

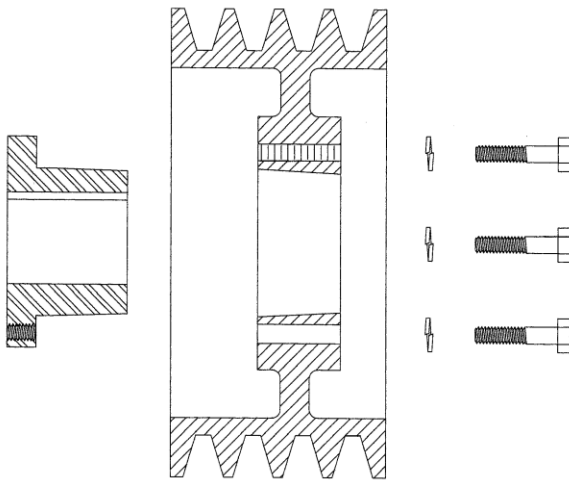


## **MULTI-V FUL-GRIP SHEAVES AND BUSHINGS**



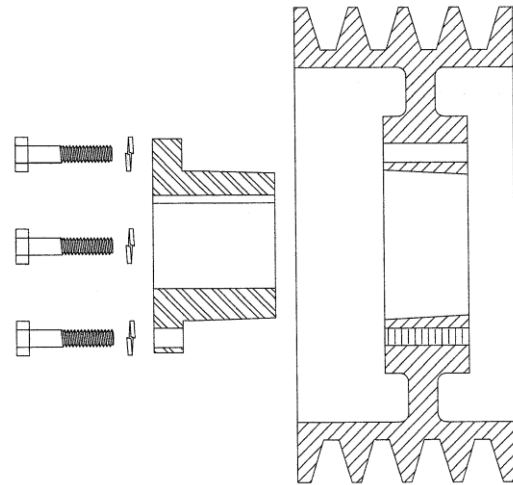
### **FUL-GRIP (QD) BUSHINGS FUL-GRIP (QD) SHEAVES STANDARD MULTI-V SHEAVES SPECIAL MADE-TO-ORDER SHEAVES**

Industry puts Maurey sheaves on more drives every year simply because it pays to do so. Machined from close-grained, grey iron castings and statically balanced to MPTA standards, these sheaves will stand up to hard service and provide smooth, quiet-running, belt-saving performance. However, please note that cast iron sheaves cannot exceed 6500 feet per a minute rim speed. Also, special or dynamic balancing should be considered when rim speeds exceed 5000 feet per a minute. Maurey sheaves are available in stock sizes for B, C, D section belts. Maurey also offers special made-to-order items for B, C, D section belts as well. The Ful-Grip bushing system is Maurey's answer to the need for sheaves that are installed, removed, and interchanged with the ultimate in ease and speed. With tapered bores to slip easily over flanged and detachable bushings, tapered to match the rims, Ful-Grips are the adaptability champions. Installation instructions in this section show how easily Ful-Grips make it possible to retain the bushing and change the sheave to suit speed, or retain the sheave and change the bushing to fit a different shaft size.



**STANDARD MOUNTING ASSEMBLY**

**Fig. 1**



**REVERSE MOUNTING ASSEMBLY**

**Fig. 2**

# INSTALLATION AND REMOVAL OF QD SHEAVES

## INSTALLATION

1. Make sure the bore of the sheave and the tapered cone surface of the bushing are free of all the foreign substances such as paint, dirt, lubricants, etc. Do not use lubricants on installation.
2. Assemble bushings and sheave as shown above in Figures 1 and 2, whichever applies. With cap screws loosely inserted, the bushing remains fully expanded to assume a sliding fit on the shaft. Note: When installing bushings M thru S, locate the extra holes in the hub as far as possible from the bushing's saw cut in order to reduce the possibility of bushing flange breakage. **CAUTION: Do not use lubricants on screw threads or tapered surfaces**
3. With key on shaft, slide sheave assembly to its desired position with cap screw heads on outside. (Exception: Some shaft lengths may require the sheaves to be reversed with the cap screw heads to the inside - see Figure 2.)
4. Line up the sheave assembly and tighten cap screws evenly and progressively to the torque value listed in the table. Never allow the sheave to be drawn in contact with the bushing flange. There should be a gap of 1/8" to 1/4" between the sheave hub and the bushing flange. If the gap is closed, the shaft is seriously undersize.
5. Tighten the set screw to hold the key securely on the shaft during operation.

**CAUTION:** When mounting a "FUL-GRIP" bushing, the tightening force of the screws is multiplied many times by the wedging action of the tapered surface. This action compresses the bushing for a snug fit on the shaft. If extreme screw tightening force or lubricants are applied in mounting the "FUL-GRIP" bushing, bursting pressures will be created in the hub of the mounted sheave which may cause it to crack.

Refer to the recommended torque ratings

## REMOVAL

1. Loosen and remove cap screws.
2. Insert cap screws in tapered removal holes and starting with bolt farthest from sawnut on bushing, tighten evenly and progressively until sheave is loose on bushing. If sheaves in Figure 2 are installed with cap screw heads next to motor, loosen cap screws and use a wedge between the bushing and the sheave.
3. Remove sheave and bushing

**CAUTION:** Excessive or unequal pressure on the jack screws can break the bushing flange

Bushing	Wrench Torque (In.-Lbs)	Wrench Length (Inches)	Wrench Pull (Pounds)
JA	60	4	15
SH	108	4	27
SDS	108	4	27
SDS	108	4	27
SK	180	6	30
SF	360	6	60
E	720	12	60
F	900	12	75
J	1620	12	135
M	2700	15	180
N	3600	15	240
P	5400	18	300



# C stock sheave dimensions conventional v-belt drives

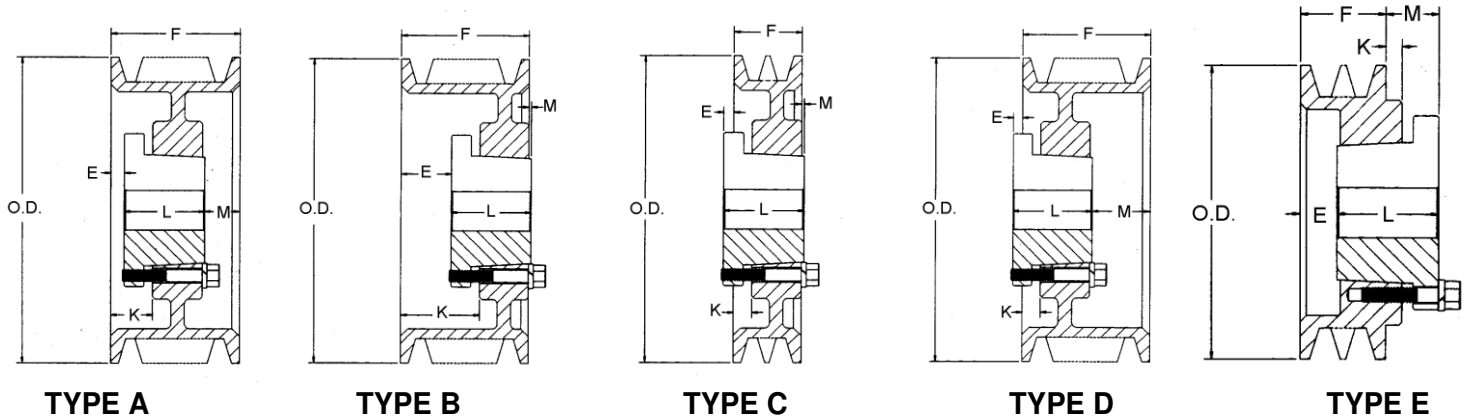


Figure Following Letter in Column Headed "TYPE" in Table Below Indicates Sheave Construction  
1 - Solid, No Web. 2 - Web. 3 - Arms

O.D.	DATUM DIAMETER	1 GROOVE								2 GROOVE							
		PART NUMBER	F = 1-3/8							PART NUMBER	F = 2-3/8						
			E*	TYPE	BUSH.	K	L	M*	WT. LBS		E*	TYPE	BUSH.	K	L	M*	WT. LBS
6.0	5.6									2C5.6	3/16	A1	SD	13/16	1-13/16	3/8	10
7.4	7.0	1C7.0	9/16	C1	SF	1/8	2	1/16	13	2C7.0	1/8	A1	SF	13/16	2	1/4	15
7.9	7.5	1C7.5	9/16	C1	SF	1/8	2	1/16	14	2C7.5	1/8	A1	SF	13/16	2	1/4	17
8.4	8.0	1C8.0	9/16	C2	SF	1/8	2	1/16	17	2C8.0	1/8	A2	SF	13/16	2	1/4	19
8.9	8.5	1C8.5	9/16	C2	SF	1/8	2	1/16	16	2C8.5	1/8	A2	SF	13/16	2	1/4	22
9.4	9.0	1C9.0	9/16	C2	SF	1/8	2	1/16	17	2C9.0	1/8	A2	SF	13/16	2	1/4	21
9.9	9.5	1C9.5	9/16	C2	SF	1/8	2	1/16	18	2C9.5	1/8	A2	SF	13/16	2	1/4	23
10.4	10.0	1C10.0	9/16	C2	SF	1/8	2	1/16	19	2C10.0	1/8	A2	SF	13/16	2	1/4	24
10.9	10.5	1C10.5	9/16	C2	SF	1/8	2	1/16	20	2C10.5	1/8	A2	SF	13/16	2	1/4	26
11.4	11.0	1C11.0	9/16	C3	SF	1/8	2	1/16	18	2C11.0	1/8	A3	SF	13/16	2	1/4	23
12.4	12.0	1C12.0	9/16	C3	SF	1/8	2	1/16	20	2C12.0	1/8	D3	SF	9/16	2	1/2	25
13.4	13.0	1C13.0	9/16	C3	SF	1/8	2	1/16	22	2C13.0	1/8	D3	SF	9/16	2	1/2	27
14.4	14.0	1C14.0	9/16	C3	SF	1/8	2	1/16	23	2C14.0	1/8	D3	SF	9/16	2	1/2	29
16.4	16.0	1C16.0	9/16	C3	SF	1/8	2	1/16	27	2C16.0	1/8	D3	SF	9/16	2	1/2	35
18.4	18.0	1C18.0	9/16	C3	SF	1/8	2	1/16	31	2C18.0	1/8	D3	SF	9/16	2	1/2	45
20.4	20.0	1C20.0	9/16	C3	SF	1/8	2	1/16	35	2C20.0	1/8	D3	SF	9/16	2	1/2	45
24.4	24.0	1C24.0	9/16	C3	SF	1/8	2	1/16	44	2C24.0	1/8	D3	SF	9/16	2	1/2	61
27.4	27.0									2C27.0	3/4	C3	F	5/16	3-5/8	1/2	90
30.4	30.0									2C30.0	3/4	C3	F	5/16	3-5/8	1/2	107
36.4	36.0																
44.4	44.0																
50.0	50.0																

\*E & M Dimension varies according to shaft tolerance  
Weights are approximate pounds including bushing

All Dimensions in Inches



# C stock sheave dimensions conventional v-belt drives

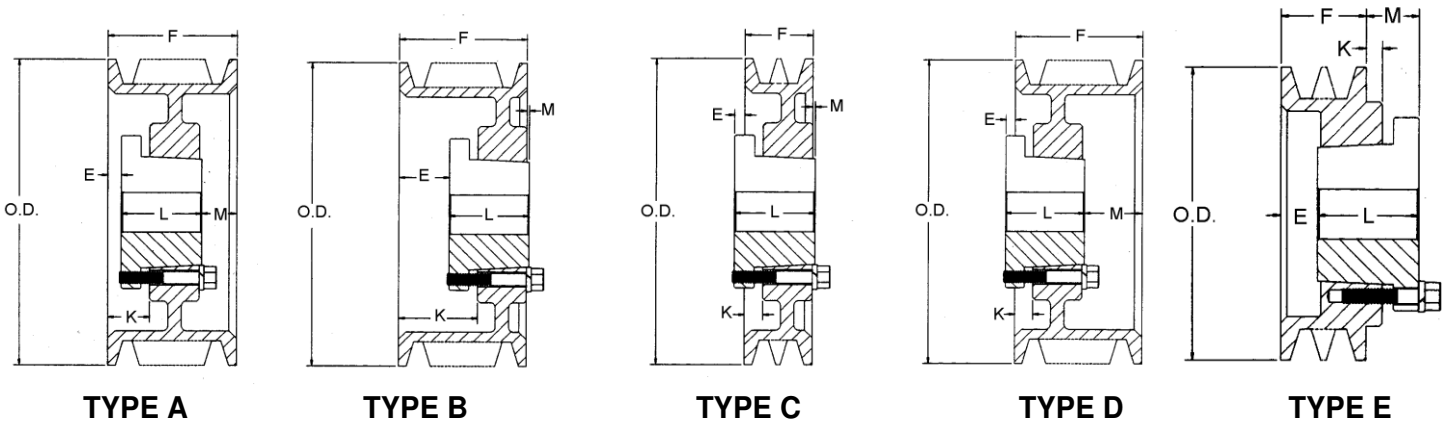


Figure Following Letter in Column Headed "TYPE" in Table Below Indicates Sheave Construction  
1 - Solid, No Web. 2 - Web. 3 - Arms

O.D.	DATUM DIAMETER	3 GROOVE								4 GROOVE							
		PART NUMBER	F = 3-3/8						WT. LBS	PART NUMBER	F = 4-3/8						WT. LBS
			E*	TYPE	BUSH.	K	L	M*			E*	TYPE	BUSH.	K	L	M*	
5.4	5.0	3C5.0	1/2	A1	SD	1-1/16	1-13/16	1-1/16	10	4C5.0	1	A1	SD	1-9/16	1-13/16	1-9/16	11
6.0	5.6	3C5.6	3/4	A1	SD	1-5/16	1-13/16	13/16	12	4C5.6	1	A1	SD	1-9/16	1-13/16	1-9/16	14
6.4	6.0	3C6.0	11/16	A1	SF	1-5/16	2	11/16	12	4C6.0	15/16	A1	SF	1-9/16	2	1-7/16	14
7.4	7.0	3C7.0	11/16	A1	SF	1-5/16	2	11/16	18	4C7.0	15/16	A1	SF	1-9/16	2	1-7/16	20
7.9	7.5	3C7.5	11/16	A1	SF	1-5/16	2	11/16	21	4C7.5	15/16	A1	SF	1-9/16	2	1-7/16	24
8.4	8.0	3C8.0	7/8	B1	E	1-3/4	2-5/8	1/8	28	4C8.0	1-1/8	A1	E	2	2-5/8	5/8	31
8.9	8.5	3C8.5	7/8	B1	E	1-3/4	2-5/8	1/8	31	4C8.5	1-1/8	A1	E	2	2-5/8	5/8	34
9.4	9.0	3C9.0	7/8	B1	E	1-3/4	2-5/8	1/8	34	4C9.0	1-1/8	A1	E	2	2-5/8	5/8	38
9.9	9.5	3C9.5	7/8	B2	E	1-3/4	2-5/8	1/8	38	4C9.5	1-1/8	A2	E	2	2-5/8	5/8	42
10.4	10.0	3C10.0	7/8	B2	E	1-3/4	2-5/8	1/8	41	4C10.0	1-1/8	A2	E	2	2-5/8	5/8	45
10.9	10.5	3C10.5	7/8	B2	E	1-3/4	2-5/8	1/8	38	4C10.5	1-1/8	A2	E	2	2-5/8	5/8	43
11.4	11.0	3C11.0	7/8	B2	E	1-3/4	2-5/8	1/8	41	4C11.0	1-1/8	A2	E	2	2-5/8	5/8	45
12.4	12.0	3C12.0	7/8	B2	E	1-3/4	2-5/8	1/8	45	4C12.0	1-1/8	A2	E	2	2-5/8	5/8	51
13.4	13.0	3C13.0	7/8	B3	E	1-3/4	2-5/8	1/8	49	4C13.0	1-1/8	A3	E	2	2-5/8	5/8	56
14.4	14.0	3C14.0	7/8	B3	E	1-3/4	2-5/8	1/8	49	4C14.0	1-1/8	A3	E	2	2-5/8	5/8	58
16.4	16.0	3C16.0	7/8	B3	E	1-3/4	2-5/8	1/8	58	4C16.0	1-1/8	A3	E	2	2-5/8	5/8	67
18.4	18.0	3C18.0	7/8	B3	E	1-3/4	2-5/8	1/8	73	4C18.0	1-1/8	A3	E	2	2-5/8	5/8	83
20.4	20.0	3C20.0	1/8	A3	E	1	2-5/8	5/8	76	4C20.0	5/8	A3	E	1-1/2	2-5/8	1-1/8	91
24.4	24.0	3C24.0	1/8	A3	E	1	2-5/8	5/8	86	4C24.0	5/16	A3	F	1-5/16	3-5/8	7/16	111
27.4	27.0	3C27.0	3/16	C3	F	13/16	3-5/8	1/16	121	4C27.0	5/16	A3	F	1-5/16	3-5/8	7/16	138
30.4	30.0	3C30.0	3/16	C3	F	13/16	3-5/8	1/16	129	4C30.0	5/16	A3	F	1-5/16	3-5/8	7/16	150
36.4	36.0	3C36.0	3/16	C3	F	13/16	3-5/8	1/16	177	4C36.0	5/16	A3	F	1-5/16	3-5/8	7/16	211
44.4	44.0	3C44.0	3/16	C3	F	13/16	3-5/8	1/16	260	4C44.0	3/8	B3	J	1-9/16	4-1/2	1/2	297
50.0	50.0	3C50.0	3/16	C3	F	13/16	3-5/8	1/16	319	4C50.0	3/8	B3	J	1-9/16	4-1/2	1/2	361

\*E & M Dimension varies according to shaft tolerance  
Weights are approximate pounds including bushing

All Dimensions in Inches



# C stock sheave dimensions conventional v-belt drives

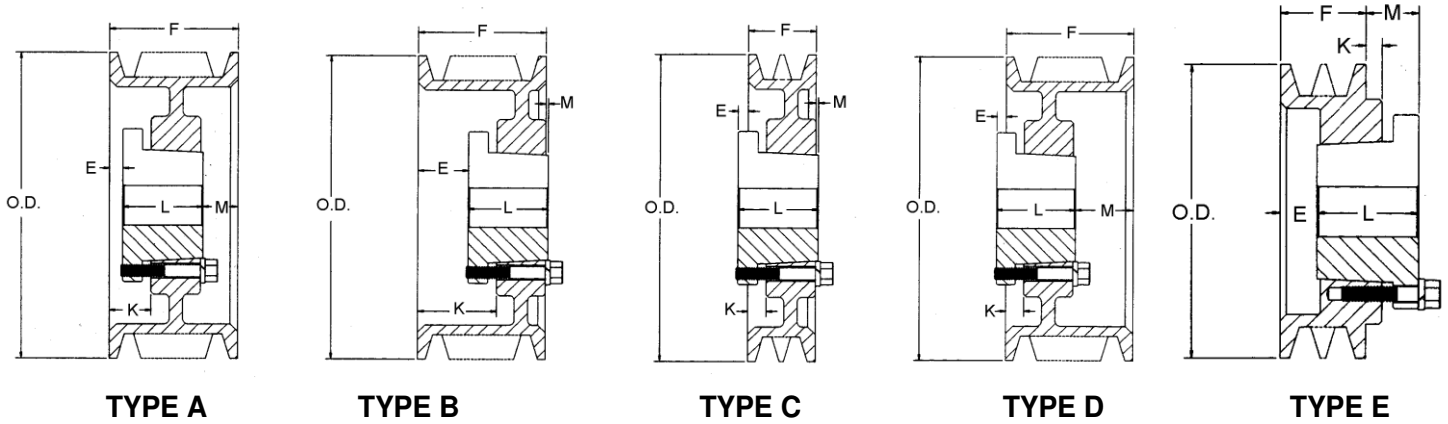


Figure Following Letter in Column Headed "TYPE" in Table Below Indicates Sheave Construction  
1 - Solid, No Web. 2 - Web. 3 - Arms

O.D.	DATUM DIAMETER	5 GROOVE								6 GROOVE									
		PART NUMBER	F = 5-3/8							WT. LBS	PART NUMBER	F = 6-3/8							WT. LBS
			E*	TYPE	BUSH.	K	L	M*	E*			TYPE	BUSH.	K	L	M*			
6.4	6.0	5C6.0	1-3/8	A1	SF	1-15/16	2	2	16	6C6.0	1-3/8	A1	SF	1-15/16	2	3	17		
7.4	7.0	5C7.0	1-5/16	A1	SF	1-15/16	2	2-1/16	24	6C7.0	1-5/16	A1	SF	1-15/16	2	3-1/16	27		
7.9	7.5	5C7.5	1-5/16	A1	SF	1-15/16	2	2-1/16	27	6C7.5	1-5/16	A1	SF	1-15/16	2	3-1/16	30		
8.4	8.0	5C8.0	1-1/2	A1	E	2-3/8	2-5/8	1-1/4	34	6C8.0	1-1/2	A1	E	2-3/8	2-5/8	2-1/4	38		
8.9	8.5	5C8.5	1-1/2	A1	E	2-3/8	2-5/8	1-1/4	38	6C8.5	1-1/2	A1	E	2-3/8	2-5/8	2-1/4	41		
9.4	9.0	5C9.0	1-1/2	A1	E	2-3/8	2-5/8	1-1/4	41	6C9.0	1-7/16	A1	F	2-7/16	3-5/8	1-5/16	53		
9.9	9.5	5C9.5	1-1/2	A2	E	2-3/8	2-5/8	1-1/4	46	6C9.5	1-7/16	A1	F	2-7/16	3-5/8	1-5/16	60		
10.4	10.0	5C10.0	1-1/2	A2	E	2-3/8	2-5/8	1-1/4	49	6C10.0	1-7/16	A1	F	2-7/16	3-5/8	1-5/16	64		
10.9	10.5	5C10.5	1-1/2	A2	E	2-3/8	2-5/8	1-1/4	47	6C10.5	1-7/16	A1	F	2-7/16	3-5/8	1-5/16	70		
11.4	11.0	5C11.0	1-1/2	A2	E	2-3/8	2-5/8	1-1/4	50	6C11.0	1-7/16	A2	F	2-7/16	3-5/8	1-5/16	77		
12.4	12.0	5C12.0	1-1/2	A2	E	2-3/8	2-5/8	1-1/4	56	6C12.0	1-7/16	A2	F	2-7/16	3-5/8	1-5/16	73		
13.4	13.0	5C13.0	1-1/2	A3	E	2-3/8	2-5/8	1-1/4	62	6C13.0	1-7/16	A3	F	2-7/16	3-5/8	1-5/16	80		
14.4	14.0	5C14.0	1-1/2	A3	E	2-3/8	2-5/8	1-1/4	64	6C14.0	1-7/16	A3	F	2-7/16	3-5/8	1-5/16	83		
16.4	16.0	5C16.0	1-1/2	A3	E	2-3/8	2-5/8	1-1/4	78	6C16.0	1-7/16	A3	F	2-7/16	3-5/8	1-5/16	98		
18.4	18.0	5C18.0	1-1/2	A3	E	2-3/8	2-5/8	1-1/4	93	6C18.0	1-7/16	A3	F	2-7/16	3-5/8	1-5/16	109		
20.4	20.0	5C20.0	5/16	A3	F	1-15/16	3-5/8	1-7/16	110	6C20.0	15/16	A3	F	1-15/16	3-5/8	1-13/16	120		
24.4	24.0	5C24.0	5/16	A3	F	1-15/16	3-5/8	1-7/16	141	6C24.0	15/16	A3	F	1-15/16	3-5/8	1-13/16	133		
27.4	27.0	5C27.0	5/16	A3	F	1-15/16	3-5/8	1-7/16	159	6C27.0	3/8	A3	J	1-9/16	4-1/2	1-1/2	190		
30.4	30.0	5C30.0	5/16	A3	F	1-15/16	3-5/8	1-7/16	171	6C30.0	3/8	A3	J	1-9/16	4-1/2	1-1/2	215		
36.4	36.0	5C36.0	3/8	A3	J	1-9/16	4-1/2	1/2	236	6C36.0	3/8	A3	J	1-9/16	4-1/2	1-1/2	281		
44.4	44.0	5C44.0	3/8	A3	J	1-9/16	4-1/2	1/2	309	6C44.0	3/8	A3	J	1-9/16	4-1/2	1-1/2	348		
50.0	50.0	5C50.0	3/8	A3	J	1-9/16	4-1/2	1/2	382	6C50.0	3/8	B3	M	1-15/16	6-3/4	7/8	533		

\*E & M Dimension varies according to shaft tolerance  
Weights are approximate pounds including bushing

All Dimensions in Inches

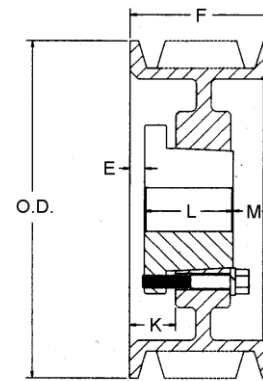


# C stock sheave dimensions conventional v-belt drives

Figure Following Letter in Column Headed "TYPE" in Table Below Indicates Sheave Construction  
1 - Solid, No Web. 2 - Web. 3 - Arms

O.D.	DATUM DIAMETER	8 GROOVE								10 GROOVE							
		PART NUMBER	F = 8-3/8							PART NUMBER	F = 10-3/8						
			E*	TYPE	BUSH	K	L	M*	WT. LBS		E*	TYPE	BUSH	K	L	M*	WT. LBS
7.4	7.0	8C7.0	2-7/16	A1	SF	3-1/8	2	3/15/16	32								
8.4	8.0	8C8.0	2-11/32	A1	E	3-1/4	2-5/8	3/13/32	44	10C8.0	2-11/32	A1	E	3-1/4	2-5/8	5-13/32	51
8.9	8.5	8C8.5	2-11/32	A1	E	3-1/4	2-5/8	3/13/32	48	10C8.5	2-11/32	A1	E	3-1/4	2-5/8	5-13/32	56
9.4	9.0	8C9.0	2-1/4	A1	F	3-5/16	3-5/8	2-1/2	61	10C9.0	2-5/16	A1	J	3-9/16	4-1/2	3-9/16	75
9.9	9.5	8C9.5	2-1/4	A1	F	3-5/16	3-5/8	2-1/2	68	10C9.5	2-5/16	A1	J	3-9/16	4-1/2	3-9/16	84
10.4	10.0	8C10.0	2-1/4	A1	F	3-5/16	3-5/8	2-1/2	73	10C10.0	2-5/16	A1	J	3-9/16	4-1/2	3-9/16	90
10.9	10.5	8C10.5	2-1/4	A1	F	3-5/16	3-5/8	2-1/2	79	10C10.5	2-5/16	A1	J	3-9/16	4-1/2	3-9/16	98
11.4	11.0	8C11.0	2-1/4	A2	F	3-5/16	3-5/8	2-1/2	86	10C11.0	2-5/16	A1	J	3-9/16	4-1/2	3-9/16	107
12.4	12.0	8C12.0	2-1/4	A2	F	3-5/16	3-5/8	2-1/2	83	10C12.0	2-5/16	A2	J	3-9/16	4-1/2	3-9/16	124
13.4	13.0	8C13.0	2-1/4	A2	F	3-5/16	3-5/8	2-1/2	92	10C13.0	2-5/16	A2	J	3-9/16	4-1/2	3-9/16	118
14.4	14.0	8C14.0	2-1/4	A2	F	3-5/16	3-5/8	2-1/2	102	10C14.0	2-5/16	A2	J	3-9/16	4-1/2	3-9/16	127
16.4	16.0	8C16.0	2-1/4	A2	F	3-5/16	3-5/8	2-1/2	119	10C16.0	2-5/16	A2	J	3-9/16	4-1/2	3-9/16	157
18.4	18.0	8C18.0	2-1/4	A3	F	3-5/16	3-5/8	2-1/2	134	10C18.0	2-5/16	A3	J	3-9/16	4-1/2	3-9/16	165
20.4	20.0	8C20.0	5/16	A3	J	1-9/16	4-1/2	3-9/16	162	10C20.0	2-5/16	A3	J	3-9/16	4-1/2	3-9/16	186
24.4	24.0	8C24.0	5/16	A3	J	1-9/16	4-1/2	3-9/16	189	10C24.0	15/32	A3	M	1-15/16	6-3/4	3-5/32	298
27.4	27.0	8C27.0	5/16	A3	J	1-9/16	4-1/2	3-9/16	242								
30.4	30.0	8C30.0	5/16	A3	J	1-9/16	4-1/2	3-9/16	256	10C30.0	15/32	A3	M	1-15/16	6-3/4	3-5/32	367
36.4	36.0	8C36.0	15/32	A3	M	1-15/16	6-3/4	1-5/32	406	10C36.0	15/32	A3	M	1-15/16	6-3/4	3-5/32	445
44.4	44.0	8C44.0	15/32	A3	M	1-15/16	6-3/4	1-5/32	510	10C44.0	15/32	A3	M	1-15/16	6-3/4	3-5/32	595
50.0	50.0	8C50.0	15/32	A3	M	1-15/16	6-3/4	1-5/32	593	10C50.0	15/32	A3	M	1-15/16	6-3/4	3-5/32	718

O.D.	DATUM DIAMETER	12 GROOVE							
		PART NUMBER	F = 12-3/8						
			E*	TYPE	BUSH.	K	L	M*	WT. LBS
9.4	9.0	12C9.0	2-13/16	A1	J	4-1/16	4-1/2	5-1/16	82
9.9	9.5	12C9.5	2-13/16	A1	J	4-1/16	4-1/2	5-1/16	92
10.4	10.0	12C10.0	2-13/16	A1	J	4-1/16	4-1/2	5-1/16	99
10.9	10.5	12C10.5	2-13/16	A1	J	4-1/16	4-1/2	5-1/16	107
11.4	11.0	12C11.0	2-13/16	A1	J	4-1/16	4-1/2	5-1/16	116
12.4	12.0	12C12.0	2-13/16	A2	J	4-1/16	4-1/2	5-1/16	135
13.4	13.0	12C13.0	2-13/16	A2	J	4-1/16	4-1/2	5-1/16	160
14.4	14.0	12C14.0	2-13/16	A2	J	4-1/16	4-1/2	5-1/16	143
16.4	16.0	12C16.0	2-13/16	A2	J	4-1/16	4-1/2	5-1/16	176
18.4	18.0	12C18.0	2-13/16	A3	J	4-1/16	4-1/2	5-1/16	188
20.4	20.0	12C20.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	292
24.4	24.0	12C24.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	361
30.4	30.0	12C30.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	397
36.4	36.0	12C36.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	483
44.4	44.0	12C44.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	645
50.0	50.0	12C50.0	15/32	A3	M	1-15/16	6-3/4	5-5/32	779



TYPE A

\*E & M Dimension varies according to shaft tolerance

All Dimensions in Inches

Weights are approximate pounds including bushing