

TIE-ROD

2500 & 3000 PSI

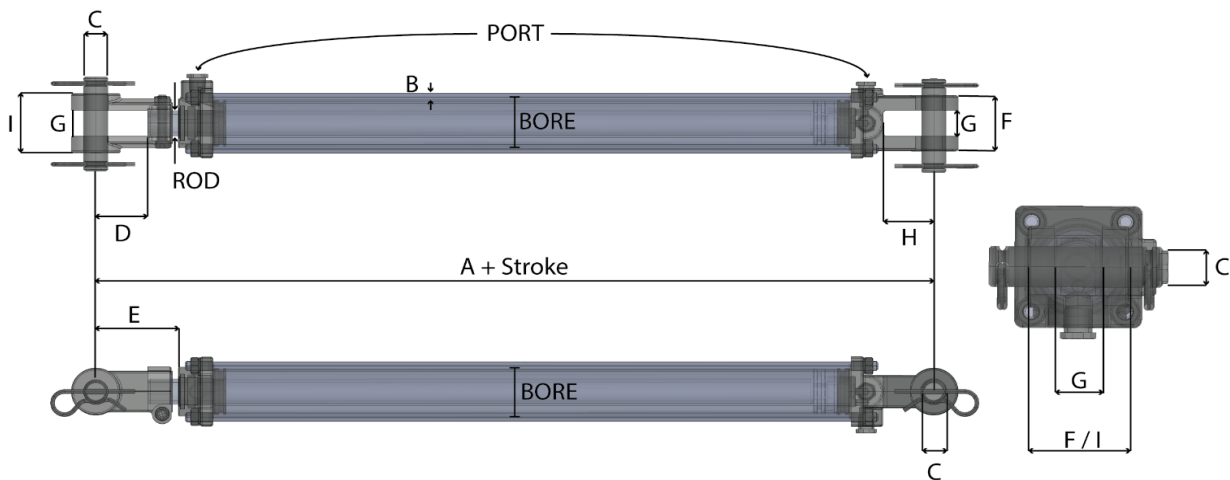


Type:	Tie rod cylinder
Action:	Double acting
Rod end:	Clevis mounts, pins and clips included
Base end:	Clevis mounts, pins and clips included
Bore:	2.00" to 4.00"
Stroke:	4" to 60"
Rod:	Standard chrome plated rod steel 1045
Pressure:	2500 PSI and 3000 PSI



1 YEAR
WARRANTY





*ALL VALUES ARE IN INCHES

**ALL NUMBERS GIVEN ARE NOMINAL VALUES AND SHOULD BE USED FOR REFERENCE ONLY. ALL PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

2500 PSI		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER									
BORE	ROD THREAD	PORTS	A	B	C	D	E	F	G	H	I
2.00"	1 1/8 -12 UNF	3/8 NPT	10.25"	M10	1.0"	2.125"	3.502"	2.50"	1.165"	2.008"	2.504"
2.50"	1 1/8 -12 UNF	3/8 NPT	10.25"	M10	1.0"	2.125"	3.502"	2.50"	1.165"	2.008"	2.504"
3.00"	1 1/4 -12 UNF	1/2 NPT	10.25"	M12	1.0"	2.125"	3.502"	2.56"	1.165"	2.008"	2.717"
3.50"	1 1/4 -12 UNF	1/2 NPT	10.25"	M14	1.0"	2.125"	3.502"	2.56"	1.165"	2.008"	2.717"
4.00"	1 1/4 -12 UNF	1/2 NPT	10.25"	M16	1.0"	2.125"	3.502"	2.76"	1.165"	2.008"	2.717"

For 8.00" ASAE STROKE: A= 12.25"

For 16.00" ASAE STROKE: A= 15.50", C= 1.25"

For TR2.5-3516-ASAE-ZX, Rod diameter is 1.50"

For TR2.5-4016-ASAE-ZX, Rod diameter is 2.00"

3000 PSI		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER									
BORE	ROD THREAD	PORTS	A	B	C	D	E	F	G	H	I
2.00"	1 1/8 -12 UNF	SAE 8	10.25"	M10	1.0"	2.125"	3.502"	2.50"	1.165"	2.008"	2.504"
2.50"	1 1/8 -12 UNF	SAE 8	10.25"	M10	1.0"	2.125"	3.502"	2.50"	1.165"	2.008"	2.504"
3.00"	1 1/4 -12 UNF	SAE 8	10.25"	M12	1.0"	2.125"	3.502"	2.56"	1.165"	2.008"	2.717"
3.50"	1 1/4 -12 UNF	SAE 8	10.25"	M14	1.0"	2.125"	3.502"	2.56"	1.165"	2.008"	2.717"
4.00"	1 1/4 -12 UNF	SAE 8	10.25"	M16	1.0"	2.125"	3.502"	2.76"	1.165"	2.008"	2.717"

For 8.00" ASAE STROKE: A= 12.25"

For 16.00" ASAE STROKE: A= 15.50", C= 1.25"

For TR3.0-4016-ASAE-ZX, Rod diameter is 2.00"

2.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 2500 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR2.5-2004-ZX	2"x4"	14 1/4"	18 1/4"	1 1/8"	1"	3/8 NPT"	7850	16
TR2.5-2006-ZX	2"x6"	16 1/4"	22 1/4"				7850	17
TR2.5-2008-ZX	2"x8"	18 1/4"	26 1/4"				7850	19
TR2.5-2008-ASAE-ZX	2"x8"	20 1/4"	28 1/4"				7850	20
TR2.5-2010-ZX	2"x10"	20 1/4"	30 1/4"				7850	20
TR2.5-2012-ZX	2"x12"	22 1/4"	34 1/4"				7850	22
TR2.5-2014-ZX	2"x14"	24 1/4"	38 1/4"				7850	24
TR2.5-2016-ZX	2"x16"	26 1/4"	42 1/4"				7850	25
TR2.5-2018-ZX	2"x18"	28 1/4"	46 1/4"				7850	27
TR2.5-2020-ZX	2"x20"	30 1/4"	50 1/4"				6950	28
TR2.5-2024-ZX	2"x24"	34 1/4"	58 1/4"				5180	31
TR2.5-2030-ZX	2"x30"	40 1/4"	70 1/4"				3570	36
TR2.5-2036-ZX	2"x36"	46 1/4"	82 1/4"				2610	41
TR2.5-2040-ZX	2"x40"	50 1/4"	90 1/4"				1700	44
TR2.5-2048-ZX	2"x48"	58 1/4"	106 1/4"				1570	49

2.5" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 2500 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR2.5-2504-ZX	2.5"x4"	14 1/4"	18 1/4"	1 1/8"	1"	3/8 NPT	12200	19
TR2.5-2506-ZX	2.5"x6"	16 1/4"	22 1/4"				12200	21
TR2.5-2508-ZX	2.5"x8"	18 1/4"	26 1/4"				12200	22
TR2.5-2508-ASAE-ZX	2.5"x8"	20 1/4"	28 1/4"				12200	23
TR2.5-2510-ZX	2.5"x10"	20 1/4"	30 1/4"				12200	24
TR2.5-2512-ZX	2.5"x12"	22 1/4"	34 1/4"				12200	26
TR2.5-2514-ZX	2.5"x14"	24 1/4"	38 1/4"				10300	28
TR2.5-2516-ZX	2.5"x16"	26 1/4"	42 1/4"				8400	29
TR2.5-2518-ZX	2.5"x18"	28 1/4"	46 1/4"				7000	32
TR2.5-2520-ZX	2.5"x20"	30 1/4"	50 1/4"				5900	34
TR2.5-2524-ZX	2.5"x24"	34 1/4"	58 1/4"				4400	38
TR2.5-2530-ZX	2.5"x30"	40 1/4"	70 1/4"	1 1/4"			4400	43
TR2.5-2536-ZX	2.5"x36"	46 1/4"	82 1/4"				3400	49
TR2.5-2540-ZX	2.5"x40"	50 1/4"	90 1/4"				2700	54
TR2.5-2548-ZX	2.5"x48"	58 1/4"	106 1/4"				2000	60

3.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 2500 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR2.5-3004-ZX	3"×4"	14 1/4"	18 1/4"	1 1/4"	1"	1/2 NPT	17600	24
TR2.5-3006-ZX	3"×6"	16 1/4"	22 1/4"				17600	26
TR2.5-3008-ZX	3"×8"	18 1/4"	26 1/4"				17600	28
TR2.5-3008-ASAE-ZX	3"×8"	20 1/4"	28 1/4"				17600	29
TR2.5-3010-ZX	3"×10"	20 1/4"	30 1/4"				17600	30
TR2.5-3012-ZX	3"×12"	22 1/4"	34 1/4"				17600	33
TR2.5-3014-ZX	3"×14"	24 1/4"	38 1/4"				15700	35
TR2.5-3016-ZX	3"×16"	26 1/4"	42 1/4"				12800	37
TR2.5-3016-ASAE-ZX	3"×16"	31 1/2"	47 1/2"		1 1/4"		9200	42
TR2.5-3018-ZX	3"×18"	28 1/4"	46 1/4"		1"		11300	42
TR2.5-3020-ZX	3"×20"	30 1/4"	50 1/4"	9200			44	
TR2.5-3024-ZX	3"×24"	34 1/4"	58 1/4"	6700			49	
TR2.5-3030-ZX	3"×30"	40 1/4"	70 1/4"	9600			57	
TR2.5-3036-ZX	3"×36"	46 1/4"	82 1/4"	7000			65	
TR2.5-3040-ZX	3"×40"	50 1/4"	90 1/4"	5700			70	
TR2.5-3048-ZX	3"×48"	58 1/4"	106 1/4"	3900			80	

3.5" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 2500 PSI							
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)	
		RETRACTED	EXTENDED						
TR2.5-3504-ZX	3.5"x4"	14 1/4"	18 1/4"	1 1/4"	1"	1/2 NPT	24000	29	
TR2.5-3506-ZX	3.5"x6"	16 1/4"	22 1/4"				24000	32	
TR2.5-3508-ZX	3.5"x8"	18 1/4"	26 1/4"				24000	34	
TR2.5-3508-ASAE-ZX	3.5"x8"	20 1/4"	28 1/4"				24000	35	
TR2.5-3510-ZX	3.5"x10"	20 1/4"	30 1/4"				24000	37	
TR2.5-3512-ZX	3.5"x12"	22 1/4"	34 1/4"				19600	39	
TR2.5-3514-ZX	3.5"x14"	24 1/4"	38 1/4"				15700	42	
TR2.5-3516-ZX	3.5"x16"	26 1/4"	42 1/4"				12800	44	
TR2.5-3516-ASAE-ZX	3.5"x16"	31 1/2"	47 1/2"	1 1/2"	1 1/4"		21100	50	
TR2.5-3518-ZX	3.5"x18"	28 1/4"	46 1/4"	1 1/4"	1"		10700	47	
TR2.5-3520-ZX	3.5"x20"	30 1/4"	50 1/4"				9100	49	
TR2.5-3524-ZX	3.5"x24"	34 1/4"	58 1/4"	1 1/2"			14000	58	
TR2.5-3530-ZX	3.5"x30"	40 1/4"	70 1/4"				9600	66	
TR2.5-3536-ZX	3.5"x36"	46 1/4"	82 1/4"				7000	74	
TR2.5-3540-ZX	3.5"x40"	50 1/4"	90 1/4"				5800	80	
TR2.5-3548-ZX	3.5"x48"	58 1/4"	106 1/4"				3900	91	

4.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 2500 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR2.5-4004-ZX	4"×4"	14 1/4"	18 1/4"	1 1/2"	1"	1/2 NPT	31400	33
TR2.5-4006-ZX	4"×6"	16 1/4"	22 1/4"				31400	36
TR2.5-4008-ZX	4"×8"	18 1/4"	26 1/4"				31400	38
TR2.5-4008-ASAE-ZX	4"×8"	20 1/4"	28 1/4"				31400	39
TR2.5-4010-ZX	4"×10"	20 1/4"	30 1/4"				31400	41
TR2.5-4012-ZX	4"×12"	22 1/4"	34 1/4"				31400	44
TR2.5-4014-ZX	4"×14"	24 1/4"	38 1/4"				31400	46
TR2.5-4016-ZX	4"×16"	26 1/4"	42 1/4"				26700	49
TR2.5-4016-ASAE-ZX	4"×16"	31 1/2"	47 1/2"	2"	1 1/4"		31400	63
TR2.5-4018-ZX	4"×18"	28 1/4"	46 1/4"	1 1/2"	1"		22300	55
TR2.5-4020-ZX	4"×20"	30 1/4"	50 1/4"				18800	58
TR2.5-4024-ZX	4"×24"	34 1/4"	58 1/4"				14000	64
TR2.5-4024-175-ZX	4"×24"	34 1/4"	58 1/4"	1 3/4"			26000	68
TR2.5-4024-200-ZX	4"×24"	34 1/4"	58 1/4"	2"			31400	73
TR2.5-4030-ZX	4"×30"	40 1/4"	70 1/4"				30500	84
TR2.5-4036-ZX	4"×36"	46 1/4"	82 1/4"				22200	95
TR2.5-4040-ZX	4"×40"	50 1/4"	90 1/4"				18200	103
TR2.5-4048-ZX	4"×48"	58 1/4"	106 1/4"				13200	118

2.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 3000 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR3.0-2004-ZX	2"x4"	14 1/4"	18 1/4"	1 1/8"	1"	SAE8	9420	16
TR3.0-2006-ZX	2"x6"	16 1/4"	22 1/4"				9420	17
TR3.0-2008-ZX	2"x8"	18 1/4"	26 1/4"				9420	19
TR3.0-2008-ASAE-ZX	2"x8"	20 1/4"	28 1/4"				9420	20
TR3.0-2010-ZX	2"x10"	20 1/4"	30 1/4"				9420	20
TR3.0-2012-ZX	2"x12"	22 1/4"	34 1/4"				9420	22
TR3.0-2014-ZX	2"x14"	24 1/4"	38 1/4"				9420	24
TR3.0-2016-ZX	2"x16"	26 1/4"	42 1/4"				9420	25
TR3.0-2018-ZX	2"x18"	28 1/4"	46 1/4"				8310	27
TR3.0-2020-ZX	2"x20"	30 1/4"	50 1/4"				7050	28
TR3.0-2022-ZX	2"x 22"	32 1/4"	54 1/4"				6050	30
TR3.0-2024-ZX	2"x24"	34 1/4"	58 1/4"				5250	31
TR3.0-2030-ZX	2"x30"	40 1/4"	70 1/4"				3610	36
TR3.0-2036-ZX	2"x36"	46 1/4"	82 1/4"				2630	41

2.5" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 3000 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR3.0-2504-ZX	2.5"x4"	14 1/4"	18 1/4"	1 1/8"	1"	SAE8	14720	19
TR3.0-2506-ZX	2.5"x6"	16 1/4"	22 1/4"				14720	21
TR3.0-2508-ZX	2.5"x8"	18 1/4"	26 1/4"				14720	22
TR3.0-2508-ASAE-ZX	2.5"x8"	20 1/4"	28 1/4"				14720	23
TR3.0-2510-ZX	2.5"x10"	20 1/4"	30 1/4"				14720	24
TR3.0-2512-ZX	2.5"x12"	22 1/4"	34 1/4"				14720	26
TR3.0-2514-ZX	2.5"x14"	24 1/4"	38 1/4"	1 1/4"			14720	28
TR3.0-2516-ZX	2.5"x16"	26 1/4"	42 1/4"				14720	29
TR3.0-2518-ZX	2.5"x18"	28 1/4"	46 1/4"				12790	32
TR3.0-2520-ZX	2.5"x20"	30 1/4"	50 1/4"				10840	34
TR3.0-2524-ZX	2.5"x24"	34 1/4"	58 1/4"				8070	38
TR3.0-2528-ZX	2.5"x28"	38 1/4"	66 1/4"				6240	40
TR3.0-2530-ZX	2.5"x30"	40 1/4"	70 1/4"				5550	43
TR3.0-2536-ZX	2.5"x36"	46 1/4"	82 1/4"				4050	49
TR3.0-2548-ZX	2.5"x48"	58 1/4"	106 1/4"				2430	60

3.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 3000 PSI							
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)	
		RETRACTED	EXTENDED						
TR3.0-3004 -ZX	3"×4"	14 1/4"	18 1/4"	1 1/4"	1"	SAE8	21200	24	
TR3.0-3006 -ZX	3"×6"	16 1/4"	22 1/4"				21200	26	
TR3.0-3008 -ZX	3"×8"	18 1/4"	26 1/4"				21200	28	
TR3.0-3008 -ASAE-ZX	3"×8"	20 1/4"	28 1/4"				21200	29	
TR3.0-3010 -ZX	3"×10"	20 1/4"	30 1/4"				21200	30	
TR3.0-3012 -ZX	3"×12"	22 1/4"	34 1/4"				21200	33	
TR3.0-3014 -ZX	3"×14"	24 1/4"	38 1/4"	1 1/2"	1 1/4"		21200	35	
TR3.0-3016 -ZX	3"×16"	26 1/4"	42 1/4"				21200	37	
TR3.0-3016 -ASAE-ZX	3"×16"	31 1/2"	47 1/2"				21200	42	
TR3.0-3018 -ZX	3"×18"	28 1/4"	46 1/4"				1"	21200	42
TR3.0-3020 -ZX	3"×20"	30 1/4"	50 1/4"					21200	44
TR3.0-3024 -ZX	3"×24"	34 1/4"	58 1/4"					16580	49
TR3.0-3030 -ZX	3"×30"	40 1/4"	70 1/4"	11410	57				
TR3.0-3036 -ZX	3"×36"	46 1/4"	82 1/4"	8330	65				
TR3.0-3048 -ZX	3"×48"	58 1/4"	106 1/4"	4990	75				
TR3.0-3060 -ZX	3"×60"	70 1/4"	130 1/4"	3320	93				

3.5" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 3000 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR3.0-3504-ZX	3.5"x4"	14 1/4"	18 1/4"	1 1/2"	1"	SAE8	28860	29
TR3.0-3506-ZX	3.5"x6"	16 1/4"	22 1/4"				28860	32
TR3.0-3508-ZX	3.5"x8"	18 1/4"	26 1/4"				28860	34
TR3.0-3508-ASAE-ZX	3.5"x8"	20 1/4"	28 1/4"				28860	35
TR3.0-3510-ZX	3.5"x10"	20 1/4"	30 1/4"				28860	37
TR3.0-3512-ZX	3.5"x12"	22 1/4"	34 1/4"				28860	39
TR3.0-3514-ZX	3.5"x14"	24 1/4"	38 1/4"				28860	42
TR3.0-3516-ZX	3.5"x16"	26 1/4"	42 1/4"				28860	44
TR3.0-3516-ASAE-ZX	3.5"x16"	31 1/2"	47 1/2"		1 1/4"		22350	50
TR3.0-3518-ZX	3.5"x18"	28 1/4"	46 1/4"		1"		26730	47
TR3.0-3520-ZX	3.5"x20"	30 1/4"	50 1/4"				22660	49
TR3.0-3524-ZX	3.5"x24"	34 1/4"	58 1/4"				16880	58
TR3.0-3530-ZX	3.5"x30"	40 1/4"	70 1/4"				11610	66
TR3.0-3536-ZX	3.5"x36"	46 1/4"	82 1/4"				8480	74
TR3.0-3548-ZX	3.5"x48"	58 1/4"	106 1/4"				5080	91
TR3.0-3504-ZX	3.5"x4"	14 1/4"	18 1/4"				28860	29

4.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR3.0-4004-ZX	4"x4"	14 1/4"	18 1/4"	1 1/2"	1"	SAE8	37690	33
TR3.0-4006-ZX	4"x6"	16 1/4"	22 1/4"				37690	36
TR3.0-4008-ZX	4"x8"	18 1/4"	26 1/4"				37690	38
TR3.0-4008-ASAE-ZX	4"x8"	20 1/4"	28 1/4"				37690	39
TR3.0-4010-ZX	4"x10"	20 1/4"	30 1/4"				37690	41
TR3.0-4012-ZX	4"x12"	22 1/4"	34 1/4"				37690	44
TR3.0-4014-ZX	4"x14"	24 1/4"	38 1/4"				37690	46
TR3.0-4016-ZX	4"x16"	26 1/4"	42 1/4"	1 3/4"	1 1/4"		37690	49
TR3.0-4016-ASAE-ZX	4"x16"	31 1/2"	47 1/2"	2"			37690	63
TR3.0-4018-ZX	4"x18"	28 1/4"	46 1/4"	1 3/4"	1"		37690	66
TR3.0-4020-ZX	4"x20"	30 1/4"	50 1/4"				37690	70
TR3.0-4024-ZX	4"x24"	34 1/4"	58 1/4"	37690			79	
TR3.0-4026-ZX	4"x26"	36 1/4"	62 1/4"	37690			84	
TR3.0-4030-ZX	4"x30"	40 1/4"	70 1/4"	2"			36070	92
TR3.0-4036-ZX	4"x36"	46 1/4"	82 1/4"				26340	98
TR3.0-4048-ZX	4"x48"	58 1/4"	106 1/4"				15790	123

5.0" BORE		TIE ROD CLEVIS TYPE DOUBLE ACTING HYDRAULIC CYLINDER 3000 PSI						
PART NUMBER	BORE & STROKE	DIMENSIONS		ROD DIAMETER	PIN SIZE	PORTS	COLUMN LOADS (LBS)	WEIGHT (LBS)
		RETRACTED	EXTENDED					
TR3.0-5004-ZX	5"×4"	16 1/4"	20 1/4"	2"	1 1/4"	SAE12	58900	71
TR3.0-5006-ZX	5"×6"	18 1/4"	24 1/4"				58900	76
TR3.0-5008-ASAE-ZX	5"×8"	22 1/4"	30 1/4"				58900	81
TR3.0-5010-ZX	5"×10"	22 1/4"	30 1/4"				58900	86
TR3.0-5012-ZX	5"×12"	24 1/4"	36 1/4"				58900	91
TR3.0-5014-ZX	5"×14"	26 1/4"	40 1/4"				58900	96
TR3.0-5016-ZX	5"×16"	28 1/4"	44 1/4"				58900	101
TR3.0-5016-ASAE-ZX	5"×16"	31 1/2"	47 1/2"				58900	104
TR3.0-5018-ZX	5"×18"	30 1/4"	48 1/4"				58900	106
TR3.0-5020-ZX	5"×20"	32 1/4"	52 1/4"				58900	112
TR3.0-5024-ZX	5"×24"	36 1/4"	60 1/4"	2 1/4"			58900	122
TR3.0-5030-ZX	5"×30"	42 1/4"	72 1/4"				56340	137
TR3.0-5036-ZX	5"×36"	48 1/4"	84 1/4"				41380	153
TR3.0-5048-ZX	5"× 48"	60 1/4"	108 1/4"				25020	163