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## FHP Drives

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V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HTR  
Synchronous Drives

HTRC  
Synchronous Drives



# FEATURES/BENEFITS

V-Drives

## FHP Light Duty V-Drives

### The Economical Option For Smaller Drives

- Fractional thru 10 HP at 1750 RPM
- One or Two Groove
- Fixed Pitched or Variable Pitch
- Use Standard Belts  
FHP: 3L-4L-5L  
SL Classic: A or B Section  
Classic Cog: AX or BX



### QT-Bushed Sheave

- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Durable Cast Iron Construction
- Industry Standard H-Style Bushing
- Interchangeable with QT and D Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing Available in Select Bores
- Inch and Metric Bores
- Static Balance
- Suitable for Higher Capacity AX or BX Classic Cog Belts

FHP Drives

Drive Component Accessories



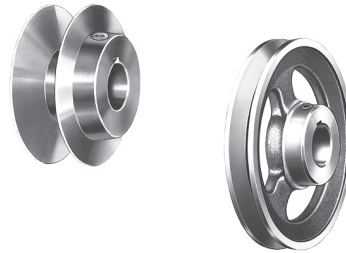
DYNA-SYNC

### Variable Pitch Sheaves

- One and Two Grooves
- Selections Available up to 30HP, 1750 RPM
- Durable Cast Iron Construction
- Static Balance

HT200/HTD Synchronous Drives

- Driven Sheave Options:  
FHP Bored-to-Size  
FHP QT-Bushed  
Taper-Lock Dual Duty  
QD Combination Duty



HTR Synchronous Drives

- Belt Options Include FHP, Classical
- Adjustment Range 1.3:1 (Approx.)
- Positive Locking of Adjustment Setting
- New Easy Selection Procedure
- Applications Include: Conveyors, Pumps, Fans, Mixers, Ventilators, etc.

### Finish Bore Sheaves

- Sizes AK, 2AK, BK, 2BK
- Bored-to-Size
- Keyway and Setscrew
- Durable Cast Iron Construction
- Static Balance
- Stocked in Popular Sizes
- Not Recommended for Classic Cog Belts



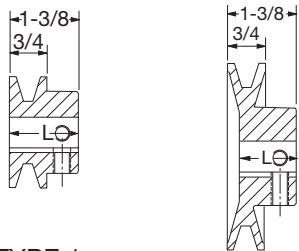
HTRC Synchronous Drives

**NOTE:** Selection tools available online at [www.dodge-pt.com](http://www.dodge-pt.com)

# SELECTION/DIMENSIONS

## LIGHT DUTY FIXED BORE SHEAVES

### AK (A & 3L - 4L V-BELTS)



TYPE 1

TYPE 2

A = Arms

B = Block

W = Web



- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM

Shaft Dia.	Keyseat
1/2	none
5/8 - 7/8"	3/16 X 3/32
15/16 - 1-1/4"	1/4 X 1/8
1-5/16 - 1-3/8"	5/16 X 5/32
1-7/16"	3/8 X 3/16

### 1 GROOVE

O.D.	Datum Dia.		SHV NO	Type	L	Bore/Part Number											Approx Wgt
	3L (O)	4L(A)				1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8	1-7/16	
1.55	---	1.30	AK15 / MA15	1B	1.25	121626	121627										.40
1.75	---	1.50	AK17 / MA18	1B	1.38	121631	121632	121633									.40
2.00	1.41	1.75	AK20 / MA20	1B	1.38	121636	121637	121638									.70
2.10	1.51	1.85	AK21 / MA21	1B	1.38	127100	127101	127102									.70
2.20	1.61	1.95	AK22 / MA22	1B	1.38	127436	127437	127438									.80
2.30	1.71	2.05	AK23 / MA23	1B	1.38	121642	121643	121644	121645								.80
2.50	1.91	2.25	AK25 / MA25	2B	1.25	121649	121650	121651	121652								.90
2.60	2.01	2.35	AK26 / MA26	2B	1.25	127103	127104	127105									.90
2.70	2.11	2.45	AK27 / MA27	2B	1.25	127107	121503	127108									.90
2.80	2.21	2.55	AK28 / MA28	2B	1.25	121655	121656	121657	121658	121659							.90
3.05	2.46	2.80	AK30 / MA30	2B	1.25	121662	121663	121664	121665	121666							1.20
3.25	2.66	3.00	AK32 / MA33	2B	1.25	121669	121670	121671	121672	121673	121674						1.50
3.45	2.86	3.20	AK34 / MA35	2B	1.25	121676	121677	121678	121679	121680	121681						1.40
3.75	3.16	3.50	AK39 / MA38	2W	1.13	121530	121531	121532	121533	121534	121535						1.50
3.95	3.36	3.70	AK41 / MA40	2W	1.13	121536	121537	121538	121539	127111	121540	121541					2.00
4.25	3.66	4.00	AK44 / MA43	2W	1.13	121542	121543	121544	121545	127112	121546	121547					2.00
4.45	3.86	4.20	AK46 / MA45	2W	1.13	121548	121549	121550	121551	127113	121552	121553					2.00
4.75	4.16	4.50	AK49 / MA48	1A	1.38	121554	121555	121556	121557	127114	121558	121559					2.00
4.95	4.36	4.70	AK51 / MA50	1A	1.38	121560	121561	121562	121563		121564	121565					2.00
5.25	4.66	5.00	AK54 / MA53	1A	1.38	121566	121567	121568	121569	127115	121570	121571	121572				2.50
5.45	4.86	5.20	AK56 / MA55	1A	1.38	121573	121574	121575	121576	127116	121577	121578	121579				2.50
5.75	5.16	5.50	AK59 / MA58	1A	1.38	127117	127118	127119	127120	127121	127122	127123	127124				2.50
5.95	5.36	5.70	AK61 / MA60	1A	1.38	121580	121581	121582	121583	127125	121584	121585	121586				3.00
6.25	5.66	6.00	AK64 / MA63	1A	1.38	121587	121588	121589	121590	127126	121591	121592	121593				3.00
6.45	5.86	6.20	AK66 / MA65	1A	1.38		127209	121594			121595	127128					3.00
6.75	6.16	6.50	AK69 / MA68	1A	1.38			127129			127130	127131					3.00
6.95	6.36	6.70	AK71 / MA70	1A	1.38			127132	121596		121597	127133					3.50
7.25	6.66	7.00	AK74 / MA73	1A	1.38	121598	121599	121600		127134	121601	121602	127135	127136			3.50
7.75	7.16	7.50	AK79 / MA78	1A	1.38			127138			127139	127140					3.50
8.25	7.66	8.00	AK84 / MA83	1A	1.38	127142	121609	121610		127143	121611		121612				4.40
8.75	8.16	8.50	AK89 / MA88	1A	1.38			127145			127146	127147					4.50
9.25	8.66	9.00	AK94 / MA93	1A	1.38	127210	127211	121800		127212	127213		127214	121803			5.40
9.75	9.16	9.50	AK99 / MA98	1A	1.38			127149			127150						5.50
10.25	9.66	10.00	AK104 / MA103	1A	1.38		121809	121810			121811		127216	127217	127218	127219	6.00
10.75	10.16	10.50	AK109 / MA108	1A	1.38			127152			127153				127220	127154	6.00
11.25	10.66	11.00	AK114 / MA113	1A	1.38			127155			127156		127222			127223	6.50
12.25	11.66	12.00	AK124 / MA123	1A	1.38		121820	121821			121823		127224	127226		127227	7.00
13.25	12.66	13.00	AK134 / MA133	1A	1.38			121620			121621		121622		127106	127109	8.50
14.25	13.66	14.00	AK144 / MA143	1A	1.38			121623			121624		121628			121629	9.00
15.25	14.66	15.00	AK154 / MA153	1A	1.38			121634			121639		121640		127228	121646	9.00
18.25	17.66	18.00	AK184 / MA183	1A	1.38			121647			121653		121654			121660	14.00

P.D. for "3L Belt = D.D. + .25" = O.D. - .34"

P.D. for "A" (4L) Belt = O.D.

DO NOT use 3L belts with AK15 and AK17 sheaves

Bore sizes marked X are available - POA

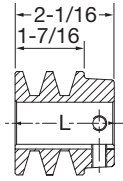
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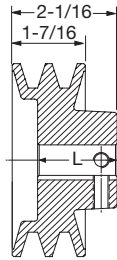
## SELECTION/DIMENSIONS

### LIGHT DUTY FIXED BORE SHEAVES

#### 2AK (A V-BELTS)



TYPE 3



TYPE 4

A = Arms

B = Block

W = Web

- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM

Shaft Dia.	Keyseat
1/2	none
5/8 - 7/8"	3/16 X 3/32
15/16 - 1-1/4"	1/4 X 1/8
1-5/16 - 1-3/8"	5/16 X 5/32
1-7/16"	3/8 X 3/16

### 2 GROOVES

O.D	D.D. A Belt	SHV NO	Type	L	Bore/Part Number										Approx Wgt	
					1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-3/8	1-7/16		
2.00	1.75	2AK20 / 2MA20	3B	2.06	121835	121836	121837	121838								1.00
2.15	1.90	2AK21 / 2MA22	3B	2.06	127158	127159	127160									1.00
2.25	2.00	2AK22 / 2MA23	3B	2.06	121839	121840	121841	121842			121843					1.00
2.35	2.10	2AK23 / 2MA24	4B	1.88		127161	127162	127163			127229					1.00
2.55	2.30	2AK25 / 2MA25	4B	1.69	121844	121845	121846	121847			121848	121849				1.50
2.65	2.40	2AK26 / 2MA27	4B	1.88		127164	127165	127166								1.50
2.75	2.50	2AK27 / 2MA28	4B	1.69	121850	121851	121852	121853			121854	121855				1.50
2.85	2.60	2AK28 / 2MA29	4B	1.69		127169	127170	127171			127172					1.50
3.05	2.80	2AK30 / 2MA30	4B	1.69	121856	121857	121858	121859			121860	121861				2.00
3.25	3.00	2AK32 / 2MA33	4B	1.63	121862	121863	121864	121865			121866	121867				2.00
3.45	3.20	2AK34 / 2MA35	4B	1.63	121868	121869	121870	121871			121872	121873				2.50
3.75	3.50	2AK39 / 2MA38	4B	1.63	121874	121875	121876	121877			121878	121879				3.00
3.95	3.70	2AK41 / 2MA40	4W	1.56		121959	121880	121881			121882	121883				3.00
4.25	4.00	2AK44 / 2MA43	4W	1.56		121884	121885	121886			121887	121888				3.00
4.45	4.20	2AK46 / 2MA45	4W	1.69				121891			121892	121893				4.00
4.75	4.50	2AK49 / 2MA48	4W	1.56			121895	121896			121897	127230		127231		3.50
4.95	4.70	2AK51 / 2MA50	4W	1.56			121899	121900			121901	127439		127232		4.00
5.25	5.00	2AK54 / 2MA53	4W	1.56		121902	121903	121904			121905	127233		127234		4.00
5.45	5.20	2AK56 / 2MA55	4W	1.56		121906	121907				121909	127440		127235		5.00
5.75	5.50	2AK59 / 2MA58	4W	1.56							121910	127236		127237		5.00
5.95	5.70	2AK61 / 2MA60	4W	1.69			121911	121912			121913	127238		127240		6.00
6.25	6.00	2AK64 / 2MA63	4A	1.56			121914				121916	127241	121917	127242	121918	5.50
7.25	7.00	2AK74 / 2MA73	4A	1.56			121919				121920	127243	121921	127244	121922	6.00
8.25	8.00	2AK84 / 2MA83	4A	1.56			121923			121924	121925	127245	121926	127246	121927	8.00
9.25	9.00	2AK94 / 2MA93	4A	1.56			121928				121930	127248	121931	127249	121932	9.00
10.25	10.00	2AK104 / 2MA103	4A	1.56			121933			121934	121935				121937	10.00
11.25	11.00	2AK114 / 2MA113	4A	1.56							121939		121940	127250	121941	11.00
12.25	12.00	2AK124 / 2MA123	4A	1.59							121943		121944		121945	12.00
13.25	13.00	2AK134 / 2MA133	4A	1.59									121947		121948	14.00
14.25	14.00	2AK144 / 2MA143	4A	1.56							121949				121951	15.00
15.25	15.00	2AK154 / 2MA153	4A	1.56									121953		121954	17.00
18.25	18.00	2AK184 / 2MA183	4A	1.53									121957		121958	19.00

PD for "A" Belts = O.D.

Bore sizes marked X are available - POA

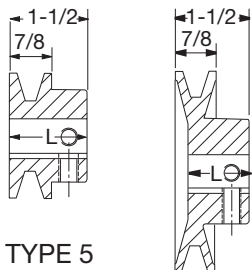


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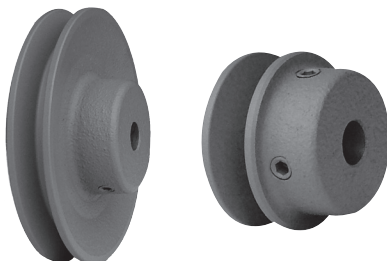
# SELECTION/DIMENSIONS

## LIGHT DUTY FIXED BORE SHEAVES BK (A & 4L - B & 5L V-BELTS)

- Finished Bore
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM



A = Arms  
B = Block  
W = Web



Shaft Dia.	Keyseat
1/2	none
5/8 - 7/8"	3/16 X 3/32
15/16 - 1-1/4"	1/4 X 1/8
1-5/16 - 1-3/8"	5/16 X 5/32
1-7/16"	3/8 X 3/16

### 1 GROOVE

O.D.	Datum Dia.		SHV NO	Type	L	Bore/Part Number										Approx Wgt		
	A (4L)	B (5L)				1/2	5/8	3/4	7/8	15/16	1	1-1/8	1-3/16	1-1/4	1-3/8		1-7/16	
2.00	* 1.25	1.65	BK20 / MB20	5B	1.50	121682 *	121683 *	121684 *										.50
2.25	* 1.50	1.90	BK23 / MB23	6B	1.34	121685	121686	121687	121688		121689 *						1.00	
2.40	1.65	2.05	BK24 / MB24	6B	1.50	127173	127174	127175									1.00	
2.50	* 1.75	2.15	BK25 / MB25	5B	1.50	121691	121692	121693	121694		121695 *	*					1.00	
2.60	1.85	2.25	BK26 / MB26	5B	1.50	127176	127177	127178	127179								1.00	
2.70	1.95	2.35	BK27 / MB28	6B	1.38	121697	121698	121699	121700		121701						1.00	
2.95	2.20	2.60	BK28 / MB30	6B	1.38	121706	121707	121708	121709		121710	121711					1.00	
3.15	2.40	2.80	BK30 / MB31	6B	1.38	127180	127181	127182	127183								1.00	
3.25	2.50	2.90	BK31 / MB33	6B	1.38	121714	121715	121716	121717		121718	121719					1.00	
3.35	2.60	3.00	BK32 / MB34	6B	1.38	127184	127185	127186	127187								1.00	
3.55	2.80	3.20	BK34 / MB35	6B	1.38	121722	121723	121724	121725		121726	121727					1.50	
3.75	3.00	3.40	BK36 / MB38	6B	1.25	120850	120851	120852	120853		120854	120855					1.50	
3.95	3.20	3.60	BK40 / MB40	6B	1.25	120856	120857	120858	120859		120860	120861					2.00	
4.25	3.50	3.90	BK45 / MB43	6W	1.25	120862	120863	120864	120865		120866	120867					2.00	
4.45	3.70	4.10	BK47 / MB45	6W	1.25	120874	120875	120876	120877		120878	127201					2.00	
4.75	4.00	4.40	BK50 / MB48	5W	1.50	121010	121011	121012	121013	127206	121014	121015					2.50	
4.95	4.20	4.60	BK52 / MB50	5W	1.50	120885	120886	120887	120888		120889	120890					2.50	
5.25	4.50	4.90	BK55 / MB53	6W	1.31	120892	120893	120894	120895		120896	120897	127221				3.00	
5.45	4.70	5.10	BK57 / MB55	5A	1.50		120899	120900	120901	127225	120902	120903					2.50	
5.75	5.00	5.40	BK60 / MB58	5A	1.50	120910	120911	120912	120913		120914	120915	120916				2.50	
5.95	5.20	5.60	BK62 / MB60	5A	1.50	120917	120918	120919	120920	127239	120921	120922	120923				2.50	
6.25	5.50	5.90	BK65 / MB63	5A	1.50		120924	120925			120926	120927					3.00	
6.45	5.70	6.10	BK67 / MB65	5A	1.50		120929	120930			120932	120933					3.00	
6.75	6.00	6.40	BK70 / MB68	5A	1.50		120942	120943		127247	120945	120946	120947			120949	4.00	
6.95	6.20	6.60	BK72 / MB70	5A	1.50			120950			120951	127301			127252		3.50	
7.25	6.50	6.90	BK75 / MB73	5A	1.50			120952			120953	127302					3.50	
7.45	6.70	7.10	BK77 / MB75	5A	1.50			127254			127255	127256			127257		4.00	
7.75	7.00	7.40	BK80 / MB78	5A	1.50		120954	120955	120956		120957	120958	120959	120960	127303	120961	4.00	
8.25	7.50	7.90	BK85 / MB83	5A	1.50			121661			121668	127304			127258	127259	4.50	
8.75	8.00	8.40	BK90 / MB88	5A	1.50			127260	120962	127261	120963	120847	127262		127263	127264	5.00	
9.25	8.50	8.90	BK95 / MB93	5A	1.50			127265			127266	127267			127268	127269	5.50	
9.75	9.00	9.40	BK100 / MB98	5A	1.50			120972	120973	127270	120974	120975	120976	120977	127305	120978	6.00	
10.25	9.50	9.90	BK105 / MB103	5A	1.50						127271			127272	127273		6.50	
10.75	10.00	10.40	BK110 / MB108	5A	1.50						120981	120848	120982		127274	127275	7.00	
11.25	10.50	10.90	BK115 / MB113	5A	1.50						120985				127442	120989	8.00	
11.75	11.00	11.40	BK120 / MB118	5A	1.50			120990			120991		120992		127443	120994	8.00	
12.75	12.00	12.40	BK130 / MB128	5A	1.50			120995			120996	120997	120998	121000		121001	9.00	
13.75	13.00	13.40	BK140 / MB138	5A	1.50			127276			127277	127157	127278			127279	10.00	
15.75	15.00	15.40	BK160 / MB158	5A	1.50						121690	127280	121696	121833		121834	12.00	
18.75	18.00	18.40	BK190 / MB188	5A	1.50								121521	121527		121528	14.00	

P.D. for A (4L) Belts = Datum Dia. + .35 = O.D. -.40

P.D. for B (5L) Belts = O.D.

(\*) DO NOT use "A" or "4L" belts with these specific bores

Bore sizes marked X are available - POA

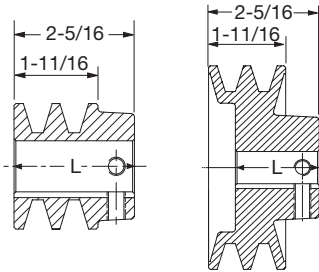
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## SELECTION/DIMENSIONS

### LIGHT DUTY FIXED BORE SHEAVES 2BK (A & B V-BELTS)

- Finished Boe
- Keyway and (2) Setscrew
- Cast Iron, max speed 6500 FPM



TYPE 7

TYPE 8

A = Arms

B = Block

W = Web

Shaft Dia.	Keyseat
1/2	none
5/8 - 7/8"	3/16 X 3/32
15/16 - 1-1/4"	1/4 X 1/8
1-5/16 - 1-3/8"	5/16 X 5/32
1-7/16"	3/8 X 3/16

### 2 GROOVES

O.D	D.D. A(4L) Belt	D.D. B(5L) Belt	SHV NO	Type	L	Bore/Part Number										Wgt
						1/2	5/8	3/4	7/8	1	1-1/8	1-3/16	1-3/8	1-7/16		
2.50	* 1.90	2.30	2BK25 / 2MB25	7B	2.31	121730	121731	121732	121733	121734 *	*					1.50
1.70	2.10	2.50	2BK27 / 2MB28	8B	1.94	121736	121737	121738	121739	121740	121741					1.50
2.95	2.20	2.60	2BK28 / 2MB30	8B	1.94	121742	121743	121744	121745	121746	121747					2.00
3.15	2.40	2.80	2BK30 / 2MB32	8B	1.88	127281	127282	127283	127284	127285	127286					2.00
3.35	2.60	3.00	2BK32 / 2MB34	8B	1.94		121748	121749	121750	121751	121752					3.00
3.55	2.80	3.20	2BK34 / 2MB35	8B	1.88		121753	121754	121755	121756	121757					2.50
3.75	3.00	3.40	2BK36 / 2MB38	8B	1.88			121759	121760	121761	121762		127287			3.00
3.95	3.20	3.60	2BK40 / 2MB40	8B	1.69		121763	121764	121765	121766	121767		121768			3.00
4.25	3.50	3.90	2BK45 / 2MB43	8W	1.81				121766	121766	121767		121774			4.00
4.45	3.70	4.10	2BK47 / 2MB45	8W	1.81				121776	121777	121778					4.00
4.75	4.00	4.40	2BK50 / 2MB48	8W	1.81			121780		121782	121783		121784			4.00
4.95	4.20	4.60	2BK52 / 2MB50	8W	1.69				121786	121787	121788		121789			4.50
5.25	4.50	4.90	2BK55 / 2MB53	8W	1.81						121793		127288			5.00
5.45	4.70	5.10	2BK57 / 2MB55	8W	1.81					121796	121797		127289			5.00
5.75	5.00	5.40	2BK60 / 2MB58	8W	1.81			121798	121799	121960	121961		127290			5.00
5.95	5.20	5.60	2BK62 / 2MB60	8W	1.81					121963	121964		127291			6.00
6.25	5.50	5.90	2BK65 / 2MB63	8A	1.81					121966	121967		127292			6.00
6.45	5.70	6.10	2BK67 / 2MB65	8A	1.69					121969	121970		127293			6.00
6.75	6.00	6.40	2BK70 / 2MB68	8A	1.81			121971		121972	127294	121973	127295	121974		6.00
7.75	7.00	7.40	2BK80 / 2MB78	8A	1.81			121975		121977	127296	121978	127297	121979		7.00
8.75	8.00	8.40	2BK90 / 2MB88	8A	1.81			121980		121981	127298	121982	127299	121983		8.00
9.75	9.00	9.40	2BK100 / 2MB98	8A	1.81			121984		121986		121987	127300	121988		10.00
10.75	10.00	10.40	2BK110 / 2MB108	8A	1.81					121989		121990		121991		13.00
11.75	11.00	11.40	2BK120 / 2MB118	8A	1.81					121993		121994		121995		10.00
12.75	12.00	12.40	2BK130 / 2MB128	8A	1.81					121996		121997		121998		15.00
13.75	13.00	13.40	2BK140 / 2MB138	8A	1.81					121703		121704		121705		17.00
15.75	15.00	15.40	2BK160 / 2MB158	8A	1.81					121712		121713		121720		18.00
18.75	18.00	18.40	2BK190 / 2MB188	8A	1.81							121728		121729		26.00

P.D. for A (4L) Belts = Datum Dia. + .35 = O.D. -.40

P.D. for B (5L) Belts = O.D.

(\*) DO NOT use A belts with these specific bores

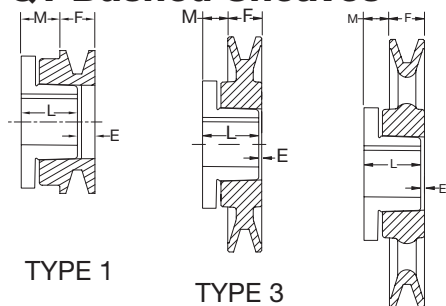
Bore sizes marked X are available - POA



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# SELECTION/DIMENSIONS

## QT-Bushed Sheaves



## QT-Bushed Sheaves

- Sizes AKQT, 2AKQT, BKQT, 2BKQT
- Uses QT(L)-Style Bushing
- Secure Clamp Fit to Shaft
- Bore Range 3/8 to 1-1/2"
- Integral Key Bushing — Available in Select Bores
- Inch and Metric Bores
- Suitable for Higher Capacity AX or BX Classic Cog Belts



## AK (A & 3L - 4L V-BELTS) 1 GROOVE

O.D.	Datum Dia.		SHV NO	P/N	Type	Dimensions				Approx Wgt
	3L	A (4L)				E	F	L	M	
3.05	2.46	2.80	AK30QT / MAL30	121017	1B	0.38	0.75	1.69	0.97	1.15
3.25	2.66	3.00	AK32QT / MAL32	121018	1B	0.38	0.75	1.69	0.97	1.30
3.45	2.86	3.20	AK34QT / MAL34	121019	1B	0.09	0.75	1.69	0.69	1.20
3.75	3.16	3.50	AK39QT / MAL37	121020	1B	0.09	0.75	1.69	0.69	1.50
3.95	3.36	3.70	AK41QT / MAL39	121021	1B	0.09	0.75	1.69	0.69	1.75
4.25	3.66	4.00	AK44QT / MAL42	121022	1B	0.09	0.75	1.69	0.69	2.05
4.45	3.86	4.20	AK46QT / MAL44	121023	1B	0.09	0.75	1.69	0.69	2.25
4.75	4.16	4.50	AK49QT / MAL47	121024	3W	0.09	0.75	1.69	0.69	2.10
4.95	4.36	4.70	AK51QT / MAL49	121025	3W	0.09	0.75	1.69	0.69	2.35
5.25	4.66	5.00	AK54QT / MAL52	121026	3W	0.09	0.75	1.69	0.69	2.65
5.45	4.86	5.20	AK56QT / MAL54	121027	3W	0.09	0.75	1.69	0.69	2.75
5.75	5.16	5.50	AK59QT / MAL57	121028	5A	0.09	0.75	1.69	0.69	2.60
5.95	5.36	5.70	AK61QT / MAL59	121029	5A	0.09	0.75	1.69	0.69	2.50
6.25	5.66	6.00	AK64QT / MAL62	121030	5A	0.09	0.75	1.69	0.69	2.60
6.45	5.86	6.20	AK66QT / MAL64	121031	5A	0.09	0.75	1.69	0.69	2.70
6.75	6.16	6.50	AK69QT / MAL67	121032	5A	0.09	0.75	1.69	0.69	2.85
6.95	6.36	6.70	AK71QT / MAL69	121033	5A	0.09	0.75	1.69	0.69	2.90
7.25	6.66	7.00	AK74QT / MAL72	121034	5A	0.09	0.75	1.69	0.69	3.10
7.75	7.16	7.50	AK79QT / MAL77	121035	5A	0.09	0.75	1.69	0.69	3.35
8.25	7.66	8.00	AK84QT / MAL82	121036	5A	0.13	0.75	1.69	0.72	3.85
8.75	8.16	8.50	AK89QT / MAL87	121037	5A	0.09	0.75	1.69	0.69	4.10
9.25	8.66	9.00	AK94QT / MAL92	121038	5A	0.09	0.75	1.69	0.69	4.40
9.75	9.16	9.50	AK99QT / MAL97	121039	5A	0.09	0.75	1.69	0.69	4.60
10.25	9.66	10.00	AK104QT / MAL102	121040	5A	0.09	0.75	1.69	0.69	4.90
10.75	10.16	10.50	AK109QT / MAL107	121041	5A	0.09	0.75	1.69	0.69	5.20
11.25	10.66	11.00	AK114QT / MAL112	121042	5A	0.09	0.75	1.69	0.34	5.55
12.25	11.66	12.00	AK124QT / MAL122	121043	5A	0.09	0.75	1.69	0.69	5.90
13.25	12.66	13.00	AK134QT / MAL132	121044	5A	0.09	0.75	1.69	0.69	6.55
14.25	13.66	14.00	AK144QT / MAL142	121045	5A	0.09	0.75	1.69	0.69	7.30
15.25	14.66	15.00	AK154QT / MAL152	121046	5A	0.09	0.75	1.69	0.69	9.80
18.25	17.66	18.00	AK184QT / MAL182	121529	5A	0.09	0.75	1.69	0.69	9.95

P.D. for "3L Belt = D.D. + .25" = O.D. - .34"

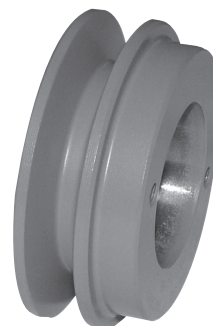
P.D. for "A (4L)" is same as O.D

**NOTE:** See Bushing section for bores/part numbers of QT Bushings used with these Sheaves

## QT(L)-Bushings

Size	Part No.	Size	Part No.
<b>Bore/Keyway</b>		<b>Integral Key</b>	
QT x 3/8-NKS	121129	QT x 3/4-IK	121162
QT x 7/16-NKS	121130	QT x 7/8-IK	121163
QT x 1/2-KW	121131	QT x 1-IK	121164
QT x 9/16-KW	121133	QT x 1-1/8-IK	121186
QT x 5/8-KW	122050	QT x 1-3/16-IK	121187
<b>Metric</b>		<b>Reborable</b>	
QT x 11/16-KW	121134	QT x 3/8-NKS	120595
QT x 3/4-KW	122051		
QT x 13/16-KW	121136		
QT x 7/8-KW	122052		
QT x 15/16-KW	121138		
QT x 1-KW	122053		
QT x 1-1/16-KW	121140		
QT x 1-1/8-KW	122054		
QT x 13/16-KW	122055		
QT x 1-1/4-KW	122056		
QT x 15/16-KW	121144		
QT x 1-3/8-KW	121145		
QT x 17/16-KW	121146		
QT x 1-1/2-KW	121147		

**NOTE:** INSTALLATION SCREW SIZE=1/4-20X7/8  
TORQUE=55 LB-IN



## 2AK (A V-BELTS) 2 GROOVE

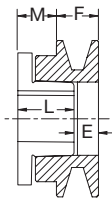
O.D.	D.D. A Belts	SHV NO	P/N	Type	Dimensions				Approx Wgt
					E	F	L	M	
3.05	2.80	2AK30QT / 2MAL30	121048	2B	1.00	1.38	1.34	.97	1.70
3.25	3.00	2AK32QT / 2MAL32	121049	2B	1.00	1.38	1.34	.97	1.90
3.45	3.20	2AK34QT / 2MAL34	121050	2B	.72	1.38	1.34	.69	1.90
3.75	3.50	2AK39QT / 2MAL37	121051	2B	.72	1.38	1.34	.69	2.15
3.95	3.70	2AK41QT / 2MAL39	121052	4B	.09	1.38	1.34	0.06	2.30
4.25	4.00	2AK44QT / 2MAL42	121053	4B	.09	1.38	1.34	0.06	2.75
4.45	4.20	2AK46QT / 2MAL44	121054	4W	.09	1.38	1.34	0.06	2.85
4.75	4.50	2AK49QT / 2MAL47	121055	4W	.09	1.38	1.34	0.06	3.50
4.95	4.70	2AK51QT / 2MAL49	121056	4W	.09	1.38	1.34	0.06	3.70
5.25	5.00	2AK54QT / 2MAL52	121057	4W	.09	1.38	1.34	0.06	4.05
5.45	5.20	2AK56QT / 2MAL54	121058	4W	.09	1.38	1.34	0.06	4.20
5.75	5.50	2AK59QT / 2MAL57	121059	6A	.09	1.38	1.34	0.06	3.90
5.95	5.70	2AK61QT / 2MAL59	121060	6A	.09	1.38	1.34	0.06	4.05
6.25	6.00	2AK64QT / 2MAL62	121061	6A	.09	1.38	1.34	0.06	4.50
7.25	7.00	2AK74QT / 2MAL72	121062	6A	.09	1.38	1.34	0.06	5.70
8.25	8.00	2AK84QT / 2MAL82	121063	6A	.09	1.38	1.34	0.06	6.50
9.25	9.00	2AK94QT / 2MAL92	121064	6A	.09	1.38	1.34	0.06	7.80
10.25	10.00	2AK104QT / 2MAL102	121065	6A	.09	1.38	1.34	0.06	8.80
11.25	11.00	2AK114QT / 2MAL112	121066	6A	.09	1.38	1.34	0.06	9.50
12.25	12.00	2AK124QT / 2MAL122	121067	6A	.09	1.38	1.34	0.06	10.60
13.25	13.00	2AK134QT / 2MAL132	121068	6A	.09	1.38	1.34	0.06	11.90
14.25	14.00	2AK144QT / 2MAL142	121069	6A	.09	1.38	1.34	0.06	12.45
15.25	15.00	2AK154QT / 2MAL152	121070	6A	.09	1.38	1.34	0.06	14.00
18.25	18.00	2AK184QT / 2MAL182	121008	6A	.09	1.38	1.25	0.06	17.95

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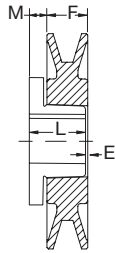


## SELECTION/DIMENSIONS

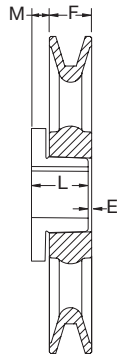
### QT-Bushed Sheaves



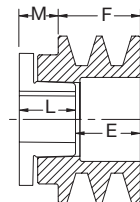
TYPE 1



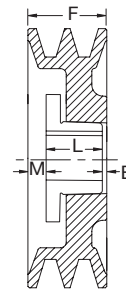
TYPE 3



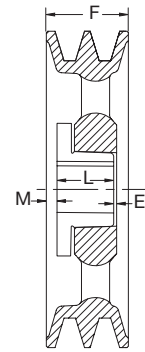
TYPE 5



TYPE 2



TYPE 4



TYPE 6

#### BK (A (3L) & B (4L) V-BELTS) 1 GROOVE

O.D.	Datum Dia.		SHV NO	P/N	Type	Dimensions				Approx Wgt
	3L	A (4L)				E	F	L	M	
3.15	2.40	2.80	BK30QT / MBL31	121072	1B	.53	.91	1.34	.98	1.25
3.35	2.60	3.00	BK32QT / MBL33	121073	1B	.53	.91	1.34	.98	1.40
3.55	2.80	3.20	BK34QT / MBL35	121074	1B	.53	.91	1.34	.98	1.65
3.75	3.00	3.40	BK36QT / MBL37	121075	1B	.09	.91	1.34	.53	1.40
3.95	3.20	3.60	BK40QT / MBL39	121076	1B	.09	.91	1.34	.53	1.70
4.25	3.50	3.90	BK45QT / MBL42	121077	1B	.09	.91	1.34	.53	2.05
4.45	3.70	4.10	BK47QT / MBL44	121078	1B	.09	.91	1.34	.53	2.35
4.75	4.00	4.40	BK50QT / MBL47	121079	3W	.09	.91	1.34	.53	1.95
4.95	4.20	4.60	BK52QT / MBL49	121080	3W	.09	.91	1.34	.53	2.40
5.25	4.50	4.90	BK55QT / MBL52	121081	3W	.09	.91	1.34	.53	2.35
5.45	4.70	5.10	BK57QT / MBL54	121082	3W	.09	.91	1.34	.53	2.90
5.75	5.00	5.40	BK60QT / MBL57	121083	3W	.09	.91	1.34	.53	2.45
5.95	5.20	5.60	BK62QT / MBL59	121084	5A	.09	.91	1.34	.53	2.80
6.25	5.50	5.90	BK65QT / MBL62	121085	5A	.09	.91	1.34	.53	2.70
6.45	5.70	6.10	BK67QT / MBL64	121086	5A	.09	.91	1.34	.53	2.80
6.75	6.00	6.40	BK70QT / MBL67	121087	5A	.09	.91	1.34	.53	3.00
6.95	6.20	6.60	BK72QT / MBL69	121088	5A	.09	.91	1.34	.53	3.60
7.25	6.50	6.90	BK75QT / MBL72	121089	5A	.09	.91	1.34	.53	3.45
7.45	6.70	7.10	BK77QT / MBL74	121090	5A	.09	.91	1.34	.53	3.65
7.75	7.00	7.40	BK80QT / MBL77	121091	5A	.09	.91	1.34	.53	3.80
8.25	7.50	7.90	BK85QT / MBL82	121092	5A	.09	.91	1.34	.53	4.55
8.75	8.00	8.40	BK90QT / MBL87	121093	5A	.09	.91	1.34	.53	5.10
9.25	8.50	8.90	BK95QT / MBL92	121094	5A	.09	.91	1.34	.53	5.30
9.75	9.00	9.40	BK100QT / MBL97	121095	5A	.09	.91	1.34	.53	5.80
10.25	9.50	9.90	BK105QT / MBL102	121096	5A	.09	.91	1.34	.53	5.50
10.75	10.00	10.40	BK110QT / MBL107	121097	5A	.09	.91	1.34	.53	5.85
11.25	10.50	10.90	BK115QT / MBL112	121098	5A	.09	.91	1.34	.53	7.20
11.75	11.00	11.40	BK120QT / MBL117	121099	5A	.09	.91	1.34	.53	6.59
12.75	12.00	12.40	BK130QT / MBL127	121100	5A	.09	.91	1.34	.53	7.90
13.75	13.00	13.40	BK140QT / MBL137	121101	5A	.09	.91	1.34	.53	10.15
14.75	14.00	14.40	BK150QT / MBL147	121102	5A	.09	.91	1.34	.53	13.25
15.75	15.00	15.40	BK160QT / MBL157	121103	5A	.09	.91	1.34	.53	16.05
18.75	18.00	18.40	BK190QT / MBL187	121009	5A	.09	.91	1.34	.53	12.45

P.D. for "A (4L)" Belts = D.D. + .35" = O.D. -.40"

P.D. for "B (5L)" is same as O.D

**NOTE:** See Bushing section for bores/part numbers of QT Bushings used with these Sheaves

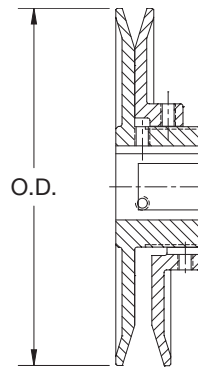
#### 2BK (A & B V-BELTS) 2 GROOVE

O.D.	Datum Dia.		SHV NO	P/N	Type	Dimensions				Approx Wgt
	A	B				E	F	L	M	
3.35	2.60	3.00	2BK32QT / 2MBL33	121105	2B	1.38	1.75	1.34	.97	2.35
3.55	2.80	3.20	2BK34QT / 2MBL35	121106	2B	1.38	1.75	1.34	.97	2.55
3.75	3.00	3.40	2BK36QT / 2MBL37	121107	2B	1.38	1.75	1.34	.97	3.00
3.95	3.20	3.60	2BK40QT / 2MBL39	121108	2B	.94	1.75	1.34	.53	2.80
4.25	3.50	3.90	2BK45QT / 2MBL42	121109	2B	.94	1.75	1.34	.53	3.25
4.45	3.70	4.10	2BK47QT / 2MBL44	121110	2B	.94	1.75	1.34	.53	3.35
4.75	4.00	4.40	2BK50QT / 2MBL47	121111	2B	.09	1.75	1.34	.31	3.85
4.95	4.20	4.60	2BK52QT / 2MBL49	121112	4W	.09	1.75	1.34	.31	4.00
5.25	4.50	4.90	2BK55QT / 2MBL52	121113	4W	.09	1.75	1.34	.31	4.40
5.45	4.70	5.10	2BK57QT / 2MBL54	121114	4W	.09	1.75	1.34	.31	4.95
5.75	5.00	5.40	2BK60QT / 2MBL57	121115	4W	.09	1.75	1.34	.31	5.30
5.95	5.20	5.60	2BK62QT / 2MBL59	121116	4W	.09	1.75	1.34	.31	5.80
6.25	5.50	5.90	2BK65QT / 2MBL62	121117	4W	.06	1.75	1.34	.34	5.40
6.45	5.70	6.10	2BK67QT / 2MBL64	121118	6A	.06	1.75	1.34	.34	5.85
6.75	6.00	6.40	2BK70QT / 2MBL67	121119	6A	.06	1.75	1.34	.34	5.55
6.95	6.20	6.60	2BK72QT / 2MBL69		6A	.06	1.75	1.34	.34	6.65
7.75	7.00	7.40	2BK80QT / 2MBL77	121120	6A	.06	1.75	1.34	.34	6.85
8.75	8.00	8.40	2BK90QT / 2MBL87	121121	6A	.06	1.75	1.34	.34	9.65
9.75	9.00	9.40	2BK100QT / 2MBL97	121122	6A	.06	1.75	1.34	.34	9.20
10.75	10.00	10.40	2BK110QT / 2MBL107	121123	6A	.06	1.75	1.34	.34	12.80
11.75	11.00	11.40	2BK120QT / 2MBL117	121124	6A	.06	1.75	1.34	.34	14.65
12.75	12.00	12.40	2BK130QT / 2MBL127	121125	6A	.06	1.75	1.34	.34	14.15
13.75	13.00	13.40	2BK140QT / 2MBL137	121126	6A	.06	1.75	1.34	.34	14.95
15.75	15.00	15.40	2BK160QT / 2MBL157	121127	6A	.06	1.75	1.34	.34	18.70
18.75	18.00	18.40	2BK190QT / 2MBL187	121016	6A	.06	1.75	1.34	.34	24.20



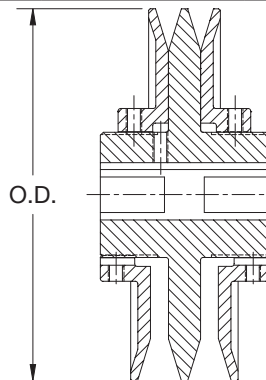
# SELECTION/DIMENSIONS

## Variable Pitch Sheaves



**ONE GROOVE**

SHV NO.	O.D.	Overall Length	WT LBS	Stock Bores									MAX BORE		
				1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8			
1VP25	2.58	1.59	0.7	<b>127400</b>											0.75
1VP30	2.87	1.66	1.1	<b>121203</b>	<b>121207</b>	<b>127401</b>									0.75
1VP34	3.15	1.88	1.4	<b>121208</b>	<b>121209</b>	<b>121210</b>	<b>121211</b>								1.13
1VP40	3.75	1.88	1.9	<b>121212</b>	<b>121213</b>	<b>121214</b>	<b>121215</b>								1.13
1VP44	4.15	1.88	2.4	<b>121216</b>	<b>121217</b>	<b>121218</b>	<b>121219</b>	<b>121220</b>	<b>121221</b>						1.13
1VP50	4.75	1.88	3.6	<b>121222</b>	<b>121223</b>	<b>121224</b>	<b>121225</b>	<b>121226</b>	<b>121227</b>						1.13
1VP56	5.35	1.88	4.4	<b>121228</b>	<b>121229</b>	<b>121230</b>	<b>121231</b>	<b>121232</b>	<b>121233</b>						1.13
1VP60	6.00	1.66	6.5			<b>127402</b>	<b>127403</b>		<b>127404</b>						1.63
1VP62	5.95	1.91	6.7		<b>127405</b>	<b>121234</b>	<b>121235</b>	<b>121236</b>	<b>121237</b>	<b>121239</b>	<b>121240</b>				1.63
1VP65	6.50	1.66	6.8			<b>127406</b>	<b>127407</b>		<b>127441</b>						1.63
1VP68	6.55	1.91	7.3		<b>127408</b>	<b>121241</b>	<b>121242</b>	<b>121243</b>	<b>121244</b>	<b>121246</b>	<b>121247</b>				1.63
1VP71	7.10	1.66	8.5			<b>127409</b>	<b>127410</b>		<b>127411</b>						1.63
1VP75	7.50	1.66	9.2			<b>121248</b>	<b>121249</b>		<b>121251</b>						1.63



**TWO GROOVE**

SHV NO.	O.D.	Overall Length	WT LBS	Stock Bores									MAX BORE		
				1/2	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-5/8			
2VP36	3.35	3.00	3.4	<b>127412</b>	<b>127413</b>	<b>127414</b>	<b>127415</b>	<b>127416</b>							1.13
2VP42	3.95	3.00	4.4		<b>127417</b>	<b>127418</b>	<b>127419</b>	<b>127420</b>	<b>127421</b>						1.13
2VP50	4.75	3.00	6.3		<b>121266</b>	<b>121267</b>	<b>121268</b>	<b>121269</b>	<b>121270</b>						1.13
2VP56	5.35	3.00	7.8		<b>121271</b>	<b>121272</b>	<b>121273</b>	<b>121274</b>	<b>121275</b>						1.63
2VP60	6.00	3.25	10.6			<b>127431</b>	<b>127432</b>		<b>127434</b>		<b>127435</b>	<b>127444</b>			1.63
2VP62	5.95	3.00	11.0			<b>121276</b>	<b>121277</b>	<b>121278</b>	<b>121279</b>	<b>127422</b>	<b>121295</b>				1.63
2VP65	6.50	3.25	12.3			<b>127423</b>	<b>127424</b>		<b>127425</b>		<b>127426</b>	<b>127445</b>			1.63
2VP68	6.55	3.00	12.7				<b>121281</b>	<b>121282</b>	<b>121283</b>	<b>121285</b>	<b>121286</b>				1.63
2VP71	7.10	3.25	14.6			<b>127427</b>	<b>127428</b>		<b>127429</b>		<b>127430</b>	<b>127446</b>			1.63
2VP75	7.50	3.25	16.5			<b>121287</b>	<b>121288</b>		<b>121290</b>		<b>121293</b>	<b>127447</b>			1.63

Bore	Keyseat
1/2	None
5/8 to 7/8	3/16 x 3/32
15/16 to 1-1/4	1/4 x 1/8
1-5/16 - 1-3/8	5/16 x 5/32

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# SELECTION

## FHP Fixed Speed Drives

### PROCEDURE

- 1. Calculate the Drive Ratio:** DriveR RPM divided by DriveN RPM.
- 2. Calculate the Design Horsepower:** Multiply motor HP by the “combined Correction Factor” listed below. If the exact type of machine is not listed, use the one that most nearly matches the application.
- 3. Select DriveR Sheave:** In the HP Rating Tables, scan the RPM column for the HP rating that is equal to or greater than the Design HP calculated in Step 2. The DriveR sheave size is listed in the left-hand column. Normally the smallest diameter sheave alternative that covers the Design HP will result in the most economical drive.
- 4. Select the DriveN Sheave:** Refer to the appropriate “Ratio Table”. Choose the DriveN Sheave at the intersection of the calculated ratio and the DriveR Sheave.
- 5. Select Belt Length:** Add DriveR and DriveN sheave diameters. Locate this number on the top row of the Center Distance Table. Trace down to the desired center distance in this column. The appropriate belt length will be listed in the left hand column. Belt length is indicated by the belt nomenclature: e.g., 4L350 is 35.0” long, 5L530 is 53.0” long, B36 is 36” long, etc.

**NOTE:** This procedure will provide approximate center distance. For more accurate results, refer to the “Non-Standard Drive Selection Procedure” for S-L Classic V-Drives.

**6. Two Belt Drives:** If the Design Horsepower is greater than the belt listed belt rating, divide the DHP by two, and proceed as though it were a single belt drive. **CAUTION:** FHP belts are not matched, and are therefore not normally recommended for two-belt drives. A, B, AX, or BX belts are matched and may be substituted. Also, these classical belts may have a significantly higher HP rating, which could allow for a more economical single belt drive.

Driven Machine	Speed Ratio	
	Under 1.5	1.5 and Over
Fans & Blowers	1.0	0.9
Domestic Laundry Mach.	1.1	1.0
Centrifugal Pumps	1.1	1.0
Generators	1.2	1.1
Rotary Compressors	1.3	1.1
Machine Tools	1.3	1.2
Reciprocating Pumps	1.4	1.3
Recip. Compressors	1.4	1.3
Woodworking Machy.	1.4	1.3

## Horsepower Ratings

Small Shv.	Belt Horsepower Rating for RPM of Faster Shaft **											
	1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
1.50	0.07	0.09	0.11	0.07	0.09	0.10	0.11	0.11	0.11	0.11	0.10	0.09
1.75	0.13	0.17	0.25	0.12	0.15	0.19	0.21	0.23	0.25	0.26	0.26	0.26
2.00	0.18	0.25	0.38	0.16	0.22	0.27	0.31	0.35	0.38	0.40	0.42	0.42
2.25	0.23	0.32	0.50	0.21	0.29	0.35	0.41	0.46	0.50	0.54	0.56	0.57
2.50	0.28	0.39	0.62	0.25	0.35	0.43	0.51	0.57	0.62	0.66	0.68	0.69
2.75	0.34	0.46	0.73	0.30	0.41	0.51	0.60	0.68	0.74	0.78	0.80	0.80
3.00	0.39	0.54	0.83	0.34	0.47	0.59	0.69	0.78	0.84	0.88	0.90	0.89

\*\*Synchronous belt drives are suggested for lower RPM's.

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# SELECTION

## Horsepower Ratings

### 4L, A, AX Section Belts

Small Shv. O.D.	Belt Section	Belt Horsepower Rating for RPM of Faster Shaft **											
		1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
2.00*	4L	0.12	0.12	0.02	0.11	0.12	0.11	0.09	0.06	0.02	-	-	-
	A	-	-	-	-	-	-	-	-	-	-	-	-
	AX	-	1.24	1.40	-	-	1.30	1.38	1.42	1.40	1.35	1.25	1.08
2.25*	4L	0.23	0.28	0.30	0.21	0.26	0.30	0.31	0.31	0.30	0.27	0.22	0.15
	A	-	1.17	1.60	-	-	1.26	1.40	1.52	1.60	1.64	1.65	1.62
	AX	-	1.58	1.98	-	1.23	1.68	1.83	1.94	1.98	1.98	1.92	1.82
2.50	4L	0.34	0.44	0.57	0.31	0.40	0.47	0.53	0.56	0.57	0.56	0.54	0.47
	A	-	1.55	2.26	-	1.40	1.60	1.91	2.11	2.31	2.42	2.50	2.48
	AX	-	2.05	2.73	-	1.87	2.19	2.52	2.69	2.74	2.83	2.85	2.83
2.75	4L	0.45	0.60	0.83	0.41	0.54	0.65	0.73	0.79	0.83	0.83	0.81	0.78
	A	-	1.92	2.61	-	1.74	2.21	2.39	2.68	2.89	3.03	3.12	3.18
	AX	-	2.50	3.53	-	2.31	2.72	3.13	3.40	3.57	3.70	3.84	3.91
3.00	4L	0.56	0.75	1.07	0.50	0.67	0.82	0.94	1.02	1.07	1.09	1.07	1.01
	A	1.68	2.23	3.34	-	1.97	2.42	2.78	3.09	3.41	3.52	3.64	3.67
	AX	2.22	2.90	4.14	-	2.63	3.14	3.58	3.89	4.01	4.40	4.59	4.71
3.25	4L	0.67	0.90	1.30	0.60	0.81	0.99	1.13	1.24	1.31	1.33	1.30	1.23
	A	1.97	2.61	3.79	-	2.37	2.85	3.24	3.57	3.78	3.95	4.08	4.11
	AX	2.45	3.25	4.81	-	2.88	3.57	3.94	4.41	4.78	5.12	5.31	5.47
3.5	4L	0.77	1.05	1.52	0.69	0.94	1.15	1.32	1.45	1.53	1.55	1.51	1.41
	A	2.32	3.13	4.66	2.07	2.81	3.42	3.93	4.35	4.65	4.84	4.90	4.83
	AX	2.79	3.68	5.68	2.51	3.31	4.01	4.61	5.19	5.64	6.08	6.37	6.54
3.75	4L	0.86	1.20	1.73	0.78	1.07	1.31	1.51	1.65	1.73	1.75	1.69	1.55
	A	2.63	3.58	5.35	-	3.17	3.90	4.51	4.98	5.31	5.56	5.67	5.63
	AX	3.05	4.06	6.43	-	3.66	4.44	5.20	5.87	6.41	6.87	7.09	7.40
4.00	4L	0.98	1.34	1.92	0.87	1.20	1.47	1.69	1.84	1.92	1.92	1.84	1.65
	A	2.94	4.01	6.02	2.62	3.58	4.40	4.10	5.64	6.04	6.29	6.37	6.28
	AX	3.34	4.46	7.14	3.00	3.95	4.93	5.78	6.52	7.13	7.64	7.98	8.19

### 5L, B, BX Section Belts

Small Shv. O.D.	Belt Section	Belt Horsepower Rating for RPM of Faster Shaft **											
		1160	1750	3450	1000	1500	2000	2500	3000	3500	4000	4500	5000
3.00*	5L	0.28	0.27	-	0.27	0.28	0.24	0.16	0.04	-	-	-	-
	B	1.35	1.58	1.28	-	1.51	1.62	1.61	1.50	1.27	0.95	0.45	-
	BX	2.90	3.72	5.16	-	3.38	4.02	4.51	4.90	5.15	5.31	5.33	5.25
3.25*	5L	0.46	0.52	0.28	0.43	0.50	1.52	0.49	0.41	0.26	0.04	-	-
	B	1.72	2.03	2.00	-	1.89	2.18	2.22	2.17	1.98	1.75	1.25	0.75
	BX	3.29	4.20	5.92	-	3.81	4.50	5.15	5.59	5.85	6.12	6.18	6.15
3.50	5L	0.63	0.77	0.65	0.58	0.72	0.80	0.82	0.76	0.63	0.42	0.12	-
	B	2.20	2.67	3.05	1.80	2.45	2.80	3.05	3.12	3.14	3.84	2.36	1.82
	BX	3.76	4.77	6.87	2.87	4.37	5.20	5.91	6.51	6.92	7.15	7.26	7.16
3.75	5L	0.81	1.01	1.00	0.74	0.94	1.07	1.13	1.10	0.99	0.77	0.44	-
	B	2.61	3.31	4.01	2.33	2.98	3.52	3.87	4.02	4.03	3.81	3.38	2.75
	BX	4.22	5.45	7.85	3.70	4.83	5.87	6.60	7.40	7.92	8.12	8.35	8.20
4.00	5L	0.98	1.25	1.33	0.89	1.15	1.33	1.43	1.43	1.31	1.08	0.71	0.19
	B	3.00	3.77	4.70	2.66	3.40	4.04	4.45	4.68	4.70	4.43	4.03	3.39
	BX	4.58	5.93	8.57	4.02	5.32	6.46	7.35	8.07	8.53	8.88	8.97	8.92
4.25	5L	1.15	1.49	1.63	1.04	1.36	1.59	1.72	1.73	1.62	1.35	0.93	0.33
	B	3.35	4.19	5.32	2.95	3.81	4.53	5.05	5.31	5.35	5.18	5.65	3.95
	BX	4.98	6.39	9.23	4.42	5.74	7.06	7.91	8.71	9.19	9.61	9.60	9.58
4.50	5L	1.32	1.72	1.91	1.19	1.57	1.84	2.00	2.02	1.89	1.59	1.10	0.39
	B	3.81	4.87	5.31	3.81	4.41	5.26	5.73	6.12	6.23	5.98	5.41	4.52
	BX	5.37	6.99	10.12	4.71	6.28	7.61	8.66	9.52	10.12	10.52	10.62	10.45
4.75	5L	1.49	1.95	2.16	1.34	1.77	2.09	2.27	2.29	2.14	1.79	1.21	0.38
	B	4.38	5.61	7.00	3.82	5.14	6.01	6.70	7.01	7.00	6.71	6.04	5.04
	BX	5.80	7.54	12.02	5.06	6.82	8.20	9.51	10.50	11.41	11.75	11.90	11.46
5.00	5L	1.66	2.17	2.39	1.49	1.98	2.33	2.53	2.55	2.36	1.94	1.26	0.28
	B	4.75	6.16	7.69	4.21	5.57	6.65	7.35	7.74	7.69	7.25	6.54	-
	BX	6.15	8.08	12.28	5.38	7.29	8.90	10.59	11.47	12.30	12.73	12.76	-

NOTES: \* These sizes are below min. recommended diameter

\*\* Synchronous belt drives are suggested for lower RPM's.

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# SELECTION

## Ratio Table

### AK, 2AK, AKQT, 2AKQT Sheave SERIES

Driven Shv.	Driver Sheave																	
	AK20	AK21	AK22	AK23	AK25	AK26	AK27	AK28	AK30	AK32	AK34	AK39	AK41	AK44	AK46	AK49	AK51	AK54
AK20	1.00	0.95	0.90	0.86	0.78	0.75	0.72	0.69	0.64	0.60	0.56	0.51	0.49	0.45	0.43	0.40	0.38	0.36
AK21	1.06	1.00	0.95	0.90	0.83	0.79	0.76	0.73	0.68	0.63	0.59	0.54	0.51	0.48	0.45	0.42	0.40	0.38
AK22	1.11	1.05	1.00	0.95	0.87	0.83	0.80	0.77	0.71	0.67	0.63	0.57	0.54	0.50	0.48	0.44	0.43	0.40
AK23	1.17	1.11	1.05	1.00	0.91	0.88	0.84	0.81	0.75	0.70	0.66	0.60	0.57	0.53	0.50	0.47	0.45	0.42
AK25	1.28	1.21	1.15	1.10	1.00	0.96	0.92	0.88	0.82	0.77	0.72	0.66	0.62	0.58	0.55	0.51	0.49	0.46
AK26	1.33	1.26	1.20	1.14	1.04	1.00	0.96	0.92	0.86	0.80	0.75	0.69	0.65	0.60	0.57	0.53	0.51	0.48
AK27	1.39	1.32	1.25	1.19	1.09	1.04	1.00	0.96	0.89	0.83	0.78	0.71	0.68	0.63	0.60	0.56	0.53	0.50
AK28	1.44	1.37	1.30	1.24	1.13	1.08	1.04	1.00	0.93	0.87	0.81	0.74	0.70	0.65	0.62	0.58	0.55	0.52
AK30	1.56	1.47	1.40	1.33	1.22	1.17	1.12	1.08	1.00	0.93	0.88	0.80	0.76	0.70	0.67	0.62	0.60	0.56
AK32	1.67	1.58	1.50	1.43	1.30	1.25	1.20	1.15	1.07	1.00	0.94	0.86	0.81	0.75	0.71	0.67	0.64	0.60
AK34	1.78	1.68	1.60	1.52	1.39	1.33	1.28	1.23	1.14	1.07	1.00	0.91	0.86	0.80	0.76	0.71	0.68	0.64
AK39	1.94	1.84	1.75	1.67	1.52	1.46	1.40	1.35	1.25	1.17	1.09	1.00	0.95	0.88	0.83	0.78	0.74	0.70
AK41	2.06	1.95	1.85	1.76	1.61	1.54	1.48	1.42	1.32	1.23	1.16	1.06	1.00	0.93	0.88	0.82	0.79	0.74
AK44	2.22	2.11	2.00	1.90	1.74	1.67	1.60	1.54	1.43	1.33	1.25	1.14	1.08	1.00	0.95	0.89	0.85	0.80
AK46	2.33	2.21	2.10	2.00	1.83	1.75	1.68	1.62	1.50	1.40	1.31	1.20	1.14	1.05	1.00	0.93	0.89	0.84
AK49	2.50	2.37	2.25	2.14	1.96	1.88	1.80	1.73	1.61	1.50	1.41	1.29	1.22	1.13	1.07	1.00	0.96	0.90
AK51	2.61	2.47	2.35	2.24	2.04	1.96	1.88	1.81	1.68	1.57	1.47	1.34	1.27	1.18	1.12	1.04	1.00	0.94
AK54	2.72	2.58	2.45	2.33	2.13	2.04	1.96	1.88	1.75	1.63	1.53	1.40	1.32	1.23	1.17	1.09	1.04	0.98
AK56	2.89	2.74	2.60	2.48	2.26	2.17	2.08	2.00	1.86	1.73	1.63	1.49	1.41	1.30	1.24	1.16	1.11	1.04
AK59	3.06	2.89	2.75	2.62	2.39	2.29	2.20	2.12	1.96	1.83	1.72	1.57	1.49	1.38	1.31	1.22	1.17	1.10
AK61	3.17	3.00	2.85	2.71	2.48	2.37	2.28	2.19	2.04	1.90	1.78	1.63	1.54	1.43	1.36	1.27	1.21	1.14
AK64	3.33	3.16	3.00	2.86	2.61	2.50	2.40	2.31	2.14	2.00	1.88	1.71	1.62	1.50	1.43	1.33	1.28	1.20
AK66	3.44	3.26	3.10	2.95	2.70	2.58	2.48	2.38	2.21	2.07	1.94	1.77	1.68	1.55	1.48	1.38	1.32	1.24
AK69	3.61	3.42	3.25	3.10	2.83	2.71	2.60	2.50	2.32	2.17	2.03	1.86	1.76	1.63	1.55	1.44	1.38	1.30
AK71	3.72	3.53	3.35	3.19	2.91	2.79	2.68	2.58	2.39	2.23	2.09	1.91	1.81	1.68	1.60	1.49	1.43	1.34
AK74	3.89	3.68	3.50	3.33	3.04	2.92	2.80	2.69	2.50	2.33	2.19	2.00	1.89	1.75	1.67	1.56	1.49	1.40
AK79	4.17	3.95	3.75	3.57	3.26	3.13	3.00	2.88	2.68	2.50	2.34	2.14	2.03	1.88	1.79	1.67	1.60	1.50
AK84	4.44	4.21	4.00	3.81	3.48	3.33	3.20	3.08	2.86	2.67	2.50	2.29	2.16	2.00	1.90	1.78	1.70	1.60
AK89	4.72	4.47	4.25	4.05	3.70	3.54	3.40	3.27	3.04	2.83	2.66	2.43	2.30	2.13	2.02	1.89	1.81	1.70
AK94	5.00	4.74	4.50	4.29	3.91	3.75	3.60	3.46	3.21	3.00	2.81	2.57	2.43	2.25	2.14	2.00	1.91	1.80
AK99	5.28	5.00	4.75	4.52	4.13	3.96	3.80	3.65	3.39	3.17	2.97	2.71	2.57	2.38	2.26	2.11	2.02	1.90
AK104	5.56	5.26	5.00	4.76	4.35	4.17	4.00	3.85	3.57	3.33	3.13	2.86	2.70	2.50	2.38	2.22	2.13	2.00
AK109	5.89	5.58	5.30	5.05	4.61	4.42	4.24	4.08	3.79	3.53	3.31	3.03	2.86	2.65	2.52	2.36	2.26	2.12
AK114	6.11	5.79	5.50	5.24	4.78	4.58	4.40	4.23	3.93	3.67	3.44	3.14	2.97	2.75	2.62	2.44	2.34	2.20
AK124	6.67	6.32	6.00	5.71	5.22	5.00	4.80	4.62	4.29	4.00	3.75	3.43	3.24	3.00	2.86	2.67	2.55	2.40
AK134	7.22	6.84	6.50	6.19	5.65	5.42	5.20	5.00	4.64	4.33	4.06	3.71	3.51	3.25	3.10	2.89	2.77	2.60
AK144	7.78	7.37	7.00	6.67	6.09	5.83	5.60	5.38	5.00	4.67	4.38	4.00	3.78	3.50	3.33	3.11	2.98	2.80
AK154	8.33	7.89	7.50	7.14	6.52	6.25	6.00	5.77	5.36	5.00	4.69	4.29	4.05	3.75	3.57	3.33	3.19	3.00
AK184	10.0	9.47	9.00	8.57	7.83	7.50	7.20	6.92	6.43	6.00	5.63	5.14	4.86	4.50	4.29	4.00	3.83	3.60



# SELECTION

## Ratio Table

BK, 2BK, BKQT, 2BKQT SERIES																					
Driven Shv.	Driver Sheave																				
	BK23	BK24	BK25	BK26	BK27	BK28	BK30	BK31	BK32	BK34	BK36	BK40	BK45	BK47	BK50	BK52	BK55	BK57	BK60	BK62	BK65
BK23	1.00	0.95	0.91	0.88	0.84	0.81	0.75	0.72	0.70	0.66	0.62	0.58	0.54	0.51	0.48	0.46	0.43	0.41	0.39	0.38	0.36
BK24	1.05	1.00	0.96	0.92	0.88	0.85	0.79	0.76	0.73	0.69	0.65	0.61	0.56	0.54	0.50	0.48	0.45	0.43	0.41	0.39	0.37
BK25	1.10	1.05	1.00	0.96	0.92	0.88	0.82	0.79	0.77	0.72	0.68	0.64	0.59	0.56	0.52	0.50	0.47	0.45	0.43	0.41	0.39
BK26	1.14	1.09	1.04	1.00	0.96	0.92	0.86	0.83	0.80	0.75	0.71	0.67	0.62	0.59	0.55	0.52	0.49	0.47	0.44	0.43	0.41
BK27	1.19	1.14	1.09	1.04	1.00	0.96	0.89	0.86	0.83	0.78	0.74	0.69	0.64	0.61	0.57	0.54	0.51	0.49	0.46	0.45	0.42
BK28	1.24	1.18	1.13	1.08	1.04	1.00	0.93	0.90	0.87	0.81	0.76	0.72	0.67	0.63	0.59	0.57	0.53	0.51	0.48	0.46	0.44
BK30	1.33	1.27	1.22	1.17	1.12	1.08	1.00	0.97	0.93	0.88	0.82	0.78	0.72	0.68	0.64	0.61	0.57	0.55	0.52	0.50	0.47
BK31	1.38	1.32	1.26	1.21	1.16	1.12	1.04	1.00	0.97	0.91	0.85	0.81	0.74	0.71	0.66	0.63	0.59	0.57	0.54	0.52	0.49
BK32	1.43	1.36	1.30	1.25	1.20	1.15	1.07	1.03	1.00	0.94	0.88	0.83	0.77	0.73	0.68	0.65	0.61	0.59	0.56	0.54	0.51
BK34	1.52	1.45	1.39	1.33	1.28	1.23	1.14	1.10	1.07	1.00	0.94	0.89	0.82	0.78	0.73	0.70	0.65	0.63	0.59	0.57	0.54
BK36	1.62	1.55	1.48	1.42	1.36	1.31	1.21	1.17	1.13	1.06	1.00	0.94	0.87	0.83	0.77	0.74	0.69	0.67	0.63	0.61	0.58
BK40	1.71	1.64	1.57	1.50	1.44	1.38	1.29	1.24	1.20	1.13	1.06	1.00	0.92	0.88	0.82	0.78	0.73	0.71	0.67	0.64	0.61
BK45	1.86	1.77	1.70	1.63	1.56	1.50	1.39	1.34	1.30	1.22	1.15	1.08	1.00	0.95	0.89	0.85	0.80	0.76	0.72	0.70	0.66
BK47	1.95	1.86	1.78	1.71	1.64	1.58	1.46	1.41	1.37	1.28	1.21	1.14	1.05	1.00	0.93	0.89	0.84	0.80	0.76	0.73	0.69
BK50	2.10	2.00	1.91	1.83	1.76	1.69	1.57	1.52	1.47	1.38	1.29	1.22	1.13	1.07	1.00	0.96	0.90	0.86	0.81	0.79	0.75
BK52	2.19	2.09	2.00	1.92	1.84	1.77	1.64	1.59	1.53	1.44	1.35	1.28	1.18	1.12	1.05	1.00	0.94	0.90	0.85	0.82	0.78
BK55	2.33	2.23	2.13	2.04	1.96	1.88	1.75	1.69	1.63	1.53	1.44	1.36	1.26	1.20	1.11	1.07	1.00	0.96	0.91	0.88	0.83
BK57	2.43	2.32	2.22	2.12	2.04	1.96	1.82	1.76	1.70	1.59	1.50	1.42	1.31	1.24	1.16	1.11	1.04	1.00	0.94	0.91	0.86
BK60	2.57	2.45	2.35	2.25	2.16	2.08	1.93	1.86	1.80	1.69	1.59	1.50	1.38	1.32	1.23	1.17	1.10	1.06	1.00	0.96	0.92
BK62	2.67	2.55	2.43	2.33	2.24	2.15	2.00	1.93	1.87	1.75	1.65	1.56	1.44	1.37	1.27	1.22	1.14	1.10	1.04	1.00	0.95
BK65	2.81	2.68	2.57	2.46	2.36	2.27	2.11	2.03	1.97	1.84	1.74	1.64	1.51	1.44	1.34	1.28	1.20	1.16	1.09	1.05	1.00
BK67	2.90	2.77	2.65	2.54	2.44	2.35	2.18	2.10	2.03	1.91	1.79	1.69	1.56	1.49	1.39	1.33	1.24	1.20	1.13	1.09	1.03
BK70	3.05	2.91	2.78	2.67	2.56	2.46	2.29	2.21	2.13	2.00	1.88	1.78	1.64	1.56	1.45	1.39	1.31	1.25	1.19	1.14	1.08
BK72	3.14	3.00	2.87	2.75	2.64	2.54	2.36	2.28	2.20	2.06	1.94	1.83	1.69	1.61	1.50	1.43	1.35	1.29	1.22	1.18	1.12
BK75	3.29	3.14	3.00	2.88	2.76	2.65	2.46	2.38	2.30	2.16	2.03	1.92	1.77	1.68	1.57	1.50	1.41	1.35	1.28	1.23	1.17
BK77	3.38	3.23	3.09	2.96	2.84	2.73	2.54	2.45	2.37	2.22	2.09	1.97	1.82	1.73	1.61	1.54	1.45	1.39	1.31	1.27	1.20
BK80	3.52	3.36	3.22	3.08	2.96	2.85	2.64	2.55	2.47	2.31	2.18	2.06	1.90	1.80	1.68	1.61	1.51	1.45	1.37	1.32	1.25
BK85	3.76	3.59	3.43	3.29	3.16	3.04	2.82	2.72	2.63	2.47	2.32	2.19	2.03	1.93	1.80	1.72	1.61	1.55	1.46	1.41	1.34
BK90	4.00	3.82	3.65	3.50	3.36	3.23	3.00	2.90	2.80	2.63	2.47	2.33	2.15	2.05	1.91	1.83	1.71	1.65	1.56	1.50	1.42
BK95	4.24	4.05	3.87	3.71	3.56	3.42	3.18	3.07	2.97	2.78	2.62	2.47	2.28	2.17	2.02	1.93	1.82	1.75	1.65	1.59	1.51
BK100	4.48	4.27	4.09	3.92	3.76	3.62	3.36	3.24	3.13	2.94	2.76	2.61	2.41	2.29	2.14	2.04	1.92	1.84	1.74	1.68	1.59
BK105	4.71	4.50	4.30	4.12	3.96	3.81	3.54	3.41	3.30	3.09	2.91	2.75	2.54	2.41	2.25	2.15	2.02	1.94	1.83	1.77	1.68
BK110	4.95	4.73	4.52	4.33	4.16	4.00	3.71	3.59	3.47	3.25	3.06	2.89	2.67	2.54	2.36	2.26	2.12	2.04	1.93	1.86	1.76
BK115	5.19	4.95	4.74	4.54	4.36	4.19	3.89	3.76	3.63	3.41	3.21	3.03	2.79	2.66	2.48	2.37	2.22	2.14	2.02	1.95	1.85
BK120	5.43	5.18	4.96	4.75	4.56	4.38	4.07	3.93	3.80	3.56	3.35	3.17	2.92	2.78	2.59	2.48	2.33	2.24	2.11	2.04	1.93
BK130	5.90	5.64	5.39	5.17	4.96	4.77	4.43	4.28	4.13	3.88	3.65	3.44	3.18	3.02	2.82	2.70	2.53	2.43	2.30	2.21	2.10
BK140	6.38	6.09	5.83	5.58	5.36	5.15	4.79	4.62	4.47	4.19	3.94	3.72	3.44	3.27	3.05	2.91	2.73	2.63	2.48	2.39	2.27
BK160	7.33	7.00	6.70	6.42	6.16	5.92	5.50	5.31	5.13	4.81	4.53	4.28	3.95	3.76	3.50	3.35	3.14	3.02	2.85	2.75	2.61
BK190	8.76	8.36	8.00	7.67	7.36	7.08	6.57	6.34	6.13	5.75	5.41	5.11	4.72	4.49	4.18	4.00	3.76	3.61	3.41	3.29	3.12

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives

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# SELECTION

## Center Distance/Belt Length

This table provides approximate center distance for the majority of V-Drives up to 3:1 ratio. Data is useful for higher ratios, but if more accurate results are required, use the belt length formula found in the "Special Drives" selection section for S-L Classic drives.

Belt Lgth.	Sum of Both V-Belt Sheave Diameters																	
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
16	4.9	4.1																
18	5.9	5.1																
20	6.9	6.1	5.2															
22	7.9	7.1	6.2															
24	8.9	8.1	7.2	6.3														
26	9.9	9.1	8.2	7.3	6.5													
28	10.9	10.1	9.2	8.4	7.6	6.6												
30	11.9	11.1	10.2	9.4	8.6	7.7												
32	12.9	12.1	11.2	10.4	9.6	8.7	8											
34	13.9	13.1	12.2	11.4	10.6	9.7	9											
36	14.9	14.1	13.2	12.4	11.6	10.7	10	9										
38	15.9	15.1	14.2	13.4	12.6	11.8	11	10	9.1									
40	16.9	16.1	15.3	14.4	13.6	12.8	12	11.1	10.1									
42	17.9	17.1	16.3	15.4	14.6	13.8	13.1	12.1	11.2	10.2								
44	18.9	18.1	17.3	16.4	15.6	14.8	14.1	13.1	12.2	11.2								
46	19.9	19.1	18.3	17.4	16.6	15.8	15.1	14.1	13.2	12.3	10.9							
48	20.9	20.1	19.3	18.4	17.7	16.8	16.1	15.1	14.3	13.3	12	11.3						
50	21.9	21.1	20.3	19.4	18.7	17.8	17.1	16.2	15.3	14.4	13.1	12.4	11.7					
52	22.9	22.1	21.3	20.4	19.7	18.8	18.1	17.2	16.3	15.4	14.1	13.5	12.8					
54	23.9	23.1	22.3	21.4	20.7	19.8	19.1	18.2	17.3	16.4	15.2	14.5	13.8	13.2				
56	24.9	24.1	23.3	22.4	21.7	20.8	20.1	19.2	18.3	17.4	16.2	15.6	14.9	14.2				
58	25.9	25.1	24.3	23.4	22.7	21.8	21.1	20.2	19.3	18.5	17.3	16.6	15.9	15.2	13.5			
60	26.9	26.1	25.3	24.5	23.7	22.8	22.1	21.2	20.4	19.5	18.3	17.6	17	16.3	14.6	14		
62	27.9	27.1	26.3	25.5	24.7	23.8	23.1	22.2	21.4	20.5	19.4	18.7	18	17.3	15.7	15.1		
64	28.9	28.1	27.3	26.5	25.7	24.8	24.1	23.2	22.4	21.5	20.4	19.7	19	18.3	16.8	16.1	15.5	
66	29.9	29.1	28.3	27.5	26.7	25.9	25.1	24.2	23.4	22.5	21.4	20.7	20	19.3	17.8	17.2	16.5	14.9
68	30.9	30.1	29.3	28.5	27.7	26.9	26.1	25.2	24.4	23.5	22.4	21.7	21	20.3	18.9	18.2	17.6	16
70	31.9	31.1	30.3	29.5	28.7	27.9	27.1	26.2	25.4	24.5	23.5	22.8	22.1	21.4	20	19.3	18.6	17.1
72	32.9	32.1	31.3	30.5	29.7	28.9	28.1	27.2	26.4	25.5	24.5	23.8	23.1	22.4	21	20.3	19.6	18.2
74	33.9	33.1	32.3	31.5	30.7	29.9	29.1	28.2	27.4	26.5	25.5	24.8	24.1	23.4	22	21.3	20.6	19.2
76	34.9	34.1	33.3	32.5	31.7	30.9	30.1	29.2	28.4	27.6	26.5	25.8	25.1	24.4	23.1	22.4	21.7	20.3
78	35.9	35.1	34.2	33.5	32.7	31.9	31.1	30.2	29.4	28.6	27.5	26.8	26.1	25.4	24.1	23.4	22.7	21.3
80	36.9	36.1	35.3	34.5	33.7	32.9	32.1	31.3	30.4	29.6	28.6	27.9	27.1	26.4	25.1	24.5	23.8	22.4
82	37.6	36.7	35.9	35.1	34.3	33.5	32.7	31.9	31	30.2	29.2	28.5	27.8	27	25.8	25.1	24.4	23.1
84	38.9	38.1	37.3	36.5	35.7	34.9	34.1	33.3	32.4	31.6	30.6	29.9	29.2	28.4	27.2	26.5	25.8	24.5
86	39.6	38.7	37.9	37.1	36.3	35.5	34.7	33.9	33	32.2	31.2	30.5	29.8	29	27.8	27.1	26.4	25.2
88	40.9	40.1	39.3	38.5	37.7	36.9	36.1	35.3	34.4	33.6	32.6	31.9	31.2	30.4	29.2	28.5	27.8	26.6
90	41.9	41.1	40.3	39.5	38.7	37.9	37.1	36.3	35.5	34.6	33.6	32.9	32.2	31.4	30.2	29.5	28.8	27.6
92	42.9	42.1	41.3	40.5	39.7	38.9	38.1	37.3	36.5	35.6	34.6	33.9	33.2	32.5	31.3	30.6	29.9	28.7
94	43.9	43.1	42.3	41.5	40.7	39.9	39.1	38.3	37.5	36.6	35.6	34.9	34.2	33.5	32.3	31.6	30.9	29.7
96	44.9	44.1	43.3	42.5	41.7	40.9	40.1	39.3	38.5	37.6	36.7	35.9	35.2	34.5	33.3	32.6	31.9	30.7
98	45.9	45.1	44.3	43.5	42.7	41.9	41.1	40.3	39.5	38.6	37.7	36.9	36.2	35.5	34.3	33.6	32.9	31.7
100	46.9	46.1	45.3	44.5	43.7	42.9	42.1	41.3	40.5	39.6	38.7	37.9	37.2	36.5	35.3	34.6	33.9	32.8

The centers shown in this shaded area are below the recommended minimum.

# SELECTION

## Variable Pitch Selection Procedure 1750 RPM Motors, Fractional Thru 30 HP

### PROCEDURE

1. Calculate design HP: Motor HP x Service Factor
2. Determine motor shaft size from NEMA B MOTOR chart.
3. Scan Tables 1 & 2 for VP sheave and belt profile combination that will accommodate motor shaft size and design HP.
4. Go to associated VP SHEAVE-BELT table. Trace down the column headed by the selected VP Sheave size until the desired driven speed range is reached. The Driven Sheave size will be listed in the "Driven Sheave" column.
5. Calculate belt length as follows:

If CD/D is greater than 1.5:

**FORMULA A:**  $L=2CD + 1.57(D+d)$

CD = Center Distance

D = Large Sheave diameter

d = small sheave diameter

If CD/D is less than 1.5:

**FORMULA B:**

$L = 2 CD + 1.57 (D + d) + \frac{(D - d)^2}{4 CD}$

**NOTE:** "L" Belt length is Outside Length for FHP belts, Pitch Length for Classical Belts (A, B, AX, BX)

### EXAMPLE

A fan is to be driven at a speed in the range of 1400 to 1200 RPM by a 10 HP, 1750 RPM motor. Center Distance is 26". Desired Service Factor is 1.3.

### SOLUTION

1. Calculate Design HP:  $10 \times 1.3 = 13$  DHP.
2. Check NEMA B Motor shaft size: 1-3/8", from Table 3.
3. Scan Tables 1 & 2 for VP sheave size that covers 13 DHP and has 1-3/8" shaft capacity. Choose 2VP65 with AX belt (Other larger sizes are also suitable).
4. Check Selection Table for 2-Groove A-Section Belts. Locate column headed by "2VP65". Trace down to the "1425/1175" RPM range, which covers the 1400/1200 requirement. Trace over to the left hand column for the Driven Sheave size: Find Driven Sheave "2AK74".
5. Calculate belt length: Note that CD/D is  $26/7.0 = 3.5$ . This is greater than 1.5, so "Formula A" can be used.  $L=2 \times 26 + 1.57(7.0+5.7)$ ,  $L = 72.0$ , Use Belt Size AX71 which has a pitch length of 72.3".

**NOTE:** Calculated center distance is for maximum driven RPM. Center distance at minimum RPM will be approx. 1" longer.

## Variable Pitch Sheave Selection Tables

### One Groove VP Sheaves

Table 1.

Size	Max./Min. Pitch Dia.			Max. Bore	O.D.	Basic HP Rating At 1750 RPM *					
	4L/A	5L/B	5V			4L	A	AX	5L	B	BX
1VP25	--	--	--	1/2	2.32	...	...	...	...	...	...
1VP30	--	--	--	3/4	2.87	...	...	...	...	...	...
1VP34	2.9/1.9	3.2/2.4	--	7/8	3.15	0.75	1.50	2.00	0.63	0.34	3.45
1VP40	3.4/2.4	3.7/2.7	--	7/8	3.75	1.00	2.41	2.84	1.12	1.70	3.87
1VP44	3.8/2.9	4.1/3.1	--	1-1/8	4.15	1.30	3.13	3.57	1.48	2.87	4.66
1VP50	4.4/3.4	4.7/3.7	--	1-1/8	4.75	1.50	4.20	4.63	1.95	4.50	6.50
1VP56	5.0/4.0	5.3/4.3	--	1-1/8	5.35	...	5.20	5.67	2.20	5.15	8.10
1VP60	5.2/4.2	5.5/4.3	--	1-1/8	6.00	...	5.53	6.01	2.60	6.68	8.67
1VP62	5.6/4.6	5.9/4.9	6.3/5.3	1-1/4	5.95	...	6.18	6.68	3.00	7.70	9.80
1VP65	5.7/4.7	6.0/4.8	6.4/5.2	1-1/8	6.50	...	6.40	6.85	...	7.97	10.00
1VP68	6.2/5.2	6.5/5.5	6.9/5.9	1-3/8	6.55	...	7.10	7.60	...	9.30	11.30
1VP71	6.3/5.3	6.6/5.4	7.0/5.8	1-1/8	7.10	...	7.30	7.70	...	9.40	11.60
1VP75	6.7/5.7	7.0/5.8	7.4/6.2	1-1/8	7.50	...	8.00	8.50	...	10.40	12.60

(Cont. next page)

\* For 3L Belts Only:

1VP25 2.2/1.4 P.D.

1VP30 2.7/1.8 P.D.

### Ac Motors

#### NEMA B

Table 3.

1750RPM HP	Shaft Dia.
1/4, 1/3	...
1/2, 3/4	5/8
1, 1.5, 2	7/8
3, 5	1-1/8
7-1/2, 10	1-3/8
15, 20	1-5/8
25, 30	1-7/8

Selection program available online at [ptwizard.com](http://ptwizard.com)

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# SELECTION

## Variable Pitch Sheave Selection Tables

### Two Groove VP Sheaves

Table 2

Size	Max./Min. Pitch Dia.			Max. Bore	O.D.	Two-Belt Basic HP Rating At 1750 RPM *						
	4L/A	5L/B	5V			4L	A	AX	5L	B	BX	5VX
2VP36	3.0/2.0	3.3/2.5	--	1	3.35	1.6	3.34	4.20	1.40	...	4.40	...
2VP42	3.6/2.6	3.9/2.9	--	1-1/8	3.95	2.4	5.54	6.42	2.60	2.98	6.34	...
2VP50	4.4/3.4	4.7/3.7	--	1-1/8	4.75	2.8	6.20	9.26	4.00	7.48	11.06	...
2VP56	5.0/4.0	5.3/4.3	--	1-1/8	5.35	...	10.40	11.34	4.40	9.40	11.76	...
2VP60	5.2/4.2	5.5/4.3	--	1-3/8	6.00	...	11.06	12.02	4.80	11.80	15.60	...
2VP62	5.6/4.6	5.9/4.9	6.3/5.3	1-3/8	5.95	...	12.36	13.36	6.00	13.90	17.82	34.00
2VP65	5.7/4.7	6.0/4.8	6.4/5.2	1-3/8	6.50	...	12.60	13.66	...	14.20	18.20	34.60
2VP68	6.2/5.2	6.5/5.5	6.9/5.9	1-3/8	6.55	...	14.20	15.20	...	17.00	21.00	38.00
2VP71	6.3/5.3	6.5/5.4	7.0/5.8	1-3/8	7.10	...	14.60	15.60	...	17.60	21.60	40.00
2VP75	6.7/5.7	7.0/5.8	7.4/6.2	1-3/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2VP60A	5.2/4.2	5.5/4.3	--	1-5/8	6.00	...	11.06	12.02	4.80	11.80	15.60	...
2VP65A	5.7/4.7	6.0/4.8	6.4/5.2	1-5/8	6.50	...	12.60	13.66	...	14.20	18.20	34.60
2VP71A	6.3/5.3	6.5/5.4	7.0/5.8	1-5/8	7.10	...	14.60	15.60	...	17.60	21.60	40.00
2VP75A	6.7/5.7	7.0/5.8	7.4/6.2	1-5/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2V56B70	6.7/5.7	7.0/5.8	7.4/6.2	1-7/8	7.50	...	15.80	17.00	...	19.00	23.80	44.00
2V68B80	7.7/6.7	7.7/6.8	8.4/7.2	1-7/8	8.50	...	18.00	18.80	...	23.40	28.20	52.00

\* Rating is at Max. Pitch Dia. Apply Arc and Length correction factors for greater accuracy.

### 1VP Sheave Using A Or Ax Belt Driven RPM For 1750 RPM Motor

Driven SHV.	1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
	Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
AK20	1.80	2819	1847	3306	2333	3694	2722	4278	3306	4861	3889	--	--	--	--	--
AK21	1.90	2671	1750	3132	2211	3500	2579	4053	3132	4605	3684	4789	3868	--	--	--
AK22	2.00	2538	1663	2975	2100	3325	2450	3850	2975	4375	3500	4550	3675	4900	4025	4988
AK23	2.10	2417	1583	2833	2000	3167	2333	3667	2833	4167	3333	4333	3500	4667	3833	4750
AK25	2.30	2207	1446	2587	1826	2891	2130	3348	2587	3804	3043	3957	3196	4261	3500	4337
AK26	2.40	2115	1385	2479	1750	2771	2042	3208	2479	3646	2917	3792	3062	4083	3354	4156
AK27	2.50	2030	1330	2380	1680	2660	1960	3080	2380	3500	2800	3640	2940	3920	3220	3990
AK28	2.60	1952	1279	2288	1615	2558	1885	2962	2288	3365	2692	3500	2827	3769	3096	3837
AK30	2.80	1813	1188	2125	1500	2375	1750	2750	2125	3125	2500	3250	2625	3500	2875	3563
AK32	3.00	1692	1108	1983	1400	2217	1633	2567	1983	2917	2333	3033	2450	3267	2683	3325
AK34	3.20	1586	1039	1859	1313	2078	1531	2406	1859	2734	2188	2844	2297	3063	2516	3117
AK39	3.50	1450	950	1700	1200	1900	1400	2200	1700	2500	2000	2600	2100	2800	2300	2850
AK41	3.70	1372	899	1608	1135	1797	1324	2081	1608	2365	1892	2459	1986	2649	2176	2696
AK44	4.00	1269	831	1488	1050	1663	1225	1925	1488	2188	1750	2275	1838	2450	2013	2494
AK46	4.20	1208	792	1417	1000	1583	1167	1833	1417	2083	1667	2167	1750	2333	1917	2375
AK49	4.50	1128	739	1322	933	1478	1089	1711	1322	1944	1556	2022	1633	2178	1789	2217
AK51	4.70	1080	707	1266	894	1415	1043	1638	1266	1862	1489	1936	1564	2085	1713	2122
AK54	4.90	1036	679	1214	857	1357	1000	1571	1214	1786	1429	1857	1500	2000	1643	2036

(Cont. next page)

**Note:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheave size.

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# SELECTION

## 1 VP Sheave Using A or AX Belt

### Driven RPM For 1750 RPM Motor

Driven SHV.		1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
AK56	5.20	976	639	1144	808	1279	942	1481	1144	1683	1346	1750	1413	1885	1548	1918	1582
AK59	5.50	923	605	1082	764	1209	891	1400	1082	1591	1273	1655	1336	1782	1464	1814	1495
AK61	5.70	890	583	1044	737	1167	860	1351	1044	1535	1228	1596	1289	1719	1412	1750	1443
AK64	6.00	846	554	992	700	1108	817	1283	992	1458	1167	1517	1225	1633	1342	1663	1371
AK66	6.20	819	536	960	677	1073	790	1242	960	1411	1129	1468	1185	1581	1298	1609	1327
AK69	6.50	781	512	915	646	1023	754	1185	915	1346	1077	1400	1131	1508	1238	1535	1265
AK71	6.70	757	496	888	627	993	731	1149	888	1306	1045	1358	1097	1463	1201	1489	1228
AK74	7.00	725	475	850	600	950	700	1100	850	1250	1000	1300	1050	1400	1150	1425	1175
AK79	7.50	677	443	793	560	887	653	1027	793	1167	933	1213	980	1307	1073	1330	1097
AK84	8.00	634	416	744	525	831	613	963	744	1094	875	1138	919	1225	1006	1247	1028
AK89	8.50	597	391	700	494	782	576	906	700	1029	824	1071	865	1153	947	1174	968
AK94	9.00	564	369	661	467	739	544	856	661	972	778	1011	817	1089	894	1108	914
AK99	9.50	534	350	626	442	700	516	811	626	921	737	958	774	1032	847	1050	866
AK104	10.00	508	333	595	420	665	490	770	595	875	700	910	735	980	805	998	823
AK109	10.60	479	314	561	396	627	462	726	561	825	660	858	693	925	759	941	776
AK114	11.00	461	302	541	382	605	445	700	541	795	636	827	668	891	732	907	748
AK124	12.00	423	277	496	350	554	408	642	496	729	583	758	613	817	671	831	685
AK134	13.00	390	256	458	323	512	377	592	458	673	538	700	565	754	619	767	633
AK144	14.00	363	238	425	300	475	350	550	425	625	500	650	525	700	575	713	588
AK154	15.00	338	222	397	280	443	327	513	397	583	467	607	490	653	537	665	548
AK184	18.00	282	185	331	233	369	272	428	331	486	389	506	408	544	447	554	457

### Driven RPM For 1750 RPM Motor

Driven SHV		1VP68		1VP71		1VP75	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.
AK30	2.80	3875	3250	3938	3313	4188	3563
AK32	3.00	3617	3033	3675	3092	3908	3325
AK34	3.20	3391	2844	3445	2898	3664	3117
AK39	3.50	3100	2600	3150	2650	3350	2850
AK41	3.70	2932	2459	2980	2507	3169	2696
AK44	4.00	2713	2275	2756	2319	2931	2494
AK46	4.20	2583	2167	2625	2208	2792	2375
AK49	4.50	2411	2022	2450	2061	2606	2217
AK51	4.70	2309	1936	2346	1973	2495	2122
AK54	4.90	2214	1857	2250	1893	2393	2036
AK56	5.20	2087	1750	2120	1784	2255	1918
AK59	5.50	1973	1655	2005	1686	2132	1814
AK61	5.70	1904	1596	1934	1627	2057	1750
AK64	6.00	1808	1517	1838	1546	1954	1663
AK66	6.20	1750	1468	1778	1496	1891	1609
AK69	6.50	1669	1400	1696	1427	1804	1535
AK71	6.70	1619	1358	1646	1384	1750	1489
AK74	7.00	1550	1300	1575	1325	1675	1425
AK79	7.50	1447	1213	1470	1237	1563	1330
AK84	8.00	1356	1138	1378	1159	1466	1247
AK89	8.50	1276	1071	1297	1091	1379	1174
AK94	9.00	1206	1011	1225	1031	1303	1108
AK99	9.50	1142	958	1161	976	1234	1050
AK104	10.00	1085	910	1103	928	1173	998
AK109	10.60	1024	858	1040	875	1106	941
AK114	11.00	986	827	1002	843	1066	907
AK124	12.00	904	758	919	773	977	831
AK134	13.00	835	700	848	713	902	767
AK144	14.00	775	650	788	663	838	713
AK154	15.00	723	607	735	618	782	665
AK184	18.00	603	506	613	515	651	554

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE engineering catalog for Driven Sheave size.

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# SELECTION

## 1 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

Driven SHV.		1VP34		1VP40		1VP44		1VP50		1VP56		1VP60		1VP62		1VP65	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
BK23	2.10	2667	2000	3083	2250	3417	2583	3917	3083	4417	3583	4583	3583	4917	4083	5000	4000
BK24	2.20	2545	1909	2943	2148	3261	2466	3739	2943	4216	3420	4375	3420	4693	3898	4773	3818
BK25	2.30	2435	1826	2815	2054	3120	2359	3576	2815	4033	3272	4185	3272	4489	3728	4565	3652
BK26	2.40	2333	1750	2698	1969	2990	2260	3427	2698	3865	3135	4010	3135	4302	3573	4375	3500
BK28	2.60	2154	1615	2490	1817	2760	2087	3163	2490	3567	2894	3702	2894	3971	3298	4038	3231
BK30	2.80	2000	1500	2313	1688	2563	1938	2938	2313	3313	2688	3438	2688	3688	3063	3750	3000
BK31	2.90	1931	1448	2233	1629	2474	1871	2836	2233	3198	2595	3319	2595	3560	2957	3621	2897
BK32	3.00	1867	1400	2158	1575	2392	1808	2742	2158	3092	2508	3208	2508	3442	2858	3500	2800
BK34	3.20	1750	1313	2023	1477	2242	1695	2570	2023	2898	2352	3008	2352	3227	2680	3281	2625
BK36	3.40	1647	1235	1904	1390	2110	1596	2419	1904	2728	2213	2831	2213	3037	2522	3088	2471
BK40	3.60	1556	1167	1799	1312	1993	1507	2285	1799	2576	2090	2674	2090	2868	2382	2917	2333
BK45	3.90	1436	1077	1660	1212	1840	1391	2109	1660	2378	1929	2468	1929	2647	2199	2692	2154
BK47	4.10	1366	1024	1579	1152	1750	1323	2006	1579	2262	1835	2348	1835	2518	2091	2561	2049
BK50	4.40	1273	955	1472	1074	1631	1233	1869	1472	2108	1710	2188	1710	2347	1949	2386	1909
BK52	4.60	1217	913	1408	1027	1560	1179	1788	1408	2016	1636	2092	1636	2245	1864	2283	1826
BK55	4.90	1143	857	1321	964	1464	1107	1679	1321	1893	1536	1964	1536	2107	1750	2143	1714
BK57	5.10	1098	824	1270	926	1407	1064	1613	1270	1819	1475	1887	1475	2025	1681	2059	1647
BK60	5.40	1037	778	1199	875	1329	1005	1523	1199	1718	1394	1782	1394	1912	1588	1944	1556
BK62	5.60	1000	750	1156	844	1281	969	1469	1156	1656	1344	1719	1344	1844	1531	1875	1500
BK65	5.90	949	712	1097	801	1216	919	1394	1097	1572	1275	1631	1275	1750	1453	1780	1424
BK67	6.10	918	689	1061	775	1176	889	1348	1061	1520	1234	1578	1234	1693	1406	1721	1377
BK70	6.40	875	656	1012	738	1121	848	1285	1012	1449	1176	1504	1176	1613	1340	1641	1313
BK72	6.60	848	636	981	716	1087	822	1246	981	1405	1140	1458	1140	1564	1299	1591	1273
BK75	6.90	812	609	938	685	1040	786	1192	938	1344	1091	1395	1091	1496	1243	1522	1217
BK77	7.10	789	592	912	665	1011	764	1158	912	1306	1060	1356	1060	1454	1208	1479	1183
BK80	7.40	757	568	875	639	970	733	1111	875	1253	1017	1301	1017	1395	1159	1419	1135
BK85	7.90	709	532	820	598	908	687	1041	820	1174	953	1218	953	1307	1085	1329	1063
BK90	8.40	667	500	771	563	854	646	979	771	1104	896	1146	896	1229	1021	1250	1000
BK95	8.90	629	472	728	531	806	610	924	728	1042	846	1081	846	1160	963	1180	944
BK100	9.40	596	447	689	503	763	577	875	689	987	801	1024	801	1098	912	1117	894
BK105	9.90	566	424	654	477	725	548	831	654	937	760	972	760	1043	866	1061	848
BK110	10.40	538	404	623	454	690	522	791	623	892	724	925	724	993	825	1010	808
BK115	10.90	514	385	594	433	658	498	755	594	851	690	883	690	947	787	963	771
BK120	11.40	491	368	568	414	629	476	721	568	814	660	844	660	906	752	921	737
BK130	12.40	452	339	522	381	579	438	663	522	748	607	776	607	833	692	847	677
BK140	13.40	418	313	483	353	535	405	614	483	692	562	718	562	771	640	784	627
BK160	15.40	364	273	420	307	466	352	534	420	602	489	625	489	670	557	682	545
BK190	18.40	304	228	352	257	390	295	447	352	504	409	523	409	561	466	571	457

(Cont. next page)

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, use BASIC HORSEPOWER RATING TABLES from DODGE engineering catalog for Driven Sheave size.

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V-Drives

FHP Drives

Drive Component  
Accessories

DYNA-SYNC

HT200/HTD  
Synchronous Drives

HTR  
Synchronous Drives

HTRC  
Synchronous Drives



# SELECTION

## 1 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

Driven SHV.		1VP68		1VP71		1VP75	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.
BK28	2.60	4375	3702	4442	3635	4712	3904
BK30	2.80	4063	3438	4125	3375	4375	3625
BK31	2.90	3922	3319	3983	3259	4224	3500
BK34	3.20	3555	3008	3609	2953	3828	3172
BK36	3.40	3346	2831	3397	2779	3603	2985
BK40	3.60	3160	2674	3208	2625	3403	2819
BK45	3.90	2917	2468	2962	2423	3141	2603
BK47	4.10	2774	2348	2817	2305	2988	2476
BK50	4.40	2585	2188	2625	2148	2784	2307
BK52	4.60	2473	2092	2511	2054	2663	2207
BK55	4.90	2321	1964	2357	1929	2500	2071
BK57	5.10	2230	1887	2265	1853	2402	1990
BK60	5.40	2106	1782	2139	1750	2269	1880
BK62	5.60	2031	1719	2063	1688	2188	1813
BK65	5.90	1928	1631	1958	1602	2076	1720
BK67	6.10	1865	1578	1893	1549	2008	1664
BK70	6.40	1777	1504	1805	1477	1914	1586
BK72	6.60	1723	1458	1750	1432	1856	1538
BK75	6.90	1649	1395	1674	1370	1775	1471
BK77	7.10	1602	1356	1627	1331	1725	1430
BK80	7.40	1537	1301	1561	1277	1655	1372
BK85	7.90	1440	1218	1462	1196	1551	1285
BK90	8.40	1354	1146	1375	1125	1458	1208
BK95	8.90	1278	1081	1298	1062	1376	1140
BK100	9.40	1210	1024	1229	1005	1303	1080
BK105	9.90	1149	972	1167	955	1237	1025
BK110	10.40	1094	925	1111	909	1178	976
BK115	10.90	1044	883	1060	867	1124	931
BK120	11.40	998	844	1013	829	1075	890
BK130	12.40	917	776	931	762	988	819
BK140	13.40	849	718	862	705	914	757
BK160	15.40	739	625	750	614	795	659
BK190	18.40	618	523	628	514	666	552

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives



# SELECTION

## 2 VP Sheave Using A or AX Belt

### Driven RPM For 1750 RPM Motor

Driven SHV.		2VP36		2VP42		2VP50		2VP56		2VP60		2VP62		2VP65	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
2AK20	1.80	2917	1944	3500	2528	4278	3306	4861	3889	--	--	--	--	--	--
2AK21	1.90	2763	1842	3316	2395	4053	3132	4605	3684	4789	3868	--	--	--	--
2AK22	2.00	2625	1750	3150	2275	3850	2975	4375	3500	4550	3675	4900	4025	4988	4113
2AK23	2.10	2500	1667	3000	2167	3667	2833	4167	3333	4333	3500	4667	3833	4750	3917
2AK25	2.30	2283	1522	2739	1978	3348	2587	3804	3043	3957	3196	4261	3500	4337	3576
2AK26	2.40	2188	1458	2625	1896	3208	2479	3646	2917	3792	3062	4083	3354	4156	3427
2AK27	2.50	2100	1400	2520	1820	3080	2380	3500	2800	3640	2940	3920	3220	3990	3290
2AK28	2.60	2019	1346	2423	1750	2962	2288	3365	2692	3500	2827	3769	3096	3837	3163
2AK30	2.80	1875	1250	2250	1625	2750	2125	3125	2500	3250	2625	3500	2875	3563	2938
2AK32	3.00	1750	1167	2100	1517	2567	1983	2917	2333	3033	2450	3267	2683	3325	2742
2AK34	3.20	1641	1094	1969	1422	2406	1859	2734	2188	2844	2297	3063	2516	3117	2570
2AK39	3.50	1500	1000	1800	1300	2200	1700	2500	2000	2600	2100	2800	2300	2850	2350
2AK41	3.70	1419	946	1703	1230	2081	1608	2365	1892	2459	1986	2649	2176	2696	2223
2AK44	4.00	1313	875	1575	1138	1925	1488	2188	1750	2275	1838	2450	2013	2494	2056
2AK46	4.20	1250	833	1500	1083	1833	1417	2083	1667	2167	1750	2333	1917	2375	1958
2AK49	4.50	1167	778	1400	1011	1711	1322	1944	1556	2022	1633	2178	1789	2217	1828
2AK51	4.70	1117	745	1340	968	1638	1266	1862	1489	1936	1564	2085	1713	2122	1750
2AK54	5.00	1050	700	1260	910	1540	1190	1750	1400	1820	1470	1960	1610	1995	1645
2AK56	5.20	1010	673	1212	875	1481	1144	1683	1346	1750	1413	1885	1548	1918	1582
2AK59	5.50	955	636	1145	827	1400	1082	1591	1273	1655	1336	1782	1464	1814	1495
2AK61	5.70	921	614	1105	798	1351	1044	1535	1228	1596	1289	1719	1412	1750	1443
2AK64	6.00	875	583	1050	758	1283	992	1458	1167	1517	1225	1633	1342	1663	1371
2AK74	7.00	750	500	900	650	1100	850	1250	1000	1300	1050	1400	1150	1425	1175
2AK84	8.00	656	438	788	569	963	744	1094	875	1137	919	1225	1006	1247	1028
2AK94	9.00	583	389	700	506	856	661	972	778	1011	817	1089	894	1108	914
2AK104	10.00	525	350	630	455	770	595	875	700	910	735	980	805	998	823
2AK114	11.00	477	318	573	414	700	541	795	636	827	668	891	732	907	748
2AK124	12.00	438	292	525	379	642	496	729	583	758	613	817	671	831	685
2AK134	13.00	404	269	485	350	592	458	673	538	700	565	754	619	767	633
2AK144	14.00	375	250	450	325	550	425	625	500	650	525	700	575	713	588
2AK154	15.00	350	233	420	303	513	397	583	467	607	490	653	537	665	548
2AK184	18.00	292	194	350	253	428	331	486	389	506	408	544	447	554	457

### Driven RPM For 1750 RPM Motor

Driven SHV.		2VP68		2VP71		2VP75	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.
2AK27	2.50	4340	3640	4410	3710	4690	3990
2AK28	2.60	4173	3500	4240	3567	4510	3837
2AK30	2.80	3875	3250	3938	3313	4188	3563
2AK32	3.00	3617	3033	3675	3092	3908	3325
2AK34	3.20	3391	2844	3445	2898	3664	3117
2AK39	3.50	3100	2600	3150	2650	3350	2850
2AK41	3.70	2932	2459	2980	2507	3169	2696
2AK44	4.00	2713	2275	2756	2319	2931	2494
2AK46	4.20	2583	2167	2625	2208	2792	2375
2AK49	4.50	2411	2022	2450	2061	2606	2217
2AK51	4.70	2309	1936	2346	1973	2495	2122
2AK54	5.00	2170	1820	2205	1855	2345	1995
2AK56	5.20	2087	1750	2120	1784	2255	1918
2AK59	5.50	1973	1655	2005	1686	2132	1814
2AK61	5.70	1904	1596	1934	1627	2057	1750

### Driven RPM For 1750 RPM Motor

Driven SHV.		2VP68		2VP71		2VP75	
Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.
2AK64	6.00	1808	1517	1838	1546	1954	1663
2AK74	7.00	1550	1300	1575	1325	1675	1425
2AK84	8.00	1356	1138	1378	1159	1466	1247
2AK94	9.00	1206	1011	1225	1031	1303	1108
2AK104	10.00	1085	910	1103	928	1173	998
2AK114	11.00	986	827	1002	843	1066	907
2AK124	12.00	904	758	919	773	977	831
2AK134	13.00	835	700	848	713	902	767
2AK144	14.00	775	650	788	663	838	713
2AK154	15.00	723	607	735	618	782	665
2AK184	18.00	603	506	613	515	651	554

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.



# SELECTION

## 2 VP Sheave Using B or BX Belt

### Driven RPM For 1750 RPM Motor

Dia.	Driven Sheave		2VP36		2VP42		2VP50		2VP56		2VP60		2VP62		2VP65	
	O.D.	Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
2.5	2BK25	2.30	2511	1902	2967	2207	3576	2815	4033	3272	--	--	--	--	--	--
2.7	2BK27	2.50	2310	1750	2730	2030	3290	2590	3710	3010	3850	3010	4130	3430	4200	3360
2.95	2BK28	2.60	2221	1683	2625	1952	3163	2490	3567	2894	3702	2894	3971	3298	4038	3231
3.15	2BK30	2.80	2062	1563	2437	1813	2937	2312	3312	2687	3438	2687	3688	3063	3750	3000
3.35	2BK32	3.00	1925	1458	2275	1692	2742	2158	3092	2508	3208	2508	3442	2858	3500	2800
3.55	2BK34	3.20	1805	1367	2133	1586	2570	2023	2898	2352	3008	2352	3227	2680	3281	2625
3.75	2BK36	3.40	1699	1287	2007	1493	2419	1904	2728	2213	2831	2213	3037	2522	3088	2471
3.95	2BK40	3.60	1604	1215	1896	1410	2285	1799	2576	2090	2674	2090	2868	2382	2917	2333
4.25	2BK45	3.90	1481	1122	1750	1301	2109	1660	2378	1929	2468	1929	2647	2199	2692	2154
4.45	2BK47	4.10	1409	1067	1665	1238	2006	1579	2262	1835	2348	1835	2518	2091	2561	2049
4.75	2BK50	4.40	1312	994	1551	1153	1869	1472	2108	1710	2188	1710	2347	1949	2386	1909
4.95	2BK52	4.60	1255	951	1484	1103	1788	1408	2016	1636	2092	1636	2245	1864	2283	1826
5.25	2BK55	4.90	1179	893	1393	1036	1679	1321	1893	1536	1964	1536	2107	1750	2143	1714
5.45	2BK57	5.10	1132	858	1338	995	1613	1270	1819	1475	1887	1475	2025	1681	2059	1647
5.75	2BK60	5.40	1069	810	1264	940	1523	1199	1718	1394	1782	1394	1912	1588	1944	1556
5.95	2BK62	5.60	1031	781	1219	906	1469	1156	1656	1344	1719	1344	1844	1531	1875	1500
6.25	2BK65	5.90	979	742	1157	860	1394	1097	1572	1275	1631	1275	1750	1453	1780	1424
6.45	2BK67	6.10	947	717	1119	832	1348	1061	1520	1234	1578	1234	1693	1406	1721	1377
6.75	2BK70	6.40	902	684	1066	793	1285	1012	1449	1176	1504	1176	1613	1340	1641	1312
7.75	2BK80	7.40	780	591	922	686	1111	875	1253	1017	1301	1017	1395	1159	1419	1135
8.75	2BK90	8.40	688	521	813	604	979	771	1104	896	1146	896	1229	1021	1250	1000
9.75	2BK100	9.40	614	465	726	540	875	689	987	801	1024	801	1098	912	1117	894
11.75	2BK120	11.40	507	384	599	445	721	568	814	660	844	660	906	752	921	737
12.75	2BK130	12.40	466	353	550	409	663	522	748	607	776	607	833	692	847	677
13.75	2BK140	13.40	431	326	509	379	614	483	692	562	718	562	771	640	784	627
15.75	2BK160	15.40	375	284	443	330	534	420	602	489	625	489	670	557	682	545
18.75	2BK190	18.40	314	238	371	276	447	352	504	409	523	409	561	466	571	457

### Driven RPM For 1750 RPM Motor

Dia.	Driven Sheave		2VP68		2VP71		2VP75		2V58B70		2V68B80	
	O.D.	Size	P.D.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
3.55	2BK34	3.20	3555	3008	3555	2953	3828	3172	3828	3172	--	--
3.75	2BK36	3.40	3346	2831	3346	2779	3603	2985	3603	2985	3963	3500
3.95	2BK40	3.60	3160	2674	3160	2625	3403	2819	3403	2819	3743	3306
4.25	2BK45	3.90	2917	2468	2917	2423	3141	2603	3141	2603	3455	3051
4.45	2BK47	4.10	2774	2348	2774	2305	2988	2476	2988	2476	3287	2902
4.75	2BK50	4.40	2585	2188	2585	2148	2784	2307	2784	2307	3062	2705
4.95	2BK52	4.60	2473	2092	2473	2054	2663	2207	2663	2207	2929	2587
5.25	2BK55	4.90	2321	1964	2321	1929	2500	2071	2500	2071	2750	2429
5.45	2BK57	5.10	2230	1887	2230	1853	2402	1990	2402	1990	2642	2333
5.75	2BK60	5.40	2106	1782	2106	1750	2269	1880	2269	1880	2495	2204
5.95	2BK62	5.60	2031	1719	2031	1687	2188	1813	2188	1813	2406	2125
6.25	2BK65	5.90	1928	1631	1928	1602	2076	1720	2076	1720	2284	2017
6.45	2BK67	6.10	1865	1578	1865	1549	2008	1664	2008	1664	2209	1951
6.75	2BK70	6.40	1777	1504	1777	1477	1914	1586	1914	1586	2105	1859
7.75	2BK80	7.40	1537	1301	1537	1277	1655	1372	1655	1372	1821	1608
8.75	2BK90	8.40	1354	1146	1354	1125	1458	1208	1458	1208	1604	1417
9.75	2BK100	9.40	1210	1024	1210	1005	1303	1080	1303	1080	1434	1266
11.75	2BK120	11.40	998	844	998	829	1075	890	1075	890	1182	1044
12.75	2BK130	12.40	917	776	917	762	988	819	988	819	1087	960
13.75	2BK140	13.40	849	718	849	705	914	757	914	757	1006	888
15.75	2BK160	15.40	739	625	739	614	795	659	795	659	875	773
18.75	2BK190	18.40	618	523	618	514	666	552	666	552	732	647

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1 or TABLE 2. For drive selections above the bold line, refer to the BASIC HORSEPOWER Rating Tables in the DODGE Engineering Catalog for Driven Sheave size.

FEATURES/BENEFITS PAGE PT8-2	SELECTION/DIMENSIONS PAGE PT8-3	SELECTION PAGE PT8-10	
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# SELECTION

## 2VP Sheave Using 5VX Belt

### Driven RPM For 1750 RPM Motor

Driven Sheave	2VP62		2VP65		2VP68		2VP71		2VP75		2V58B70		2V68B80	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
2/5V4.4	2564	2157	2605	2116	2808	2401	2849	2360	3012	2523	3012	2442	3419	2930
2/5V4.65	2423	2038	2462	2000	2654	2269	2692	2231	2846	2385	2846	2308	3231	2769
2/5V4.9	2297	1932	2333	1896	2516	2151	2552	2115	2698	2260	2698	2188	3063	2625
2/5V5.2	2201	1851	2236	1816	2410	2061	2445	2026	2585	2166	2585	2096	2934	2515
2/5V5.5	2042	1718	2074	1685	2236	1912	2269	1880	2398	2009	2398	1944	2722	2333
2/5V5.9	1901	1599	1931	1569	2082	1780	2112	1750	2233	1871	2233	1810	2534	2172
2/5V6.3	1778	1496	1806	1468	1948	1665	1976	1637	2089	1750	2089	1694	2371	2032
2/5V6.7	1670	1405	1697	1379	1830	1564	1856	1538	1962	1644	1962	1591	2227	1909
2/5V7.1	1575	1325	1600	1300	1725	1475	1750	1450	1850	1550	1850	1500	2100	1800
2/5V7.5	1490	1253	1514	1230	1632	1395	1655	1372	1750	1466	1750	1419	1986	1703
2/5V8.0	1396	1174	1418	1152	1528	1307	1551	1285	1639	1373	1639	1329	1861	1595
2/5V8.5	1313	1104	1333	1083	1438	1229	1458	1208	1542	1292	1542	1250	1750	1500
2/5V9.0	1239	1042	1258	1022	1357	1160	1376	1140	1455	1219	1455	1180	1652	1416
2/5V9.25	1205	1014	1224	995	1320	1128	1339	1109	1415	1186	1415	1148	1607	1377
2/5V9.75	1142	961	1161	943	1251	1070	1269	1052	1342	1124	1342	1088	1523	1306
2/5V10.3	1081	909	1098	892	1184	1012	1201	995	1270	1064	1270	1029	1441	1235
2/5V10.9	1021	859	1037	843	1118	956	1134	940	1199	1005	1199	972	1361	1167
2/5V11.3	984	828	1000	813	1078	922	1094	906	1156	969	1156	938	1313	1125
2/5V11.8	942	793	957	778	1032	882	1047	868	1107	927	1107	897	1256	1077
2/5V12.5	889	748	903	734	974	833	988	819	1044	875	1044	847	1185	1016
2/5V13.2	842	708	855	695	922	788	935	775	989	828	989	802	1122	962
2/5V14.0	793	667	806	655	869	743	881	730	932	781	932	755	1058	906
2/5V15.0	740	622	752	611	810	693	822	681	869	728	869	705	987	846
2/5V16.0	693	583	704	572	759	649	770	638	814	682	814	660	925	792
2/5V18.7	593	499	602	489	649	555	659	546	696	583	696	565	790	677
2/5V21.2	523	440	531	431	572	489	581	481	614	514	614	498	697	597
2/5V23.6	469	395	477	387	514	439	521	432	551	462	551	447	626	536
2/5V28.0	395	332	401	326	433	370	439	364	464	389	464	376	527	452

**NOTE:** For drive selections below the bold line, use HP ratings on TABLE 1. or TABLE 2.  
 For drive selections above the bold line, use BASIC HP RATING TABLES from DODGE ENGINEERING Catalog for driven sheave size.

V-Drives

FHP Drives

Drive Component Accessories

DYNA-SYNC

HT200/HTD Synchronous Drives

HTR Synchronous Drives

HTRC Synchronous Drives