

Vee Packing Components - Inch

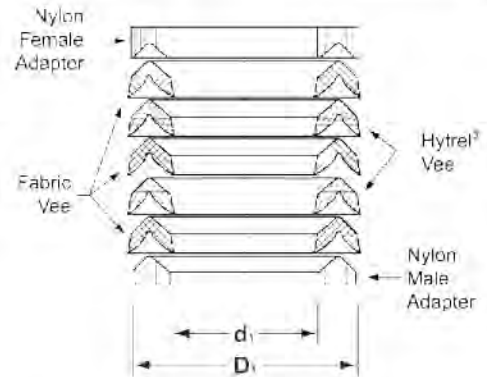
Suffix Listing

* Add suffix to Size Number to specify component Part Number

- FN = Nylon Female Adapter
- FF = Fabric Female Adapter
- VF = Fabric Vee
- VH = Hytrel® Vee
- VB = Homogeneous Nitrile Vee
- MN = Nylon Male Adapter
- MF = Fabric Male Adapter



ALTERNATIVE SEALS: U-CUP with Back Up



EXAMPLE: VP37504375VF				
Prefix	Inside Diameter	Outside Diameter	Style	Material
VP	3750	4375	V	F
	3-3/4"	4-3/8"	VEE RING	NBR/FAB

The next few pages contain a listing of solid vee packing. Most of these sizes correspond to the stack height chart below. Glass filled nylon adapters (for extrusion resistance) and Hytrel® vees (for dry wiping action) are standard in most sizes under 10" O.D. Also available, are plus and minus adapters for meeting your non-standard stack height requirements.

NOTE: Not all sizes available in all materials or all components. Please contact our sales department for more information.

Virtually any size packing, up to 40", can be made. The stack height chart does not apply for spiral packing sets or fabric adapters.

Standard material: Cotton reinforced nitrile rubber is compatible with most petroleum based fluids including gasoline, and can be used in constant temperatures to 250°F. Hytrel® is an engineered thermoplastic with a low friction coefficient and high abrasion resistance. It works well when alternated between fabric and rubber vees. Up to three Hytrel® vees may be used in a set or by themselves. Cotton reinforced FKM will work in constant temperatures to 300°F, with good resistance to swell. Glass filled nylon adapters are compatible with most fluids and will withstand constant temperatures up to 275°F, making them suitable for use with FKM and duck for semi-high temperature and fluid applications. Vitex (FKM and nomex; a very high temperature fabric containing kevlar and fiberglass) can be used at constant temperatures up to 400°F. Contact our sales office with application for material recommendations.

NOTE: VEE SPLITTING CHARGE - \$.50 / RING, VEE CUT DOWNS - \$.500 / RING

Stack Height Chart

* Stack heights include top and bottom adaptors

Cross Section (fraction)	Height Per Vee (decimal)	2 Vee Ring Stack HT	3 Vee Ring Stack HT	4 Vee Ring Stack HT	5 Vee Ring Stack HT	6 Vee Ring Stack HT
3/16	0.187	0.109	0.532	0.641	0.750	0.968
1/4	0.250	0.125	0.592	0.718	0.843	1.093
.275	0.275	0.138	0.640	0.781	0.921	1.203
5/16	0.312	0.156	0.687	0.843	1.000	1.312
3/8	0.375	0.187	0.781	0.968	1.156	1.531
7/16	0.437	0.218	0.875	1.093	1.312	1.750
1/2	0.500	0.250	0.968	1.218	1.468	1.968
5/8	0.625	0.312	1.156	1.468	1.781	2.406
3/4	0.750	0.375	1.343	1.718	2.093	2.843

Recommended Number of Vees per Set

The information shown in the following chart is for general guidance only. Because of the many variables in design and application, no inflexible formula for determining the number of vees can be prepared. Therefore, this chart should be used

as a guide, and testing should be done prior to implementation. Furthermore, pressure ratings can be increased by using machined adapters with close tolerances and minimal extrusion gaps.

Diameter of Rod	Up to 3,000 PSI		Up to 5,000 PSI		Up to 10,000 PSI	
	Cross Section	Vee Rings	Cross Section	Vee Rings	Cross Section	Vee Rings
1" to 3"	1/4"	4	1/4"	5	1/4"	6
3" to 6"	1/4"	4	1/4"	5	3/8"	6
6" to 8"	3/8"	4	3/8"	5	1/2"	6
8" to 14"	1/2"	4	1/2"	5	1/2"	6
14" to 24"	5/8"	4	5/8"	5	5/8"	6
24" to 36"	3/4"	4	3/4"	5	3/4"	6

Vee Packing Components - Inch, cont'd.

Size Number*	Inside Dia. d_1	Outside Dia. D_1	Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP250625	0.250	0.625	VP13752125	1.375	2.125
VP250750	0.250	0.750	VP13752250	1.375	2.250
VP250875	0.250	0.875	VP14371937	1.437	1.937
VP375625	0.375	0.625	VP14372062	1.437	2.062
VP375750	0.375	0.750	VP14372187	1.437	2.187
VP375875	0.375	0.875	VP15001875	1.500	1.875
VP375937	0.375	0.937	VP15002000	1.500	2.000
VP437812	0.437	0.812	VP15002125	1.500	2.125
VP500875	0.500	0.875	VP15002250	1.500	2.250
VP500937	0.500	0.937	VP15002375	1.500	2.375
VP5001000	0.500	1.000	VP15002500	1.500	2.500
VP5001125	0.500	1.125	VP15622062	1.562	2.062
VP562937	0.562	0.937	VP16252000	1.625	2.000
VP625875	0.625	0.875	VP16252125	1.625	2.125
VP6251000	0.625	1.000	VP16252250	1.625	2.250
VP6251125	0.625	1.125	VP16252375	1.625	2.375
VP6251250	0.625	1.250	VP16252625	1.625	2.625
VP6871187	0.687	1.187	VP17502125	1.750	2.125
VP7501125	0.750	1.125	VP17502250	1.750	2.250
VP7501250	0.750	1.250	VP17502265	1.750	2.265
VP7501375	0.750	1.375	VP17502375	1.750	2.375
VP7501500	0.750	1.500	VP17502500	1.750	2.500
VP8121187	0.812	1.187	VP17502750	1.750	2.750
VP8121312	0.812	1.312	VP17662875	1.766	2.875
VP8751250	0.875	1.250	VP17752525	1.775	2.525
VP6251125	0.625	1.125	VP18752375	1.875	2.375
VP8751375	0.875	1.375	VP18752390	1.875	2.390
VP8751500	0.875	1.500	VP18752500	1.875	2.500
VP8751625	0.875	1.625	VP18752530	1.875	2.530
VP9371437	0.937	1.437	VP18752625	1.875	2.625
VP10001375	1.000	1.375	VP19702520	1.970	2.520
VP10001500	1.000	1.500	VP20002375	2.000	2.375
VP10001625	1.000	1.625	VP20002500	2.000	2.500
VP10001750	1.000	1.750	VP20002515	2.000	2.515
VP10002000	1.000	2.000	VP20002562	2.000	2.562
VP10621562	1.062	1.562	VP20002625	2.000	2.625
VP11251500	1.125	1.500	VP20002687	2.000	2.687
VP11251625	1.125	1.625	VP20002750	2.000	2.750
VP11251750	1.125	1.750	VP20002875	2.000	2.875
VP11251875	1.125	1.875	VP20003000	2.000	3.000
VP11871562	1.187	1.562	VP20003250	2.000	3.250
VP11871687	1.187	1.687	VP21252562	2.125	2.562
VP11871750	1.187	1.750	VP21252625	2.125	2.625
VP12501625	1.250	1.625	VP21252640	2.125	2.640
VP12501750	1.250	1.750	VP21252750	2.125	2.750
VP12501875	1.250	1.875	VP21252875	2.125	2.875
VP12502000	1.250	2.000	VP21253000	2.125	3.000
VP12502125	1.250	2.125	VP21253125	2.125	3.125
VP12502250	1.250	2.250	VP21872937	2.187	2.937
VP12502500	1.250	2.500	VP22002765	2.200	2.765
VP13121812	1.312	1.812	VP22502750	2.250	2.750
VP13122062	1.312	2.062	VP22502875	2.250	2.875
VP13751750	1.375	1.750	VP22503000	2.250	3.000
VP13751875	1.375	1.875	VP22503020	2.250	3.020
VP13752000	1.375	2.000	VP22503125	2.250	3.125

*Add suffix to size number for complete part number. See Page 344 for suffix listing.

Vee Packing Components - Inch, cont'd.

Size Number*	Inside Dia. d_1	Outside Dia. D_1	Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP22503250	2.250	3.250	VP31874250	3.187	4.250
VP22503500	2.250	3.500	VP32003770	3.200	3.770
VP22753025	2.275	3.025	VP32503625	3.250	3.625
VP23752875	2.375	2.875	VP32503750	3.250	3.750
VP23753000	2.375	3.000	VP32503770	3.250	3.770
VP23753125	2.375	3.125	VP32503875	3.250	3.875
VP24373187	2.437	3.187	VP32504000	3.250	4.000
VP24503000	2.450	3.000	VP32504020	3.250	4.020
VP24503020	2.450	3.020	VP32504250	3.250	4.250
VP25002875	2.500	2.875	VP32504500	3.250	4.500
VP25003000	2.500	3.000	VP33753875	3.375	3.875
VP25003125	2.500	3.125	VP33754000	3.375	4.000
VP25003250	2.500	3.250	VP33754125	3.375	4.125
VP25003375	2.500	3.375	VP33754375	3.375	4.375
VP25003500	2.500	3.500	VP33754625	3.375	4.625
VP25003750	2.500	3.750	VP34504000	3.450	4.000
VP25253025	2.525	3.025	VP34504250	3.450	4.250
VP25803110	2.580	3.110	VP35004000	3.500	4.000
VP26253125	2.625	3.125	VP35004020	3.500	4.020
VP26253250	2.625	3.250	VP35004125	3.500	4.125
VP26253375	2.625	3.375	VP35004250	3.500	4.250
VP26603410	2.660	3.410	VP35004270	3.500	4.270
VP27503250	2.750	3.250	VP35004375	3.500	4.375
VP27503270	2.750	3.270	VP35004500	3.500	4.500
VP27503375	2.750	3.375	VP35004750	3.500	4.750
VP27503500	2.750	3.500	VP35005000	3.500	5.000
VP27503520	2.750	3.520	VP35204020	3.520	4.020
VP27503530	2.750	3.530	VP35804110	3.580	4.110
VP27503625	2.750	3.625	VP36254125	3.625	4.125
VP27503750	2.750	3.750	VP36254250	3.625	4.250
VP27504000	2.750	4.000	VP36254375	3.625	4.375
VP27753525	2.775	3.525	VP36904190	3.690	4.190
VP28283578	2.828	3.578	VP37004270	3.700	4.270
VP28753375	2.875	3.375	VP37504250	3.750	4.250
VP28753500	2.875	3.500	VP37504375	3.750	4.375
VP28753625	2.875	3.625	VP37504500	3.750	4.500
VP28753875	2.875	3.875	VP37504520	3.750	4.520
VP29503450	2.950	3.450	VP37504750	3.750	4.750
VP29503500	2.950	3.500	VP37505000	3.750	5.000
VP29503625	2.950	3.625	VP37754525	3.775	4.525
VP29703520	2.970	3.520	VP38754375	3.875	4.375
VP30003500	3.000	3.500	VP38754500	3.875	4.500
VP30003520	3.000	3.520	VP38754625	3.875	4.625
VP30003625	3.000	3.625	VP39504500	3.950	4.500
VP30003750	3.000	3.750	VP39504750	3.950	4.750
VP30003875	3.000	3.875	VP39704520	3.970	4.520
VP30004000	3.000	4.000	VP40004500	4.000	4.500
VP30004250	3.000	4.250	VP40004525	4.000	4.525
VP30004500	3.000	4.500	VP40004562	4.000	4.562
VP31253500	3.125	3.500	VP40004625	4.000	4.625
VP31253625	3.125	3.625	VP40004750	4.000	4.750
VP31253750	3.125	3.750	VP40004875	4.000	4.875
VP31253875	3.125	3.875	VP40005000	4.000	5.000
VP31254000	3.125	4.000	VP40005250	4.000	5.250
VP31873687	3.187	3.687	VP40005500	4.000	5.500

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Vee Packing Components - Inch, cont'd.

Size Number*	Inside Dia. d ₁	Outside Dia. D ₁	Size Number*	Inside Dia. d ₁	Outside Dia. D ₁
VP40624812	4.062	4.812	VP52506250	5.250	6.250
VP41254625	4.125	4.625	VP52756025	5.275	6.025
VP41255000	4.125	5.000	VP53756000	5.375	6.000
VP41255025	4.125	5.025	VP53756125	5.375	6.125
VP41255125	4.125	5.125	VP53756250	5.375	6.250
VP41875500	4.187	5.500	VP54455945	5.445	5.945
VP42004750	4.200	4.750	VP54506000	5.450	6.000
VP42504750	4.250	4.750	VP54756025	5.475	6.025
VP42504875	4.250	4.875	VP55006000	5.500	6.000
VP42505000	4.250	5.000	VP55006125	5.500	6.125
VP42505030	4.250	5.030	VP55006250	5.500	6.250
VP42505125	4.250	5.125	VP55006375	5.500	6.375
VP42505250	4.250	5.250	VP55006500	5.500	6.500
VP42755025	4.275	5.025	VP55006750	5.500	6.750
VP43754875	4.375	4.875	VP55007000	5.500	7.000
VP43755000	4.375	5.000	VP56256250	5.625	6.250
VP43755375	4.375	5.375	VP56256625	5.625	6.625
VP44374937	4.437	4.937	VP57006450	5.700	6.450
VP44505000	4.450	5.000	VP57506250	5.750	6.250
VP45005000	4.500	5.000	VP57506375	5.750	6.375
VP45005125	4.500	5.125	VP57506500	5.750	6.500
VP45005250	4.500	5.250	VP57506750	5.750	6.750
VP45005375	4.500	5.375	VP57507000	5.750	7.000
VP45005500	4.500	5.500	VP57507250	5.750	7.250
VP45005530	4.500	5.530	VP57756525	5.775	6.525
VP45005750	4.500	5.750	VP58126812	5.812	6.812
VP45006000	4.500	6.000	VP59506500	5.950	6.500
VP45805080	4.580	5.080	VP59706520	5.970	6.520
VP46255250	4.625	5.250	VP60006500	6.000	6.500
VP47005250	4.700	5.250	VP60006525	6.000	6.525
VP47005290	4.700	5.290	VP60006625	6.000	6.625
VP47005445	4.700	5.445	VP60006750	6.000	6.750
VP47505250	4.750	5.250	VP60007000	6.000	7.000
VP47505375	4.750	5.375	VP60007040	6.000	7.040
VP47505500	4.750	5.500	VP60007250	6.000	7.250
VP47505625	4.750	5.625	VP60007500	6.000	7.500
VP47505750	4.750	5.750	VP60306780	6.030	6.780
VP48755625	4.875	5.625	VP62506750	6.250	6.750
VP49505500	4.950	5.500	VP62506875	6.250	6.875
VP49705520	4.970	5.520	VP62507000	6.250	7.000
VP50005500	5.000	5.500	VP62507250	6.250	7.250
VP50005525	5.000	5.525	VP63757000	6.375	7.000
VP50005562	5.000	5.562	VP64456945	6.445	6.945
VP50005625	5.000	5.625	VP64507000	6.450	7.000
VP50005750	5.000	5.750	VP64507250	6.450	7.250
VP50005875	5.000	5.875	VP65007000	6.500	7.000
VP50006000	5.000	6.000	VP65007062	6.500	7.062
VP50006040	5.000	6.040	VP65007250	6.500	7.250
VP50006250	5.000	6.250	VP65007500	6.500	7.500
VP50006500	5.000	6.500	VP65007750	6.500	7.750
VP50625562	5.062	5.562	VP65008000	6.500	8.000
VP51255625	5.125	5.625	VP66257250	6.625	7.250
VP51256000	5.125	6.000	VP67007250	6.700	7.250
VP52505750	5.250	5.750	VP67007500	6.700	7.500
VP52506000	5.250	6.000	VP67507250	6.750	7.250

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Vee Packing Components - Inch, cont'd.

Size Number*	Inside Dia. d ₁	Outside Dia. D ₁	Size Number*	Inside Dia. d ₁	Outside Dia. D ₁
VP67507375	6.750	7.375	VP85009500	8.500	9.500
VP67507500	6.750	7.500	VP850010000	8.500	10.000
VP67507750	6.750	7.750	VP850010062	8.500	10.062
VP67508000	6.750	8.000	VP875010000	8.750	10.000
VP68127812	6.812	7.812	VP88759875	8.875	9.875
VP68757625	6.875	7.625	VP887510000	8.875	10.000
VP68757875	6.875	7.875	VP89509500	8.950	9.500
VP69507500	6.950	7.500	VP89509750	8.950	9.750
VP69707520	6.970	7.520	VP90009500	9.000	9.500
VP70007500	7.000	7.500	VP90009750	9.000	9.750
VP70007525	7.000	7.525	VP900010000	9.000	10.000
VP70007750	7.000	7.750	VP900010250	9.000	10.250
VP70008000	7.000	8.000	VP900010500	9.000	10.500
VP70008250	7.000	8.250	VP91259650	9.125	9.650
VP70008500	7.000	8.500	VP91259675	9.125	9.675
VP72507750	7.250	7.750	VP91259750	9.125	9.750
VP72508000	7.250	8.000	VP912510125	9.125	10.125
VP72508250	7.250	8.250	VP92409790	9.240	9.790
VP73758000	7.375	8.000	VP92509750	9.250	9.750
VP74457945	7.445	7.945	VP925010250	9.250	10.250
VP75008000	7.500	8.000	VP925010500	9.250	10.500
VP75008125	7.500	8.125	VP931210562	9.312	10.562
VP75008250	7.500	8.250	VP93759875	9.375	9.875
VP75008500	7.500	8.500	VP93759910	9.375	9.910
VP75008750	7.500	8.750	VP937510000	9.375	10.000
VP75009000	7.500	9.000	VP950010000	9.500	10.000
VP77508250	7.750	8.250	VP950010250	9.500	10.250
VP77508375	7.750	8.375	VP950010500	9.500	10.500
VP77508500	7.750	8.500	VP975010500	9.750	10.500
VP77509000	7.750	9.000	VP987510625	9.875	10.625
VP78758500	7.875	8.500	VP987510875	9.875	10.875
VP78758875	7.875	8.875	VP987511000	9.875	11.000
VP78759000	7.875	9.000	VP987511375	9.875	11.375
VP79058543	7.905	8.543	VP1000010500	10.000	10.500
VP79259170	7.925	9.170	VP1000011000	10.000	11.000
VP79508500	7.950	8.500	VP1000011250	10.000	11.250
VP79708520	7.970	8.520	VP1000011500	10.000	11.500
VP80008500	8.000	8.500	VP1025011500	10.250	11.500
VP80008525	8.000	8.525	VP1025011750	10.250	11.750
VP80008750	8.000	8.750	VP1037511375	10.375	11.375
VP80009000	8.000	9.000	VP1045011250	10.450	11.250
VP80009040	8.000	9.040	VP1047011020	10.470	11.020
VP80009250	8.000	9.250	VP1050011000	10.500	11.000
VP80009500	8.000	9.500	VP1050011250	10.500	11.250
VP80509050	8.050	9.050	VP1050011500	10.500	11.500
VP810010000	8.100	10.000	VP1062512125	10.625	12.125
VP81258625	8.125	8.625	VP1075012000	10.750	12.000
VP81258655	8.125	8.655	VP1087511875	10.875	11.875
VP81879437	8.187	9.437	VP1087512000	10.875	12.000
VP82509000	8.250	9.000	VP1095011750	10.950	11.750
VP82509250	8.250	9.250	VP1100012000	11.000	12.000
VP83759125	8.375	9.125	VP1100012500	11.000	12.500
VP84459195	8.445	9.195	VP1100012750	11.000	12.750
VP85009000	8.500	9.000	VP1125012000	11.250	12.000
VP85009250	8.500	9.250	VP1137512375	11.375	12.375

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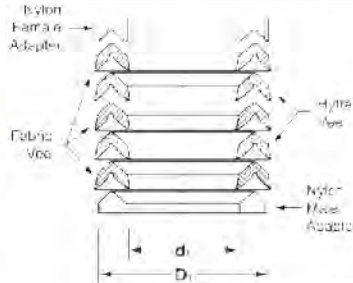
Vee Packing Components - Inch, cont'd.

Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP1143712437	11.437	12.437
VP1187512875	11.875	12.875
VP1187513000	11.875	13.000
VP1195012500	11.950	12.500
VP1195012750	11.950	12.750
VP1200012750	12.000	12.750
VP1200013000	12.000	13.000
VP1200013250	12.000	13.250
VP1200013500	12.000	13.500
VP1250013250	12.500	13.250
VP1250014000	12.500	14.000
VP1275013250	12.750	13.250
VP1300014000	13.000	14.000
VP1318714187	13.187	14.187
VP1325014000	13.250	14.000
VP1325014250	13.250	14.250
VP1375014500	13.750	14.500

Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP1381214812	13.812	14.812
VP1400015000	14.000	15.000
VP1400015500	14.000	15.500
VP1450016000	14.500	16.000
VP1500016000	15.000	16.000
VP1500016250	15.000	16.250
VP1600017500	16.000	17.500
VP1700018000	17.000	18.000
VP1700018500	17.000	18.500
VP1750019000	17.500	19.000
VP1900020500	19.000	20.500
VP2000021000	20.000	21.000
VP2000021500	20.000	21.500
VP2175023250	21.750	23.250
VP2300024500	23.000	24.500
VP2400025500	24.000	25.500

*Add suffix to size number for complete part number. See Page 344 for suffix listing.

Vee Packing Components - Metric



* Add suffix to Size Number to specify component Part Number

- FN = Nylon Female Adapter
- FF = Fabric Female Adapter
- VF = Fabric Vee
- VH = Hytrel® Vee
- VB = Homogeneous Nitrile Vee
- MN = Nylon Male Adapter
- MF = Fabric Male Adapter

NOTE: Not all sizes have availability of tops, bottoms and vees. Please consult sales.

PART #'S WERE CREATED IN INCHES.
TO CONVERT TO METRIC MULTIPLY BY .0254

EXAMPLE: VP15752165FN

Prefix	Inside Diameter	Outside Diameter	Style	Material
VP	1575	2165	F	N
	40mm	55mm	FEMALE	NYLON

Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP15752165	40	55
VP19692559	50	65
VP21652756	55	70
VP23622953	60	75
VP24803071	63	78
VP25593150	65	80
VP27563347	70	85
VP27563543	70	90
VP29533543	75	90
VP31503740	80	95
VP31503937	80	100
VP33463937	85	100
VP35434134	90	105
VP35434331	90	110
VP39374724	100	120

Size Number*	Inside Dia. d_1	Outside Dia. D_1
VP43314921	110	125
VP44105197	112	132
VP53156299	135	160
VP55126299	140	160
VP55126693	140	170
VP59056889	150	175
VP59057087	150	180
VP62997087	160	180
VP62997284	160	185
VP82689055	210	230
VP86629843	220	250
VP984310630	250	270
VP984311024	250	280
VP1141712205	290	310

*Add suffix to size number for complete part number. See above for suffix listing.