

# TIE-ROD MOUNTINGS 1 1/2" - 6" BORE

# SERIES CW2H HEAVY DUTY HYDRAULIC CYLINDERS

**TABLE 1 ENVELOPE AND MOUNTING DIMENSIONS**

BORE	BB	DD	E	EE		F	G	J	K	R	ADD STROKE	
				NPTF	SAE						LB	P
1 1/2	1 3/8	3/8-24	2 1/2	1/2	10	3/8	1 3/4	1 1/2	3/8	1.63	5	2 7/8
2	1 13/16	1/2-20	3	1/2	10	5/8	1 3/4	1 1/2	7/16	2.05	5 1/4	2 7/8
2 1/2	1 13/16	1/2-20	3 1/2	1/2	10	5/8	1 3/4	1 1/2	7/16	2.55	5 3/8	3
3 1/4	2 5/16	5/8-18	4 1/2	3/4	12	3/4	2	1 3/4	9/16	3.25	6 1/4	3 1/2
4	2 5/16	5/8-18	5	3/4	12	7/8	2	1 3/4	9/16	3.82	6 5/8	3 3/4
5	3 3/16	7/8-14	6 1/2	3/4	12	7/8	2	1 3/4	13/16	4.95	7 1/8	4 1/4
6	3 5/8	1-14	7 1/2	1	16	1	2 1/4	2 1/4	7/8	5.73	8 3/8	4 7/8

SAE STRAIGHT THREAD PORTS ARE STANDARD AND ARE INDICATED BY PORT NUMBER  
NPTF PORTS ARE AVAILABLE AT NO EXTRA CHARGE

**TABLE 3  
ENVELOPE &  
MOUNTING  
DIMENSIONS**

**TABLE 2 ROD DIMENSIONS**

BORE	ROD NO.	ROD DIA MM	THREAD		A	+.000 -.002 B	C	D	LA	NA	V	W	Y	ADD STROKE	
			STYLE IM CC	STYLE SM & SF KK										ZB	ZJ
1 1/2	1(STD.)	5/8	1/2-20	7/16-20	3/4	1.124	3/8	1/2	1 3/8	9/16	1/4	5/8	2	6	5 5/8
	2	1	7/8-14	3/4-16	1 1/8	1.499	1/2	7/8	2 1/8	15/16	1/2	1	2 3/8	6 3/8	6
2	1(STD.)	1	7/8-14	3/4-16	1 1/8	1.499	1/2	7/8	1 7/8	15/16	1/4	3/4	2 3/8	6 7/16	6
	2	1 3/8	1 1/4-12	1-14	1 5/8	1.999	5/8	1 1/8	2 5/8	1 5/16	3/8	1	2 5/8	6 11/16	6 1/4
2 1/2	1(STD.)	1	7/8-14	3/4-16	1 1/8	1.499	1/2	7/8	1 7/8	15/16	1/4	3/4	2 3/8	6 9/16	6 1/8
	2	1 3/4	1 1/2-12	1 1/4-12	2	2.374	3/4	1 1/2	3 1/4	1 11/16	1/2	1 1/4	2 7/8	7 1/16	6 5/8
	3	1 3/8	1 1/4-12	1-14	1 5/8	1.999	5/8	1 1/8	2 5/8	1 5/16	3/8	1	2 5/8	6 13/16	6 3/8
3 1/4	1(STD.)	1 3/8	1 1/4-12	1-14	1 5/8	1.999	5/8	1 1/8	2 1/2	1 5/16	1/4	7/8	2 3/4	7 11/16	7 1/8
	2	2	1 3/4-12	1 1/2-12	2 1/4	2.624	7/8	1 11/16	3 1/2	1 15/16	3/8	1 1/4	3 1/8	8 1/16	7 1/2
	3	1 3/4	1 1/2-12	1 1/4-12	2	2.374	3/4	1 1/2	3 1/8	1 11/16	3/8	1 1/8	3	7 15/16	7 3/8
4	1(STD.)	1 3/4	1 1/2-12	1 1/4-12	2	2.374	3/4	1 1/2	3	1 11/16	1/4	1	3	8 3/16	7 5/8
	2	2 1/2	2 1/4-12	1 7/8-12	3	3.124	1	2 1/16	4 3/8	2 3/8	3/8	1 3/8	3 3/8	8 9/16	8
	3	2	1 3/4-12	1 1/2-12	2 1/4	2.624	7/8	1 11/16	3 3/8	1 15/16	1/4	1 1/8	3 1/8	8 5/16	7 3/4
5	1(STD.)	2	1 3/4-12	1 1/2-12	2 1/4	2.624	7/8	1 11/16	3 3/8	1 15/16	1/4	1 1/8	3 1/8	9 1/16	8 1/4
	2	3 1/2	3 1/4-12	2 1/2-12	3 1/2	4.249	1	3	4 7/8	3 3/8	3/8	1 3/8	3 3/8	9 5/16	8 1/2
	3	2 1/2	2 1/4-12	1 7/8-12	3	3.124	1	2 1/16	4 3/8	2 3/8	3/8	1 3/8	3 3/8	9 5/16	8 1/2
	4	3	2 3/4-12	2 1/4-12	3 1/2	3.749	1	2 5/8	4 7/8	2 7/8	3/8	1 3/8	3 3/8	9 5/16	8 1/2
6	1(STD.)	2 1/2	2 1/4-12	1 7/8-12	3	3.124	1	2 1/16	4 1/4	2 3/8	1/4	1 1/4	3 1/2	10 1/2	9 5/8
	2	4	3 3/4-12	3-12	4	4.749	1	3 3/8	5 1/4	3 7/8	1/4	1 1/4	3 1/2	10 1/2	9 5/8
	3	3	2 3/4-12	2 1/4-12	3 1/2	3.749	1	2 5/8	4 3/4	2 7/8	1/4	1 1/4	3 1/2	10 1/2	9 5/8
	4	3 1/2	3 1/4-12	2 1/2-12	3 1/2	4.249	1	3	4 3/4	3 3/8	1/4	1 1/4	3 1/2	10 1/2	9 5/8