

- Dump trailers and trucks (front-end hoist cylinders)
- Agricultural equipment lift arms
- Mobile equipment with pivoting linkages



TRUNNION MOUNT CYLINDER

DEFINITION

A Trunnion mount uses pivot pins fixed to the cylinder body rather than the ends. These pins are positioned either at the mid-section (mid-trunnion) or near the base/rod ends, allowing the cylinder body to rotate in fixed trunnion brackets

APPLICATION

- Industrial presses
- Material handling booms
- OEM equipment where mounting clearance is critical



ADVANTAGES

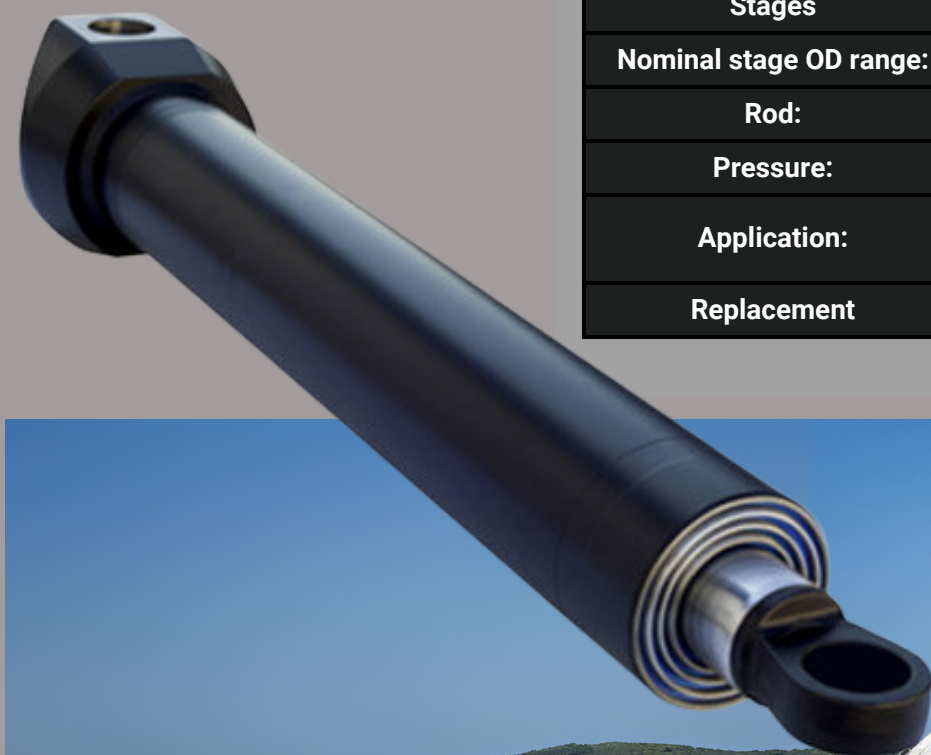
- Reduces bending loads on the piston rod by keeping the load path aligned
- Ideal for applications where the cylinder body must pivot but space is limited at the ends
- Allows for longer stroke lengths without excessive side load

Feature	Pin-to-Pin Mount	Trunnion Mount
Pivot Location	At base and rod ends	On the cylinder body (mid or end)
Installation	Simple pin insertion	Requires trunnion brackets
Side Load Capacity	Moderate (higher with spherical bearings)	Higher due to better load alignment
Space Requirements	More length needed	Shorter overall mounting length
Common Use	Dump trailers, ag equipment	Industrial presses, long-stroke booms

TELESCOPIC TYPE

FEE FRONT EYE (PIN TO PIN)

Type:	Front-End Telescopic Hydraulic Cylinder
Action:	Single Acting
Rod End:	Piston eye with cross pin
Base End:	Bottom eye with cross pin
Stages	3 to 5 moving stages
Nominal stage OD range:	5" to 9"
Rod:	Standard Chrome Plated Rod Steel 1045
Pressure:	3500 PSI
Application:	Dump trailers, tipper trucks, agricultural and vocational hauling
Replacement	HYVA® FEE-type front-end cylinders



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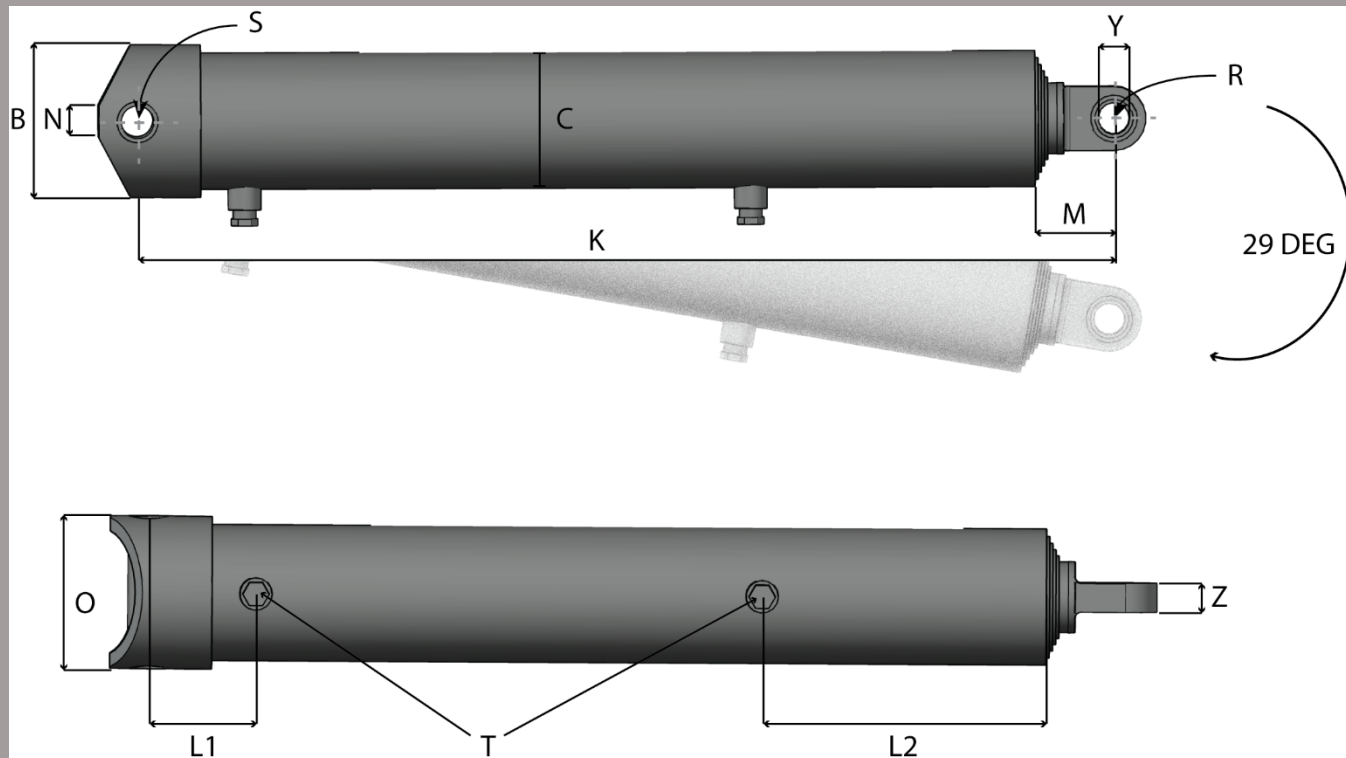


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3 STAGE			FRONT EYE (PIN TO PIN) SINGLE ACTING TELESCOPIC HYDRAULIC CYLINDER - 3500 PSI															
Model	LBS	K*	Total Gal.	O	B	C	L1	L2	Z	M*	S	T	N	Y	R	Last stage	Stroke	Max PSI
SAT A5-3-83-FEE	163	42.31	4.2	6.63	5.69	5.13	13	-	1.63	4	2.19	1	2.13	2	2.06	2.83	83.2	3626
SAT A6-3-83-FEE	196	42.31	5.8	7	6.56	5.63	13	-	1.63	4	2.19	1	2.13	2	2.06	3.58	83.2	3626
SAT A6-3-96-FEE	236	51.19	7.1	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	96	3626
SAT A6-3-101-FEE	223	48.25	7.1	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	100.9	3626
SAT A6-3-110-FEE	236	51.19	7.7	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.13	2	2.06	3.58	109.6	3626
SAT A6-3-119-FEE	249	54.13	8.5	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	118.6	3626
SAT A6-3-124-FEE-HD	262	57.06	9.0	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.13	2	2.06	3.58	123.6	3626
SAT A6-3-134-FEE-HD	278	60.44	9.5	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.13	2	2.06	3.58	133.7	3626
SAT A7-3-110-FEE	282	51.19	10.6	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.13	2	2.06	4.33	109.6	3626
SAT A7-3-119-FEE-SKE	300	53.13	11.4	8.25	7.38	6.69	13	17.69	1.63	3	2.19	1	2.06	2	1.77	4.33	118.6	3626
SAT A7-3-127-FEE-SKE	315	56.13	12.4	8.25	7.38	6.69	13	17.69	1.63	3	2.19	1	2.06	2	1.77	4.33	127.3	3626
SAT A7-3-137-FEE	333	60.44	13.2	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	137.5	3626
SAT A7-3-147-FEE	351	63.56	14.3	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	146.8	3626

4 STAGE			FRONT EYE (PIN TO PIN) SINGLE ACTING TELESCOPIC HYDRAULIC CYLINDER - 3500 PSI															
Model	LBS	K*	Total Gal.	O	B	C	L1	L2	Z	M *	S	T	N	Y	R	Last stage	Stroke	Max PSI
SAT A6-4-158-FEE	278	54.13	9.8	7	6.56	5.88	13	17.69	1.63	4	2.19	1	2.06	2	2.06	2.83	158.4	3626
SAT A7-4-135-FEE	298	48.25	11.4	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.13	2	2.06	3.58	134.8	3626
SAT A7-4-146-FEE	315	51.19	12.4	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	146.4	3626
SAT A7-4-158-FEE	333	54.13	13.5	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.13	2	2.06	3.58	158.4	3626
SAT A7-4-170-FEE	353	57.06	14.3	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	170	3626
SAT A7-4-183-FEE	373	60.44	15.6	8.25	7.38	6.69	13	17.69	1.63	4	2.19	1	2.06	2	2.06	3.58	183.6	3626
SAT A8-4-146-FEE	379	51.31	16.6	9.44	8.25	7.56	11.69	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	146.4	3626
SAT A8-4-158-FEE	401	54.31	18.0	9.44	8.25	7.56	6.69	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	158.4	3626
SAT A8-4-170-FEE	423	57.25	19.3	9.44	8.25	7.56	6.69	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	170	3626
SAT A8-4-183-FEE	448	60.56	20.6	9.44	8.25	7.56	6.69	17.69	1.63	4	2.19	1	2.06	2	2.06	4.33	183.6	3626

5 STAGE			FRONT EYE (PIN TO PIN) SINGLE ACTING TELESCOPIC HYDRAULIC CYLINDER – 3500 PSI															
Model	LBS	K*	Total Gal.	O	B	C	L1	L2	Z	M*	S	T	N	Y	R	Last stage	Stroke	Max PSI
SAT A8-5-169-FEE	465	50.25	22.2	9.44	9.25	8.44	6.69	17.69	1.63	5.38	2.38	1	2.06	2	2.06	4.33	168.7	3626
SAT A8-5-190-FEE	522	54.81	25.4	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.13	2	2.06	4.33	190.3	3626
SAT A8-5-213-FEE	551	57.75	28.0	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	212.7	3626
SAT A8-5-222-FEE	567	59.50	29.1	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	221.7	3626
SAT A8-5-230-FEE	582	61.13	30.1	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	229.7	3626
SAT A8-5-245-FEE	613	64.25	32.2	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	245.2	3191
SAT A8-5-255-FEE	639	67	33.5	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	255.2	2756
SAT A8-5-255-FEE-LKE	642	68.13	33.5	9.44	9.25	8.44	6.69	17.69	1.63	5.06	2.38	1	2.06	2	2.06	4.33	255.5	2756
SAT A8-5-269-FEE	666	69.75	35.4	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	268.7	2756
SAT A8-5-269-FEE-LKE	668	70.88	35.4	9.44	9.25	8.44	6.69	17.69	1.63	5.06	2.38	1	2.06	2	2.06	4.33	268.7	2756
SAT A8-5-279-FEE-LK	694	77.63	36.7	9.44	9.25	8.44	6.69	17.69	1.63	9.50	2.38	1	2.06	2	2.06	4.33	279.1	2466
SAT A8-5-281-FEE	690	72.13	36.7	9.44	9.25	8.44	6.69	17.69	1.63	4	2.38	1	2.06	2	2.06	4.33	280.7	2466
SAT A9-5-230-FEE	697	61.13	38.6	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	229.7	3191
SAT A9-5-245-FEE	734	64.25	41.2	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	245.2	3191
SAT A9-5-255-FEE	765	67	43.1	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	255.2	3191
SAT A9-5-269-FEE	796	69.75	45.2	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	268.7	3191
SAT A9-5-269-FEE-LK	802	75.69	45.2	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	268.7	2756
SAT A9-5-279-FEE-LK	829	77.63	47.0	10.63	10.19	9.44	6.69	17.69	2.06	9.50	2.50	1	2.06	2	2.44	5.08	279.1	2756
SAT A9-5-281-FEE	825	72.13	47.3	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	280.7	2756
SAT A9-5-299-FEE-LK	893	82.75	50.5	10.63	10.19	9.44	6.69	17.69	2.06	9.13	2.50	1	2.06	2	2.44	5.08	299.1	2466
SAT A9-5-300-FEE	886	77.63	50.5	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	300.2	2466
SAT A9-5-320-FEE	933	81.56	53.9	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	320.2	2176
SAT A9-5-336-FEE	981	85.88	56.5	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	335.7	1958
SAT A9-5-336-FEE-LK	983	87.06	56.5	10.63	10.19	9.44	6.69	17.69	2.06	4	2.50	1	2.06	2	2.44	5.08	335.7	1958

TELESCOPIC TYPE

FRONT END WITH OUTER COVER

(TRUNNION MOUNT)

Type:	Front-End Telescopic Hydraulic Cylinder
Action:	Single Acting
Stages	3 - 5
Rod end:	Trunnion mount
Base end:	Trunnion mount
Nominal Stroke	100" - 194"
Rod:	Standard Chrome Plated Rod Steel 1045
Application:	HYVA FC replacement



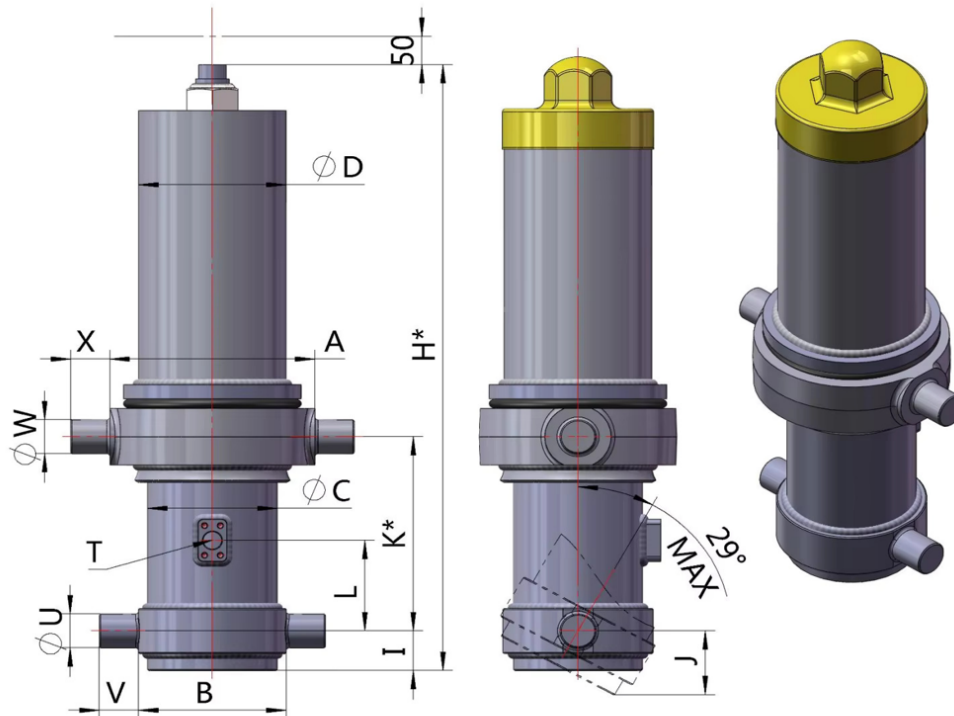
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* incl. 20 [-5; +30] mm pull out.

FRONT END SINGLE ACTING TELESCOPIC CYLINDER WITH OUTER COVER

MODEL	PRESSURE (BAR)	MAX THRUST (KN)	A	B	C	D	H	I	J	K	L	T	U	V	W	X
SAT 129-3-3460-FC	190	248.2	340	201	151	219	1484	60	91	343	160	1"SAE	60	65	60	65
SAT 129-3-3880-FC	190	248.2	340	201	151	219	1644	60	91	343	160	1"SAE	60	65	60	65
SAT 129-3-4270-FC	190	248.2	340	201	151	219	1744	60	91	343	160	1"SAE	60	65	60	65
SAT 129-4-4280-FC	190	248.2	340	201	151	219	1339	60	91	343	160	1"SAE	60	65	60	65
SAT 129-4-4620-FC	190	248.2	340	201	151	219	1484	60	91	343	160	1"SAE	60	65	60	65
SAT 129-4-5180-FC	190	248.2	340	201	151	219	1644	60	91	343	160	1"SAE	60	65	60	65
SAT 149-3-3880-FC	190	331.2	340	201	171	245	1644	60	96	343	160	1"SAE	60	65	60	65
SAT 149-3-4270-FC	190	331.2	340	201	171	245	1774	60	96	343	160	1"SAE	60	65	60	65
SAT 149-4-4280-FC	190	331.2	340	201	171	245	1399	60	96	343	160	1"SAE	60	65	60	65
SAT 149-4-4620-FC	190	331.2	340	201	171	245	1484	60	96	343	160	1"SAE	60	65	60	65
SAT 149-4-4940-FC	190	331.2	340	201	171	245	1564	60	96	343	160	1"SAE	60	65	60	65
SAT 149-4-5180-FC	190	331.2	340	201	171	245	1644	60	96	343	160	1"SAE	60	65	60	65
SAT 149-4-5460-FC	190	331.2	340	201	171	245	1714	60	96	343	160	1"SAE	60	65	60	65
SAT 169-4-4280-FC	190	426	340	245	192	245	1394	65	106	343	160	1"SAE	60	65	60	65
SAT 169-4-4620-FC	190	426	340	245	192	245	1479	65	106	343	160	1"SAE	60	65	60	65
SAT 169-4-4940-FC	190	426	340	245	192	245	1559	65	106	343	160	1"SAE	60	65	60	65
SAT 169-4-5180-FC	190	426	340	245	192	245	1639	65	106	343	160	1"SAE	60	65	60	65
SAT 169-4-5460-FC	190	426	340	245	192	245	1709	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-5355-FC	190	426	340	245	192	245	1394	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-5780-FC	190	426	340	245	192	245	1479	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-6180-FC	190	426	340	245	192	245	1559	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-6830-FC	190	426	340	245	192	245	1709	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-7130-FC	190	426	340	245	192	245	1769	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-7630-FC	170	381.2	340	245	192	245	1899	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-8130-FC	170	381.2	340	245	192	245	1999	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-9030-FC	150	336.3	340	245	192	245	2209	65	106	343	160	1"SAE	60	65	60	65
SAT 169-5-9530-FC	135	302.7	340	245	192	245	2309	65	106	343	160	1"SAE	60	65	60	65
SAT 191-4-5460-FC	190	544.1	360	245	215	273	1712	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-5780-FC	190	544.1	360	245	215	273	1482	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-6180-FC	190	544.1	360	245	215	273	1562	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-7130-FC	190	544.1	360	245	215	273	1772	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-7630-FC	190	544.1	360	245	215	273	1902	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-8130-FC	190	544.1	360	245	215	273	2002	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-9030-FC	170	486.8	360	245	215	273	2212	70	116	343	160	1"SAE	60	65	60	65
SAT 191-5-9530-FC	150	430	360	245	215	273	2312	70	116	343	160	1"SAE	60	65	60	65
SAT 214-5-9030-FC	170	611.1	360	270	242	273	2197	85	135	343	160	1"SAE	65	65	60	65
SAT 214-5-9530-FC	150	539.2	360	270	242	273	2297	85	135	343	160	1"SAE	65	65	60	65
SAT 214-5-12200-FC	150	539.2	360	270	242	273	2967	85	135	343	160	1"SAE	65	65	60	65

TELESCOPIC TYPE

FRONT END WITH SINGLE EYE

(TRUNNION BASE)



Type:	Front-End Telescopic Hydraulic Cylinder
Action:	Single Acting
Stages	3 - 5
Rod end:	Pin mount
Base end:	Trunnion mount
Nominal Stroke	100" - 194"
Rod:	Standard Chrome Plated Rod Steel 1045
Application:	HYVA FE replacement



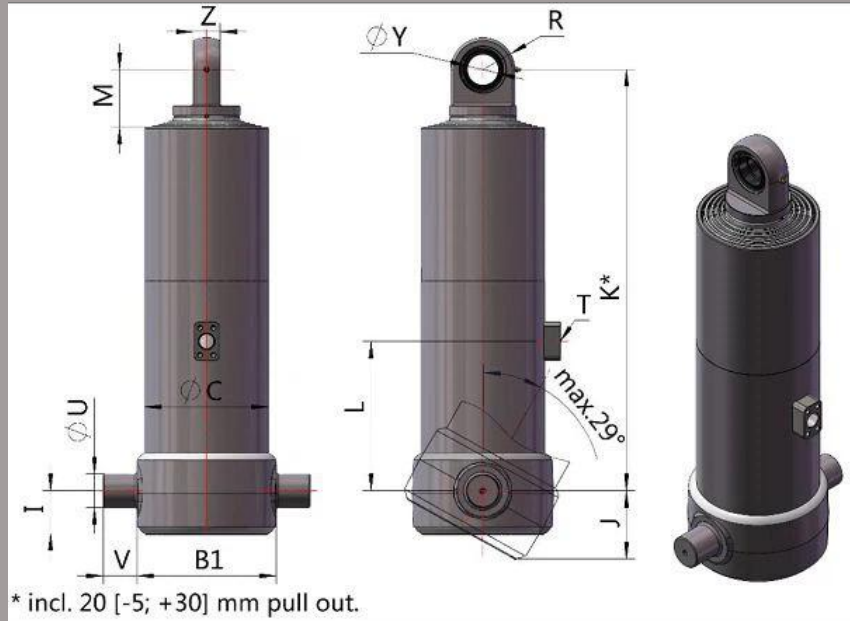
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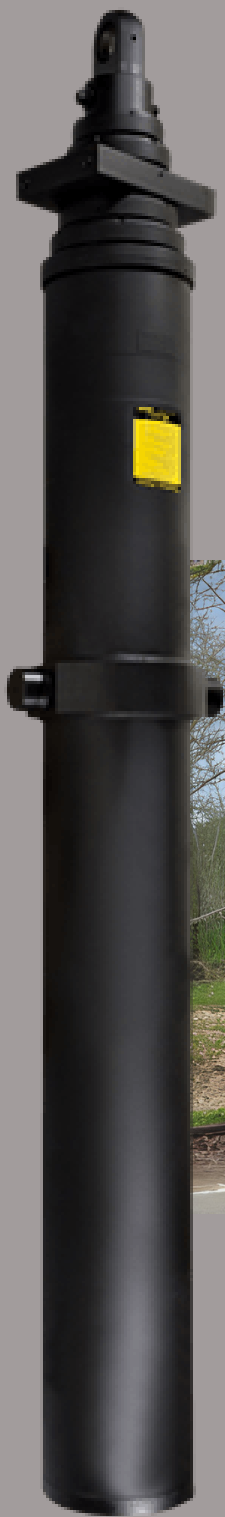


FRONT END SINGLE ACTING TELESCOPIC CYLINDER WITH SINGLE EYE

MODEL	PRESSURE (BAR)	MAX TRHUST (KN)	B1	C	I	J	K	M	R	L	T	U	V	Y	Z
SAT 110-3-3205-FE	190	180.5	163	129	60	91	1449	100	52	160	I"SAE	60	65	50	42
SAT 110-3-3460-FE	190	180.5	163	129	60	91	1609	100	52	160	I"SAE	60	65	50	42
SAT 129-3-3460-FE	190	248.2	201	151	60	91	1449	100	52	160	I"SAE	60	65	50	42
SAT 129-3-3880-FE	190	248.2	201	151	60	91	1609	100	52	160	I"SAE	60	65	50	42
SAT 149-3-2900-FE	190	331.2	201	171	60	96	1320	135	52	160	I"SAE	60	65	50	42
SAT 149-3-3200-FE	190	331.2	201	171	60	96	1420	135	52	160	I"SAE	60	65	50	42
SAT 149-3-3500-FE	190	331.2	201	171	60	96	1520	135	52	160	I"SAE	60	65	50	42
SAT 149-3-3880-FE	190	331.2	201	171	60	96	1644	135	52	160	I"SAE	60	65	50	42
SAT 149-3-4280-FE	190	331.2	201	171	60	96	1777	135	52	160	I"SAE	60	65	50	42
SAT 149-4-4280-FE	190	331.2	201	171	60	96	1450	160	52	160	I"SAE	60	65	50	42
SAT 149-4-4620-FE	190	331.2	201	171	60	96	1484	135	52	160	I"SAE	60	65	50	42
SAT 149-4-4940-FE	190	331.2	201	171	60	96	1529	100	52	160	I"SAE	60	65	50	42
SAT 169-4-4280-FE	190	426	245	192	65	106	1394	135	52	160	I"SAE	60	65	50	42
SAT 169-4-4620-FE	190	426	245	192	65	106	1479	135	52	160	I"SAE	60	65	50	42
SAT 169-4-4940-FE	190	426	245	192	65	106	1529	100	52	160	I"SAE	60	65	50	42
SAT 169-4-5180-FE	190	426	245	192	65	106	1604	100	52	160	I"SAE	60	65	50	42
SAT 169-5-5355-FE	190	426	245	192	65	106	1394	100	52	160	I"SAE	60	65	50	42
SAT 169-5-5780-FE	190	426	245	192	65	106	1459	100	52	160	I"SAE	60	65	50	42
SAT 169-5-6180-FE	190	426	245	192	65	106	1497	100	52	160	I"SAE	60	65	50	42
SAT 169-5-6830-FE	190	426	245	192	65	106	1674	100	52	160	I"SAE	60	65	50	42
SAT 169-5-7130-FE	190	426	245	192	65	106	1734	100	52	160	I"SAE	60	65	50	42
SAT 169-5-7630-FE	170	381.2	245	192	65	106	1834	100	52	160	I"SAE	60	65	50	42
SAT 169-5-8130-FE	170	381.2	245	192	65	106	1934	100	52	160	I"SAE	60	65	50	42
SAT 191-5-6180-FE	190	544.1	245	215	70	116	1527	100	52	160	I"SAE	60	65	50	42
SAT 191-5-7130-FE	190	544.1	245	215	70	116	1717	100	52	160	I"SAE	60	65	50	42
SAT 191-5-7630-FE	190	544.1	245	215	70	116	1817	100	52	160	I"SAE	60	65	50	42
SAT 191-5-9030-FE	150	429.6	245	215	70	116	2177	100	52	160	I"SAE	60	65	50	42
SAT 214-5-7130-FE	190	683	270	242	85	135	1722	100	62	160	I"SAE	65	65	60	52
SAT 214-5-7630-FE	170	611.1	270	242	85	135	1857	100	62	160	I"SAE	65	65	60	52

TELESCOPIC TYPE

DOUBLE ACTING CYLINDER



Type:	Telescopic Hydraulic Cylinder
Action:	Double Acting
Rod End:	Configurable (piston eye, clevis, trunnion, or custom per application)
Base End:	Configurable (cross tube, trunnion, flange, or custom)
Bore:	2.50" to 10.50"
Stroke:	Up to 500"
Tubing:	High-strength D.O.M. (Drawn Over Mandrel)
Pressure:	2000 PSI



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