



EXECUTIVE SUMMARY:

Custom cylinder designs provide our customers with a competitive advantage as a result of a collaborative design approach which delivers an optimized solution to meet their needs. Custom cylinder designs translate into a durable product, compact in size and weight and packed with integrated features like rephasing, cushioning, valve cavities, position sensors and more. Prince has over 70 years of experience producing custom cylinder designs utilizing the latest CAD.

MANUFACTURING CAPABILITIES:

- Welded designs with 1" to 10" Bores
- Tie Rod Designs with 2" to 5" Bores
- Large Bore Air Cylinders
- Designed for Pressures up to 7,500 PSI

CUSTOM CYLINDER FEATURES:

- Integrated Linear Position Sensors
- Built-in Valves and Manifolds
- Double Ended cylinder designs
- Integrated Cushioning and Rephasing
- Safety Designs with Velocity Fuses
- Spherical and High-Wear Bushings
- Custom Mounts and End Fittings
- High-Strength/Weight-Saving Materials
- Color Matched Paint and Labeling

QUALITY:

- Products 100% Tested
- ISO 9001:2015 Certified
- Real-time Quality Process Monitoring
- In-house Gravimetric Cleanliness Testing
- Gauge calibration Traceable to NIST standards
- Oil filtration to ISO 4406: 1999 19/17/14 Standard

ENGINEERING AND R&D SUPPORT:

- Factory Direct Sales Support
- Burst Testing (Up to 15,000 PSI)
- Fatigue and Impulse Testing
- 3D Modeling Design (AutoDesk Inventor)
- Dedicated CASS and B117 Corrosion Testing
- Finite Element Analysis

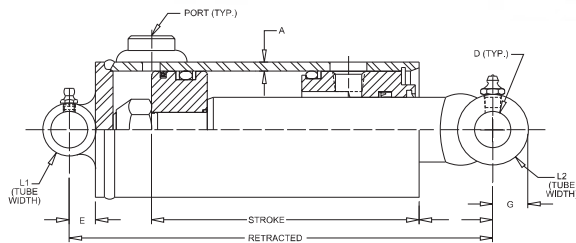
**SERVING OIL & GAS • MINING • CONSTRUCTION • DEMOLITION •
AGRICULTURE • TRANSPORTATION • SOLID WASTE**



THE ROYAL LINE

2500 PSI

THE "ROYAL" Welded-DA



FEATURES:

- Double Acting
- Chromed, ground & polished rod
- Ductile iron piston & gland
- Crosstube end fittings with grease zerks
- Urethane u-cup and urethane wiper in gland
- O-ring with backup washers & cast iron ring piston seals
- Snap ring gland retainer
- Color is gloss black

Model No.	Style	Wt.	PSI	Column Load (Lbs)	Ret	Rod Dia.	A	PORTS NPTF	D	E	G	H	L1	L2
* PMC-5408	2 1/2 X 8	17	2500	FULL PSI	16	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5412	2 1/2 X 12	20	2500	FULL PSI	20	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
PMC-5414	2 1/2 X 14	22	2500	FULL PSI	22	1 3/8	3/16	3/8	3/4	7/16	3/4	2 9/16	3	1 3/8
* PMC-5416	2 1/2 X 16	23	2500	FULL PSI	24	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5420	2 1/2 X 20	27	2500	FULL PSI	28	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5424	2 1/2 X 24	30	2500	FULL PSI	32	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5430	2 1/2 X 30	35	2500	8,975 LBS	38	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5432	2 1/2 X 32	41	2500	8,000 LBS	40	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5436	2 1/2 X 36	44	2500	6,475 LBS	44	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-5442	2 1/2 X 42	47	2500	4,870 LBS	50	1 3/8	3/16	3/8	3/4	9/16	3/4	2 9/16	3	1 3/8
* PMC-8308	3 X 8	22	2500	FULL PSI	16	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8312	3 X 12	26	2500	FULL PSI	20	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
PMC-8314	3 X 14	29	2500	FULL PSI	22	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8316	3 X 16	31	2500	FULL PSI	24	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8320	3 X 20	35	2500	FULL PSI	28	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8324	3 X 24	41	2500	FULL PSI	32	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8330	3 X 30	46	2500	13,000 LBS	38	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
PMC-8332	3 X 32	48	2500	11,540 LBS	40	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8336	3 X 36	52	2500	9,320 LBS	44	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
PMC-8340	3 X 40	56	2500	7,660 LBS	48	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8342	3 X 42	59	2500	7,020 LBS	50	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-8348	3 X 48	65	2500	5,460 LBS	56	1 1/2	3/16	1/2	1	11/16	1	2 5/16	3 1/2	1 1/2
* PMC-5508	3 1/2 X 8	26	2500	FULL PSI	16	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5512	3 1/2 X 12	29	2500	FULL PSI	20	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
PMC-5514	3 1/2 X 14	32	2500	FULL PSI	22	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5516	3 1/2 X 16	34	2500	FULL PSI	24	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5520	3 1/2 X 20	38	2500	FULL PSI	28	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5524	3 1/2 X 24	44	2500	20,210 LBS	32	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5530	3 1/2 X 30	48	2500	13,540 LBS	38	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
PMC-5532	3 1/2 X 32	52	2500	12,040 LBS	40	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5536	3 1/2 X 36	56	2500	9,700 LBS	44	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
PMC-5540	3 1/2 X 40	60	2500	7,975 LBS	48	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
PMC-5542	3 1/2 X 42	64	2500	7,300 LBS	50	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
PMC-5548	3 1/2 X 48	70	2500	5,680 LBS	56	1 1/2	3/16	1/2	1	11/16	1	1 11/16	4	1 1/2
* PMC-5608	4 X 8	35	2500	FULL PSI	17	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5612	4 X 12	41	2500	FULL PSI	21	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
PMC-5614	4 X 14	45	2500	FULL PSI	23	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5616	4 X 16	48	2500	FULL PSI	25	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5620	4 X 20	56	2500	FULL PSI	29	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5624	4 X 24	62	2500	FULL PSI	33	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5630	4 X 30	72	2500	FULL PSI	39	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5632	4 X 32	74	2500	FULL PSI	41	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5636	4 X 36	80	2500	28,710 LBS	45	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5640	4 X 40	85	2500	23,700 LBS	49	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5642	4 X 42	92	2500	21,680 LBS	51	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5648	4 X 48	100	2500	16,930 LBS	57	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2
* PMC-5660	4 X 60	120	2500	11,160 LBS	69	2	3/16	1/2	1 1/4	15/16	1 1/8	2 1/8	4 1/2	2

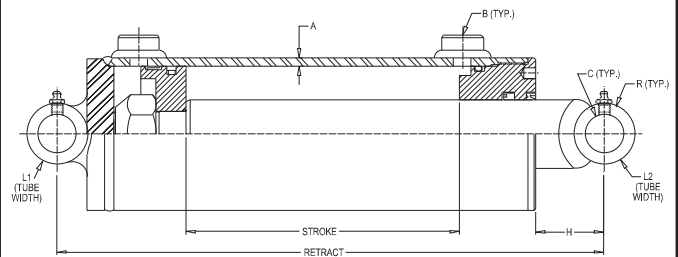
* Frequently stocked items

NOTE: If disassembly is necessary - Be sure to put a wire or "O" Ring in snap ring groove so when the piston is pulled out - The cast iron ring will not catch in groove

THE "FORTRESS" Welded-DA-Heavy Duty

FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Ductile iron piston
- Thread-in ductile iron gland
- Crosstube end fittings with grease zerks
- Urethane u-cup, metal encased wiper, teflon cap seal and wear ring
- Color is gloss black
- Matches closed length of Royal line cylinders (up to 42" stroke)
- Spacers included in these models



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt	PSI	Column Load (Lbs)	Ret	Rod Dia.	A	B	C	R	H	L1	L2
SAE-62506	2 1/2 X 6	25	3000	FULL PSI	14	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62508	2 1/2 X 8	27	3000	FULL PSI	16	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62510	2 1/2 X 10	29	3000	FULL PSI	18	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62512	2 1/2 X 12	30	3000	FULL PSI	20	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62514	2 1/2 X 14	32	3000	FULL PSI	22	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62516	2 1/2 X 16	34	3000	FULL PSI	24	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62518	2 1/2 X 18	36	3000	FULL PSI	26	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62520	2 1/2 X 20	37	3000	FULL PSI	28	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62524	2 1/2 X 24	41	3000	FULL PSI	32	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62530	2 1/2 X 30	46	3000	8,975 LBS	38	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62532	2 1/2 X 32	48	3000	8,000 LBS	40	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62536	2 1/2 X 36	51	3000	6,475 LBS	44	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62540	2 1/2 X 40	55	3000	5,330 LBS	48	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-62542	2 1/2 X 42	57	3000	4,870 LBS	50	1 3/8	3/16	#8 SAE	3/4	5/8	2 1/2	3 1/4	2 1/4
SAE-63006	3 X 6	30	3000	FULL PSI	14	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63008	3 X 8	32	3000	FULL PSI	16	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63010	3 X 10	34	3000	FULL PSI	18	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63012	3 X 12	37	3000	FULL PSI	20	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63014	3 X 14	39	3000	FULL PSI	22	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63016	3 X 16	41	3000	FULL PSI	24	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63018	3 X 18	43	3000	FULL PSI	26	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63020	3 X 20	45	3000	FULL PSI	28	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63024	3 X 24	49	3000	FULL PSI	32	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63030	3 X 30	55	3000	13,540 LBS	38	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63032	3 X 32	57	3000	12,040 LBS	40	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63036	3 X 36	61	3000	9,700 LBS	44	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63040	3 X 40	66	3000	7,975 LBS	48	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63042	3 X 42	68	3000	7,300 LBS	50	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63048*	3 X 48	75	3000	3,480 LBS	58	1 1/2	3/16	#8 SAE	1	13/16	2	3 3/4	2 3/4
SAE-63506	3 1/2 X 6	25	3000	FULL PSI	14	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63508	3 1/2 X 8	27	3000	FULL PSI	16	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63510	3 1/2 X 10	30	3000	FULL PSI	18	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63512	3 1/2 X 12	33	3000	FULL PSI	20	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63514	3 1/2 X 14	35	3000	FULL PSI	22	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63516	3 1/2 X 16	38	3000	FULL PSI	24	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63518	3 1/2 X 18	40	3000	FULL PSI	26	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63520	3 1/2 X 20	43	3000	FULL PSI	28	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63524	3 1/2 X 24	48	3000	FULL PSI	32	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63530	3 1/2 X 30	56	3000	24,360 LBS	38	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63532	3 1/2 X 32	59	3000	21,670 LBS	40	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63536	3 1/2 X 36	64	3000	17,470 LBS	44	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63540	3 1/2 X 40	69	3000	14,380 LBS	48	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63542	3 1/2 X 42	72	3000	13,140 LBS	50	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-63548*	3 1/2 X 48	80	3000	9,900 LBS	58	1 3/4	3/16	#8 SAE	1	13/16	1 7/8	4 1/4	2 3/4
SAE-64008	4 X 8	42	3000	FULL PSI	17	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64012	4 X 12	48	3000	FULL PSI	21	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64016	4 X 16	55	3000	FULL PSI	25	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64020	4 X 20	62	3000	FULL PSI	29	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64024	4 X 24	69	3000	FULL PSI	33	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64030	4 X 30	79	3000	FULL PSI	39	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64032	4 X 32	83	3000	FULL PSI	41	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64036	4 X 36	90	3000	28,710 LBS	45	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64040	4 X 40	96	3000	23,700 LBS	49	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64042	4 X 42	100	3000	21,680 LBS	51	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64048*	4 X 48	115	3000	16,640 LBS	59	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64060*	4 X 60	138	3000	10,890 LBS	73	2	7/32	#10 SAE	1 1/4	1	2 1/4	4 3/4	3 1/4
SAE-64508	4 1/2 X 8	54	3000	FULL PSI	17	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64512	4 1/2 X 12	62	3000	FULL PSI	21	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64516	4 1/2 X 16	71	3000	FULL PSI	25	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64520	4 1/2 X 20	80	3000	FULL PSI	29	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64524	4 1/2 X 24	89	3000	FULL PSI	33	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64530	4 1/2 X 30	104	3000	FULL PSI	39	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64532	4 1/2 X 32	106	3000	FULL PSI	41	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64536	4 1/2 X 36	115	3000	46,860 LBS	45	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64540	4 1/2 X 40	124	3000	38,650 LBS	49	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64542	4 1/2 X 42	128	3000	35,330 LBS	51	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64548*	4 1/2 X 48	147	3000	26,690 LBS	59	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4
SAE-64560*	4 1/2 X 60	177	3000	17,210 LBS	73	2 1/4	1/4	#10 SAE	1 1/4	1	2 1/4	5 1/4	3 1/4



THE GLADIATOR LINE

3000 PSI EXTENDED DUTY

THE "GLADIATOR" Welded-DA-Heavy Duty

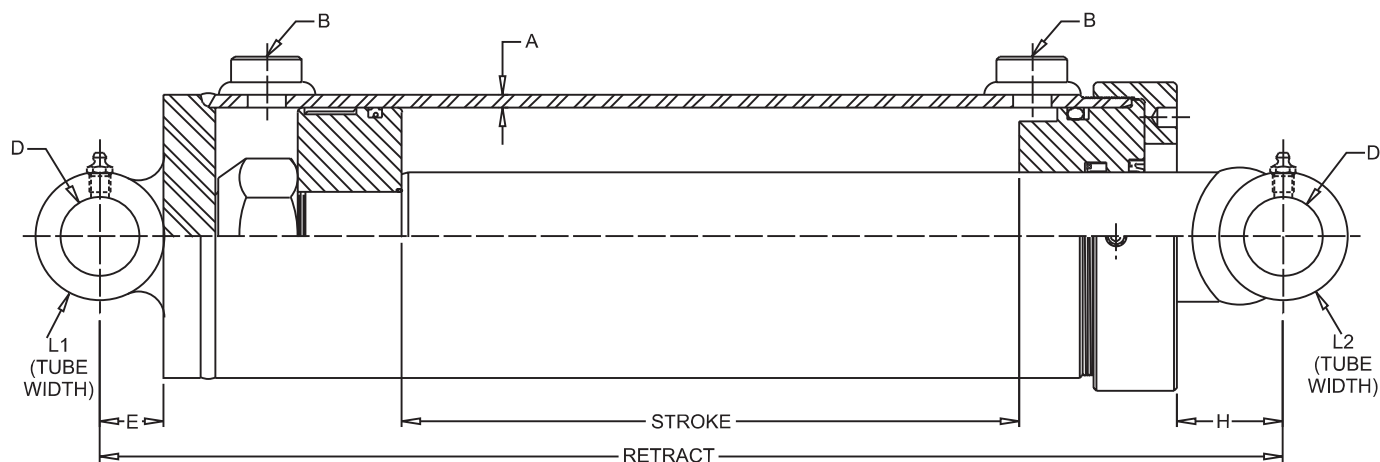


FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Ductile iron piston
- Externally threaded gland cap
- Urethane u-cup, metal encased wiper, polyurethane crown seal and wear ring
- Crosstube end fittings with grease zerks
- Color is gloss black

* Spacer included in these models

Refer to Magnum Cylinders for 5" and 6" cross tube options.



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod Dia.	A	B SAE	D	E	H	L1	L2
SAE-21008	5 x 8	75	3000	FULL PSI	19"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21012	5 x 12	85	3000	FULL PSI	23"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21016	5 x 16	90	3000	FULL PSI	27"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21020	5 x 20	105	3000	FULL PSI	31"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21024	5 x 24	115	3000	FULL PSI	35"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21030	5 x 30	130	3000	FULL PSI	41"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21036	5 x 36	145	3000	FULL PSI	47"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21048*	5 x 48	180	3000	39,125 LBS	61"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21054*	5 x 54	195	3000	31,150 LBS	68"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-21060*	5 x 60	215	3000	25,360 LBS	75"	2 1/2	1/4	#12	1 1/2	1 1/4	2 1/16	5 3/4	4"
SAE-22008	6 x 8	100	3000	FULL PSI	19"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22012	6 x 12	110	3000	FULL PSI	23"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22016	6 x 16	125	3000	FULL PSI	27"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22024	6 x 24	150	3000	FULL PSI	35"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22030	6 x 30	170	3000	FULL PSI	41"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22036	6 x 36	190	3000	FULL PSI	47"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22048*	6 x 48	240	3000	79,700 LBS	61"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22054*	6 x 54	265	3000	63,400 LBS	68"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"
SAE-22060*	6 x 60	290	3000	51,700 LBS	75"	3	1/4	#12	1 1/2	1 1/4	2 1/16	6 3/4	4"



8 INCH BORE WELDED CYLINDER

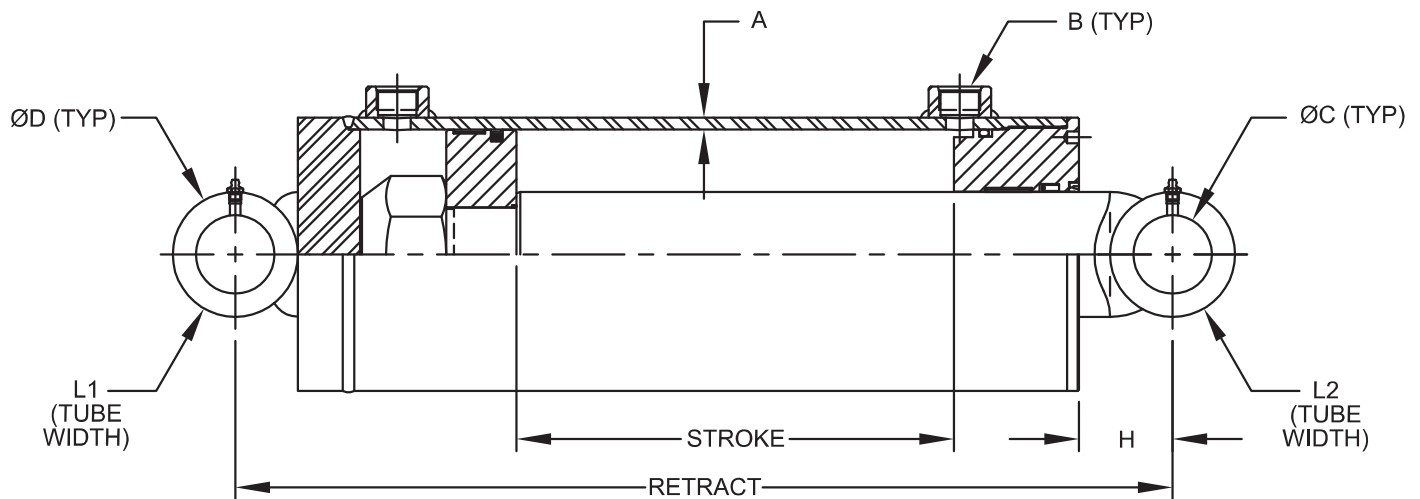
3000 PSI STANDARD DUTY

8 INCH BORE Welded-DA-Heavy Duty



FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Ductile iron piston & thread-in Ductile iron gland
- Teflon cap seal & wear ring on piston
- Urethane u-cup, metal encased wiper, & wear ring on piston rod
- Crosstube end fittings with grease zerks
- Color is gloss black
- 3000 PSI maximum operating pressure
- 3000 PSI maximum peak spike pressure



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.
Recommended pin material 100,000 PSI minimum yield strength

Model No.	Style	Wt	PSI	Column Load (Lbs)	Ret	Rod Dia.	A	B	C	R	H	L1	L2
SAE-68008	8 x 8	250	3000	Full PSI	24	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68012	8 x 12	275	3000	Full PSI	28	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68016	8 x 16	300	3000	Full PSI	32	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68020	8 x 20	325	3000	Full PSI	36	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68024	8 x 24	350	3000	Full PSI	40	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68030	8 x 30	385	3000	Full PSI	46	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68036	8 x 36	425	3000	Full PSI	52	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68048*	8 x 48	500	3000	Full PSI	66	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68054*	8 x 54	540	3000	Full PSI	73	4	.38	#16 SAE	2 1/2	4	3	9	5
SAE-68060*	8 x 60	580	3000	Full PSI	80	4	.38	#16 SAE	2 1/2	4	3	9	5

Application Note:

This Prince standard cylinder is designed for standard duty applications. It is not appropriate for applications that experience high shock loads, high spike pressures, high side loads, or have a high duty cycle. This product is not intended for use on personnel lift or crane applications. Consult your sales representative for cylinders designed to meet these applications.

Note: * Spacers included in these models



THE MAGNUM LINE

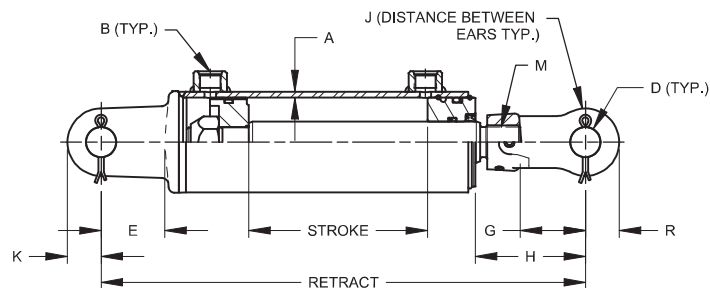
3000 PSI

THE "MAGNUM" Welded-DA-Heavy Duty



FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Unitized piston
- Clevis cylinders
- Color is gloss black
- 3000 PSI maximum operating pressure
- Replaces The Sword Line
- Use of stroke controls not applicable to Magnum cylinders



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod Dia	A	B	D	E	G	H	J	K	M	R
PC2008CL	2 X 8	14	3000	FULL PSI	18 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2008CL-ASAE	2 X 8	15	3000	FULL PSI	20 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	5 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2010CL	2 X 10	16	3000	FULL PSI	20 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2012CL	2 X 12	16	3000	FULL PSI	22 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
PC2016CL	2 X 16	19	3000	FULL PSI	26 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2016CL-ASAE	2 X 16	21	3000	7,059	31 1/2	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	8 15/16	1 1/16	1	1 1/8-12	1 1/8
*PC2020CL	2 X 20	22	3000	7,132	30 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2024CL	2 X 24	24	3000	5,304	34 1/4	1 1/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1	1 1/8-12	1 1/8
PC2508CL	2 1/2 X 8	17	3000	FULL PSI	18 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
*PC2508CL-ASAE	2 1/2 X 8	18	3000	FULL PSI	20 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	5 11/16	1 1/16	1	1 1/8-12	1 1/8
*PC2510CL	2 1/2 X 10	19	3000	FULL PSI	20 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
*PC2512CL	2 1/2 X 12	20	3000	FULL PSI	22 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
PC2516CL	2 1/2 X 16	24	3000	FULL PSI	26 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
*PC2516CL-ASAE	2 1/2 X 16	25	3000	10,710	31 1/2	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	9 1/4	1 1/16	1	1 1/8-12	1 1/8
*PC2520CL	2 1/2 X 20	27	3000	10,829	30 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
*PC2524CL	2 1/2 X 24	30	3000	8,067	34 1/4	1 1/4	3/16	#8 SAE	1	2 1/8	2 1/8	3 15/16	1 1/16	1	1 1/8-12	1 1/8
PC3008CL	3 X 8	21	3000	FULL PSI	18 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3008CL-ASAE	3 X 8	22	3000	FULL PSI	20 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	5 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3010CL	3 X 10	23	3000	FULL PSI	20 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3012CL	3 X 12	25	3000	FULL PSI	22 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
PC3016CL	3 X 16	29	3000	FULL PSI	26 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3016CL-ASAE	3 X 16	31	3000	15,896	31 1/2	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	8 15/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3020CL	3 X 20	33	3000	16,119	30 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
*PC3024CL	3 X 24	37	3000	11,988	34 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/8	1 1/8-12	1 1/8
PC3508CL	3 1/2 X 8	27	3000	FULL PSI	18 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
*PC3508CL-ASAE	3 1/2 X 8	28	3000	FULL PSI	20 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	5 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
*PC3510CL	3 1/2 X 10	29	3000	FULL PSI	20 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
*PC3512CL	3 1/2 X 12	31	3000	FULL PSI	22 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
PC3516CL	3 1/2 X 16	35	3000	23,121	26 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
*PC3516CL-ASAE	3 1/2 X 16	38	3000	16,047	31 1/2	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	8 15/16	1 1/16	1 1/4	1 5/16-12	1 1/4
PC3520CL	3 1/2 X 20	40	3000	16,329	30 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
*PC3524CL	3 1/2 X 24	44	3000	12,143	34 1/4	1 3/8	3/16	#8 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 5/16-12	1 1/4
PC4008CL	4 X 8	35	3000	FULL PSI	18 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4008CL-ASAE	4 X 8	36	3000	FULL PSI	20 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	5 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4010CL	4 X 10	38	3000	FULL PSI	20 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4012CL	4 X 12	41	3000	FULL PSI	22 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
PC4016CL	4 X 16	47	3000	FULL PSI	26 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4016CL-ASAE	4 X 16	50	3000	FULL PSI	31 1/2	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	8 15/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4020CL	4 X 20	53	3000	FULL PSI	30 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4024CL	4 X 24	59	3000	31,557	34 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
*PC4030CL	4 X 30	68	3000	21,673	40 1/4	1 3/4	7/32	#10 SAE	1	2 1/8	2 1/8	3 11/16	1 1/16	1 1/4	1 1/2-12	1 1/4
PC5008CL	5 X 8	62	3000	FULL PSI	20 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5010CL	5 X 10	67	3000	FULL PSI	22 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5012CL	5 X 12	72	3000	FULL PSI	24 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5016CL	5 X 16	82	3000	FULL PSI	28 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5016CL-ASAE	5 X 16	85	3000	FULL PSI	31 1/2	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5020CL	5 X 20	92	3000	FULL PSI	32 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5024CL	5 X 24	101	3000	50,970	36 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4
PC5030CL	5 X 30	116	3000	35,411	42 1/4	2	3/8	#12 SAE	1 1/4	2 1/8	2 1/8	4 13/32	1 3/8	1 3/8	1 3/4-12	1 1/4

* Frequently stocked items



THE MAGNUM LINE

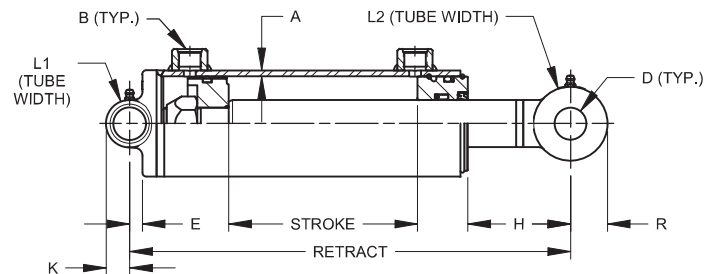
3000 PSI

THE "MAGNUM" Welded-DA-Heavy Duty-Crosstube



FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Unitized piston
- Crosstube cylinders
- Crosstube end fitting with grease zerks
- Color is gloss black
- 3000 PSI maximum operating pressure
- Use of stroke controls not applicable to Magnum cylinders



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod. Dia	A	B	D	E	H	K	L1	L2	R
PC2006XT	2 X 6	11	3000	FULL PSI	14	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2008XT	2 X 8	12	3000	FULL PSI	16	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2010XT	2 X 10	14	3000	FULL PSI	18	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2012XT	2 X 12	15	3000	FULL PSI	20	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
PC2014XT	2 X 14	16	3000	FULL PSI	22	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2016XT	2 X 16	17	3000	FULL PSI	24	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
PC2018XT	2 X 18	19	3000	8,939	26	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2020XT	2 X 20	20	3000	7,533	28	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
*PC2024XT	2 X 24	23	3000	5,559	32	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
PC2030XT	2 X 30	27	3000	3,788	38	1 1/8	3/16	#8 SAE	1	-	3 5/16	1	2 3/8	1 1/2	3/4
PC2506XT	2 1/2 X 6	14	3000	FULL PSI	14	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2508XT	2 1/2 X 8	16	3000	FULL PSI	16	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2510XT	2 1/2 X 10	18	3000	FULL PSI	18	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2512XT	2 1/2 X 12	19	3000	FULL PSI	20	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2514XT	2 1/2 X 14	21	3000	FULL PSI	22	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2516XT	2 1/2 X 16	23	3000	FULL PSI	24	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2518XT	2 1/2 X 18	25	3000	FULL PSI	26	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2520XT	2 1/2 X 20	26	3000	FULL PSI	28	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2524XT	2 1/2 X 24	30	3000	12,185	32	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC2530XT	2 1/2 X 30	35	3000	8,314	38	1 3/8	3/16	#8 SAE	1	3/8	3 1/2	3/4	3	1 3/8	7/8
PC3006XT	3 X 6	18	3000	FULL PSI	14	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3008XT	3 X 8	20	3000	FULL PSI	16	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3010XT	3 X 10	22	3000	FULL PSI	18	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3012XT	3 X 12	24	3000	FULL PSI	20	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3014XT	3 X 14	27	3000	FULL PSI	22	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3016XT	3 X 16	29	3000	FULL PSI	24	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3018XT	3 X 18	31	3000	FULL PSI	26	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3020XT	3 X 20	33	3000	FULL PSI	28	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3024XT	3 X 24	37	3000	17,571	32	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3030XT	3 X 30	43	3000	11,971	38	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3032XT	3 X 32	45	3000	10,690	40	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3036XT	3 X 36	49	3000	8,677	44	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3040XT	3 X 40	53	3000	7,182	48	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3048XT	3 X 48	62	3000	5,155	56	1 1/2	3/16	#8 SAE	1	3/8	3 1/4	3/4	3 1/2	1 1/2	1 3/16
PC3506XT	3 1/2 X 6	24	3000	FULL PSI	14	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3508XT	3 1/2 X 8	27	3000	FULL PSI	16	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3510XT	3 1/2 X 10	29	3000	FULL PSI	18	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3512XT	3 1/2 X 12	32	3000	FULL PSI	20	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3514XT	3 1/2 X 14	35	3000	FULL PSI	22	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3516XT	3 1/2 X 16	37	3000	FULL PSI	24	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3518XT	3 1/2 X 18	40	3000	FULL PSI	26	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3520XT	3 1/2 X 20	42	3000	FULL PSI	28	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3524XT	3 1/2 X 24	48	3000	FULL PSI	32	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3530XT	3 1/2 X 30	55	3000	22,150	38	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3532XT	3 1/2 X 32	58	3000	19,772	40	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3536XT	3 1/2 X 36	63	3000	16,034	44	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3540XT	3 1/2 X 40	68	3000	13,264	48	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3542XT	3 1/2 X 42	71	3000	12,141	50	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16
PC3548XT	3 1/2 X 48	79	3000	9,511	56	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1	4	1 3/4	1 3/16

Continued on next page

* Frequently stocked items



THE MAGNUM LINE

3000 PSI

THE "MAGNUM" Welded-DA-Heavy Duty-Crosstube

Continued from C9

Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod. Dia	AB	DE	H	K	L1L2	R			
PC4008XT	4 X 8	36	3000	FULL PSI	17	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4012XT	4 X 12	43	3000	FULL PSI	21	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4016XT	4 X 16	50	3000	FULL PSI	25	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4020XT	4 X 20	56	3000	FULL PSI	29	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4024XT	4 X 24	63	3000	FULL PSI	33	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4030XT	4 X 30	73	3000	36,361	39	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4032XT	4 X 32	77	3000	32,527	41	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4036XT	4 X 36	84	3000	26,476	45	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4040XT	4 X 40	91	3000	21,970	49	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4042XT	4 X 42	94	3000	20,136	51	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4048XT	4 X 48	104	3000	15,828	57	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
PC4060XT	4 X 60	125	3000	10,516	69	2	7/32	#10 SAE	1 1/4	25/32	3 27/32	1	4 1/2	2	1 5/16
*PC5008XT	5 X 8	73	3000	FULL PSI	19	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5012XT	5 X 12	84	3000	FULL PSI	23	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5016XT	5 X 16	96	3000	FULL PSI	27	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5020XT	5 X 20	108	3000	FULL PSI	31	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5024XT	5 X 24	120	3000	FULL PSI	35	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5030XT	5 X 30	138	3000	FULL PSI	41	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5036XT	5 X 36	155	3000	FULL PSI	47	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5048XT	5 X 48	191	3000	39,125	59	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5050XT	5 X 50	195	3000	36,900	61	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5054XT	5 X 54	210	3000	32,100	65	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5057XT	5 X 57	215	3000	29,075	68	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
*PC5060XT	5 X 60	226	3000	26,000	71	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5064XT	5 X 64	235	3000	23,500	75	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5066XT	5 X 66	245	3000	22,100	77	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5071XT	5 X 71	255	3000	19,300	82	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5072XT	5 X 72	260	3000	18,800	83	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC5078XT	5 X 78	280	3000	16,000	89	2.5	5/16	#12	1 1/2	1 1/8	4	1 1/4	5 3/4	4	1 13/32
PC6008XT	6 X 8	100	3000	FULL PSI	19	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6012XT	6 X 12	110	3000	FULL PSI	23	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6016XT	6 X 16	125	3000	FULL PSI	27	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6024XT	6 X 24	150	3000	FULL PSI	35	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6030XT	6 X 30	170	3000	FULL PSI	41	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6036XT	6 X 36	190	3000	FULL PSI	47	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
*PC6048XT	6 X 48	240	3000	83,000	59	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6050XT	6 X 50	250	3000	77,200	61	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6054XT	6 X 54	265	3000	66,900	65	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6057XT	6 X 57	270	3000	60,500	68	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6060XT	6 X 60	290	3000	55,000	71	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6064XT	6 X 64	305	3000	48,700	75	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6066XT	6 X 66	315	3000	46,000	77	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6071XT	6 X 71	335	3000	40,100	82	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6072XT	6 X 72	340	3000	39,000	83	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32
PC6078XT	6 X 78	370	3000	33,500	89	3	1/4	#12	1 1/2	1 5/16	2 1/16	1 1/4	6 3/4	4	1 13/32

* Frequently stocked items

Magnum 5" and 6" cylinder cross-reference to Gladiator Line

Any Magnum 5 & 6 inch bore cylinder, with a stroke of less than 48 inches, has the same correlating retract of the Gladiator Line. For cylinders with 48 inches of stroke or longer, see the chart below for a cross-reference.

Gladiator Line	Stroke	Retract		Magnum Line (Stroke Match)	Stroke	Retract		Magnum Line (Retract Match)	Stroke	Retract
SAE-21048	48	61		PC5048XT	48	59		PC5050XT	50	61
SAE-21054	54	68		PC5054XT	54	65		PC5057XT	57	68
SAE-21060	60	75		PC5060XT	60	71		PC5064XT	64	75
SAE-21066	66	82		PC5066XT	66	77		PC5071XT	71	82
SAE-21072	72	89		PC5072XT	72	83		PC5074XT	78	89
SAE-22048	48	61		PC6048XT	48	59		PC6050XT	50	61
SAE-22054	54	68		PC6054XT	54	65		PC6057XT	57	68
SAE-22060	60	75		PC6060XT	60	71		PC6064XT	64	75
SAE-22066	66	82		PC6066XT	66	77		PC6071XT	71	82
SAE-22072	72	89		PC6072XT	72	83		PC6074XT	78	89

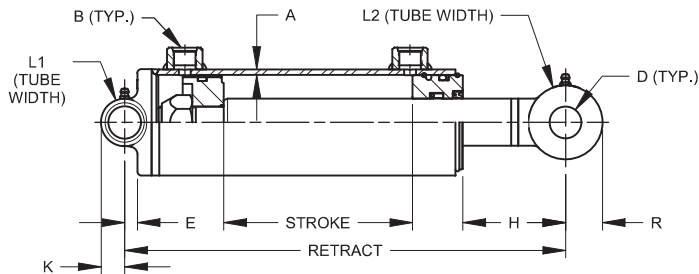
Reference engineering drawing for column load ratings.

THE "MAGNUM" Welded-DA-Heavy Duty-Crosstube (Medium)



FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Unitized piston
- Crosstube cylinders
- Crosstube end fitting with grease zerks
- Color is gloss black
- 3000 PSI maximum operating pressure
- Use of stroke controls not applicable to Magnum cylinders



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod Dia.	A	B	D	E	H	K	L1	L2	R
PC2006XM	2 X 6	12	3000	FULL PSI	14	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2008XM	2 X 8	13	3000	FULL PSI	16	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2010XM	2 X 10	15	3000	FULL PSI	18	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2012XM	2 X 12	16	3000	FULL PSI	20	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2014XM	2 X 14	17	3000	FULL PSI	22	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2016XM	2 X 16	19	3000	FULL PSI	24	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2018XM	2 X 18	20	3000	8,939	26	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2020XM	2 X 20	21	3000	7,533	28	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2024XM	2 X 24	24	3000	5,559	32	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2030XM	2 X 30	28	3000	3,788	38	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2	3/4
PC2506XM	2 1/2 X 6	14	3000	FULL PSI	14	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2508XM	2 1/2 X 8	16	3000	FULL PSI	16	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2510XM	2 1/2 X 10	17	3000	FULL PSI	18	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2512XM	2 1/2 X 12	19	3000	FULL PSI	20	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2514XM	2 1/2 X 14	20	3000	FULL PSI	22	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2516XM	2 1/2 X 16	22	3000	FULL PSI	24	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2518XM	2 1/2 X 18	24	3000	FULL PSI	26	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2520XM	2 1/2 X 20	25	3000	FULL PSI	28	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2524XM	2 1/2 X 24	28	3000	12,124	32	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC2530XM	2 1/2 X 30	33	3000	8,280	38	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2	25/32
PC3006XM	3 X 6	19	3000	FULL PSI	14	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3008XM	3 X 8	21	3000	FULL PSI	16	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3010XM	3 X 10	22	3000	FULL PSI	18	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3012XM	3 X 12	24	3000	FULL PSI	20	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3014XM	3 X 14	26	3000	FULL PSI	22	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3016XM	3 X 16	28	3000	FULL PSI	24	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3018XM	3 X 18	30	3000	FULL PSI	26	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3020XM	3 X 20	32	3000	FULL PSI	28	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3024XM	3 X 24	36	3000	17,571	32	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3030XM	3 X 30	42	3000	11,973	38	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3032XM	3 X 32	43	3000	10,687	40	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3036XM	3 X 36	47	3000	8,677	44	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3040XM	3 X 40	51	3000	7,182	48	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3048XM	3 X 48	61	3000	5,155	56	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2	29/32
PC3506XM	3 1/2 X 6	22	3000	FULL PSI	14	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3508XM	3 1/2 X 8	24	3000	FULL PSI	16	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3510XM	3 1/2 X 10	26	3000	FULL PSI	18	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
*PC3512XM	3 1/2 X 12	28	3000	FULL PSI	20	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3514XM	3 1/2 X 14	30	3000	FULL PSI	22	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3516XM	3 1/2 X 16	32	3000	FULL PSI	24	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3518XM	3 1/2 X 18	35	3000	FULL PSI	26	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
*PC3520XM	3 1/2 X 20	37	3000	FULL PSI	28	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
*PC3524XM	3 1/2 X 24	41	3000	FULL PSI	32	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3530XM	3 1/2 X 30	47	3000	22,050	38	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3532XM	3 1/2 X 32	49	3000	19,693	40	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
*PC3536XM	3 1/2 X 36	53	3000	15,980	44	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3540XM	3 1/2 X 40	57	3000	13,221	48	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3542XM	3 1/2 X 42	59	3000	12,103	50	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
PC3548XM	3 1/2 X 48	68	3000	9,485	56	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/4	1 3/32
*PC4008XM	4 X 8	36	3000	FULL PSI	17	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4012XM	4 X 12	43	3000	FULL PSI	21	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4016XM	4 X 16	50	3000	FULL PSI	25	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4020XM	4 X 20	56	3000	FULL PSI	29	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4024XM	4 X 24	63	3000	FULL PSI	33	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4030XM	4 X 30	73	3000	36,361	39	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4032XM	4 X 32	77	3000	32,527	41	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4036XM	4 X 36	84	3000	26,476	45	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
PC4040XM	4 X 40	91	3000	21,970	49	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
PC4042XM	4 X 42	94	3000	20,136	51	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4048XM	4 X 48	104	3000	15,828	57	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16
*PC4060XM	4 X 60	125	3000	10,516	69	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	2 1/2	1 5/16

* Frequently stocked items



THE MAGNUM LINE

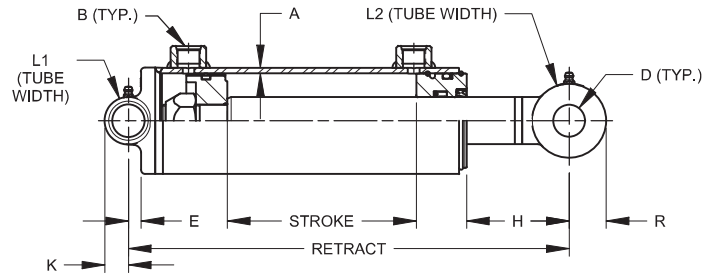
3000 PSI

THE "MAGNUM" Welded-DA-Heavy Duty-Crosstube (Long)



FEATURES:

- Double Acting
- Heavy duty welded construction
- Chromed, ground, & polished rod
- Unitized piston
- Crosstube cylinders
- Crosstube end fitting with grease zerks
- Color is gloss black
- 3000 PSI maximum operating pressure
- Use of stroke controls not applicable to Magnum cylinders



Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Retract	Rod Dia.	A	B	D	E	H	K	L1	L2	R
PC2006XL	2 X 6	12	3000	FULL PSI	14	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2008XL	2 X 8	13	3000	FULL PSI	16	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2010XL	2 X 10	15	3000	FULL PSI	18	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2012XL	2 X 12	16	3000	FULL PSI	20	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2014XL	2 X 14	17	3000	FULL PSI	22	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2016XL	2 X 16	19	3000	FULL PSI	24	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2018XL	2 X 18	20	3000	8,939	26	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2020XL	2 X 20	21	3000	7,533	28	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2024XL	2 X 24	24	3000	5,559	32	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2030XL	2 X 30	28	3000	3,788	38	1 1/8	3/16	#8 SAE	1	-	3 9/32	1	2 3/8	2 1/4	3/4
PC2506XL	2 1/2 X 6	14	3000	FULL PSI	14	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
*PC2508XL	2 1/2 X 8	16	3000	FULL PSI	16	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC2510XL	2 1/2 X 10	17	3000	FULL PSI	18	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC2512XL	2 1/2 X 12	19	3000	FULL PSI	20	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC2514XL	2 1/2 X 14	20	3000	FULL PSI	22	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC2516XL	2 1/2 X 16	22	3000	FULL PSI	24	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
*PC2518XL	2 1/2 X 18	24	3000	FULL PSI	26	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
*PC2520XL	2 1/2 X 20	25	3000	FULL PSI	28	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
*PC2524XL	2 1/2 X 24	28	3000	12,124	32	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC2530XL	2 1/2 X 30	33	3000	8,280	38	1 3/8	3/16	#8 SAE	1	13/32	3 17/32	25/32	3	2 1/4	25/32
PC3006XL	3 X 6	19	3000	FULL PSI	14	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3008XL	3 X 8	21	3000	FULL PSI	16	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3010XL	3 X 10	22	3000	FULL PSI	18	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3012XL	3 X 12	24	3000	FULL PSI	20	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3014XL	3 X 14	26	3000	FULL PSI	22	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3016XL	3 X 16	28	3000	FULL PSI	24	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3018XL	3 X 18	30	3000	FULL PSI	26	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3020XL	3 X 20	32	3000	FULL PSI	28	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
*PC3024XL	3 X 24	36	3000	17,571	32	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3030XL	3 X 30	42	3000	11,973	38	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3032XL	3 X 32	43	3000	10,687	40	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3036XL	3 X 36	47	3000	8,677	44	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3040XL	3 X 40	51	3000	7,182	48	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3048XL	3 X 48	61	3000	5,155	56	1 1/2	3/16	#8 SAE	1	13/32	3 1/4	13/16	3 1/2	2 1/4	29/32
PC3506XL	3 1/2 X 6	22	3000	FULL PSI	14	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3508XL	3 1/2 X 8	24	3000	FULL PSI	16	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3510XL	3 1/2 X 10	26	3000	FULL PSI	18	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3512XL	3 1/2 X 12	28	3000	FULL PSI	20	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3514XL	3 1/2 X 14	30	3000	FULL PSI	22	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3516XL	3 1/2 X 16	32	3000	FULL PSI	24	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3518XL	3 1/2 X 18	35	3000	FULL PSI	26	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3520XL	3 1/2 X 20	37	3000	FULL PSI	28	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3524XL	3 1/2 X 24	41	3000	FULL PSI	32	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3530XL	3 1/2 X 30	47	3000	22,050	38	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3532XL	3 1/2 X 32	49	3000	19,693	40	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3536XL	3 1/2 X 36	53	3000	15,980	44	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3540XL	3 1/2 X 40	57	3000	13,221	48	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3542XL	3 1/2 X 42	59	3000	12,103	50	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC3548XL	3 1/2 X 48	68	3000	9,485	56	1 3/4	3/16	#8 SAE	1 1/4	5/8	3	1 1/32	4	2 1/2	1 3/32
PC4008XL	4 X 8	36	3000	FULL PSI	17	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4012XL	4 X 12	43	3000	FULL PSI	21	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4016XL	4 X 16	50	3000	FULL PSI	25	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4020XL	4 X 20	56	3000	FULL PSI	29	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4024XL	4 X 24	63	3000	FULL PSI	33	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4030XL	4 X 30	73	3000	36,361	39	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4032XL	4 X 32	77	3000	32,527	41	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4036XL	4 X 36	84	3000	26,476	45	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4040XL	4 X 40	91	3000	21,970	49	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4042XL	4 X 42	94	3000	20,136	51	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4048XL	4 X 48	104	3000	15,828	57	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8
PC4060XL	4 X 60	125	3000	10,516	69	2	7/32	#10 SAE	1 1/4	25/32	3 13/16	1 1/16	4 1/2	4	1 1/8

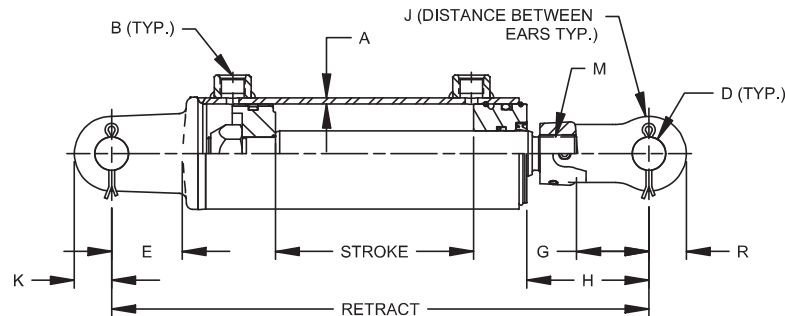
* Frequently stocked items

MODEL	ROD DIAMETER OPTIONS					A	B (SAE)	PSI
PC20	1.125	-	-	-	-	3/16	#8	3000
PC25	*1.250	1.375	-	-	-	3/16	#8	3000
PC30	*1.375	1.500	1.750	-	-	3/16	#8	3000
PC35	*1.375	*1.500	1.750	2.000	-	3/16	#8	3000
PC40	1.750	2.000	2.250	2.500	-	7/32	#10	3000
PC50	2.000	2.250	2.500	2.750	3.000	5/16	#12	3000
PC60	3.000	-	-	-	-	1/4	#12	3000

*ONLY AVAILABLE WITH ROD END CLEVIS

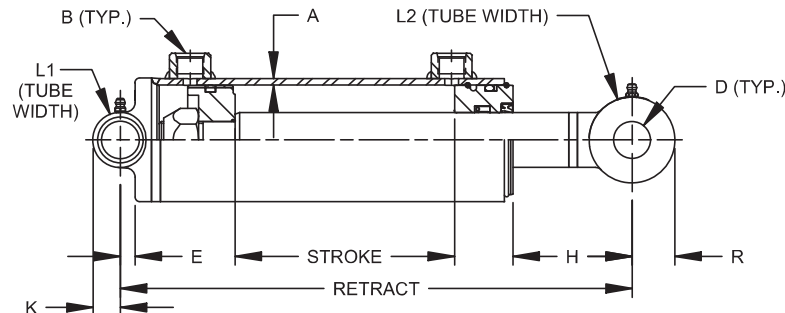
For custom configurations
contact Prince
Manufacturing Corporation
or use the Customer Portal
at www.princehyd.com.

Model	Rod Dia.	CLEVIS BASE			CLEVIS ROD					
		D	E	K	D	G	H	J	M	R
PC20xxCL	1.125	1.015	2.12	1.00	1.015	2.15	3.67	1.06	1 1/8-12	1.13
PC25xxCL	1.250	1.015	2.14	1.00	1.015	2.15	3.97	1.06	1 1/8-12	1.13
PC30xxCL	1.375	1.015	2.13	1.13	1.015	2.15	3.70	1.06	1 1/8-12	1.13
PC35xxCL	1.375	1.015	2.13	1.25	1.015	2.18	3.70	1.06	1 5/16-12	1.25
PC40xxCL	1.750	1.015	2.13	1.25	1.015	2.19	3.65	1.06	1 1/2-12	1.25
PC50xxCL	2.000	1.265	2.13	1.38	1.265	2.18	4.41	1.38	1 3/4-12	1.25



Model	Rod Dia.	CROSSTUBE BASE				CROSSTUBE ROD						
		D	E	K	L1	D	H	L2 (XT)	R (XT)	L2 (XM)	L2 (XL)	R (XL)
PC20xxXT/XM/XL	1.125	.75/1.00	-	1.00	*2.38	.75/1.00	3.29	1.500	0.75	2.000	2.250	0.75
PC25xxXT/XM/XL	1.375	.75/1.00	0.40	0.77	3.00	.75/1.00	3.53	1.380	0.88	2.000	2.250	0.78
PC30xxXT/XM/XL	1.500	1.030	0.40	0.75	3.50	1.015	3.26	1.500	1.17	2.000	2.250	0.91
PC35xxXT/XM/XL	1.750	1.00/1.265	0.63	1.02	4.00	1.00/1.265	3.01	1.750	1.17	2.250	2.500	1.10
PC40xxXT/XM/XL	2.000	1.265	0.78	1.00	4.50	1.265	3.83	2.000	1.29	2.500	4.000	1.10
PC50xxXT	2.500	1.531	1.15	1.25	5.75	1.531	4.00	4.000	1.41	-	-	1.13
PC60xxXT	3.000	1.531	1.31	1.25	6.75	1.531	2.06	4.000	1.41	-	-	-

*HOLE DRILLED THRU BASEPLATE





THE MAGNUM LINE

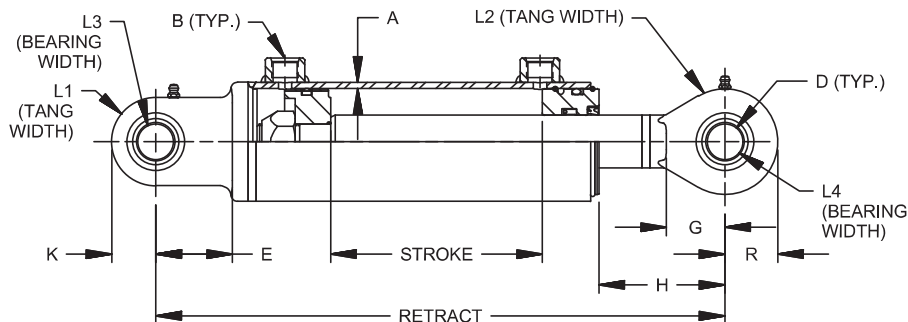
3000 PSI

MODEL	ROD DIAMETER OPTIONS					A	B (SAE)	PSI
PC20	1.125	-	-	-	-	3/16	#8	3000
PC25	*1.250	1.375	-	-	-	3/16	#8	3000
PC30	*1.375	1.500	1.750	-	-	3/16	#8	3000
PC35	*1.375	*1.500	1.750	2.000	-	3/16	#8	3000
PC40	1.750	2.000	2.250	2.500	-	7/32	#10	3000

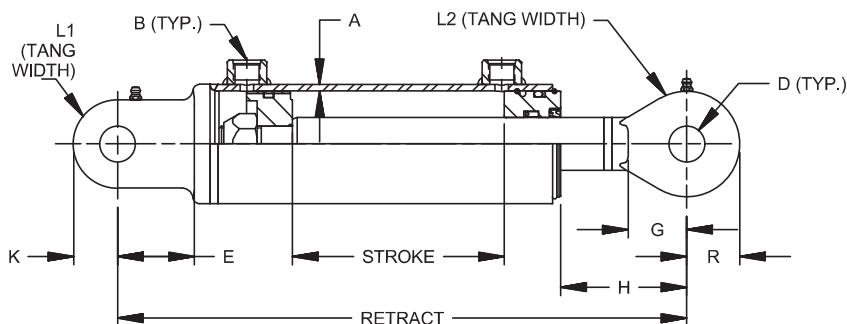
*ONLY AVAILABLE WITH ROD END CLEVIS

For custom configurations
contact Prince
Manufacturing Corporation
or use the Customer Portal
at www.princehyd.com.

Model	Rod Dia.	SPHERICAL BASE					SPHERICAL ROD					
		D	E	K	L1	L3	D	G	H	L2	L4	R
PC20xxSP	1.125	1.000	2.20	1.15	1.00	.875	1.000	1.34	3.67	1.00	.875	1.15
PC25xxSP	1.375	1.000	2.18	1.25	1.00	.875	1.000	1.47	3.97	1.00	.875	1.25
PC30xxSP	1.500	1.000	2.20	1.25	1.00	.875	1.000	1.67	3.70	1.00	.875	1.50
PC35xxSP	1.750	1.000	2.20	1.50	1.00	.875	1.000	1.67	3.70	1.00	.875	1.50
PC40xxSP	2.000	1.250	2.38	1.50	1.00	1.09	1.250	1.79	3.52	1.00	1.09	1.70



Model	Rod Dia.	TANG BASE				TANG ROD				
		D	E	K	L1	D	G	H	L2	R
PC20xxTG	1.125	1.015	2.20	1.15	1.00	1.015	1.34	3.67	1.00	1.15
PC25xxTG	1.375	1.015	2.18	1.25	1.00	1.015	1.47	3.97	1.00	1.25
PC30xxTG	1.500	1.015	2.20	1.25	1.00	1.015	1.67	3.70	1.00	1.50
PC35xxTG	1.750	1.015	2.20	1.50	1.00	1.015	1.67	3.70	1.00	1.50
PC40xxTG	2.000	1.265	2.38	1.50	1.00	1.265	1.79	3.52	1.00	1.70



3000 P.S.I. Rated Tie-Rod

3 / 7 Warranty

3 year warranty on standard products means you can confidently utilize equipment year after year. RoyalPlate Plus® rods are warranted against rust and corrosion for 7 years.

RoyalPlate Plus® Plating – A & B Versions

Prevents rust and corrosion more than twice as long as hard chrome plating and gas nitride treated steel bar.

Flexible Configurations

Cylinders are easily configured by available options such as port size and location, stroke length, pin size and paint color.

Exceptional Paint Performance

Aircraft quality two-part chemical cure polyester urethane paint will not fade and will outperform powder coating for the life of the cylinder.



Prince



Standard Tie-Rod Options

TIE-ROD MODEL CODE IDENTIFICATION MATRIX

MODEL CODE SYSTEM F 350 160 ABAAA07B

MODELS:

B=B SERIES-3000 PSI w/ROYAL PLATE
A=ASAE VERSION OF B SERIES
w/ROYAL PLATE (8" & 16" Strokes
only, 8" stroke not available
in 4.5" & 5" bore size.)
F=F SERIES - 3000 PSI with Chrome
E=ASAE VERSION OF F SERIES
with Chrome

BORE SIZE:

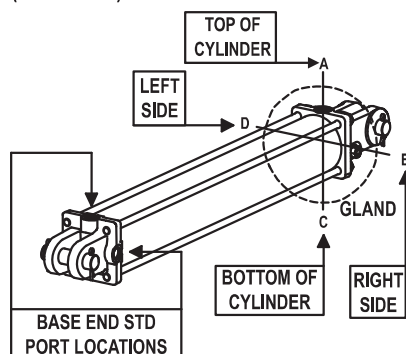
200=2.00" Bore 400=4.00" Bore
250=2.50" Bore 450=4.50" Bore
300=3.00" Bore 500=5.00" Bore
350=3.50" Bore

STROKE: (Inches)

First two digits are in inches
Consult Prince for over 48"

GLAND PORT LOCATIONS: (See Pictorial Below)

A=(Top Port, STD)
B=(R. Side Port)
C=(Bottom Port)
D=(L. Side Port)



PORT LOCATION DETERMINED FROM VIEWING
CYLINDER FROM BASE END.

(See Table Below) PORT STYLE & SIZE:

CODE	PORT TYPE & SIZE	CYLINDER BORE SIZE (Inch)						
		2.00	2.50	3.00	3.50	4.00	4.50	5.00
A	#6 SAE ORB (9/16-18)	O	O	O	O	O	O	O
B	#8 SAE ORB (3/4-16)	S	S	S	S	S	O	O
C	#10 SAE ORB (7/8-14)						S	S
D	NPTF 3/8	O	O	O	O	O	O	O
E	NPTF 1/2	O	O	O	O	O	O	O
F	NPTF 3/4							O

Table Identifiers: (For Tables Above)

S-STANDARD O-OPTIONAL BLANK-NOT AVAILABLE

CARTON & DECAL CODE

A=No carton-Std decals, Installed
B=Carton-Std decals, Installed (STD)
C=No carton-Std decals, Loose
D=Carton-Std decals, Loose
E=No carton-Std decals, customer I.D. decal, Installed

PAINT:

00=No Paint
01=Gloss Red
03=Highway Yellow
07=Gloss Black (STD)

CLEVIS PIN INSTALLATION & RETAINER OPTIONS:

A=Cotter Pins & Clevis Pin(s) Shipped Loose (STD)
B=Cotter Pins & Clevis Pin(s) Installed
C=No Retainers, Clevis Pin(s) Shipped Loose if Selected

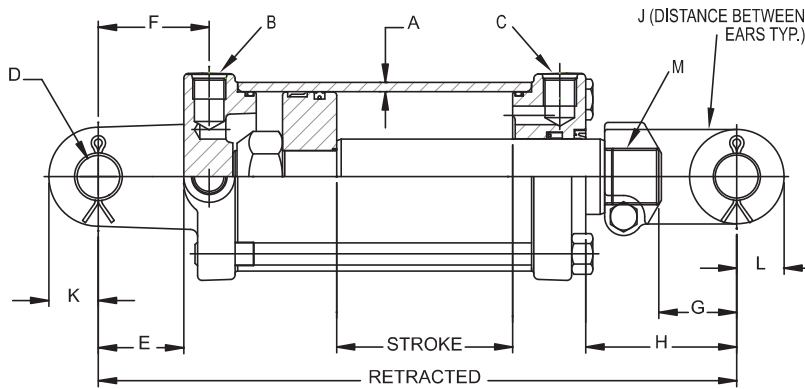
AVAILABLE CLEVIS PIN OPTIONS	CYLINDER BORE SIZE (Inch)						
	2.00	2.50	3.00	3.50	4.00	4.50	5.00
1.00"Ø PIN	S	S	S	S			
1.00"Ø HARDENED PIN	O	O	O	O	S		
1.25"Ø HARDENED PIN					O	S	S

CLEVIS PIN OPTIONS & AVAILABILITY: (See Table Above)

A=2-1.00"Ø Pins
B=Reserved
C=2-1.00"Ø Hardened Pins
D=2-1.25"Ø Hardened Pins
E=1-1.00"Ø Pin
F=Reserved
G=1-1.00"Ø Hardened Pin
H=1-1.25"Ø Hardened Pin
J= No Pins

END FITTING OPTIONS: (See Table Above)

A=Ø1.00" Pin Holes, Both Ends
B=Ø1.00" Base End Pin Hole, No Rod Clevis
C=Ø1.00" Pin Holes, Both Ends, Stroke Control Assy *
D=Ø1.25" Pin Holes, Both Ends
E=Ø1.25" Base End Pin Hole, No Rod Clevis
*(ASAE Version 2.0-3.5" Bore with 8" stroke only)

**FEATURES:**

- Heavy duty, high strength tie-rods
- Induction hardened piston rods plated with RoyalPlate Plus® (piston rods on 2" bore not hardened)
- Ductile iron piston, butt, gland & clevis
- Urethane u-cup & metal encased wiper 2 1/2" bore & larger models
- Crown seal on piston
- Pins & cotter pins (Hardened pins on 4", 4 1/2" & 5" models)
- Standard color is gloss black
- Stroke control may be installed on 8" strokes (2" - 3.5" bore, A models only)
- Side ports available on request
- Nylon piston bearing ring on 4", 4 1/2" & 5" bore models
- 3000 PSI continuous operating pressure

2 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 2 Inch Bore Cylinders
* F200040ABAAA07B	B200040ABAAA07B	4"	17	9425 lbs	14 1/4	3 1/2	Note: 1 1/8" rod diameter Outside Sq. Dim. Butt - 2.875, Gland 2.875 A 3/16" cylinder tube wall thickness B, C SAE 3/4 -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 1/8" base clevis throat depth with 2 7/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size
* F200060ABAAA07B	B200060ABAAA07B	6"	19	9425 lbs	16 1/4	3 1/2	
F200080ABAAA07B	B200080ABAAA07B	8"	20	9425 lbs	18 1/4	3 1/2	
* E200080ABAAA07B	A200080ABAAA07B	8"	21	9425 lbs	20 1/4	3 1/2	
* F200100ABAAA07B	B200100ABAAA07B	10"	22	9425 lbs	20 1/4	3 1/2	
* F200120ABAAA07B	B200120ABAAA07B	12"	23	9425 lbs	22 1/4	3 1/2	
* F200140ABAAA07B	B200140ABAAA07B	14"	25	9425 lbs	24 1/4	3 1/2	
* F200160ABAAA07B	B200160ABAAA07B	16"	28	9425 lbs	26 1/4	3 1/2	
* E200160ABAAA07B	A200160ABAAA07B	16"	28	7630 lbs	31 1/2	3 1/2	
* F200180ABAAA07B	B200180ABAAA07B	18"	28	9200 lbs	28 1/4	3 1/2	
* F200200ABAAA07B	B200200ABAAA07B	20"	30	7760 lbs	30 1/4	3 1/2	
* F200240ABAAA07B	B200240ABAAA07B	24"	33	5730 lbs	34 1/4	3 1/2	
* F200300ABAAA07B	B200300ABAAA07B	30"	37	3910 lbs	40 1/4	3 1/2	

Seal Kits: Seal Kit for A, B, E, F & SAE-320XX Cylinder Models = PMCK-B200000

Universal Seal Kit for SAE-90XX, SAE-320XXX, A, B, E & F Cylinder Models = 240040022

2.5 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 2.5 Inch Bore Cylinders
* F250060ABAAA07B	B250060ABAAA07B	6"	22	14730 lbs	16 1/4	3 3/4	Note: 1 1/4" rod diameter Outside Sq. Dim. Butt - 3.375, Gland 3.375 A 3/16" cylinder tube wall thickness B, C SAE 3/4 -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 1/8" base clevis throat depth with 2 3/8" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size
F250080ABAAA07B	B250080ABAAA07B	8"	25	14730 lbs	18 1/4	3 3/4	
* E250080ABAAA07B	A250080ABAAA07B	8"	25	14730 lbs	20 1/4	3 3/4	
* F250100ABAAA07B	B250100ABAAA07B	10"	26	14730 lbs	20 1/4	3 3/4	
* F250120ABAAA07B	B250120ABAAA07B	12"	28	14730 lbs	22 1/4	3 3/4	
* F250140ABAAA07B	B250140ABAAA07B	14"	30	14730 lbs	24 1/4	3 3/4	
* F250160ABAAA07B	B250160ABAAA07B	16"	25	14730 lbs	26 1/4	3 3/4	
* E250160ABAAA07B	A250160ABAAA07B	16"	34	11520 lbs	31 1/2	3 3/4	
* F250180ABAAA07B	B250180ABAAA07B	18"	34	13880 lbs	28 1/4	3 3/4	
* F250200ABAAA07B	B250200ABAAA07B	20"	36	11720 lbs	30 1/4	3 3/4	
* F250240ABAAA07B	B250240ABAAA07B	24"	41	8670 lbs	34 1/4	3 3/4	
* F250300ABAAA07B	B250300ABAAA07B	30"	47	5930 lbs	40 1/4	3 3/4	

Seal Kits: Seal Kit for A, B, E, F & SAE-325XX Cylinder Models = PMCK-B250000

Universal Seal Kit for SAE-91XX, SAE-325XXX, A, B, E & F Cylinder Models = 240040023

3 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 3 Inch Bore Cylinders
* F300060ABAAA07B	B300060ABAAA07B	6"	26	21210 lbs	16 1/4	3 3/4	Note: 1 3/8" rod diameter Outside Sq. Dim. Butt - 3.875, Gland 3.875 A 3/16" cylinder tube wall thickness B, C SAE 3/4 -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 1/8" base clevis throat depth with 2 1/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 1/8" base clevis ear radius L 1 1/8" rod clevis ear radius M 1 1/8" - 12 UNF-3 piston rod clevis thread size
F300080ABAAA07B	B300080ABAAA07B	8"	29	21210 lbs	18 1/4	3 3/4	
* E300080ABAAA07B	A300080ABAAA07B	8"	29	21210 lbs	20 1/4	3 3/4	
* F300100ABAAA07B	B300100ABAAA07B	10"	30	21210 lbs	20 1/4	3 3/4	
* F300120ABAAA07B	B300120ABAAA07B	12"	33	21210 lbs	22 1/4	3 3/4	
* F300140ABAAA07B	B300140ABAAA07B	14"	35	21210 lbs	24 1/4	3 3/4	
F300160ABAAA07B	B300160ABAAA07B	16"	29	21210 lbs	26 1/4	3 3/4	
* E300160ABAAA07B	A300160ABAAA07B	16"	40	16730 lbs	31 1/2	3 3/4	
* F300180ABAAA07B	B300180ABAAA07B	18"	40	20120 lbs	28 1/4	3 3/4	
* F300200ABAAA07B	B300200ABAAA07B	20"	42	17010 lbs	30 1/4	3 3/4	
* F300240ABAAA07B	B300240ABAAA07B	24"	47	12620 lbs	34 1/4	3 3/4	
* F300300ABAAA07B	B300300ABAAA07B	30"	54	8640 lbs	40 1/4	3 3/4	
* F300360ABAAA07B	B300360ABAAA07B	36"	61	6290 lbs	46 1/4	3 3/4	
* F300480ABAAA07B	B300480ABAAA07B	48"	75	3760 lbs	58 1/4	3 3/4	

Seal Kits: Seal Kit for A, B, E, F & SAE-330XX Cylinder Models = PMCK-B300000

Universal Seal Kit for SAE-92XX, SAE-330XXX, A, B, E & F Cylinder Models = 240040024

* Frequently stocked items

3.5 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 3.5 Inch Bore Cylinders
F350080ABAAA07B	B350080ABAAA07B	8"	35	28860 lbs	18 ¼	3 ¾	Note: 1 ¾" rod diameter Outside Sq. Dim. Butt - 4.313, Gland 4.313 A ¾" cylinder tube wall thickness B, C SAE ¾ -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 7/8" base clevis throat depth with 27/16" from pin center to port center G 1 13/16" rod clevis throat depth J 1.06" min. distance between ears at pin center line K 1 ¼" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 5/16" - 12 UNF-3 piston rod clevis thread size
*E350080ABAAA07B	A350080ABAAA07B	8"	35	28860 lbs	20 ¼	ASAE 5 ¾	
*F350100ABAAA07B	B350100ABAAA07B	10"	37	28860 lbs	20 ¼	3 ¾	
*F350120ABAAA07B	B350120ABAAA07B	12"	39	28860 lbs	22 ¼	3 ¾	
*F350140ABAAA07B	B350140ABAAA07B	14"	42	28860 lbs	24 ¼	3 ¾	
F350160ABAAA07B	B350160ABAAA07B	16"	35	24700 lbs	26 ¼	3 ¾	
*E350160ABAAA07B	A350160ABAAA07B	16"	46	16900 lbs	31 ½	ASAE 9	
*F350180ABAAA07B	B350180ABAAA07B	18"	47	20400 lbs	28 ¼	3 ¾	
*F350200ABAAA07B	B350200ABAAA07B	20"	49	17240 lbs	30 ¼	3 ¾	
*F350240ABAAA07B	B350240ABAAA07B	24"	54	12780 lbs	34 ¼	3 ¾	
*F350300ABAAA07B	B350300ABAAA07B	30"	62	8760 lbs	40 ¼	3 ¾	
*F350360ABAAA07B	B350360ABAAA07B	36"	69	6370 lbs	46 ¼	3 ¾	
*F350480ABAAA07B	B350480ABAAA07B	48"	85	3800 lbs	58 ¼	3 ¾	

Seal Kits: Seal Kit for A, B, E, F & SAE-335XX Cylinder Models = PMCK-B350000

Universal Seal Kit for SAE-93XX, SAE-335XXX, A, B, E & F Cylinder Models = 240040025

4 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 4 Inch Bore Cylinders
F400080ABACA07B	B400080ABACA07B	8"	48	37700 lbs	18 ¼	3 ¾	Note: 1 ¾" rod diameter Outside Sq. Dim. Butt - 5.063, Gland 5.063 A ¾" cylinder tube wall thickness B, C SAE ¾ -16 extend & retract ports D 1.015" clevis pin hole size E, F 1 ¾" base clevis throat depth with 27/16" from pin center to port center G 1 7/8" rod clevis throat depth J 1.13" min. distance between ears at pin center line K 1 ¼" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size
*E400080ABACA07B	A400080ABACA07B	8"	48	37700 lbs	20 ¼	ASAE 5 ½	
*F400100ABACA07B	B400100ABACA07B	10"	50	37700 lbs	20 ¼	3 ¾	
*F400120ABACA07B	B400120ABACA07B	12"	54	37700 lbs	22 ¼	3 ¾	
*F400140ABACA07B	B400140ABACA07B	14"	57	37700 lbs	24 ¼	3 ¾	
F400160ABACA07B	B400160ABACA07B	16"	48	37700 lbs	26 ¼	3 ¾	
*E400160ABACA07B	A400160ABACA07B	16"	64	37700 lbs	31 ½	ASAE 8 ½	
*F400180ABACA07B	B400180ABACA07B	18"	64	37700 lbs	28 ¼	3 ¾	
*F400200ABACA07B	B400200ABACA07B	20"	68	37700 lbs	30 ¼	3 ¾	
*F400240ABACA07B	B400240ABACA07B	24"	75	33710 lbs	34 ¼	3 ¾	
*F400300ABACA07B	B400300ABACA07B	30"	85	22990 lbs	40 ¼	3 ¾	
*F400360ABACA07B	B400360ABACA07B	36"	95	16680 lbs	46 ¼	3 ¾	
*F400480ABACA07B	B400480ABACA07B	48"	116	9920 lbs	58 ¼	3 ¾	

Seal Kits: Seal Kit for A, B, E, F & SAE-340XX Cylinder Models = PMCK-B400000

Universal Seal Kit for SAE-94XX, SAE-340XXX, A, B, E & F Cylinder Models = 240040026

4.5 INCH BORE CYLINDERS

E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 4.5 Inch Bore Cylinders
F450080ACDDA07B	B450080ACDDA07B	8"	60	47710 lbs	20 ¼	4	Note: 2" rod diameter Outside Sq. Dim. Butt - 5.5, Gland 5.56 A ¼" cylinder tube wall thickness B, C SAE 7/8 -14 extend & retract ports D 1.265" clevis pin hole size E, F 2 ¼" base clevis throat depth with 2 5/16" from pin center to port center G 2" rod clevis throat depth J 1.13" min. distance between ears at pin center line K 1 5/16" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size
F450120ACDDA07B	B450120ACDDA07B	12"	69	47710 lbs	24 ¼	4	
F450140ACDDA07B	B450140ACDDA07B	14"	74	47710 lbs	26 ¼	4	
F450160ACDDA07B	B450160ACDDA07B	16"	60	47710 lbs	28 ¼	4	
E450160ACDDA07B	A450160ACDDA07B	16"	81	47710 lbs	31 ½	ASAE 7 ¼	
F450180ACDDA07B	B450180ACDDA07B	18"	83	47710 lbs	30 ¼	4	
F450200ACDDA07B	B450200ACDDA07B	20"	87	47710 lbs	32 ¼	4	
F450240ACDDA07B	B450240ACDDA07B	24"	97	44710 lbs	36 ¼	4	
F450300ACDDA07B	B450300ACDDA07B	30"	110	37530 lbs	42 ¼	4	
F450360ACDDA07B	B450360ACDDA07B	36"	124	27430 lbs	48 ¼	4	
F450480ACDDA07B	B450480ACDDA07B	48"	152	16470 lbs	60 ¼	4	

Seal Kits: Seal Kit for A, B, E, F & SAE-345XX Cylinder Models = PMCK-B450000

No Universal Seal Kit offered

5 INCH BORE CYLINDERS

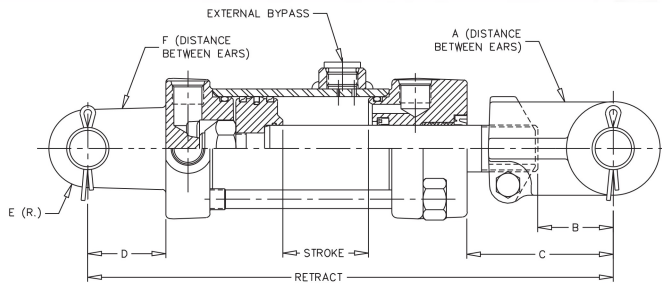
E & F Series Chrome Rod	A & B Series Royal Plate Rod	Stroke	Wt	Column Load (lbs)	Retract	Tare Dist. (H)	Standard Dimensions of 5 Inch Bore Cylinders
*F500080ACDDA07B	B500080ACDDA07B	8"	72	58900 lbs	20 ¼	4	Note: 2" rod diameter Outside Sq. Dim. Butt - 5.875, Gland 5.875 A ¼" cylinder tube wall thickness B, C SAE 7/8 -14 extend & retract ports D 1.265" clevis pin hole size E, F 1 ¾" base clevis throat depth with 2 5/8" from pin center to port center G 2" rod clevis throat depth J 1.13" min. distance between ears at pin center line K 1 3/8" base clevis ear radius L 1 ¼" rod clevis ear radius M 1 ½" - 12 UNF-3 piston rod clevis thread size
*F500120ACDDA07B	B500120ACDDA07B	12"	83	58900 lbs	24 ¼	4	
F500140ACDDA07B	B500140ACDDA07B	14"	88	58900 lbs	26 ¼	4	
F500160ACDDA07B	B500160ACDDA07B	16"	96	58900 lbs	28 ½	4	
*E500160ACDDA07B	A500160ACDDA07B	16"	96	58900 lbs	31 ½	ASAE 7 ¼	
F500180ACDDA07B	B500180ACDDA07B	18"	98	58900 lbs	30 ¼	4	
*F500200ACDDA07B	B500200ACDDA07B	20"	103	58900 lbs	32 ¼	4	
*F500240ACDDA07B	B500240ACDDA07B	24"	113	54510 lbs	36 ¼	4	
*F500300ACDDA07B	B500300ACDDA07B	30"	129	37620 lbs	42 ¼	4	
*F500360ACDDA07B	B500360ACDDA07B	36"	144	27520 lbs	48 ¼	4	
*F500480ACDDA07B	B500480ACDDA07B	48"	175	16550 lbs	60 ¼	4	

Seal Kits: Seal Kit for A, B, E, F & SAE-350XX Cylinder Models = PMCK-B500000

Universal Seal Kit for SAE-95XX, SAE-350XXX, A, B, E & F Cylinder Models = 240040027

* Frequently stocked items

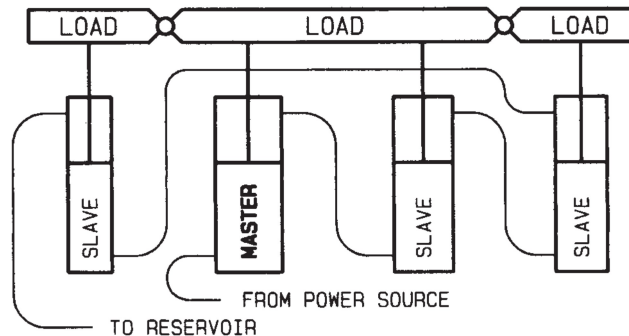
TIE-ROD CONSTRUCTION - EXTERNAL STYLE BYPASS



FEATURES:

- Heavy duty tie-rod construction
- Induction hardened piston rods plated with RoyalPlate Plus®
- High performance polyamide rod bearing
- #8 S.A.E.(3/4-16 ORB) ports
- For use with 1" pins
- Pins, clips & cotters included
- ORB to pipe adaptors are not included
- Color is gloss black
- Same high quality features found in all Prince Tie-rod Cylinders with the addition of an external bypass (rephase)

TO RAISE LOADS EQUALLY



NOTES:

- Master cylinder provides power for the entire system
- Each cylinder in series has less pressure in proportion to the load on it
- Designed for use in a series cylinder circuit at a maximum of 3000 PSI, cylinder not to be used at 3000 PSI in push or pull as a single cylinder
- Stroke control assemblies may be installed on 8" stroke models
- Can be used with remote stroke control valve PM-SC-10
- Can be used with holding valves HC-V-AA21 and HC-V-AA22
- Master cylinder equipped with series/rephase and stroke control are available. Contact Prince Sales Department.
- Custom designs in welded or tie-rod style for larger or smaller bore sizes
- Exact matched sets available
- Contact Prince Engineering Department for special applications

Bore	Rod Dia.	8" Stroke 20 1/4" Retract	10" Stroke 22 1/4" Retract	12" Stroke 24 1/4" Retract	16" Stroke 28 1/4" Retract	A	B	C	D	E	F
2 1/2	1 1/8	PMS-AM-2586	PMS-AM-2629	PMS-AM-2588	PMS-AM-2590	1 1/8	1 13/16	5 23/32	1 7/8	15/16	1 1/16
2 3/4	1 1/8	PMS-AM-2580	PMS-AM-2627	PMS-AM-2582	PMS-AM-2584	1 1/8	1 13/16	5 23/32	1 7/8	1 1/16	1 1/16
3	1 1/4	PMS-AM-2574	PMS-AM-2625	PMS-AM-2576	PMS-AM-2578	1 1/8	1 13/16	5 23/32	1 7/8	1 1/16	1 1/16
3 1/4	1 1/4	PMS-AM-2568	PMS-AM-2623	PMS-AM-2570	PMS-AM-2572	1 1/8	1 13/16	5 23/32	1 7/8	1 1/4	1 1/16
3 1/2	1 1/4	PMS-AM-2562	PMS-AM-2621	PMS-AM-2564	PMS-AM-2566	1 1/8	1 13/16	5 23/32	1 7/8	1 1/4	1 1/16
3 3/4	1 3/8	PMS-AM-2556A	PMS-AM-2619A	PMS-AM-2558A	PMS-AM-2560A	1 1/8	1 7/8	5 11/32	1 3/4	1 1/4	1 1/8
4	1 3/8	PMS-AM-2550A	PMS-AM-2617A	PMS-AM-2552A	PMS-AM-2554A	1 1/8	1 7/8	5 11/32	1 3/4	1 1/4	1 1/8
4 1/2	2	PMS-AM-2544	PMS-AM-2615	PMS-AM-2546	PMS-AM-2548	1 1/8	1 7/8	4 1/32	1 3/4	1 3/8	1 1/8
4 3/4	1 1/2	PMS-AM-2538	PMS-AM-2613	PMS-AM-2540	PMS-AM-2542	1 1/8	1 7/8	4 1/32	1 3/4	1 3/8	1 1/8
5	1 1/2	PMS-AM-2532	PMS-AM-2611	PMS-AM-2534	PMS-AM-2536	1 1/8	1 7/8	4 1/32	1 3/4	1 3/8	1 1/8



2500 PSI TIE-ROD DOUBLE ACTING

THE "MAJESTIC LINE" Tie-Rod-DA-Medium Duty Rods



FEATURES:

- Chromed, ground & polished piston rod will operate at full pressure through 16" stroke
- Ductile iron piston, butt, gland & clevis
- Urethane u-cup & urethane wiper in gland
- Pins, clips & cotters included
- Color is gloss black
- Stroke control may be installed on 8" strokes
- Side ports available on request at no additional cost

CYLINDER DIMENSIONAL FEATURES: For dimensional data of configured cylinders, please refer to the Standard Dimensions column of the standard cylinder tables on page C17-C18. For outside cylinder dimensions and clevis widths for both A & B models, see table below.

Bore Size	Outside Sq. Dim		Clevis Width	
	Butt	Gland	Butt	Rod
2"	2.875"	2.875"	2.500"	2.500"
2.5"	3.375"	3.375"	2.440"	2.500"
3"	3.875"	3.875"	2.500"	2.500"
3.5"	4.313"	4.313"	2.750"	2.875"
4"	5.063"	5.063"	2.750"	2.875"
4.5"	5.500"	5.560"	3.180"	2.875"
5"	5.875"	5.875"	3.180"	2.875"

Rods are sized for a maximum safe push load (2:1 safety factor) given in the table. This is based on the pin configuration shown with no center support.

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Re-tract	Rod Dia.	A	B SAE	C SAE	D	E	F	G	H	J	K	L	M
SAE-8404	2 x 4	18	2500	FULL PSI	14 1/4	1	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	3 1/2	1.06	15/16	1 1/8	1-14
SAE-8406	2 x 6	19	2500	FULL PSI	16 1/4	1	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	3 1/2	1.06	15/16	1 1/8	1-14
SAE-8408	2 x 8	20	2500	FULL PSI	20 1/4	1	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	5 1/2	1.06	15/16	1 1/8	1-14
SAE-8410	2 x 10	21	2500	FULL PSI	20 1/4	1	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	3 1/2	1.06	15/16	1 1/8	1-14
SAE-7006	2 1/2 x 6	22	2500	FULL PSI	16 1/4	1 1/8	3/16	3/4-16	3/4-16	1.015	1 7/8	2 13/32	1 13/16	3 3/4	1.06	15/16	1 1/8	1 1/8-12
SAE-7008	2 1/2 x 8	23	2500	FULL PSI	20 1/4	1 1/8	3/16	3/4-16	3/4-16	1.015	1 7/8	2 13/32	1 13/16	5 3/4	1.06	15/16	1 1/8	1 1/8-12
SAE-7106	3 x 6	24	2500	FULL PSI	16 1/4	1 1/8	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	3 3/4	1.06	1 1/16	1 1/8	1 1/8-12
SAE-7108	3 x 8	26	2500	FULL PSI	20 1/4	1 1/8	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	5 3/4	1.06	1 1/16	1 1/8	1 1/8-12
SAE-7208A	3 1/2 x 8	31	2500	FULL PSI	20 1/4	1 1/8	3/16	3/4-16	3/4-16	1.015	1 7/8	2 7/16	1 13/16	5 3/4	1.06	1 1/4	1 1/4	1 1/8-12
SAE-8608	4 x 8	42	2500	FULL PSI	20 1/4	1 1/2	3/16	3/4-16	3/4-16	1.015	1 3/4	2 7/16	1 7/8	5 1/4	1.13	1 1/4	1 1/4	1 1/2-12
SAE-8610	4 x 10	45	2500	FULL PSI	20 1/4	1 1/2	3/16	3/4-16	3/4-16	1.015	1 3/4	2 7/16	1 7/8	3 1/4	1.13	1 1/4	1 1/4	1 1/2-12
SAE-8208	5 x 8	64	2500	FULL PSI	20 1/4	1 3/4	1/4	7/8-14	7/8-14	1.265	1 3/4	2 5/8	2	4	1.13	1 3/8	1 1/4	1 1/2-12
SAE-8210	5 x 10	67	2500	FULL PSI	22 1/4	1 3/4	1/4	7/8-14	7/8-14	1.265	1 3/4	2 5/8	2	4	1.13	1 3/8	1 1/4	1 1/2-12

3000 PSI Tie-Rod-DA-With 2" Rod

Model No.	Style	Wt.	PSI	Column Load (Lbs.)	Re-tract	Rod Dia.	A	B SAE	C SAE	D	E	F	G	H	J	K, L	M
C400080ABDDA07B	4 x 8	50	3000PSI	Full PSI	20 1/4	2	3/16	3/4 - 16	3/4 - 16	1.265	1 3/4	2 7/16	1.875	5 1/4	1.13	1 1/4	1 1/2-12
C400160ABDDA07B	4 x 16	68	3000PSI	Full PSI	31 1/2	2	3/16	3/4 - 16	3/4 - 16	1.265	1 3/4	2 7/16	1.875	8 1/2	1.13	1 1/4	1 1/2-12
C400240ABDDA07B	4 x 24	81	3000PSI	Full PSI	36 1/4	2	3/16	3/4 - 16	3/4 - 16	1.265	1 3/4	2 7/16	1.875	5 1/4	1.13	1 1/4	1 1/2-12
C400260ABDDA07B	4 x 26	84	3000PSI	Full PSI	38 1/4	2	3/16	3/4 - 16	3/4 - 16	1.265	1 3/4	2 7/16	1.875	5 1/4	1.13	1 1/4	1 1/2-12