

## Selection Guidelines

### FOR DIRECT REPLACEMENT WHEN ORIGINAL BELT PART NUMBER IS AVAILABLE

Match ARPM (Association of Rubber Products Manufacturers) number/manufacturer's part number (from your existing V-belt), then make selection from the following pages. Dayton V-belts conform to ARPM standards.

### WHEN ORIGINAL BELT PART NUMBER IS NOT AVAILABLE

When replacing V-belts with worn markings, use the belt cross-sections at the top of each page to identify the belt type. Belt length can be determined by using either V-Belt Rule 6AGK6 (sold separately on page 102), or by using the Belt Length Formula calculation on this page.

ARPM Belt Size		BROWNING		BELT INTERCHANGE*		GATES		DAYCO	
3L, 4L, 5L	FHP	Super Grippbelts	FHP	Fractional HP	Goodyear	Triflex	Goodyear	Durapower FHP	Goodyear
A, B, C	Super Grippbelts	Super Grippbelts	Super Grippbelts	Hi-T	Hi-T	Hi-T	Hi-T	Super Blue Ribbon	Hi-T
AX, BX, CX	Gripnitch	Gripnitch	Gripnitch	Torque-Flex	Torque-Flex	Tri-Power	Tri-Power	Gold Label Cog Belt	Tri-Power
3VX, 5VX	358	358	358	HY-T Wedge	HY-T Wedge	Power Wedge Vee Cog-Belt	Power Wedge Vee Cog-Belt		Power Wedge Vee Cog-Belt

\* Call 1-800-GRAINGER (472-4643) for assistance with cross-referencing specific part numbers.

Additional V-belt lengths are available on Grainger.com

## Sheave Pitch Diameters

### TO CALCULATE MOTOR SHEAVE PITCH DIAMETER

Multiply driven sheave rpm by driven sheave pitch diameter and divide by motor sheave rpm.

### TO CALCULATE DRIVEN SHEAVE PITCH DIAMETER

Multiply motor sheave rpm by motor sheave pitch diameter and divide by driven sheave rpm.

### FORMULA

(Motor Sheave P.D.) x  
(Motor Sheave rpm) =  
(Driven Sheave P.D.) x  
(Driven Sheave rpm)

## V-Belt Length Formula

Dayton V-belts interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others.

### BELT LENGTH FORMULA

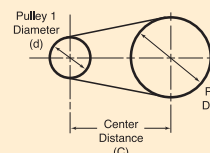
$$L = 2C + 1.57(D + d) + \frac{(D - d)^2}{4C}$$

L = Pitch Length of Belt

C = Center Distance

D = Pitch Diameter of Large Sheave

d = Pitch Diameter of Small Sheave



## 2L, 3L, 4L, and 5L Standard Fractional Horsepower V-Belts

For use on drive systems that are typically operating at 3 HP or less and are suitable for use in HVAC equipment and appliances. They are manufactured to tolerances set by the ARPM (Association of Rubber Products Manufacturers). Cogged belts run cooler than standard V-belts. **Dayton** belts are oil- and heat-resistant. 2L belts are cogged; 3L, 4L, and 5L belts are static-conductive. All series interchange with major brands such as Browning, Carlisle, ContiTech, Dayco, Gates, Goodyear, and others. **Continental** belts are static conductive, plus heat-, ozone-, and abrasion-resistant. 4L and 5L belts are cogged.



2L  
1/4" x 5/32"

3L  
3/8" x 7/32"

4L  
1/2" x 5/16"

5L  
21/32" x 3/8"

Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.	Industry No.	Outside L	DAYTON Item No.	CONTINENTAL Item No.
<b>2L (1/4" in Top Width by 5/32 in Nom. Thickness)</b>				<b>4L (1/2" in Top Width by 5/16 in Nom. Thickness)</b>				<b>5L (21/32" in Top Width by 3/8 in Nom. Thickness)</b>				<b>5L (21/32" in Top Width by 3/8 in Nom. Thickness)</b>			
2L100	10 in	13V770	—	4L1000	100 in	3X543	—	5L1000	100 in	3X544	—	5L1000	100 in	3X544	—
2L110	11 in	13V771	—	4L1100	110 in	3X544	—	5L1100	110 in	3X545	—	5L1100	110 in	3X545	—
2L120	12 in	13V772	459H33	4L1200	120 in	3X545	—	5L1200	120 in	3X546	—	5L1200	120 in	3X546	—
2L130	13 in	13V773	—	4L1300	130 in	3X546	—	5L1300	130 in	3X547	—	5L1300	130 in	3X547	—
2L140	14 in	13V774	459H34	4L1400	140 in	3X547	—	5L1400	140 in	3X548	—	5L1400	140 in	3X548	—
2L150	15 in	13V775	459H35	4L1500	150 in	3X548	—	5L1500	150 in	3X549	—	5L1500	150 in	3X549	—
2L160	16 in	13V776	459H36	4L1600	160 in	3X549	—	5L1600	160 in	3X550	—	5L1600	160 in	3X550	—
2L170	17 in	13V777	—	4L1700	170 in	3X550	—	5L1700	170 in	3X551	—	5L1700	170 in	3X551	—
2L180	18 in	13V778	459H37	4L1800	180 in	3X551	—	5L1800	180 in	3X552	—	5L1800	180 in	3X552	—
2L190	19 in	13V779	459H38	4L1900	190 in	3X552	—	5L1900	190 in	3X553	—	5L1900	190 in	3X553	—
2L200	20 in	13V780	459H39	4L2000	200 in	3X553	—	5L2000	200 in	3X554	—	5L2000	200 in	3X554	—
2L240	24 in	13V781	459H40	4L2400	240 in	3X554	—	5L2400	240 in	3X555	—	5L2400	240 in	3X555	—
2L260	26 in	13V782	459H41	4L2600	260 in	3X555	—	5L2600	260 in	3X556	—	5L2600	260 in	3X556	—
2L280	28 in	13V783	—	4L2800	280 in	3X556	—	5L2800	280 in	3X557	—	5L2800	280 in	3X557	—
2L300	30 in	13V784	—	4L3000	300 in	3X557	—	5L3000	300 in	3X558	—	5L3000	300 in	3X558	—
2L340	34 in	13V784	—	4L3400	340 in	3X558	—	5L3400	340 in	3X559	—	5L3400	340 in	3X559	—
2L360	36 in	13V785	—	4L3600	360 in	3X559	—	5L3600	360 in	3X560	—	5L3600	360 in	3X560	—
2L380	38 in	13V786	—	4L3800	380 in	3X560	—	5L3800	380 in	3X561	—	5L3800	380 in	3X561	—
2L400	40 in	13V787	—	4L4000	400 in	3X561	—	5L4000	400 in	3X562	—	5L4000	400 in	3X562	—
2L440	44 in	13V788	—	4L4400	440 in	3X562	—	5L4400	440 in	3X563	—	5L4400	440 in	3X563	—
2L460	46 in	13V789	—	4L4600	460 in	3X563	—	5L4600	460 in	3X564	—	5L4600	460 in	3X564	—
2L480	48 in	13V790	—	4L4800	480 in	3X564	—	5L4800	480 in	3X565	—	5L4800	480 in	3X565	—
2L500	50 in	13V791	—	4L5000	500 in	3X565	—	5L5000	500 in	3X566	—	5L5000	500 in	3X566	—
2L540	54 in	13V792	—	4L5400	540 in	3X566	—	5L5400	540 in	3X567	—	5L5400	540 in	3X567	—
2L560	56 in	13V793	—	4L5600	560 in	3X567	—	5L5600	560 in	3X568	—	5L5600	560 in	3X568	—
2L580	58 in	13V794	—	4L5800	580 in	3X568	—	5L5800	580 in	3X569	—	5L5800	580 in	3X569	—
2L600	60 in	13V795	—	4L6000	600 in	3X569	—	5L6000	600 in	3X570	—	5L6000	600 in	3X570	—
2L640	64 in	13V796	—	4L6400	640 in	3X570	—	5L6400	640 in	3X571	—	5L6400	640 in	3X571	—
2L660	66 in	13V797	—	4L6600	660 in	3X571	—	5L6600	660 in	3X572	—	5L6600	660 in	3X572	—
2L680	68 in	13V798	—	4L6800	680 in	3X572	—	5L6800	680 in	3X573	—	5L6800	680 in	3X573	—
2L700	70 in	13V799	—	4L7000	700 in	3X573	—	5L7000	700 in	3X574	—	5L7000	700 in	3X574	—
2L740	74 in	13V800	—	4L7400	740 in	3X574	—	5L7400	740 in	3X575	—	5L7400	740 in	3X575	—
2L760	76 in	13V801	—	4L7600	760 in	3X575	—	5L7600	760 in	3X576	—	5L7600	760 in	3X576	—
2L780	78 in	13V802	—	4L7800	780 in	3X576	—	5L7800	780 in	3X577	—	5L7800	780 in	3X577	—
2L800	80 in	13V803	—	4L8000	800 in	3X577	—	5L8000	800 in	3X578	—	5L8000	800 in	3X578	—
2L840	84 in	13V804	—	4L8400	840 in	3X578	—	5L8400	840 in	3X579	—	5L8400	840 in	3X579	—
2L860	86 in	13V805	—	4L8600	860 in	3X579	—	5L8600	860 in	3X580	—	5L8600	860 in	3X580	—
2L880	88 in	13V806	—	4L8800	880 in	3X580	—	5L8800	880 in	3X581	—	5L8800	880 in	3X581	—
2L900	90 in	13V807	—	4L9000	900 in	3X581	—	5L9000	900 in	3X582	—	5L9000	900 in	3X582	—
2L940	94 in	13V808	—	4L9400	940 in	3X582	—	5L9400	940 in	3X583	—	5L9400	940 in	3X583	—
2L960	96 in	13V809	—	4L9600	960 in	3X583	—	5L9600	960 in	3X584	—	5L9600	960 in	3X584	—
2L980	98 in	13V810	—	4L9800	980 in	3X584	—	5L9800	980 in	3X585	—	5L9800	980 in	3X585	—
2L1000	1000 in	13V811	—	4L10000	10000 in	3X585	—	5L10000	10000 in	3X586	—	5L10000	10000 in	3X586	—