PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

3V Belt (9N) — Specification & Complete Size Chart

Narrow Wrapped V-Belt · Conforms to ISO 4184 · Shusheng Brand

Shusheng

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3V Belt (9N) — Specification, Materials & Complete Size Chart

1. 3V Belt Overview

The smallest section of the narrow V-belt family, built to move real torque in the tightest frame.

The 3V belt, also designated 9N, is a wrapped narrow V-belt with a 3/8 inch (9.5 mm) top width and an 8 mm section height. It is the smallest section of the 3V / 5V / 8V narrow V-belt family, and it transmits 50–80% more power than a classical V-belt of the same top width in the same drive frame.

Every 3V belt in this catalogue is manufactured to conform to the ISO 4184 standard for narrow V-belt drives (9N / 3V profile). The body is chloroprene rubber (CR) with a high-tenacity polyester tension cord and a wrapped fabric jacket, and the belt is moulded to length so that every belt in a multi-belt drive carries an equal share of the load.

This document keeps to the four things a buyer needs: how to read the 3V belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **3V-235** to **3V-2080** (section 4). Contact and ordering information follows.

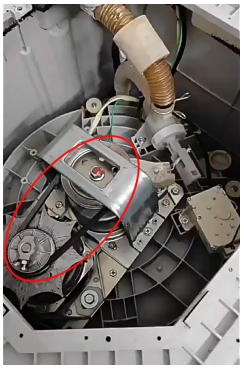


Figure 1: A 3V (9N) wrapped narrow V-belt running on the drum pulley of a domestic appliance drive — the tight-frame, high-speed duty the 3V section is specified for.

2. Belt Marking & Code Meaning

How the section, the dimensions and the code on the belt are read.

2.1 Section dimensions

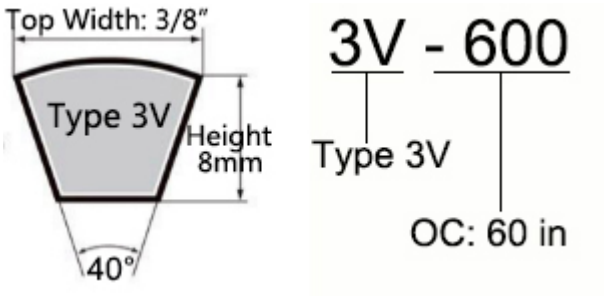


Figure 2: 3V (9N) belt cross-section showing the 3/8 inch (9.5 mm) top width, the 8 mm section height and the 40° wedge angle, together with the code naming convention (3V-600 = Type 3V, outside circumference 60 in).

2.2 What the code means

A 3V belt code is the section prefix **3V** followed by the outside circumference expressed in tenths of an inch. The code **3V-600** therefore means a Type 3V (9N) narrow V-belt with an outside circumference of **60.0 inches**, which is 1,524 mm. In the same way, 3V-235 has an outside circumference of 23.5 inches (597 mm), and 3V-2080 has an outside circumference of 208.0 inches (5,283 mm).

The number is the outside circumference, not the pitch length. Pitch length is shorter than outside circumference by the profile offset defined in ISO 4184, so a required pitch length has to be converted to the nearest 3V code before ordering — use the complete size chart in sectio n 4 for that conversion.

2.3 Marking on the belt

Each belt is moulded with the section prefix, the outside-circumference code and a production code on the wrapped cover, together with the anti-static, oil-resistant and heat-resistant class markings. A belt that has been in service can therefore be identified and re-ordered without measuring the drive. The example belt shown below carries the code 3V530 together with the anti-static / oil & heat resistant jacket marking.



Figure 3: Belt marking detail on a wrapped 3V (9N) narrow V-belt: the moulded 3V530 code and the anti-static / oil & heat resistant jacket marking on the cover.

2.4 Matched sets

Drives that run more than one belt should be ordered as a matched set. Moulded-to-length belts share the load evenly, whereas one new belt beside worn belts runs tight, takes almost all the tension and fails early — so replace the full set together.

3. Technical Specifications

The values below are the same for every size in the range, from the shortest 3V-235 to the longest 3V-2080.

Table 1 (9N) 3V Belt — Technical Specifications

Property	Specification
Profile / Section	3V (9N) wrapped narrow V-belt
Top Width	3/8 in (9.5 mm)
Section Height	8 mm (0.31 in)
Wedge Angle	40° (included)
Body Compound	Chloroprene rubber (CR)
Tension Member	High-tenacity polyester cord
Outer Cover	Wrapped treated fabric jacket
Standard	Conforms to ISO 4184 (9N / 3V profile, narrow V-belts)
Transmission Efficiency	95%+
Maximum Belt Speed	40 m/s
Operating Temperature	−40 °C to +90 °C
Resistance	Oil, chemical, ozone and anti-static
Power vs Classical V-Belt	+50–80% at equal top width
Length Range (Outside Circ.)	3V-235 to 3V-2080 — 23.5 in – 208.0 in (597 mm – 5,283 mm)
Minimum Order Quantity	100 pcs per size
Standard Delivery	15–20 days from order confirmation
Indicative Price Range	US$2.04 – US$18.53 per piece (varies by size and quantity)

In plain terms, the 3V belt has a 3/8 inch (9.5 mm) top width, an 8 mm section height and a 40° wedge, and runs at up to 40 m/s between −40 °C and +90 °C.

4. Complete 3V Size Chart

Table 2 Complete (9N) 3V Belt Size Chart (3V-235 to 3V-2080)

Belt Code	OC (in)	OC (mm)	Belt Code	OC (in)	OC (mm)	Belt Code	OC (in)	OC (mm)	Belt Code	OC (in)	OC (mm)
3V-235	23.5	597	3V-540	54.0	1372	3V-985	98.5	2502	3V-1550	155.0	3937
3V-240	24.0	610	3V-550	55.0	1397	3V-990	99.0	2515	3V-1560	156.0	3962
3V-245	24.5	622	3V-560	56.0	1422	3V-1000	100.0	2540	3V-1570	157.0	3988
3V-250	25.0	635	3V-570	57.0	1448	3V-1010	101.0	2565	3V-1580	158.0	4013
3V-255	25.5	648	3V-580	58.0	1473	3V-1020	102.0	2591	3V-1590	159.0	4039
3V-260	26.0	660	3V-590	59.0	1499	3V-1030	103.0	2616	3V-1600	160.0	4064
3V-265	26.5	673	3V-600	60.0	1524	3V-1040	104.0	2642	3V-1610	161.0	4089
3V-270	27.0	686	3V-610	61.0	1549	3V-1050	105.0	2667	3V-1620	162.0	4115
3V-275	27.5	698	3V-620	62.0	1575	3V-1060	106.0	2692	3V-1630	163.0	4140
3V-280	28.0	711	3V-625	62.5	1588	3V-1070	107.0	2718	3V-1640	164.0	4166
3V-285	28.5	724	3V-630	63.0	1600	3V-1080	108.0	2743	3V-1650	165.0	4191
3V-290	29.0	737	3V-635	63.5	1613	3V-1090	109.0	2769	3V-1660	166.0	4216
3V-295	29.5	749	3V-640	64.0	1626	3V-1100	110.0	2794	3V-1670	167.0	4242
3V-300	30.0	762	3V-650	65.0	1651	3V-1110	111.0	2819	3V-1680	168.0	4267
3V-305	30.5	775	3V-655	65.5	1664	3V-1120	112.0	2845	3V-1690	169.0	4293
3V-310	31.0	787	3V-660	66.0	1676	3V-1130	113.0	2870	3V-1700	170.0	4318
3V-315	31.5	800	3V-670	67.0	1702	3V-1140	114.0	2896	3V-1710	171.0	4343
3V-320	32.0	813	3V-680	68.0	1727	3V-1150	115.0	2921	3V-1720	172.0	4369
3V-325	32.5	826	3V-690	69.0	1753	3V-1160	116.0	2946	3V-1730	173.0	4394
3V-330	33.0	838	3V-700	70.0	1778	3V-1170	117.0	2972	3V-1740	174.0	4420
3V-335	33.5	851	3V-710	71.0	1803	3V-1180	118.0	2997	3V-1750	175.0	4445
3V-340	34.0	864	3V-720	72.0	1829	3V-1190	119.0	3023	3V-1760	176.0	4470
3V-345	34.5	876	3V-730	73.0	1854	3V-1200	120.0	3048	3V-1770	177.0	4496
3V-350	35.0	889	3V-740	74.0	1880	3V-1210	121.0	3073	3V-1780	178.0	4521
3V-355	35.5	902	3V-750	75.0	1905	3V-1220	122.0	3099	3V-1790	179.0	4547
3V-360	36.0	914	3V-760	76.0	1930	3V-1230	123.0	3124	3V-1800	180.0	4572
3V-365	36.5	927	3V-770	77.0	1956	3V-1240	124.0	3150	3V-1810	181.0	4597
3V-370	37.0	940	3V-775	77.5	1968	3V-1250	125.0	3175	3V-1820	182.0	4623
3V-375	37.5	952	3V-780	78.0	1981	3V-1260	126.0	3200	3V-1830	183.0	4648
3V-380	38.0	965	3V-785	78.5	1994	3V-1270	127.0	3226	3V-1840	184.0	4674
3V-385	38.5	978	3V-790	79.0	2007	3V-1280	128.0	3251	3V-1850	185.0	4699
3V-390	39.0	991	3V-800	80.0	2032	3V-1290	129.0	3277	3V-1860	186.0	4724
3V-395	39.5	1003	3V-810	81.0	2057	3V-1300	130.0	3302	3V-1870	187.0	4750
3V-400	40.0	1016	3V-820	82.0	2083	3V-1310	131.0	3327	3V-1880	188.0	4775
3V-405	40.5	1029	3V-825	82.5	2096	3V-1320	132.0	3353	3V-1890	189.0	4801
3V-410	41.0	1041	3V-830	83.0	2108	3V-1330	133.0	3378	3V-1900	190.0	4826
3V-415	41.5	1054	3V-835	83.5	2121	3V-1340	134.0	3404	3V-1910	191.0	4851
3V-420	42.0	1067	3V-840	84.0	2134	3V-1350	135.0	3429	3V-1920	192.0	4877
3V-425	42.5	1080	3V-850	85.0	2159	3V-1360	136.0	3454	3V-1930	193.0	4902
3V-430	43.0	1092	3V-860	86.0	2184	3V-1370	137.0	3480	3V-1940	194.0	4928
3V-435	43.5	1105	3V-865	86.5	2197	3V-1380	138.0	3505	3V-1950	195.0	4953
3V-440	44.0	1118	3V-870	87.0	2210	3V-1390	139.0	3531	3V-1960	196.0	4978
3V-445	44.5	1130	3V-875	87.5	2222	3V-1400	140.0	3556	3V-1970	197.0	5004
3V-450	45.0	1143	3V-880	88.0	2235	3V-1410	141.0	3581	3V-1980	198.0	5029
3V-455	45.5	1156	3V-890	89.0	2261	3V-1420	142.0	3607	3V-1990	199.0	5055
3V-460	46.0	1168	3V-900	90.0	2286	3V-1430	143.0	3632	3V-2000	200.0	5080
3V-465	46.5	1181	3V-910	91.0	2311	3V-1440	144.0	3658	3V-2010	201.0	5105
3V-470	47.0	1194	3V-920	92.0	2337	3V-1450	145.0	3683	3V-2020	202.0	5131
3V-475	47.5	1206	3V-930	93.0	2362	3V-1460	146.0	3708	3V-2030	203.0	5156
3V-480	48.0	1219	3V-940	94.0	2388	3V-1470	147.0	3734	3V-2040	204.0	5182
3V-485	48.5	1232	3V-945	94.5	2400	3V-1480	148.0	3759	3V-2050	205.0	5207
3V-490	49.0	1245	3V-950	95.0	2413	3V-1490	149.0	3785	3V-2060	206.0	5232
3V-495	49.5	1257	3V-960	96.0	2438	3V-1500	150.0	3810	3V-2070	207.0	5258
3V-500	50.0	1270	3V-965	96.5	2451	3V-1510	151.0	3835	3V-2080	208.0	5283
3V-510	51.0	1295	3V-970	97.0	2464	3V-1520	152.0	3861			
3V-520	52.0	1321	3V-975	97.5	2476	3V-1530	153.0	3886			
3V-530	53.0	1346	3V-980	98.0	2489	3V-1540	154.0	3912			

Every size in the range — 225 belt codes from 3V-235 to 3V-2080 — is listed above with its outside circumference (OC) in inches and millimetres: the figure after 3V gives the circumference in tenths of an inch, and the millimetre column converts it at 1 in = 25.4 mm, rounded to the nearest millimetre. 3V-235 is the shortest belt listed, at 23.5 inches (597 mm), and 3V-2080 is the longest, at 208.0 inches (5,283 mm). Every size in the chart is available to order, and lengths outside the range are supplied as custom items.

> All 3V belts in this catalogue conform to the ISO 4184 standard for narrow V-belt drives (9N profile), which fixes the section dimensions and length tolerances.

Download the 3V Belt Specification PDF from the product page: https://drive-belt.com/v-belts/3v-belt

5. Materials & Construction

5.1 Tension member

High-tenacity polyester cords give the 3V belt its tensile strength with very low elongation under load; they are bonded into the rubber body and hold their length under tension, so the belt does not run slack after break-in.

5.2 Body compound and outer cover

The compression section is chloroprene rubber (CR), giving heat and cold resistance, oil and chemical resistance, ozone resistance and anti-static performance. A treated fabric is wrapped around the full belt to protect the sidewalls from abrasion and oil mist and to keep the drive gripping in the sheave groove.

6. Contact & Ordering Information

Send the belt code, the quantity and the required delivery date. We will confirm stock, issue a formal quote and ship within 15–20 days.

> **Company:** Pingxiang Husheng Rubber Products Co.,Ltd · **Brand:** Shusheng
> **Website:** https://drive-belt.com · **3V Belt page:** https://drive-belt.com/v-belts/3v-belt
> **Email:** panhusheng@zohomail.cn
> **Tel / WhatsApp:** +86 151 0799 3145
> **Address:** No. 132 Xihuan Road, Anyuan District, Pingxiang City, Jiangxi Province, China

Live size options, pricing and the download link for this specification file are on the 3V Belt product page.