

## Seals Selection

Viper seals are designed to have some interference with the rope, depending on its size and type, with an interference of up to 3mm allowable for standard 6 & 8 strand ropes. For compact, non-rotating or wireline type ropes which do not have valleys, a maximum interference of 1mm is recommended as these ropes do not allow for the same amount of seal deflection within the collar.



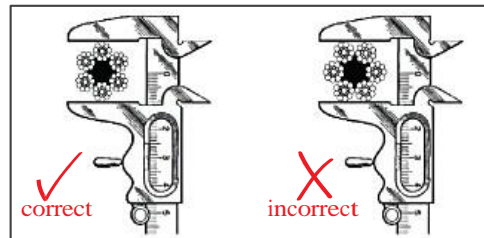
## Scraper Selection

Viper recommend that wire ropes be physically measured prior to ordering seals and scrapers as ropes in service may vary in size. Scrapers are supplied slightly larger than the actual wire rope size to allow for rope flexing.



## Wire Rope Measurement Guide

It is recommended that wire ropes be physically measured prior to ordering seals and scrapers as ropes in service can stretch and sizes may vary.



The illustrations show how to measure a wire rope correctly.

## Rope Cleaner (VRC) Selection

Viper Rope Cleaners enable the removal of contamination or built up old lubricant from the wire rope prior to lubrication, improving the effectiveness of the lubrication process via the Viper WRL.



For certain types of wire ropes where the standard Viper Rope Cleaner is not suitable, the Viper 'Smooth Bore' rope cleaner is available. The Smooth Bore Rope Cleaner would typically be used on those ropes with a large number of outer strands, some non-rotational ropes, ROV cables, etc, where the valleys between the strands are minimal and do not readily facilitate a standard Viper Rope Cleaner.

LEFT: The Viper Wire Rope Cleaner in place as the rope enters the Viper Mid Mk II WRL.

RIGHT: Smooth Bore Rope Cleaner



It is critical that all ropes be physically measured prior to selecting and ordering the VRC, as ropes size may vary in service.





Right Lay - Clockwise Rotation





Left Lay - Counter Clockwise Rotation

Available for 6 and 8 strand ropes in a wide range of sizes, the following tables allow for the quick and easy selection of the correct VRC to suit your specific requirements.

Viper Mid Mk II

Actual Rope Size	 These Columns for <b>6 or 8 Strand</b> Ropes Only		 These Columns for <b>Armoured or Multi Strand</b> Ropes Only		Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
						Seal Part No.	Scraper No.	Seal Part No.	Scraper No.
8mm to 10mm	VSEAL8	VSC10	VSEAL10	VSC10	VRC-SB9	n/a	n/a	n/a	n/a
11mm to 12mm	VSEAL10	VSC12	VSEAL13	VSC12	VRC-SB11	n/a	n/a	n/a	n/a
13mm to 14mm	VSEAL13	VSC14	VSEAL14	VSC14	VRC-SB13	n/a	n/a	n/a	n/a
15mm to 16mm	VSEAL14	VSC16	VSEAL16	VSC16	VRC-SB15	VRC16-6R	VRC16-6L	n/a	n/a
17mm to 18mm	VSEAL16	VSC18	VSEAL18	VSC18	VRC-SB17	VRC18-6R	VRC18-6L	n/a	n/a
19mm to 20mm	VSEAL18	VSC20	VSEAL20	VSC20	VRC-SB19	VRC20-6R	VRC20-6L	n/a	n/a
21mm to 22mm	VSEAL20	VSC22	VSEAL22	VSC22	VRC-SB21	VRC22-6R	VRC22-6L	n/a	n/a
23mm to 24mm	VSEAL22	VSC24	VSEAL24	VSC24	VRC-SB23	VRC24-6R	VRC24-6L	VRC24-8R	VRC24-8L
25mm to 26mm	VSEAL24	VSC26	VSEAL26	VSC26	VRC-SB25	VRC26-6R	VRC26-6L	VRC26-8R	VRC26-8L
27mm to 28mm	VSEAL26	VSC28	VSEAL28	VSC28	VRC-SB27	VRC28-6R	VRC28-6L	VRC28-8R	VRC28-8L
29mm to 30mm	VSEAL28	VSC30	VSEAL30	VSC30	VRC-SB29	VRC30-6R	VRC30-6L	VRC30-8R	VRC30-8L
31mm to 33mm	VSEAL30	VSC34	VSEAL33	VSC34	VRC-SB32	VRC32-6R	VRC32-6L	VRC32-8R	VRC32-8L
34mm to 35mm 1-11/32" to 1-3/8"	VSEAL33	VSC36	VSEAL35	VSC36	VRC-SB34	VRC34-6R	VRC34-6L	VRC34-8R	VRC34-8L

Viper Mid Mk II

Actual Rope Size	 These Columns for <b>6 or 8 Strand</b> Ropes Only		 These Columns for <b>Armoured or Multi Strand</b> Ropes Only		Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
	Viper Rope Seals for "6 & 8" Stand Ropes Only		Viper Rope Seals/Scraper for "Armoured & Multi Strand Ropes Only"			Right Lay	Left Lay	Right Lay	Left Lay
	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.					
36mm to 38mm	VSEAL35	VSC38	<b>VSEAL38</b>	<b>VSC38</b>	VRC-SB37	VRC38-6R	VRC38-6L	VRC38-8R	VRC38-8L
39mm to 41mm	VSEAL38	VSC41	<b>VSEAL41</b>	<b>VSC41</b>	VRC-SB39	VRC40-6R	VRC40-6L	VRC40-8R	VRC40-8L
42mm to 44mm	VSEAL41	VSC44	<b>VSEAL44</b>	<b>VSC44</b>	VRC-SB43	VRC44-6R	VRC44-6L	VRC44-8R	VRC44-8L
45mm to 46mm	VSEAL44	VSC46	<b>VSEAL46</b>	<b>VSC46</b>	VRC-SB45	VRC46-6R	VRC46-6L	VRC46-8R	VRC46-8L
47mm to 48mm	VSEAL46	VSC48	<b>VSEAL48</b>	<b>VSC48</b>	VRC-SB47	VRC48-6R	VRC48-6L	VRC48-8R	VRC48-8L
49mm to 50mm	VSEAL48	VSC50	<b>VSEAL50</b>	<b>VSC50</b>	VRC-SB49	VRC50-6R	VRC50-6L	VRC50-8R	VRC50-8L
51mm to 53mm	VSEAL50	VSC53	<b>VSEAL53</b>	<b>VSC53</b>	VRC-SB52	VRC52-6R	VRC52-6L	VRC52-8R	VRC52-8L
54mm to 55mm	VSEAL53	VSC55	<b>VSEAL55</b>	<b>VSC55</b>	VRC-SB54	VRC54-6R	VRC54-6L	VRC54-8R	VRC54-8L
56mm 58mm	VSEAL55	VSC58	<b>VSEAL58</b>	<b>VSC58</b>	VMRC-SB57	VMRC58-6R	VMRC58-6L	VMRC58-8R	VMRC58-8L
59mm to 60mm	VSEAL58	VSC60	<b>VSEAL60</b>	<b>VSC60</b>	VMRC-SB59	VMRC60-6R	VMRC60-6L	VMRC60-8R	VMRC60-8L
61mm to 63mm	VSEAL60	VSC63	<b>VSEAL63</b>	<b>VSC63</b>	VMRC-SB62	VMRC62-6R	VMRC62-6L	VMRC62-8R	VMRC62-8L
64mm to 65mm	VSEAL63	VSC65	<b>VSEAL65</b>	<b>VSC65</b>	VMRC-SB64	VMRC64-6R	VMRC64-6L	VMRC64-8R	VMRC64-8L
66mm to 67mm 2-19/32" to 2-5/8"	VSEAL65	VSC67	n/a	n/a	VMRC-SB66	VMRC66-6R	VMRC66-6L	VMRC66-8R	VMRC66-8L