

Hydraulic Cylinder

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For Customer service, please contact:

Shanghai RealCrane Trading Co., Ltd.

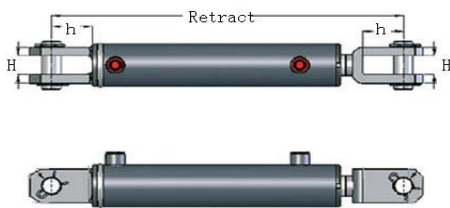
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Welded Cylinders

With clevis mounting,

3000 PSI Max Pressure



- ※ Tube---Precision finished steel for extended seal & cylinder life
- ※ Tube Seal---O-ring with anti-extrusion backup washer
- ※ Rod---Hard chrome plated 1045 high strength steel for longer cylinder life
- ※ Rod Seal---Polyurethane U-Cup & Wiper and Wear Ring if necessary
- ※ Piston---Precision machined ductile iron or steel
- ※ Piston Seal---Glass filled Teflon seal and nylon Wear Ring if necessary
- ※ Gland (Rod Cap)---High grade ductile iron or steel
- ※ End Cap---Cast steel or round steel with lugs welded on for high load
- ※ Rod End Clevis---Cast steel or steel or threaded cast iron rod end clevis

Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 1.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W1504C	0.75 or 1.0	4	14.25	10	Tube Wall: 0.19 SAE06 Port: 9/16-18 Pin Dia.: 0.75 H: 0.8 h: 2.125 Piston Width: app.1.2 Gland Width: app.2.2
W1506C		6	16.25	11	
W1508C		8	18.25	12	
W1510C		10	20.25	13	
W1512C		12	22.25	14	
W1514C		14	24.25	15	
W1516C		16	26.25	16	
W1518C		18	28.25	17	
W1520C		20	30.25	18	
W1508C-ASAE		8	20.25	12	
W1516C-ASAE		16	31.50		

Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 2.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W2004C	1.13	4	14.25	16	Tube Wall: 0.19 SAE08 Port: 3/4-16 Pin Dia.: 1.0 H: 1.125 h: 2.125 Piston Width: app.1.2 Gland Width: app.2.2
W2006C		6	16.25	17	
W2008C		8	18.25	18	
W2010C		10	20.25	20	
W2012C		12	22.25	21	
W2014C		14	24.25	22	
W2016C		16	26.25	23	
W2018C		18	28.25	25	
W2020C		20	30.25	27	
W2024C		24	34.25	30	
W2028C		28	38.25	33	
W2030C		30	40.25	34	
W2032C		32	42.25	36	
W2034C		34	44.25	38	
W2036C		36	46.25	40	
W2008C-ASAE		8	20.25	19	
W2016C-ASAE		16	31.50	26	

Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 2.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W2504C	1.25	4	14.25	17	Tube Wall: 0.19 SAE08 Port: 3/4-16 Pin Dia.: 1.0 H: 1.125 h: 2.125 Piston Width: app.1.3 Gland Width: app.2.2
W2506C		6	16.25	18	
W2508C		8	18.25	19	
W2510C		10	20.25	21	
W2512C		12	22.25	23	
W2514C		14	24.25	25	
W2516C		16	26.25	27	
W2518C		18	28.25	29	
W2520C		20	30.25	31	
W2524C		24	34.25	35	
W2528C		28	38.25	39	
W2530C		30	40.25	41	
W2532C		32	42.25	43	
W2536C		36	46.25	46	
W2548C		48	58.25	55	
W2508C-ASAE		8	20.25	21	
W2516C-ASAE		16	31.50	32	

Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 3.0"

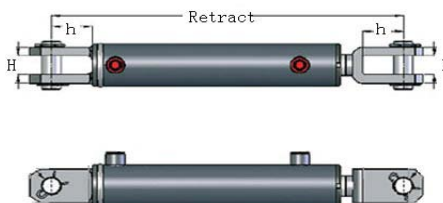
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W3004C	1.5	4	14.25	22	Tube Wall: 0.25 SAE08 Port: 3/4-16 Pin Dia.: 1.0 H: 1.125 h: 2.125 Piston Width: app.1.3 Gland Width: app.2.2
W3006C		6	16.25	24	
W3008C		8	18.25	26	
W3010C		10	20.25	28	
W3012C		12	22.25	30	
W3014C		14	24.25	32	
W3016C		16	26.25	34	
W3018C		18	28.25	36	
W3020C		20	30.25	38	
W3024C		24	34.25	43	
W3028C		28	38.25	48	
W3030C		30	40.25	50	
W3032C		32	42.25	52	
W3036C		36	46.25	57	
W3048C		48	58.25	71	
W3008C-ASAE		8	20.25	27	
W3016C-ASAE		16	31.50	39	

- ※ Threaded Rod End Clevis available on request
- ※ Cylinder weight is for reference.

Welded Cylinders

With clevis mounting,

3000 PSI Max Pressure



Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 3.5"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W3504C	1.75	4	14.25	32	Tube Wall: 0.25 SAE08 Port: 3/4-16 Pin Dia.: 1/1.25 H: 1.125 h: 2.0 Piston Width: app.1.5 Gland Width: app.2.3
W3506C		6	16.25	34	
W3508C		8	18.25	37	
W3510C		10	20.25	40	
W3512C		12	22.25	43	
W3514C		14	24.25	46	
W3516C		16	26.25	49	
W3518C		18	28.25	52	
W3520C		20	30.25	55	
W3524C		24	34.25	61	
W3528C		28	38.25	68	
W3530C		30	40.25	71	
W3532C		32	42.25	74	
W3536C		36	46.25	80	
W3548C		48	58.25	98	
W3508C-ASAE		8	20.25	39	
W3516C-ASAE		16	31.50	53	

Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 4.0"					
Item	Rod	Stroke	Retract	Wt. Lbs.	Other Dimensions (inch)
W4004C	2.0	4	14.25	46	Tube Wall: 0.25/0.31 SAE08 Port: 3/4-16 Pin Dia.: 1/1.5 H: 1.625 h: 1.75 Piston Width: app.1.8 Gland Width: app.2.4
W4006C		6	16.25	50	
W4008C		8	18.25	54	
W4010C		10	20.25	58	
W4012C		12	22.25	62	
W4014C		14	24.25	66	
W4016C		16	26.25	70	
W4018C		18	28.25	74	
W4020C		20	30.25	78	
W4024C		24	34.25	86	
W4028C		28	38.25	94	
W4030C		30	40.25	98	
W4032C		32	42.25	102	
W4036C		36	46.25	110	
W4048C		48	58.25	134	
W4008C-ASAE		8	20.25	57	
W4016C-ASAE	16	31.50	76		

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Dimensions in inch Welded Cylinders with Clevis mounting, Bore: 5.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W5004C	2.5	4	16.25/19.75	74	Tube Wall: 0.31~0.37 SAE12 Port: 1/16-12 Pin Dia.: 1.5/2.0 H: 2.125 h: 3.5 Piston Width: app.2.1 Gland Width: app.2.7
W5006C		6	18.25/21.75	80	
W5008C		8	20.25/23.75	86	
W5010C		10	22.25/25.75	92	
W5012C		12	24.25/27.75	98	
W5014C		14	26.25/29.75	104	
W5016C		16	28.25/31.75	110	
W5018C		18	30.25/33.75	116	
W5020C		20	32.25/35.75	122	
W5024C		24	36.25/39.75	134	
W5028C		28	40.25/43.75	146	
W5030C		30	42.25/45.75	152	
W5032C		32	44.25/47.75	158	
W5036C		36	48.25/51.75	170	
W5048C		48	60.25/63.75	206	

- ※ Other sizes and specifications are available on request.
- ※ Threaded Rod End Clevis available on request
- ※ Cylinder weight is for reference.

- ※ Delivery(exwork) for first order: 4~6weeks
- ※ Delivery(exwork) for next repeated order: 3~4weeks

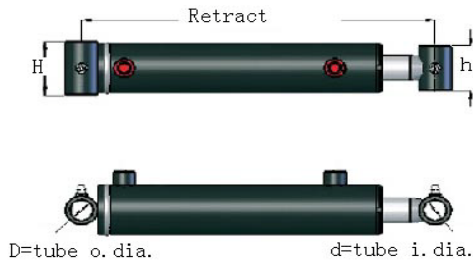
! WARNING

- ※ Please note that the max capacities of clevis pins are
PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
MAX PSI as stroke become longer

Welded Cylinders

With cross tube mounting

3000 PSI Max Pressure



Tube---Precision finished steel for extended seal & cylinder life
 Tube Seal---O-ring with anti-extrusion backup washer
 Rod---Hard chrome plated 1045 high strength steel for longer cylinder life
 Rod Seal---Polyurethane U-Cup & Wiper and Wear Ring if necessary
 Piston---Precision machined ductile iron or steel
 Piston Seal---Glass filled Teflon seal and nylon Wear Ring if necessary
 Gland (Rod Cap)---High grade ductile iron or steel
 End Cap---Durable steel to support continuous high load
 Rod End Tube--- Durable steel

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 1.5"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W1504T	1.0	4	12.0	10	Tube Wall: 0.19 SAE04 Port: 7/16-20 H: 2.25 h: 2.0 D: 1.25/1.5 Pin Dia.: 0.75 Piston Width: app.1.2 Gland Width: app.2.2
W1506T		6	14.0	11	
W1508T		8	16.0	12	
W1510T		10	18.0	13	
W1512T		12	20.0	14	
W1514T		14	22.0	15	
W1516T		16	24.0	16	
W1518T		18	26.0	17	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 2.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W2004T	1.25	4	12.0	12	Tube Wall: 0.19 SAE06 Port: 9/16-18 H: 2.75 h: 2.25 D: 1.5/1.75 Pin Dia.: 1.0 Piston Width: app.1.2 Gland Width: app.2.2
W2006T		6	14.0	13	
W2008T		8	16.0	15	
W2010T		10	18.0	16	
W2012T		12	20.0	18	
W2014T		14	22.0	19	
W2016T		16	24.0	21	
W2018T		18	26.0	22	
W2020T		20	28.0	23	
W2024T		24	32.0	26	
W2028T		28	36.0	29	
W2030T		30	38.0	31	
W2032T		32	40.0	32	
W2036T		36	44.0	35	
W2040T		40	48.0	39	
W2048T		48	56.0	45	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 2.5"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W2504T	1.5	4	12.0	15	Tube Wall: 0.19 SAE08 Port: 3/4-16 H: 3.25 h: 2.25 D: 1.5/1.75 Pin Dia.: 1.0 Piston Width: app.1.2 Gland Width: app.2.2
W2506T		6	14.0	17	
W2508T		8	16.0	19	
W2510T		10	18.0	21	
W2512T		12	20.0	23	
W2514T		14	22.0	25	
W2516T		16	24.0	27	
W2518T		18	26.0	29	
W2520T		20	28.0	32	
W2524T		24	32.0	36	
W2528T		28	36.0	41	
W2530T		30	38.0	43	
W2532T		32	40.0	45	
W2536T		36	44.0	50	
W2540T		40	48.0	53	
W2548T		48	56.0	60	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 3.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W3004T	1.5	4	12.0	19	Tube Wall: 0.25 SAE08 Port: 3/4-16 H: 3.75 h: 2.25 D: 1.5/1.75 Pin Dia.: 1.0 Piston Width: app.1.2 Gland Width: app.2.2
W3006T		6	14.0	21	
W3008T		8	16.0	24	
W3010T		10	18.0	27	
W3012T		12	20.0	29	
W3014T		14	22.0	31	
W3016T		16	24.0	33	
W3018T		18	26.0	36	
W3020T		20	28.0	38	
W3024T		24	32.0	43	
W3028T		28	36.0	48	
W3030T		30	38.0	51	
W3032T		32	40.0	54	
W3036T		36	44.0	59	
W3040T		40	48.0	65	
W3048T		48	56.0	75	

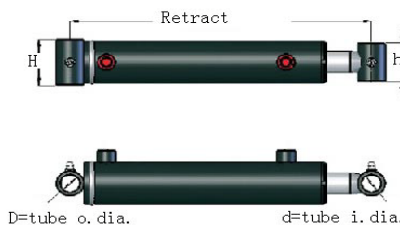
※ Other sizes and specifications are available on request.
 ※ Cylinder weight is for reference.

※ Delivery(exwork) for first order: 4~6weeks
 ※ Delivery(exwork) for next repeated order: 3~4weeks

Welded Cylinders

With cross tube mounting

3000 PSI Max Pressure



Dimensions in inch
Welded Cylinders with Cross Tube mounting, Bore: 3.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W3504T	1.5/ 1.75	4	12/14	28	Tube Wall: 0.25 SAE08 Port: 3/4-16 H: 4.25 h: 2.25/2.5 D: 2.0 Pin Dia.: 1.0/1.25 Piston Width: app.1.4 Gland Width: app.2.4
W3506T		6	14/16	30	
W3508T		8	16/18	33	
W3510T		10	18/20	36	
W3512T		12	20/22	39	
W3514T		14	22/24	42	
W3516T		16	24/26	45	
W3518T		18	26/28	48	
W3520T		20	28/30	51	
W3524T		24	32/34	57	
W3528T		28	36/38	63	
W3530T		30	38/40	66	
W3532T		32	40/42	69	
W3536T		36	44/46	75	
W3540T		40	48/50	81	
W3548T		48	56/58	93	

Dimensions in inch
Welded Cylinders with Cross Tube mounting, Bore: 4.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W4004T	2.0	4	13/14	38	Tube Wall: 0.25 SAE08 Port: 3/4-16 H: 4.75 h: 2.5/4.0 D: 2.0/2.5 Pin Dia.: 1.25/1.5 Piston Width: app.1.9 Gland Width: app.2.6
W4006T		6	15/16	42	
W4008T		8	17/18	46	
W4010T		10	19/20	50	
W4012T		12	21/22	54	
W4014T		14	23/24	58	
W4016T		16	25/26	62	
W4018T		18	27/28	66	
W4020T		20	29/30	70	
W4024T		24	33/34	77	
W4028T		28	37/38	84	
W4030T		30	39/40	87	
W4032T		32	41/42	91	
W4036T		36	45/46	98	
W4040T		40	49/50	108	
W4048T	2.25	48	57/58	123	
W4054T		54	66	148	
W4060T		60	73	160	
W4072T		72	85	183	
W4084T		84	99	212	

※ A spacer is added on cylinder of 4.0" bore with stroke over 48"

Dimensions in inch
Welded Cylinders with Cross Tube mounting, Bore: 4.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W4504T	2.25	4	13/14	59	Tube Wall: 0.25~0.31 SAE10 Port: 7/8-14 H: 5.25 h: 3.0/4.0 D: 2.0/2.5 Pin Dia.: 1.25/1.5 Piston Width: app.1.9 Gland Width: app.2.6
W4506T		6	15/16	63	
W4508T		8	17/18	67	
W4510T		10	19/20	71	
W4512T		12	21/22	75	
W4514T		14	23/24	79	
W4516T		16	25/26	83	
W4518T		18	27/28	87	
W4520T		20	29/30	91	
W4524T		24	33/34	99	
W4528T		28	37/38	107	
W4530T		30	39/40	111	
W4532T		32	41/42	115	
W4536T		36	45/46	123	
W4540T		40	49/50	131	
W4548T		48	58/59	149	
W4554T	2.5	54	66	167	
W4560T		60	73	179	
W4572T		72	85	200	

Dimensions in inch
Welded Cylinders with Cross Tube mounting, Bore: 5.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W5004T	2.5	4	15/16	70	Tube Wall: 0.25~0.37 SAE12 Port: 1-1/16-12 H: 6.0 h: 3.25/4.0 D: 3.0 Pin Dia.: 1.5/1.75 Piston Width: app.2.1 Gland Width: app.2.9
W5006T		6	17/18	75	
W5008T		8	19/20	80	
W5010T		10	21/22	85	
W5012T		12	23/24	90	
W5014T		14	25/26	95	
W5016T		16	27/28	100	
W5018T		18	29/30	105	
W5020T		20	31/32	110	
W5024T		24	35/36	122	
W5028T		28	39/40	134	
W5030T		30	41/42	140	
W5032T		32	43/44	145	
W5036T		36	47/48	157	
W5040T		40	51/52	169	
W5048T		48	60/61	196	
W5054T		54	68	216	
W5060T		60	75	235	
W5072T		72	89	270	

※ A spacer is added on cylinder of bore over 4.0" and stroke over 48"

※ Other sizes and specifications are available on request

※ Cylinder weight is for reference.

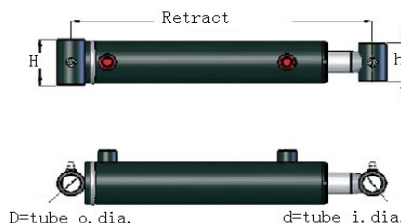
※ Delivery(exwork) for first order: 4~6weeks

※ Delivery(exwork) for next repeated order: 3~4weeks

Welded Cylinders

With cross tube mounting

3000 PSI Max Pressure



Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 5.5"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W5506T	2.5/ 3.0	6	17/18	82	Tube Wall: 0.31~0.37 NPTF Port: 3/4 H: 6.5 h: 4.0/4.5 D: 3.0 Pin Dia.: 1.5/1.75 Piston Width: app.2.3 Gland Width: app.3.0
W5508T		8	19/20	88	
W5510T		10	21/22	94	
W5512T		12	23/24	100	
W5514T		14	25/26	106	
W5516T		16	27/28	112	
W5518T		18	29/30	118	
W5520T		20	31/32	124	
W5524T		24	35/36	136	
W5528T		28	39/40	148	
W5530T		30	41/42	154	
W5532T		32	43/44	160	
W5536T		36	47/48	172	
W5540T		40	51/52	184	
W5548T		48	61	214	
W5554T		54	68	235	
W5560T		60	75	256	
W5572T		72	89	298	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 6.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W6006T	3.0	6	17/18	110	Tube Wall: 0.31~0.37 NPTF Port: 3/4 H: 6.75/7.0 h: 4.0/4.5 D: 3.0 Pin Dia.: 1.5/2.0 Piston Width: app.2.3 Gland Width: app.3.0
W6008T		8	19/20	118	
W6010T		10	21/22	126	
W6012T		12	23/24	134	
W6014T		14	25/26	142	
W6016T		16	27/28	150	
W6018T		18	29/30	158	
W6020T		20	31/32	166	
W6024T		24	35/36	182	
W6028T		28	39/40	198	
W6030T		30	41/42	206	
W6032T		32	43/44	215	
W6036T		36	47/48	232	
W6040T		40	51/52	248	
W6048T		48	61	280	
W6054T		54	68	303	
W6060T		60	75	330	
W6072T		72	89	387	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 7.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W7008T	3.5	8	24	190	Tube Wall: 0.37 NPTF Port: 1" H: 8.0 h: 4.5/5.0 D: 3.5/4.0 Pin Dia.: 2.0/2.5 Piston Width: app.4.0 Gland Width: app.3.2
W7010T		10	26	200	
W7012T		12	28	210	
W7014T		14	30	220	
W7016T		16	32	230	
W7018T		18	34	240	
W7020T		20	36	250	
W7024T		24	40	270	
W7028T		28	44	290	
W7030T		30	46	300	
W7032T		32	48	310	
W7036T		36	52	330	
W7040T		40	56	350	
W7048T		48	66	400	
W7054T		54	73	435	
W7060T		60	80	470	

Dimensions in inch Welded Cylinders with Cross Tube mounting, Bore: 8.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
W8008T	4.0	8	24	238	Tube Wall: 0.37 NPTF Port: 1" H: 9.0 h: 5.0 D: 4.0/4.5 Pin Dia.: 2.5/3.0 Piston Width: app.4.0 Gland Width: app.3.3
W8010T		10	26	250	
W8012T		12	28	262	
W8014T		14	30	274	
W8016T		16	32	286	
W8018T		18	34	298	
W8020T		20	36	310	
W8024T		24	40	334	
W8028T		28	44	358	
W8030T		30	46	370	
W8032T		32	48	382	
W8036T		36	52	406	
W8040T		40	56	430	
W8048T		48	66	490	
W8054T		54	73	532	
W8060T		60	80	573	

- ※ A spacer is added on cylinder of bore over 4.0" and stroke over 48"
- ※ Other sizes and specifications are available on request
- ※ Cylinder weight is for reference.

- ※ Delivery(exwork) for first order: 4~6weeks
- ※ Delivery(exwork) for next repeated order: 3~4weeks

! WARNING

- ※ Please note that the max capacities of clevis pins are
 PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Cylinders made of Stainless Steel Material

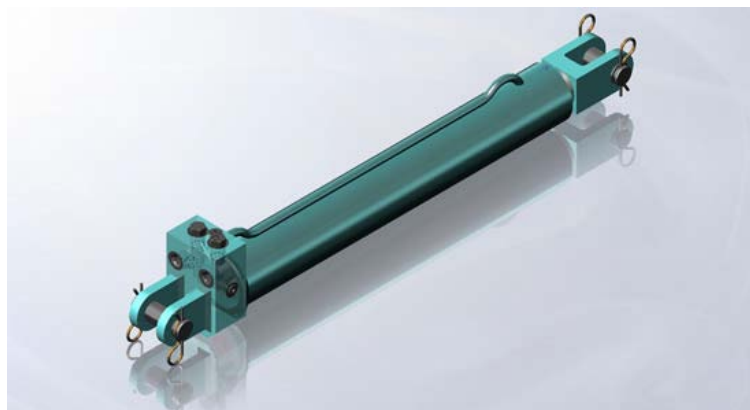


- ※ Made of 304L or 316L stainless steel
 - ※ Mostly applied in environment totally exposed to salty water
 - ※ Load Holding Effect by valves are available on request
-

Please feel free to contact us for details

Customized Welded Cylinders

WLH Series with Load Holding Effect

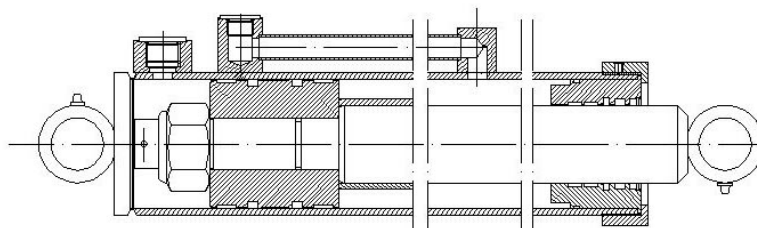


- ※ With load holding effect by counterbalance valve or check & relief valve
 - ※ Load Holding Effect possible on both extending and/or retracting
 - ※ Customized end mounting and sizes are available
-

Please Feel free to contact us for details

Customized Welded Cylinders

WHD series for Heavy Duty Application

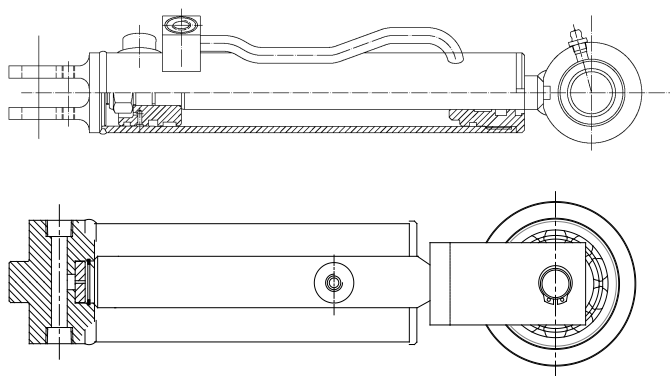


- ※ Heavy duty Double lip U-CUP rod seal & wear ring & rod buffer seal on rod
- ※ Double piston seals & wear rings on piston
- ※ Special bronze scraper with retainer as wiper
- ※ Cushion available on request
- ※ Customized cylinders are available on request

Customized Welded Cylinders

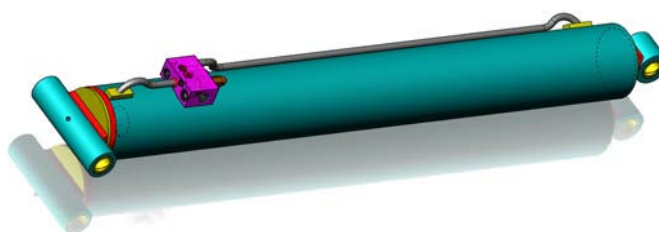
With cushion effect

WND type



- ※ Cushion effect at retracted and/or extended last 0.5~1.0 inch by damping
- ※ Cushion effect by flow control orifice within the cylinder
- ※ Customized end mounting and sizes are available

WNV type

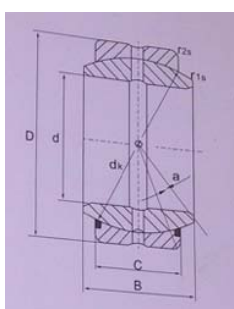
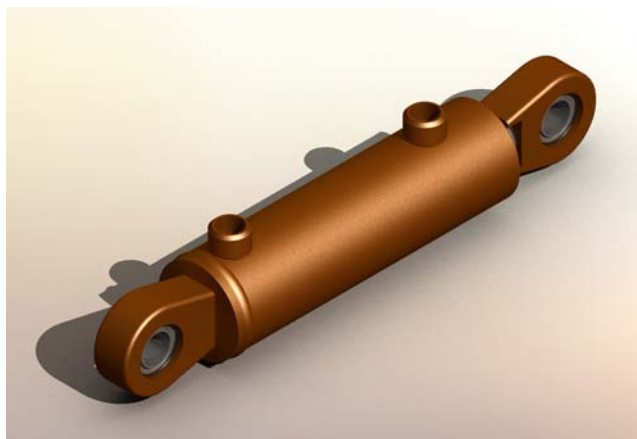


- ※ Cushion effect at retracting and/or extending by check & needle valve
- ※ Customized end mounting and sizes are available

Please feel free to contact us for details

Customized Welded Cylinders

WBE series With Swivel Ball End



Basic Size of Spherical Plain Bearings

d: 0.5"~6.0"

D: 0.875"~8.75"

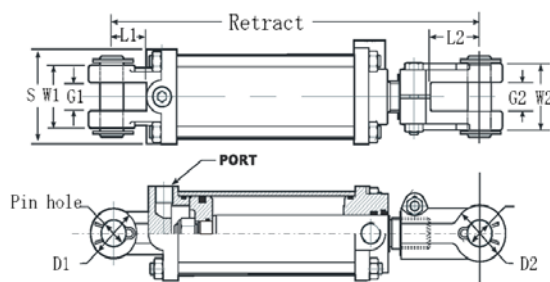
C: 0.375"~4.125"

B: 0.437"~4.75"

Please feel free to contact us for details

Tie Rod Cylinders

2T Series 2500 PSI Max Pressure



TUBE---Precision finished steel tube for longer seal & cylinder life
TUBE SEAL---O-ring with anti-extrusion backup washer
ROD---Hard chrome plated 1045 steel for extended cylinder life in harsh application
ROD SEAL---Polyurethane U-Cup
ROD WIPER---Heavy duty metal encased nitrile rubber
PISTON--- Precision machined ductile iron with malleable bearing surface
PISTON SEAL---O-ring with anti-extrusion backup washer
PISTON NUT---Heavy duty self locking piston nut
GLAND (ROD CAP) ---High grade ductile iron
END CLEVIS CAP--- High grade ductile iron with drilled oil passages
ROD CLEVIS--- Ductile iron with set screw locking device
TIE ROD---High tensile steel
PORTS---Double ported NPTF for greater flexibility in assembling

Dimensions in inch 2T Series Tie Rod Cylinders, Bore: 2.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T2004	1.13	4	14.25	17	Tube Wall: 0.19 NPTF Port: 3/8 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 2.88 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T2006		6	16.25	18	
2T2008		8	18.25	19	
2T2010		10	20.25	21	
2T2012		12	22.25	22	
2T2014		14	24.25	24	
2T2016		16	26.25	25	
2T2018		18	28.25	26	
2T2020		20	30.25	28	
2T2024		24	34.25	31	
2T2030		30	40.25	35	
2T2036		36	46.25	39	
2T2008-ASAE		8	20.25	20	
2T2016-ASAE		16	31.50	28	

Dimensions in inch 2T Series Tie Rod Cylinders, Bore: 2.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T2504	1.13	4	14.25	18	Tube Wall: 0.19 NPTF Port: 3/8 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.13 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T2506		6	16.25	19	
2T2508		8	18.25	20	
2T2510		10	20.25	22	
2T2512		12	22.25	24	
2T2514		14	24.25	26	
2T2516		16	26.25	28	
2T2518		18	28.25	30	
2T2520		20	30.25	32	
2T2524		24	34.25	35	
2T2530	1.25	30	40.25	45	Tube Wall: 0.19 NPTF Port: 3/8 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.13 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T2536		36	46.25	55	
2T2508-ASAE	1.13	8	20.25	22	Tube Wall: 0.19 NPTF Port: 3/8 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.13 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T2516-ASAE	1.13	16	31.50	32	

Dimensions in inch 2T Series Tie Rod Cylinders, Bore: 3.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T3004	1.25	4	14.25	23	Tube Wall: 0.19 NPTF Port: 1/2 Tie Rod Dia.: 0.5 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.75 W1: 2.5 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T3006		6	16.25	25	
2T3008		8	18.25	27	
2T3010		10	20.25	29	
2T3012		12	22.25	31	
2T3014		14	24.25	33	
2T3016		16	26.25	35	
2T3018		18	28.25	37	
2T3020		20	30.25	39	
2T3024		24	34.25	43	
2T3030		30	40.25	56	
2T3036		36	46.25	63	
2T3048		48	58.25	78	
2T3008-ASAE	1.25	8	20.25	28	
2T3016-ASAE (Pin Dia.: 1.25")	1.5	16	31.50	41	

Dimensions in inch 2T Series Tie Rod Cylinders, Bore: 3.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T3504	1.25	4	14.25	25	Tube Wall: 0.19 NPTF Port: 1/2 Tie Rod Dia.: 0.5 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 4.5 W1: 2.5 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T3506		6	16.25	27	
2T3508		8	18.25	29	
2T3510		10	20.25	31	
2T3512		12	22.25	33	
2T3514		14	24.25	35	
2T3516		16	26.25	37	
2T3518		18	28.25	39	
2T3520		20	30.25	41	
2T3524	1.5	24	34.25	51	
2T3530		30	40.25	61	
2T3536		36	46.25	70	
2T3548		48	58.25	88	
2T3508-ASAE	1.25	8	20.25	31	Tube Wall: 0.19 NPTF Port: 1/2 Tie Rod Dia.: 0.5 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 4.5 W1: 2.5 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
2T3516-ASAE (Pin Dia.: 1.25")	1.5	16	31.50	43	

※ Customized specifications are available on request.
 ※ Cylinder weight is for reference.

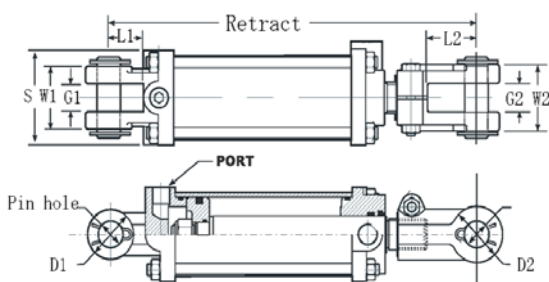
※ Delivery(exwork) for first order: 4~6weeks
 ※ Delivery(exwork) for next repeated order: 3~4weeks

! WARNING

- ※ Please note that the max capacities of clevis pins are
 PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Tie Rod Cylinders

2T Series 2500 PSI Max Pressure



Dimensions in inch
2T Series Tie Rod Cylinders, Bore: 4.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T4004	1.25	4	14.25	35	Tube Wall: 0.19 NPTF Port: 1/2 Tie Rod Dia.: 0.63 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 5.13 W1: 2.63 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.1 Gland Width: app.1.9
2T4006		6	16.25	38	
2T4008		8	18.25	41	
2T4010		10	20.25	43	
2T4012		12	22.25	45	
2T4014		14	24.25	47	
2T4016		16	26.25	50	
2T4018	1.5	18	28.25	55	
2T4020		20	30.25	59	
2T4024-175	1.75	24	34.25	69	
2T4024-200	2.0	24	34.25	80	
2T4030		30	40.25	90	
2T4036		36	46.25	100	
2T4048		48	58.25	121	
2T4008-ASAE	1.5	8	20.25	43	
2T4016-ASAE (Pin Dia.: 1.25")	1.75	16	31.50	59	

Dimensions in inch
2T Series Tie Rod Cylinders, Bore: 5.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
2T5004	2.0	4	16.25	51	Tube Wall: 0.25 NPTF Port: 1/2 Tie Rod Dia.: 0.75 Pin Dia.: 1.25 L1: 2.25 L2: 2.13 S: 6.0 W1: 3.0 G1: 1.25 W2: 3.0 G2: 1.25 Piston Width: app.1.4 Gland Width: app.2.5
2T5006		6	18.25	56	
2T5008		8	20.25	61	
2T5010		10	22.25	66	
2T5012		12	24.25	71	
2T5014		14	26.25	76	
2T5016		16	28.25	81	
2T5018		18	30.25	86	
2T5020		20	32.25	91	
2T5024		24	36.25	101	
2T5028		28	40.25	111	
2T5030		30	42.25	116	
2T5036		36	48.25	132	
2T5048		48	60.25	162	
2T5016-ASAE (Pin Dia.: 1.25")		16	31.50	86	

- ※ Customized specifications are available on request.
- ※ Cylinder weight is for reference.

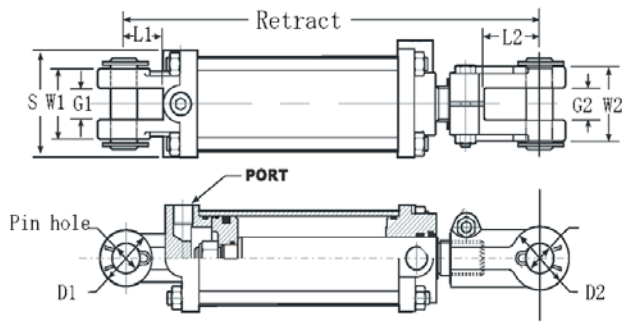
- ※ Delivery(exwork) for first order: 4~6weeks
- ※ Delivery(exwork) for next repeated order: 3~4weeks

! WARNING

- ※ Please note that the max capacities of clevis pins are
 PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Tie Rod Cylinders

3T Series 3000 PSI Max Pressure



TUBE---Precision finished steel tube for longer seal & cylinder life

TUBE SEAL---O-ring with anti-extrusion backup washer

ROD---Hard chrome plated 1045 high strength steel for long cylinder life

ROD SEAL---Polyurethane U-Cup, and Glass filled nylon wear ring upon request

ROD WIPER---Heavy duty metal encased nitrile rubber

PISTON--- Precision machined ductile iron or steel

PISTON SEAL---Glass filled Teflon piston seal & Glass filled nylon wear ring

PISTON NUT---Heavy duty self locking piston nut

GLAND (ROD CAP) ---High grade ductile iron

END CLEVIS CAP--- High grade ductile iron with drilled oil passages

ROD CLEVIS--- Ductile iron with set screw locking device

TIE ROD---High tensile steel

PORTS---Double ported SAE for greater flexibility in assembling

Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 2.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T2004	1.13	4	14.25	17	Tube Wall: 0.19 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 2.88 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
3T2006		6	16.25	18	
3T2008		8	18.25	19	
3T2010		10	20.25	21	
3T2012		12	22.25	22	
3T2014		14	24.25	24	
3T2016		16	26.25	25	
3T2018		18	28.25	26	
3T2020		20	30.25	28	
3T2024		24	34.25	31	
3T2030		30	40.25	35	
3T2036		36	46.25	40	
3T2008-ASAE		8	20.25	20	
3T2016-ASAE		16	31.50	28	

Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 2.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T2504	1.13	4	14.25	18	Tube Wall: 0.19 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.38 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.13 W1: 2.5 G1: 1.13 W2: 2.5 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
3T2506		6	16.25	19	
3T2508		8	18.25	21	
3T2510		10	20.25	22	
3T2512		12	22.25	24	
3T2514	1.25	14	24.25	28	
3T2516		16	26.25	30	
3T2518		18	28.25	32	
3T2520		20	30.25	34	
3T2524		24	34.25	38	
3T2530		30	40.25	45	
3T2536		36	46.25	51	
3T2508-ASAE	1.13	8	20.25	23	
3T2516-ASAE	1.25	16	31.50	34	

Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 3.0"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T3004	1.25	4	14.25	23	Tube Wall: 0.19 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.5 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 3.75 W1: 2.5 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
3T3006		6	16.25	25	
3T3008		8	18.25	28	
3T3010		10	20.25	30	
3T3012		12	22.25	33	
3T3014		14	24.25	35	
3T3016		16	26.25	37	
3T3018	1.5	18	28.25	40	
3T3020		20	30.25	43	
3T3024		24	34.25	48	
3T3030		30	40.25	56	
3T3036	1.5	36	46.25	64	
3T3048		48	58.25	79	
3T3008-ASAE	1.25	8	20.25	29	
3T3016-ASAE (Pin Dia.: 1.25")	1.5	16	31.50	43	

Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 3.5"

Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T3504	1.25	4	14.25	27	Tube Wall: 0.19 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.5 Pin Dia.: 1.0 L1: 2.06 L2: 2.13 S: 4.5 W1: 2.63 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.0 Gland Width: app.1.9
3T3506		6	16.25	30	
3T3508		8	18.25	33	
3T3510		10	20.25	35	
3T3512	1.5	12	22.25	39	
3T3514		14	24.25	42	
3T3516		16	26.25	45	
3T3518		18	28.25	48	
3T3520		20	30.25	51	
3T3524		24	34.25	57	
3T3530		30	40.25	65	
3T3536		36	46.25	73	
3T3548		48	58.25	90	
3T3508-ASAE	1.25	8	20.25	39	
3T3516-ASAE (Pin Dia.: 1.25")	1.5	16	31.50	52	

※ Customized specifications are available on request.

※ Cylinder weight is for reference.

※ Delivery(exwork) for first order: 4~6weeks

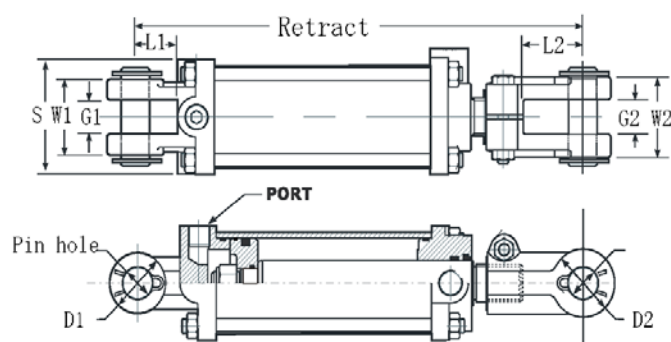
※ Delivery(exwork) for next repeated order: 3~4weeks

! WARNING

- ※ Please note that the max capacities of clevis pins are
 PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Tie Rod Cylinders

3T Series 3000 PSI Max Pressure



Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 4.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T4004	1.5	4	14.25	37	Tube Wall: 0.19 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.63 Pin Dia.: 1.0 L1: 2.0 L2: 2.0 S: 5.13 W1: 2.63 G1: 1.13 W2: 2.63 G2: 1.13 Piston Width: app.1.1 Gland Width: app.1.9
3T4006		6	16.25	40	
3T4008		8	18.25	43	
3T4010		10	20.25	46	
3T4012	1.75	12	22.25	49	
3T4014		14	24.25	55	
3T4016		16	26.25	59	
3T4018		18	28.25	63	
3T4020	2.0	20	30.25	67	
3T4024-175		24	34.25	74	
3T4024-200		24	34.25	83	
3T4030		30	40.25	95	
3T4036	2.0	36	46.25	106	
3T4048		48	58.25	126	
3T4008-ASAE	1.5	8	20.25	46	
3T4016-ASAE (Pin Dia.: 1.25")	1.75	16	31.50	62	

Dimensions in inch 3T Series Tie Rod Cylinders, Bore: 5.0"					
Item	Rod	Stroke	Retract	Wt. lbs.	Other Dimensions (inch)
3T5004	2.0	4	16.25	63	Tube Wall: 0.25 SAE#8 Port: 3/4-16 Tie Rod Dia.: 0.75 Pin Dia.: 1.25 L1: 2.2 L2: 2.1 S: 6.0 W1: 3.0 G1: 1.25 W2: 3.5 G2: 1.25 Piston Width: app.1.4 Gland Width: app.2.5
3T5006		6	18.25	68	
3T5008		8	20.25	73	
3T5010		10	22.25	78	
3T5012		12	24.25	83	
3T5014		14	26.25	88	
3T5016		16	28.25	93	
3T5018		18	30.25	98	
3T5020		20	32.25	103	
3T5024		24	36.25	113	
3T5028		28	40.25	123	
3T5030		30	42.25	128	
3T5036		36	48.25	143	
3T5048		48	60.25	172	
3T5016-ASAE (Pin Dia.: 1.25")		16	31.50	99	

- ※ Customized specifications are available on request.
- ※ Cylinder weight is for reference.

※ Delivery(exwork) for first order: 4~6weeks

※ Delivery(exwork) for next repeated order: 3~4weeks

! WARNING

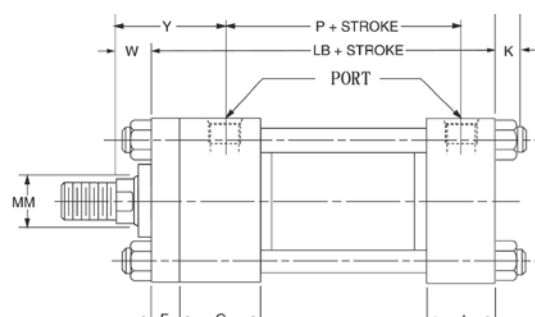
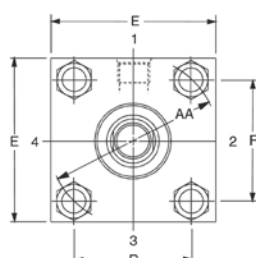
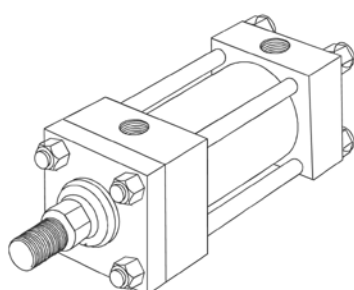
- ※ Please note that the max capacities of clevis pins are
PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
MAX PSI as stroke become longer

NFPA interchangeable TN Series Tie Rod Cylinder for heavy duty application

NOMINAL PRESSURE-----3000PSI
BORE SIZE-----1.5"~6.0"
ROD DIA.-----5/8"~4.0"
STROKE-----available on request
MOUNT STYLE-----18 standards
ROD END STYLE-----3 standard threads
PORTS-----SAE standard and NPTF optional
CUSHION-----available on request
BORE SIZE OVER 6.0" -----available on request
DOUBLE ROD-----available on request
Rod Rotation Preventing Function---- available on request



Basic mounting style (NFPA MX0)



Basic sizes of basic mounting (NFPA MX0)

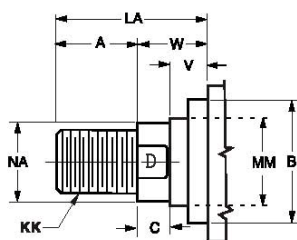
Bore	Rod Dia.	E	R	Port	F	G	J	K	LB	P	Y	W
1.50"	0.625"	2.50"	1.63"	SAE #8	0.375"	1.75"	1.50"	0.375"	5.00"	2.875"	2.00"	0.625"
	1.000"										2.375"	1.000"
2.00"	1.000"	3.00"	2.05"	SAE #8	0.625"	1.75"	1.50"	0.438"	5.25"	2.875"	2.375"	0.75"
	1.375"										2.625"	1.00"
2.50"	1.000"	3.50"	2.55"	SAE #8	0.625"	1.75"	1.50"	0.438"	5.375"	3.00"	2.375"	0.75"
	1.375"										2.625"	1.00"
	1.75"										2.875"	1.25"
3.25"	1.375"	4.25"	3.25"	SAE# 12	0.75"	2.00"	1.75"	0.563"	6.25"	3.50"	2.75"	0.875"
	1.75"										3.00"	1.125"
	2.00"										3.125"	1.25"
4.00"	1.75"	5.00"	3.82"	SAE# 12	0.875"	2.00"	1.75"	0.563"	6.625"	3.75"	3.00"	1.00"
	2.00"										3.125"	1.125"
	2.50"										3.375"	1.375"
5.00"	2.00"	6.50"	4.95"	SAE# 12	0.875"	2.00"	1.75"	0.813"	7.125"	4.25"	3.125"	1.125"
	2.50"										3.375"	1.375"
	3.00"										3.375"	1.375"
	3.50"										3.375"	1.375"
6.00"	2.50"	7.50"	5.73"	SAE# 16	1.00"	2.25"	2.25"	0.875"	8.375"	4.875"	3.50"	1.25"
	3.00"										3.50"	1.25"
	3.50"										3.50"	1.25"
	4.00"										3.50"	1.25"
Bore	Rod Dia.	E	R	Port	F	G	J	K	LB	P	Y	W

Bore sizes over 6.0" are available on request

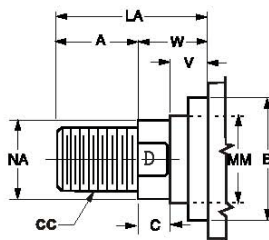
NFPA interchangeable TN Series Tie Rod Cylinder for heavy duty application

Rod End Thread Dimensions

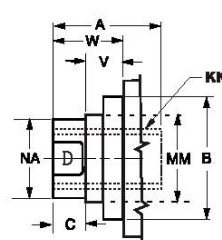
Thread Style 1



Thread Style 2



Thread Style 3

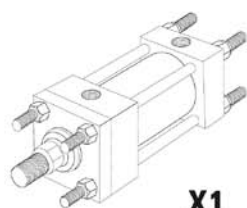


Bore	Rod Dia.= MM	A	B	C	D	CC	KK	NA	V	W
1.50"	0.625"	0.75"	1.124"	0.375"	0.50"	1/2-20	7/16-20	0.563"	0.25"	0.625"
	1.000"	1.125"	1.499"	0.50"	0.875"	7/8-14	3/4-16	0.938"	0.50"	1.000"
2.00"	1.000"	1.125"	1.499"	0.50"	0.875"	7/8-14	3/4-16	0.938"	0.25"	0.75"
	1.375"	1.625"	1.999"	0.625"	1.125"	1 1/4-12	1-14	1.313"	0.375"	1.00"
2.50"	1.000"	1.125"	1.499"	0.50"	0.875"	7/8-14	3/4-16	0.938"	0.25"	0.75"
	1.375"	1.625"	1.999"	0.625"	1.125"	1 1/4-12	1-14	1.313"	0.375"	1.00"
	1.75"	2.00"	2.374"	0.75"	1.50"	1 1/2-12	1 1/4-12	1.688"	0.50"	1.25"
3.25"	1.375"	1.625"	1.999"	0.625"	1.125"	1 1/4-12	1-14	1.313"	0.25"	0.875"
	1.75"	2.00"	2.374"	0.75"	1.50"	1 1/2-12	1 1/4-12	1.688"	0.375"	1.125"
	2.00"	2.25"	2.624"	0.875"	1.688"	1 3/4-12	1 1/2-12	1.938"	0.375"	1.25"
4.00"	1.75"	2.00"	2.374"	0.75"	1.50"	1 1/2-12	1 1/4-12	1.688"	0.25"	1.00"
	2.00"	2.25"	2.624"	0.875"	1.688"	1 3/4-12	1 1/2-12	1.938"	0.25"	1.125"
	2.50"	3.00"	3.124"	1.00"	2.063"	2 1/4-12	1 7/8-12	2.375"	0.375"	1.375"
5.00"	2.00"	2.25"	2.624"	0.875"	1.688"	1 3/4-12	1 1/2-12	1.938"	0.25"	1.125"
	2.50"	3.00"	3.124"	1.00"	2.063"	2 1/4-12	1 7/8-12	2.375"	0.375"	1.375"
	3.00"	3.50"	3.749"	1.00"	2.625"	2 3/4-12	2 1/4-12	2.875"	0.375"	1.375"
	3.50"	3.50"	4.249"	1.00"	3.00"	3 1/4-12	2 1/2-12	3.375"	0.375"	1.375"
6.00"	2.50"	3.00"	3.124"	1.00"	2.063"	2 1/4-12	1 7/8-12	2.375"	0.25"	1.25"
	3.00"	3.50"	3.749"	1.00"	2.625"	2 3/4-12	2 1/4-12	2.875"	0.25"	1.25"
	3.50"	3.50"	4.249"	1.00"	3.00"	3 1/4-12	2 1/2-12	3.375"	0.25"	1.25"
	4.00"	4.00"	4.749"	1.00"	3.375"	3 3/4-12	3-12	3.875"	0.25"	1.25"
Bore	Rod Dia.= MM	A	B	C	D	CC	KK	NA	V	W

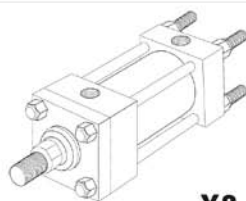
Customized Rod End styles are available on request

NFPA interchangeable **TN Series Tie Rod Cylinder** for heavy duty application

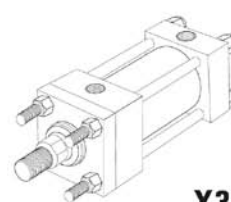
Mounting Style Options



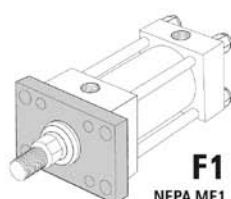
X1
NFPA MX1



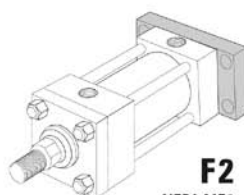
X2
NFPA MX2



X3
NFPA MX3



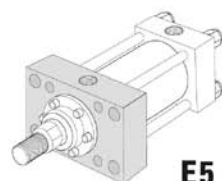
F1
NFPA MF1



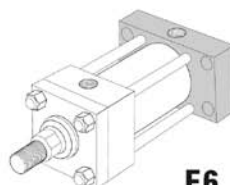
F2
NFPA MF2



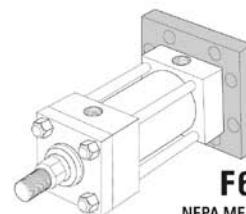
F5
NFPA MF5



E5
NFPA ME5



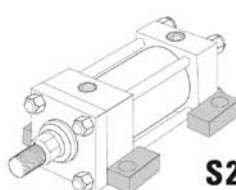
E6
NFPA ME6



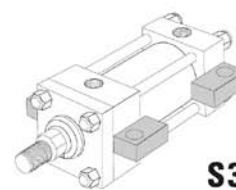
F6
NFPA MF6



S1
NFPA MS1



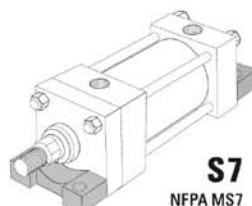
S2
NFPA MS2



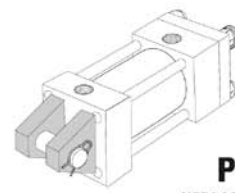
S3
NFPA MS3



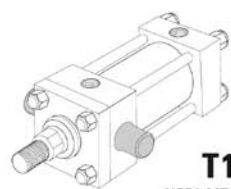
S4
NFPA MS4



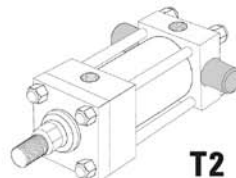
S7
NFPA MS7



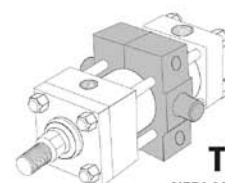
P1
NFPA MP1



T1
NFPA MT1



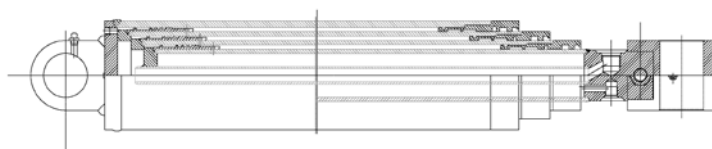
T2
NFPA MT2



T4
NFPA MT4

Telescopic Cylinders

T3D type



- ※ 2500psi Double acting
- ※ Customized end mounting and sizes are available on request

T3S or T2S type

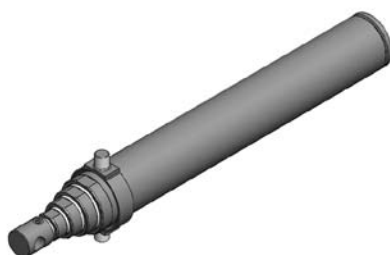


- ※ 2500psi Single acting with 2 to 4 stages
- ※ Customized end mounting and sizes are available on request



ITC type

- ※ 2500psi single acting 3 or 4 stages telescopic cylinder, 7/12ton inverse type



Please feel free to contact us for details

Cylinders with QPQ rod

QPQ Salt-Bath Nitro-carburizing

When your problem is one of wear and/or corrosion, QPQ Salt-Bath Nitro-carburizing will be your best solution. QPQ Salt-Bath Nitro-carburizing process is used to enhance the metallurgical properties of all ferrous metal components, including cast-irons and stainless steel. In addition, it is used extensively as a replacement for both chrome and nickel-plating.



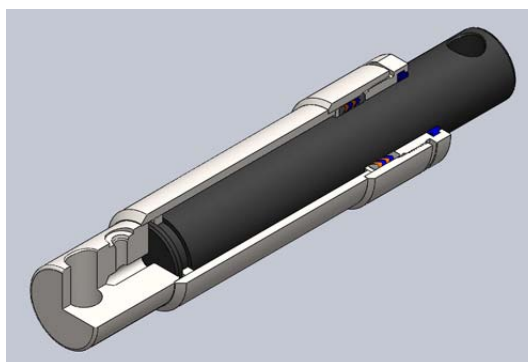
Benefits of the QPQ Salt-Bath Nitro-carburizing Process:

- ✂ Increased wear resistance
- ✂ Enhanced corrosion resistance
- ✂ Improved fatigue strength
- ✂ Surface lubricity
- ✂ Lustrous black finish
- ✂ Dimensional stability
- ✂ Distortion-free

Please feel free to contact us for details

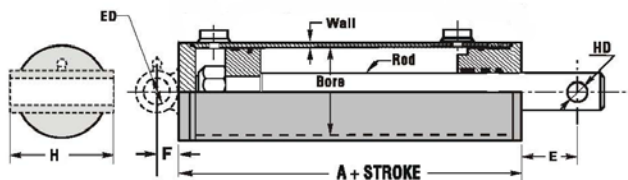
Snow Plow Cylinders

Single Acting, 2500psi
For Snow Plow Application
QPQ Rod available on request



Please feel free to contact us for details

Welded Cylinders for 4000psi application



TUBE---Precision finished steel tube
TUBE SEAL---O-ring with anti-extrusion backup washer
ROD---Ground and polished hard chrome plated 1045 high strength steel
ROD SEAL---Polyurethane U-Cup
ROD WIPER---Heavy duty metal encased nitrile rubber
PISTON--- Precision machined ductile iron or steel
PISTON SEAL---Glass filled Teflon seal
PISTON & ROD WEAR RING---Glass filled nylon wear ring
PISTON NUT---Heavy duty self locking piston nut
GLAND (ROD CAP) ---High grade ductile iron or steel
END CAP--- Durable steel to support continuous high load
PAINT COLOR---Semi-gloss and black or customized colors

**Dimensions in inch for
WHP series Welded Cylinders with Bore: 3.0"**

Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP3008	2.0	8	6.875	45	Tube Wall: 0.25/0.375 NPTF Port: 1/2 H: 4.25 ED: 1.265 F: 1.125 E: 0.875 HD: 1.265 Piston Width: app.2.2 Gland Width: app.2.9
WHP3012		12	6.875	53	
WHP3016		16	6.875	61	
WHP3020		20	6.875	69	
WHP3024		24	6.875	77	
WHP3030		30	6.875	88	
WHP3036		36	6.875	100	
WHP3042		42	6.875	112	
WHP3048		48	8.875	128	
WHP3054		54	9.875	142	
WHP3060		60	10.875	156	
WHP3072		72	12.875	184	

**Dimensions in inch for
WHP series Welded Cylinders with Bore: 4.0"**

Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP4008	2.5	8	7.125	68	Tube Wall: 0.25/0.375 NPTF Port: 1/2 H: 5.25 ED: 1.515 F: 1.25 E: 0.875 HD: 1.515 Piston Width: app.2.3 Gland Width: app.3.0
WHP4012		12	7.125	80	
WHP4016		16	7.125	91	
WHP4020		20	7.125	102	
WHP4024		24	7.125	113	
WHP4030		30	7.125	130	
WHP4036		36	7.125	147	
WHP4042		42	7.125	164	
WHP4048		48	9.125	187	
WHP4054		54	10.125	207	
WHP4060		60	11.125	226	
WHP4072		72	13.125	266	

**Dimensions in inch for
WHP series Welded Cylinders with Bore: 5.0"**

Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP5008	2.75	8	8.75	106	Tube Wall: 0.375 NPTF Port: 3/4 H: 6.0 ED: 1.765 F: 1.25 E: 0.875 HD: 1.515 Piston Width: app.2.8 Gland Width: app.3.6
WHP5012		12	8.75	121	
WHP5016		16	8.75	136	
WHP5020		20	8.75	151	
WHP5024		24	8.75	166	
WHP5030		30	8.75	188	
WHP5036		36	8.75	211	
WHP5042		42	8.75	234	
WHP5048		48	10.75	264	
WHP5054		54	11.75	290	
WHP5060		60	12.75	317	
WHP5072		72	14.75	369	

**Dimensions in inch for
WHP series Welded Cylinders with Bore: 6.0"**

Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP6008	3.0	8	9.00	145	Tube Wall: 0.375 NPTF Port: 3/4 H: 7.0 ED: 2.06 F: 1.375 E: 0.875 HD: 2.031 Piston Width: app.2.8 Gland Width: app.3.7
WHP6012		12	9.00	164	
WHP6016		16	9.00	183	
WHP6020		20	9.00	203	
WHP6024		24	9.00	222	
WHP6030		30	9.00	251	
WHP6036		36	9.00	280	
WHP6042		42	9.00	309	
WHP6048		48	11.00	347	
WHP6054		54	12.00	381	
WHP6060		60	13.00	415	
WHP6072		72	15.00	482	

※ An extra 2.0" spacer is added to size A on 48" stroke, and then an additional 1.0" is added for each additional 6.0" of stroke thereafter to 6.0" maximum spacer

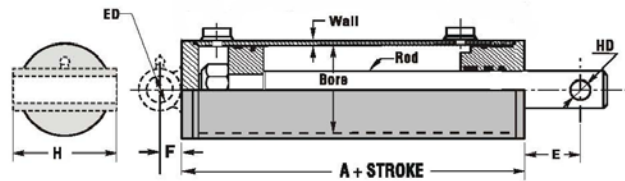
※ Customized specifications are available on request.

※ Cylinder weight is for reference.

! WARNING

- ※ Please note that the max capacities of clevis pins are
 PIN DIA.: 1.0" = 26000Lbs PIN DIA.: 1.25" = 39000Lbs
 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Welded Cylinders for 4000psi application



Dimensions in inch for WHP series Welded Cylinders with Bore: 7.0"					
Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP7008	4.0	8	9.63	196	Tube Wall: 0.375 NPTF Port: 1.0 H: 8.25 ED: 2.515 F: 1.63 E: 0.875 HD: 2.031 Piston Width: app.3.2 Gland Width: app.4.0
WHP7012		12	9.63	220	
WHP7016		16	9.63	244	
WHP7020		20	9.63	268	
WHP7024		24	9.63	292	
WHP7030		30	9.63	328	
WHP7036		36	9.63	364	
WHP7042		42	9.63	400	
WHP7048		48	11.63	447	
WHP7054		54	12.63	489	
WHP7060		60	13.63	531	
WHP7072		72	15.63	615	
Dimensions in inch for WHP series Welded Cylinders with Bore: 8.0"					
Item	Rod	Stroke	A	Wt. lbs.	Other Dimensions (inch)
WHP8008	4.0	8	10.68	289	Tube Wall: 0.375/0.5 NPTF Port: 1.0 H: 9.25 ED: 3.015 F: 2.0 E: 0.875 HD: 2.56 Piston Width: app.3.6 Gland Width: app.4.0
WHP8012		12	10.68	322	
WHP8016		16	10.68	355	
WHP8020		20	10.68	388	
WHP8024		24	10.68	421	
WHP8030		30	10.68	470	
WHP8036		36	10.68	520	
WHP8042		42	10.68	569	
WHP8048		48	12.68	635	
WHP8054		54	13.68	692	
WHP8060		60	14.68	750	
WHP8072		72	16.68	865	

※ An extra 2.0" spacer is added to size A on 48" stroke, and then an additional 1.0" is added for each additional 6.0" of stroke thereafter to 6.0" maximum spacer

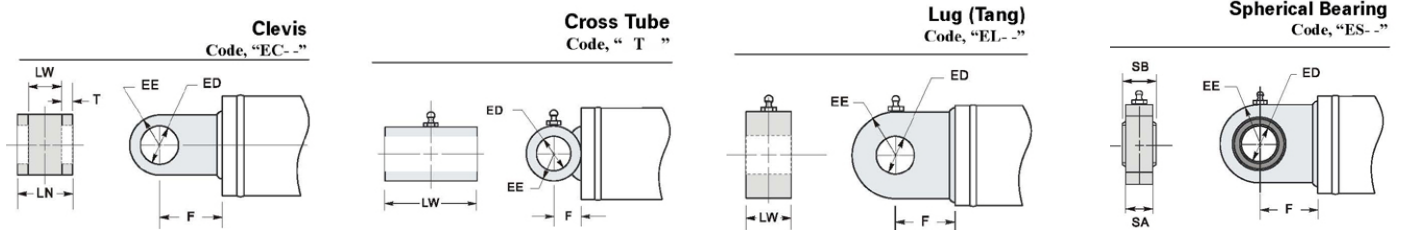
- ※ Customized specifications are available on request.
- ※ Cylinder weight is for reference.

! WARNING

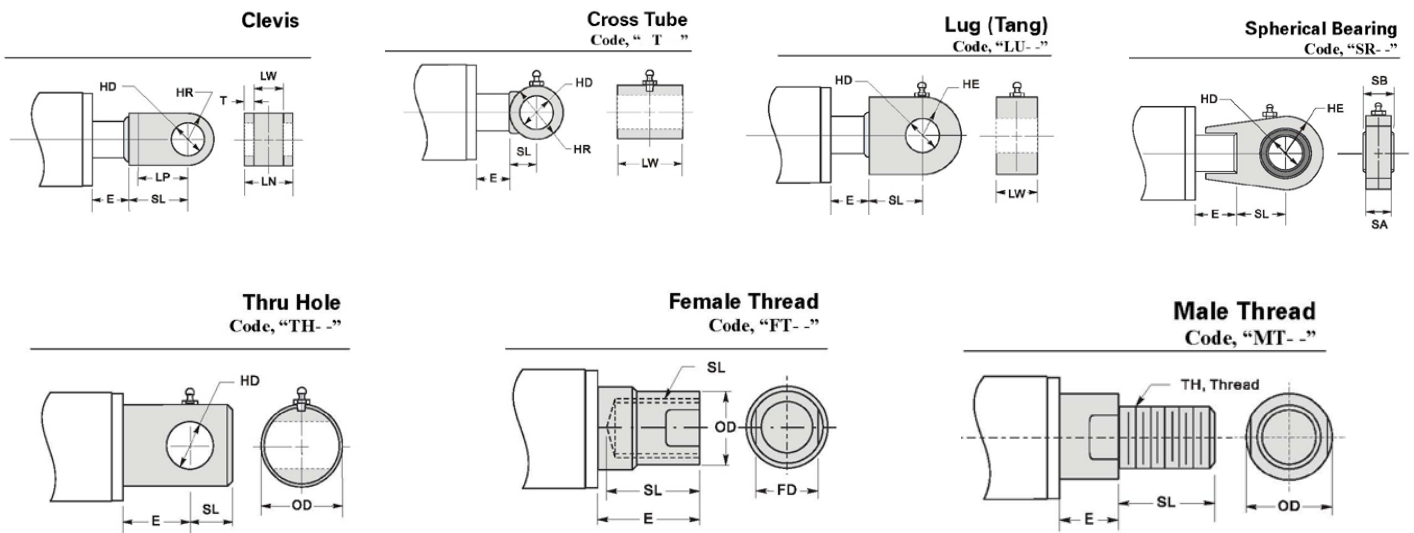
- ※ Please note that the max capacities of clevis pins are
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 PIN DIA.: 1.5" = 56000Lbs PIN DIA.: 2.0" = 96000Lbs
- ※ Max extension pressure shall be lower than full
 MAX PSI as stroke become longer

Mounting Styles for Welded Cylinder

Bottom End Mounting Style Selections



Rod End Mounting Style Selections



Hydraulic Cylinder

For Ordering and further product information,

Please contact:

Shanghai RealCrane Trading Co., Ltd.

Room 420, 201 Tian Shan Zhi Road, Shanghai 200051, China

Tel: 86-21-62410567 Email: jiyaohua@realcrane.com

Caution:

- ※ This document is to provide products and/or system options for further investigation to users having technical experiences. It is important that you analyze all aspects of your applications, including consequences of any failure cases and review the information concerning the product or system in this catalog. Due to the variety of operating conditions and applications on these products or systems, the users, through its own analysis and testing, is solely responsible for making the final selection of the products and/or systems and assuring that all performance, safety and warning requirements of application are met.
- ※ Improper selection or using of product and/or system described herein or related items can cause personal injuries and property damages.
- ※ The products described herein, including specifications, designs, availability and pricing, are subject to change at any time without notice.

Warranty:

- ※ We offer 1 year limited warranty provided that the products are installed/used properly.
- ※ Users should inform us in advance in case the products are used in high duty application.
- ※ It is free for repairing on defective products and/or changing to new products, users may repair the defective products themselves after confirmed with us and we'll pay till the max of selling price of products.
- ※ It is important that users, through their own analysis and testing, are responsible for making the final selection of the products, users are also responsible for other losses on disassembling and/or reassembling and other caused liability.