

HMS HUBS, INC. - PICTURE INDEX

<p>VS-01</p> 	<p>Spindle length: 2.120" (~2 1/8") Flange Dia.: ** Rubber O.D.: 1.340" Max. Inside Dia.: 0.461" Uses Wear Ring: none Rubber Duro: 70 Spline count: 8 spline</p>	<p>Applications:</p> <p>Mercury 20 hp (rh) Mercury 28, 28A, 200 and 250 (lh)</p> <p>Splined almost entire length of spindle.</p>
<p>VS-02</p> 	<p>Spindle length: 2.830" (~2 13/16") Flange Dia.: ** Rubber O.D.: 2.155" Max. Inside Dia.: 0.800" Uses Wear Ring: VSR-98 Rubber Duro: 70 Spline count: 11 spline</p>	<p>Applications:</p> <p>Mercury Mark Models 300-500 Mercuriser Model O 60 hp</p> <p>Note: Only 11 spline currently made by HMS.</p>
<p>VS-03</p> 	<p>Spindle length: 3.830" (~3 13/16") Flange Dia.: 1.420" Rubber O.D.: 1.640" Max. Inside Dia.: 0.740" Uses Wear Ring: none Rubber Duro: 70 Spline count: 10 spline</p>	<p>Applications:</p> <p>Force, Chrysler 25 hp* *1 7/16" hub cavity Mercury 9.9-25 hp** **1 3/8" hub cavity</p>
<p>VS-04</p> 	<p>Spindle length: 4.725" (~4 3/4") Flange Dia.: ** Rubber O.D.: 3.375" Max. Inside Dia.: 1.265" Uses Wear Ring: none Rubber Duro: 80 Spline count: 19 spline</p>	<p>Applications:</p> <p>Mercuriser II-TR, 215E & 215H, Bravo Two</p>
<p>VS-05</p> 	<p>Spindle length: 3.680" (~3 11/16") Flange Dia.: ** Rubber O.D.: 2.700" Max. Inside Dia.: 1.060" Uses Wear Ring: none Rubber Duro: 70 Spline count: 13 spline</p>	<p>Applications:</p> <p>Johnson/Evinrude 40-70 hp, Large Gearcase models Johnson/Evinrude 85-140 hp V4 Raker V4 Gearcase Models OMC Model 400 OMC Cobra Sterndrive Suzuki 60-140 hp* Sea Drive 4 1/4" Gearcase</p>

*For Suzuki Four stroke, DF 90, DF 115 (2001 and newer) and DF 140 (2002 and newer), Use a VS-13 or VS-08.

<p>VS-05T</p> 	<p>Spindle length: 3.635 (~3 5/8") Flange Dia.: 2.240" Rubber O.D.: 2.700" Max. Inside Dia.: 1.060" Uses Wear Ring: none Rubber Duro: 70 Spline count: 13 spline</p>	<p>Applications: OMC Model 400 Sterndrive Turbo Propellers Suzuki V4 and OMC V4 Turbo Propellers</p>
<p>VS-06</p> 	<p>Spindle length: 2.780" (~2 3/4") Flange Dia.: 1.595" Rubber O.D.: 1.774" Max. Inside Dia.: 0.809" Uses Wear Ring: none Rubber Duro: 70 Spline count: 14 spline w/ pin hole</p>	<p>Applications: Chrysler, Sea King 6-10 Chrysler, Sea King 20-60 hp</p> <p>Note: VS-66 only sell to Mercury, is like the -06, but shorter and w/ a snap ring groove Merc. # 819429.</p>
<p>VS-07</p> 	<p>Spindle length: 3.050 (~3 1/16") Flange Dia.: 3.000" Rubber O.D.: 3.470" Max. Inside Dia.: 1.160" Uses Wear Ring: VSR-100 Rubber Duro: 75 Spline count: 17 spline</p>	<p>Applications: Volvo 200, 250, 270, 280, 290, and SP (Standard hub)</p> <p>Splines extend to "nut" end of spindle.</p>
<p>VS-08</p> 	<p>Spindle length: 3.680" (~3 11/16") Flange Dia.: ** Rubber O.D.: 2.715" Max. Inside Dia.: 1.062" Uses Wear Ring: none Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications: Chrysler 70-140 hp Force 85-150 hp, Dual Exhaust Johnson/Evinrude 90-140 hp, 4-stroke Models Yamaha 50-130 hp* Mercury Outboards, Models 650-1500 Mariner 80 hp, 1977 only Mercury Mercruiser Thru 1982, 110-330 hp** Mercury 3Cyl., 4 & 6 Cyl. In-line, Thru 1977 Suzuki DF 90-140 hp Tohatsu, Nissan 60-140 hp**</p> <p>Note: Use VS-13 in Aluminum applications * VS-33 Alternate application for SS Yamaha ** VS-14 Alternate for V6 applications</p>
<p>VS-09</p> 	<p>Spindle length: 2.640" (~2 5/8") Flange Dia.: 1.595" Rubber O.D.: 1.774" Max. Inside Dia.: 0.755" Uses Wear Ring: none Rubber Duro: 70 Spline count: Pin Drive</p>	<p>Applications: Johnson/Evinrude, Gale 25-40 hp</p> <p>Early version of this hub was about 3/16" longer with a slot cut at motor end of spindle - Neither is necessary Replace with a VS-09.</p>
<p>VS-10</p> 	<p>Spindle length: 2.130" (~2 1/8") Flange Dia.: 1.390" Rubber O.D.: 1.578" Max. Inside Dia.: 0.625" Uses Wear Ring: none Rubber Duro: 75 Spline count: Pin Drive</p>	<p>Applications: Honda BF 7.5-10 hp* Johnson/Evinrude 10-25 hp Mariner 15-25 hp Yamaha 15-28 hp</p> <p>*OEM Honda propellers may have a larger hub cavity.</p>

**VS-11 and
VS-11-80**



Spindle length: 4.562" (~4 9/16")
 Flange Dia.: **
 Rubber O.D.: 3.125"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: VSR-99
 Rubber Duro: 70/80
 Spline count: 15 spline

Applications:

Johnson/Evinrude 90-300 hp, V6 Gearcase*
 OMC Model 800, OMC Cobra,
 OMC King Cobra (OEM)
 Sea Drive 4 3/4" Gearcase
 Fits V6 Raker

**Note: Use VS-11 in Aluminum applications.
 Use VS-11-80 in Stainless applications.**

2 1/2" hub cavity

Special Note: A VT-11 centering ring can prevent the hub from tipping during installation.

*VS-36 Alternate application for Forward installs in 2 1/4" cavity, fits OMC Shooter, Renegade and Michigan Hole Shot 4-blade, also, Current Production OEM and Aftermarket Aluminum Props.

VS-12



Spindle length: 4.610" (~4 5/8")
 Flange Dia.: 2.228"
 Rubber O.D.: 2.560"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: VSR-99
 Rubber Duro: 80
 Spline count: 15 spline

Applications:

Force 75-150 hp Using Mercury Gearcase
 Honda 75-130 hp
 Mercury, Mariner 40-140 hp, 1978 and newer
 Mercruiser V6 & V8 O/B 1983 and newer
 Mercury 3 Cyl., 4 & 6 Cyl. In-line 1978 and newer
 Michigan, Mercury SS Chopper
 Yamaha 80-140 hp

**Note: Use VS-27 for Aluminum applications
 VS-37 Alternate SS application, High Performance, Brass spindle.
 VS-23 Alternate SS application, High Performance, Aluminum spindle
 Castellated Aft insert**

VS-12T



Spindle length: 4.485" (~4 1/2")
 Flange Dia.: 2.228"
 Rubber O.D.: 2.560"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: VSR-99
 Rubber Duro: 80
 Spline count: 15 spline

Applications:

Mercury V6 and In-Line Turbo Propellers

VS-13



Spindle length: 3.680" (~3 11/16")
 Flange Dia.: **
 Rubber O.D.: 2.715"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: VSR-99
 Rubber Duro: 70
 Spline count: 15 spline

Applications:

Chrysler 70-140 hp
 Force 85-150 hp, Dual Exhaust
 Johnson/Evinrude
 90-140 hp, 4-stroke Models
 Mercury Outboards, Models 650-1500
 Mariner 80 hp, 1977 only
 Mercury Mercruiser Thru 1982, 110-330 hp**
 Mercury 3 Cyl., 4&6 Cyl. In-line, Thru 1977
 Suzuki DF 90-140 hp
 Tohatsu, Nissan 60-140 hp**
 Yamaha 50-130 hp*

**Note: Use VS-13 in Aluminum applications
 * VS-33 Alternate application for SS Yamaha
 ** VS-14 Alternate for V6 applications**

VS-14



Spindle length: 3.687" (~3 11/16")
 Flange Dia.: **
 Rubber O.D.: 2.560"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: none
 Rubber Duro: 80
 Spline count: 15 spline


Applications:

Mercury Mercruiser Thru 1982, 110-330 hp*
 Tohatsu, Nissan 90-140 hp, V6 applications
 Yamaha Sterndrive 3.0-5.7L**
 Yamaha 150-300 hp***

* Forward insert, SS application
 **VS-33 Alternate SS application Yamaha
 ***VS-45 Alternate SS choice, spline on the thick metal end of spline for Yamaha ONLY

<p>VS-15 and VS-15-80</p> 	<p>Spindle length: 3.424" (~3 1/2") Flange Dia.: 1.730" Rubber O.D.: 2.255" Max. Inside Dia.: 0.885" Uses Wear Ring: VSR-98 Rubber Duro: 70 Spline count: 13 spline</p> <p>Note: VS-15 is used in Aluminum applications. VS-15-80 is used in Stainless applications.</p>	<p>Applications:</p> <p>Force 40-75 hp Mercury, Mariner 25-80 hp Yamaha 40-70 hp</p>
<p>VS-16 and VS-16-70</p> 	<p>Spindle length: 3.945" (~3 15/16") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.062" Uses Wear Ring: VSR-99 Rubber Duro: 80 Spline count: 15 spline</p> <p>*Note: VS-16 is used in Stainless applications. VS-16-70 is used in Aluminum applications. VS-17 Square hub applications. VSP-52 Plastic Drop-In, sleeve only VS-65 Weld-In conversion hub for 1 1/4" propeller shaft</p>	<p>Applications:*</p> <p>Honda 135-225 hp Mercury 135-300 hp, V6 Gearcase Models Mercuriser Alpha One, 145-230 hp Mercuriser Alpha One, 110-190 hp Mercuriser Alpha One, Bravo One, and Gen II, 200-320 hp Alpha One 1987 and newer, 250-365 hp Bravo One 1988 and newer, 250-365 hp Yamaha 150-175 hp</p>
<p>VS-17</p> 	<p>Spindle length: 4.000" (~4.00") Flange Dia.: 2.035" Rubber O.D.: 2.550" Max. Inside Dia.: 1.062" Uses Wear Ring: VSR-99 Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications:</p> <p>Mercury 135-300 hp, V6 Gearcase Models Mercury Mercuriser: Black Max, Alpha One, Bravo One, Gen II Mercuriser Sport Chopper and Cleaver</p>
<p>VS-18</p> 	<p>Spindle length: 1.775" (~1 3/4") Flange Dia.: 1.390" Rubber O.D.: 1.578" Max. Inside Dia.: 0.600" Uses Wear Ring: none Rubber Duro: 75 Spline count: Pin Drive</p>	<p>Applications:</p> <p>Johnson/Evinrude 6-15 hp Yamaha 8 hp</p>
<p>VS-20</p> 	<p>Spindle length: 2.310" (~2 5/16") Flange Dia.: ** Rubber O.D.: 1.440" Max. Inside Dia.: 0.650" Uses Wear Ring: none Rubber Duro: 60 Spline count: 13 spline</p>	<p>Applications:</p> <p>Johnson/Evinrude 9.9-15 hp</p>

<p>VS-21</p> 	<p>Spindle length: 2.136" (~2 1/8") Flange Dia.: 1.390" Rubber O.D.: 1.575" Max. Inside Dia.: 0.600" Uses Wear Ring: none Rubber Duro: 75 Spline count: 13 spline</p>	<p>Applications: Johnson/Evinrude 14-28 hp</p>
<p>VS-22</p> 	<p>Spindle length: 2.815" (~2 13/16") Flange Dia.: 1.730" Rubber O.D.: 2.155" Max. Inside Dia.: 0.885" Uses Wear Ring: VSR-98 Rubber Duro: 70 Spline count: 15 spline</p>	<p>Applications: Yamaha 40-60 hp, Aft insert.</p>
<p>VS-23</p> 	<p>Spindle length: 4.625" (~4 5/8") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.060" Uses Wear Ring: VSR-99 Rubber Duro: 90 Spline count: 15 spline</p>	<p>Applications: Honda 75-130 hp Mercury 3 Cyl., 4 & 6 Cylinder In-line, Thru 1977 Mercury 40-140 hp Yamaha 80-140 hp</p> <p>Note: This is an Aluminum bushing for High Performance Alternate for SS application for VS-12 and VS-37. VS-27 for Aluminum applications</p>
<p>VS-24</p> 	<p>Spindle length: 4.280" (~4 1/4") Flange Dia.: 2.460" Rubber O.D.: 2.800" Max. Inside Dia.: 1.000" Uses Wear Ring: none Rubber Duro: 75 Spline count: Pin Drive</p>	<p>Applications: Johnson/Evinrude 100 hp OMC Sterndrive Model 13, 14 Large Gearcase</p> <p>Original hub had large tabs protruding toward Gearcase and a slotted bore; neither are necessary.</p>
<p>VS-25</p> 	<p>Spindle length: 3.340" (~3 3/8") Flange Dia.: ** Rubber O.D.: 2.245" Max. Inside Dia.: 0.953" Uses Wear Ring: none Rubber Duro: 70 Spline count: 13 spline</p>	<p>Applications: Johnson/Evinrude 40-75 hp Small Gearcase Tohatsu, Nissan 50-70 hp</p>

<p>VS-26 and VS-26-70</p> 	<p>Spindle length: 2.875" (~2 7/8") Flange Dia.: ** Rubber O.D.: 1.823" Max. Inside Dia.: 0.812" Uses Wear Ring: none Rubber Duro: 60 Spline count: 14 spline</p>	<p>Applications: Johnson/Evinrude 20-35 hp</p>
<p>VS-27</p> 	<p>Spindle length: 4.610" (~4 5/8") Flange Dia.: 2.228" Rubber O.D.: 2.565" Max. Inside Dia.: 1.062" Uses Wear Ring: VSR-99 Rubber Duro: 70 Spline count: 15 spline</p> <p>*Note: Use VS-27 for Aluminum applications VS-37 Alternate SS application, High Performance, Brass spindle. VS-23 Alternate SS application, High Performance, Aluminum spindle Castellated Aft insert</p>	<p>Applications: Force 75-150 hp Using Mercury Gearcase Honda 75-130 hp Mercury, Mariner 40-140 hp, 1978 and newer Mercruiser V6 & V8 O/B 1983 and newer Mercury 3 Cyl., 4 & 6 Cyl. In-line 1978 and newer Michigan, Mercury SS Chopper Yamaha 80-140 hp</p>
<p>VS-28</p> 	<p>Spindle length: 4.718" (~4 3/4") Flange Dia.: ** Rubber O.D.: 3.365" Max. Inside Dia.: 1.530" Uses Wear Ring: none Rubber Duro: 80 Spline count: 23 spline</p>	<p>Applications: Mercruiser III</p>
<p>VS-29</p> 	<p>Spindle length: 4.610" (~4 5/8") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.062" Uses Wear Ring: VSR-99 Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications: Mercury V6 prop conversion for use on OMC V6 & V8 Outboard and I/O</p> <p>1 1/4" spline length to fit OMC prop shaft</p>
<p>VS-30</p> 	<p>Spindle length: 3.945" (~3 15/16") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.187" Uses Wear Ring: VSR-99 Rubber Duro: 80 Spline count: 17 spline</p>	<p>Applications: Volvo 280, 290, Michigan Wheel (Long Hub)</p> <p>2 1/4" hub cavity</p> <p>Splined are counter-bored at both ends of spindle.</p>

<p>VS-31</p> 	<p>Spindle length: 4.610" (~4 5/8") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.060" Uses Wear Ring: none Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications: Johnson/Evinrude 175-200 hp OMC V6 and Evinrude V6 O/B Aftermarket applications, 2 1/2" hub cavity</p>
<p>VS-31T</p> 	<p>Spindle length: 4.485" (~4 1/2") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.060" Uses Wear Ring: none Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications: OMC I/O Turbo Propellers Evinrude V6 Outboard Turbo Propellers For other Aftermarket use: VS-31 is 4 5/8" long.</p>
<p>VS-32</p> 	<p>Spindle length: 2.800" (~2 13/16") Flange Dia.: 1.730" Rubber O.D.: 2.155" Max. Inside Dia.: 0.886" Uses Wear Ring: none Rubber Duro: 80 Spline count: 13 spline</p>	<p>Applications: Honda 50 hp, Aftermarket SS applications, Aft insert Yamaha 40-60 hp, Aft insert* * VS-34 Alternate for Aluminum w/o flange</p>
<p>VS-33</p> 	<p>Spindle length: 3.680" (~3 11/16") Flange Dia.: ** Rubber O.D.: 2.700" Max. Inside Dia.: 1.060" Uses Wear Ring: none Rubber Duro: 80 Spline count: 15 spline</p>	<p>Applications: Yamaha 50-130 hp Yamaha Sterndrive 3.0 L-7.4L</p>
<p>VS-34</p> 	<p>Spindle length: 2.840" (~2 13/16") Flange Dia.: ** Rubber O.D.: 2.155" Max. Inside Dia.: 0.885" Uses Wear Ring: none Rubber Duro: 70 Spline count: 13 spline</p>	<p>Applications: Chrysler 55-65 hp Honda BF 35-50 hp Johnson/Evinrude 40-50 hp 4-stroke Mercury Models 400-650 Mariner 60 hp Suzuki DT 35-65 hp Tohatsu, Nissan 35-50 hp Yamaha 40-60 hp*</p> <p>*VS-22/VS-32 Alternate SS w/ flange applications.</p>

VS-35

Spindle length: 4.290" (~4 1/4")
 Flange Dia.: 2.228"
 Rubber O.D.: 2.560"
 Max. Inside Dia.: 1.060"
 Uses Wear Ring: none
 Rubber Duro: 80
 Spline count: 15 spline

Applications:
 Suzuki V6 Turbo Propellers
 Suzuki DT 150-225 hp V6 SST

VS-36

Spindle length: 4.562" (~4 9/16")
 Flange Dia.: **
 Rubber O.D.: 2.700"
 Max. Inside Dia.: 1.060"
 Uses Wear Ring: VSR-99
 Rubber Duro: 75
 Spline count: 15 spline

Applications:
 Johnson/Evinrude 90-300 hp V6
 Gearcase Models
 Forward installs in 2 1/4" hub cavity
 OMC Shooter, Renegade and
 Michigan Hole Shot 4-blade only

VS-37

Spindle length: 4.610" (~4 5/8")
 Flange Dia.: 2.228"
 Rubber O.D.: 2.565"
 Max. Inside Dia.: 1.062"
 Uses Wear Ring: VSR-99
 Rubber Duro: 90
 Spline count: 15 spline

Note: Use VS-27 for Aluminum applications
VS-12 alternate SS application
VS-23 alternate for SS, Aluminum spindle

Applications:
 Force 75-150 hp Using Mercury Gearcase
 Honda 75-130 hp
 Mercury, Mariner 40-140 hp, 1978 and newer
 Mercruiser V6 & V8 O/B 1983 and newer
 Mercury 3 Cyl., 4 & 6 Cyl. In-line 1978 and newer
 Yamaha 80-140 hp

VS-38

Spindle length: 3.814 (~3 13/16")
 Flange Dia.: 3.254"
 Rubber O.D.: 3.800"
 Max. Inside Dia.: 1.770"
 Uses Wear Ring: VSR-101
 Rubber Duro: 75
 Spline count: 27 spline

Applications:
 Volvo Duo A,B,C series; Forward hub

VS-39

Spindle length: 3.814 (~3 13/16")
 Flange Dia.: 3.254"
 Rubber O.D.: 3.800"
 Max. Inside Dia.: 1.017"
 Uses Wear Ring: VSR-101
 Rubber Duro: 75
 Spline count: 19 spline

Applications:
 Volvo Duo A,B,C series; Aft hub

VS-40

Spindle length: 3.814" (~3 7/8")
 Flange Dia.: 3.254"
 Rubber O.D.: 3.800"
 Max. Inside Dia.: 1.180"
 Uses Wear Ring: VSR-101
 Rubber Duro: 75
 Spline count: 17 spline

Applications:

**Volvo 280, 290 (Long Hub)
 Newer OEM and Current Michigan Wheel**

3 1/4" hub cavity

Splines are counter-bored at both ends of spindle.

VS-42

Spindle length: 3.830" (~3 3/8")
 Flange Dia.: 1.730"
 Rubber O.D.: 2.155"
 Max. Inside Dia.: 0.745"
 Uses Wear Ring: none
 Rubber Duro: 70
 Spline count: 10 spline

Applications:

**Force, Chrysler 25 hp*
 Mercury 9.9-25 hp***

***Note: Use in 1 3/4" hub cavity, use a VS-03 if hub cavity is 1 7/16".
 Both replace original hub w/hex nut on end.**

VS-43

Spindle length: 3.245" (~3 1/4")
 Flange Dia.: **
 Rubber O.D.: 1.475"
 Max. Inside Dia.: 0.714"
 Uses Wear Ring: none
 Rubber Duro: 70
 Spline count: 10 spline

Applications:

**Johnson/Evinrude 25-30 hp 4-stroke
 Suzuki DT 20-30 hp**

VS-44

Spindle length: 2.930" (~2 15/16")
 Flange Dia.: **
 Rubber O.D.: 1.475"
 Max. Inside Dia.: 0.714"
 Uses Wear Ring: none
 Rubber Duro: 70
 Spline count: 10 spline

Applications:

**Mercury Mariner 25-30 hp, Thru hub exhaust
 Yamaha 20-30 hp**

VS-45

Spindle length: 3.687" (~3 11/16")
 Flange Dia.: **
 Rubber O.D.: 2.560"
 Max. Inside Dia.: 1.060"
 Uses Wear Ring: none
 Rubber Duro: 80
 Spline count: 15 spline

Applications:

**Yamaha V6 Heavy Duty
 Yamaha 150-250 hp, V6 Outboards**

<p>VS-46</p> 	<p>Spindle length: 3.245" (~3 1/4") Flange Dia.: ** Rubber O.D.: 1.475" Max. Inside Dia.: 0.645" Uses Wear Ring: none Rubber Duro: 70 Spline count: 14 spline</p>	<p>Applications: Tohatsu, Nissan 9.9-18 hp</p>
<p>VS-47</p> 	<p>Spindle length: 4.562" (~4 9/16") Flange Dia.: ** Rubber O.D.: 3.125" Max. Inside Dia.: 1.060" Uses Wear Ring: VSR-99 Rubber Duro: 75 Spline count: 19 spline</p>	<p>Applications: OMC Cobra Volvo Penta SX series OMC SX Cobra Forward installation in a 2 1/2" hub cavity</p>
<p>VS-48</p> 	<p>Spindle length: 4.610" (~4 5/8") Flange Dia.: 2.228" Rubber O.D.: 2.560" Max. Inside Dia.: 1.062" Uses Wear Ring: none Rubber Duro: 80 Spline count: 19 spline</p>	<p>Applications: Aftermarket Applications: OMC Cobra 1994 and newer Volvo Penta SX series OMC SX Cobra Aft installation in a 2 1/4" hub cavity</p>
<p>VS-49</p> 	<p>Spindle length: 2.200" (~2 3/16") Flange Dia.: ** Rubber O.D.: 1.230" Max. Inside Dia.: 0.588" Uses Wear Ring: none Rubber Duro: 65 Spline count: 8 spline</p>	<p>Applications: Mercury Mark 75-110, 7.5-10 hp For use in 1" I.D. hub cavity.</p>
<p>VS-50</p> 	<p>Spindle length: 3.245" (~3 1/4") Flange Dia.: ** Rubber O.D.: 1.475" Max. Inside Dia.: 0.725" Uses Wear Ring: none Rubber Duro: 70 Spline count: 10 spline</p>	<p>Applications: Honda BF 25-30 hp</p>

<p>VS-51</p> 	<p>Spindle length: 3.068" (~3 1/16") Flange Dia.: ** Rubber O.D.: 1.475" Max. Inside Dia.: 0.610" Uses Wear Ring: none Rubber Duro: 70 Spline count: 8 spline</p>	<p>Applications: Honda BF 8-15 hp Mariner 9.9-15 hp, Early Japanese Production Yamaha 9.9-15 hp</p>
<p>VS-53</p> 	<p>Spindle length: 4.562" (~4 9/16") Flange Dia.: 2.240" Rubber O.D.: 2.700" Max. Inside Dia.: 1.060" Uses Wear Ring: VSR-99 Rubber Duro: 75 Spline count: 19 spline</p>	<p>Applications: Volvo SX series 2005 and newer Solas SX 2005 and newer</p>
<p>VS-54</p> 	<p>Spindle length: 3.110" (~3 1/8") Flange Dia.: ** Rubber O.D.: 1.605" Max. Inside Dia.: 0.717" Uses Wear Ring: none Rubber Duro: 75 Spline count: 10 spline</p>	<p>Applications: Tohatsu, Nissan 25-30 hp</p>
<p>VS-55</p> 	<p>Spindle length: 2.191" (~2 3/16") Flange Dia.: ** Rubber O.D.: 1.455" Max. Inside Dia.: 0.588" Uses Wear Ring: none Rubber Duro: 60 Spline count: 8 spline</p>	<p>Applications: Mercury 6-15 hp (Does not include Bigfoot Models) For use in 1 11/64" I.D hub cavity.</p>
<p>VS-56</p> 	<p>Spindle length: 2.130" (~2 1/8") Flange Dia.: ** Rubber O.D.: 1.410" Max. Inside Dia.: 0.608" Uses Wear Ring: none Rubber Duro: 75 Spline count: 10 spline</p>	<p>Applications: Suzuki 9.9-15 hp</p>

VS-57



Spindle length: 2.795" (~2 3/4")
Flange Dia.: **
Rubber O.D.: 1.400"
Max. Inside Dia.: 0.548"
Uses Wear Ring: none
Rubber Duro: 75
Spline count: 7 spline

Applications:

Yamaha 6-8 hp

VS-58



Spindle length: 2.000" (~2.00")
Flange Dia.: 1.408"
Rubber O.D.: 1.562"
Max. Inside Dia.: 0.550"
Uses Wear Ring: none
Rubber Duro: 75
Spline count: Pin Drive

Applications:

Johnson/Evinrude 4-8 hp

VSP-52



Special Notes: VSP-52 Plastic sleeve, Square hub, replacement only.

**Plastic Sleeve replacement part for drop in hub kits.
(Does not come with attaching hardware or drive adaptor)**

VS-65



Special Notes: VS-65 Stainless Weld-In Conversion Hub

**For use on Engines with Heavy Duty 1 1/4" Prop Shaft.
Racing Sport Torque Master Gearcases,
Mercruiser Bravo One XR and XZ Sterndrives.**

**Generally used as a Conversion replacement in VS-16 applications,
with 1 1/4" Propeller Shafts as a Weld-In hub, for higher horse power motors.**

Wear Rings: VSR-98, VSR-99, VSR-100 and VSR-101



VSR-98



VSR-99



VSR-100



VSR-101