

Ensuring Superior Lubrication for Wire Ropes

To achieve optimum performance from the Viper WRL, it is critical that old lubricant and contamination is removed from the valleys of the rope before it enters the Viper WRL collar.

Build-up of contamination can cause accelerated wear on ropes and sheaves, acting as an abrasive on interacting surfaces.

The built up residual lubricant and any associated foreign material encapsulates the rope, keeping in water and increasing the rate of corrosion.

If visual inspections are part of the rope maintenance resume, the old lube can effectively hide issues that may lead to failures, which could have been managed.

Effective lubrication cannot occur until this crust is removed and replaced with a high quality lubricant.

Why take the risk?

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.



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



Rope entering the Viper collar with VRC in place and old lubricant being removed



Rope exiting the Viper collar, clean and fully lubricated, ready for long, trouble free service

Rope Cleaner (VRC) Selection

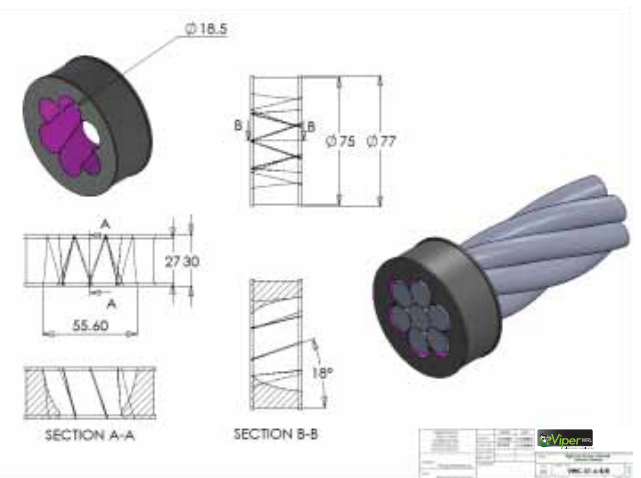


For certain types of wire ropes where the standard Viper Rope Cleaner is not suitable, the Viper 'Smooth Bore' rope cleaner is available. The Smooth Bore Rope Cleaner would typically be used on those ropes with a large number of outer strands, some non-rotational ropes, ROV cables, etc, where the valleys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

Viper WRL has refined the process of cleaning ropes by combining CAD based design with modern manufacturing techniques and the latest composite material to deliver as easy to install and use product.

Viper Rope Cleaners (VRC's) are available in left and right hand lay, to suit 6 and 8 strand ropes but with options to design and manufacture for other, more specialised ropes.

Also available are Smooth Bore VRC's, which are ideal for compact or non rotational ropes, where the valleys are too small to make the use of a traditional rope cleaner viable.



To get the maximum benefit from your wire rope lubrication process, the combination of the **Viper WRL** with the **Viper Rope Cleaner package** is simply the only choice.



'Superior Protection for Wire Ropes'

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Ropes 6mm - 35mm

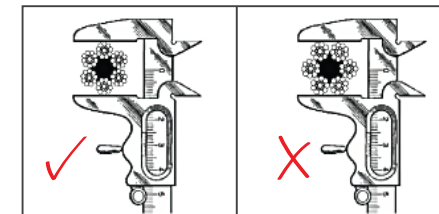
Available for 6 and 8 strand ropes in a wide range of sizes, the following tables allow for the quick and easy selection of the correct VRC to suit your specific requirements.

Viper Mini MkII

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
6mm to 7mm 15/64" to 9/32"	N/A	N/A	N/A	N/A	NA
8mm to 10mm 5/16" to 3/8"	VRC-SB9	N/A	N/A	N/A	NA
11mm to 12mm 7/16" to 15/32"	VRC-SB11	N/A	N/A	N/A	NA
13mm to 14mm ½" to 9/16"	VRC-SB13	N/A	N/A	N/A	NA
15mm to 16mm 19/32" to 5/8"	VRC-SB15	VRC16-6R	VRC16-6L	N/A	NA
17mm to 18mm 21/32 to 11/16"	VRC-SB17	VRC18-6R	VRC18-6L	N/A	NA
19mm to 20mm ¾" to 25/32"	VRC-SB19	VRC20-6R	VRC20-6L	N/A	NA
21mm to 22mm 13/16" to 7/8"	VRC-SB21	VRC22-6R	VRC22-6L	N/A	NA
23mm to 24mm 29/32" to 15/16"	VRC-SB23	VRC24-6R	VRC24-6L	VRC24-8R	VRC24-8L
25mm to 26mm 1" to 1 1/32"	VRC-SB25	VRC26-6R	VRC26-6L	VRC26-8R	VRC26-8L
27mm to 28mm 1 1/16" to 1 1/8"	VRC-SB27	VRC28-6R	VRC28-6L	VRC28-8R	VRC28-8L
29mm to 30mm 1 5/32" to 1 3/16"	VRC-SB29	VRC30-6R	VRC30-6L	VRC30-8R	VRC30-8L
31mm to 33mm 1 ¼" to 1 5/16"	VRC-SB32	VRC32-6R	VRC32-6L	VRC32-8R	VRC32-8L
34mm to 36mm 1 11/32" to 1 13/32"	VRC-SB34	VRC34-6R	VRC34-6L	VRC34-8R	VRC34-8L

Wire Rope Measurement Guide

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



correct

incorrect



Right Lay - Clockwise Rotation



Left Lay - Counter Clockwise Rotation



Ropes 6mm - 35mm

Ropes 36mm - 67mm

Viper Mid Mk II

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
6mm to 7mm 15/64" to 9/32"	n/a	n/a	n/a	n/a	n/a
8mm to 10mm 5/16" to 3/8"	VRC-SB9	n/a	n/a	n/a	n/a
11mm to 12mm 7/16" to 15/32"	VRC-SB11	n/a	n/a	n/a	n/a
13mm to 14mm ½" to 9/16"	VRC-SB13	n/a	n/a	n/a	n/a
15mm to 16mm 19/32" to 5/8"	VRC-SB15	VRC16-6R	VRC16-6L	n/a	n/a
17mm to 18mm 21/32" to 11/16"	VRC-SB17	VRC18-6R	VRC18-6L	n/a	n/a
19mm to 20mm ¾" to 25/32"	VRC-SB19	VRC20-6R	VRC20-6L	n/a	n/a
21mm to 22mm 13/16" to 7/8"	VRC-SB21	VRC22-6R	VRC22-6L	n/a	n/a
23mm to 24mm 29/32" to 15/16"	VRC-SB23	VRC24-6R	VRC24-6L	VRC24-8R	VRC24-8L
25mm to 26mm 1" to 1-1/32"	VRC-SB25	VRC26-6R	VRC26-6L	VRC26-8R	VRC26-8L
27mm to 28mm 1-1/16" to 1-1/8"	VRC-SB27	VRC28-6R	VRC28-6L	VRC28-8R	VRC28-8L
29mm to 30mm 1 5/32" to 1 3/16"	VRC-SB29	VRC30-6R	VRC30-6L	VRC30-8R	VRC30-8L
31mm to 33mm 1-¼" to 1-5/16"	VRC-SB32	VRC32-6R	VRC32-6L	VRC32-8R	VRC32-8L
34mm to 35mm 1-11/32" to 1-3/8"	VRC-SB34	VRC34-6R	VRC34-6L	VRC34-8R	VRC34-8L

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
36mm to 38mm 1-13/32" to 1-½"	VRC-SB37	VRC38-6R	VRC38-6L	VRC38-8R	VRC38-8L
39mm to 41mm 1-17/32" to 1-19/32"	VRC-SB39	VRC40-6R	VRC40-6L	VRC40-8R	VRC40-8L
42mm to 44mm 1-5/8" to 1-¾"	VRC-SB43	VRC44-6R	VRC44-6L	VRC44-8R	VRC44-8L
45mm to 46mm 1-25/32" to 1-13/16"	VRC-SB45	VRC46-6R	VRC46-6L	VRC46-8R	VRC46-8L
47mm to 48mm 1-27/32" to 1-7/8"	VRC-SB47	VRC48-6R	VRC48-6L	VRC48-8R	VRC48-8L
49mm to 50mm 1-15/16" to 1-31/32"	VRC-SB49	VRC50-6R	VRC50-6L	VRC50-8R	VRC50-8L
51mm to 53mm 2" 2-3/32"	VRC-SB52	VRC52-6R	VRC52-6L	VRC52-8R	VRC52-8L
54mm to 55mm 2-1/8" to 2-5/32"	VRC-SB54	VRC54-6R	VRC54-6L	VRC54-8R	VRC54-8L
56mm 58mm 2-3/16" to 2-9/32"	VMRC-SB57	VMRC58-6R	VMRC58-6L	VMRC58-8R	VMRC58-8L
59mm to 60mm 2-5/16" to 2-3/8"	VMRC-SB59	VMRC60-6R	VMRC60-6L	VMRC60-8R	VMRC60-8L
61mm to 63mm 2-13/32" to 2-½"	VMRC-SB62	VMRC62-6R	VMRC62-6L	VMRC62-8R	VMRC62-8L
64mm to 65mm 2-½" to 2-9/16"	VMRC-SB64	VMRC64-6R	VMRC64-6L	VMRC64-8R	VMRC64-8L
66mm to 67mm 2-19/32" to 2-5/8"	VMRC-SB66	VMRC66-6R	VMRC66-6L	VMRC66-8R	VMRC66-8L



Ropes 49mm - 82mm

Ropes 83mm - 119mm

Viper Maxi Mk II

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
49mm to 50mm 1-15/16" to 1-31/32"	VRC-SB50	VRC50-6R	VRC50-6L	VRC50-8R	VRC50-8L
51mm to 53mm 2" to 2-3/32"	VRC-SB52	VRC52-6R	VRC52-6L	VRC52-8R	VRC52-8L
54mm to 55mm 2-1/8" to 2-5/32"	VRC-SB54	VRC54-6R	VRC54-6L	VRC54-8R	VRC54-8L
56mm to 58mm 2-3/16" to 2-3/32"	VMRC-SB57	VMRC58-6R	VMRC58-6L	VMRC58-8R	VMRC58-8L
59mm to 60mm 2-5/16" to 2-3/8"	VMRC-SB59	VMRC60-6R	VMRC60-6L	VMRC60-8R	VMRC60-8L
61mm to 63mm 2-13/32" to 2-1/2"	VMRC-SB62	VMRC62-6R	VMRC62-6L	VMRC62-8R	VMRC62-8L
64mm to 65mm 2-1/2" to 2-9/16"	VMRC-SB64	VMRC64-6R	VMRC64-6L	VMRC64-8R	VMRC64-8L
66mm to 67mm 2-19/32" to 2-5/8"	VMRC-SB66	VMRC66-6R	VMRC66-6L	VMRC66-8R	VMRC66-8L
68mm to 70mm 2-21/32" to 2-3/4"	VMRC-SB69	VMRC70-6R	VMRC70-6L	VMRC70-8R	VMRC70-8L
71mm to 73mm 2-13/16" to 2-7/8"	VMRC-SB72	VMRC72-6R	VMRC72-6L	VMRC72-8R	VMRC72-8L
74mm to 75mm 2-27/32" to 2-15/16"	VMRC-SB74	VMRC74-6R	VMRC74-6L	VMRC74-8R	VMRC74-8L
76mm to 77mm 2-31/32" to 3"	VMRC-SB76	VMRC76-6R	VMRC76-6L	VMRC76-8R	VMRC76-8L
78mm to 79mm 3-3/64" to 3-5/64"	VMRC-SB78	VMRC78-6R	VMRC78-6L	VMRC78-8R	VMRC78-8L
80mm to 82mm 3-1/8" to 3-13/64"	VMRC-SB80	VMRC82-6R	VMRC82-6L	VMRC82-8R	VMRC82-8L

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
83mm to 85mm 3-15/64" to 3-5/16"	VMRC-SB84	VMRC84-6R	VMRC84-6L	VMRC84-8R	VMRC84-8L
86mm to 88mm 3-23/64" to 3-7/16"	VMRC-SB87	VMRC88-6R	VMRC88-6L	VMRC88-8R	VMRC88-8L
89mm to 91mm 3-15/32" to 3-1/2"	VMRC-SB90	VMRC90-6R	VMRC90-6L	VMRC90-8R	VMRC90-8L
92mm to 94mm 3-21/32" to 3-5/8"	VMRC-SB93	VMRC92-6R	VMRC92-6L	VMRC92-8R	VMRC92-8L
94mm to 95mm 3-11/16" to 3-11/16"	VMRC-SB94	VMRC94-6R	VMRC94-6L	VMRC94-8R	VMRC94-8L
96mm to 97mm 3-3/4" to 3-13/16"	VMRC-SB96	VMRC96-6R	VMRC96-6L	VMRC96-8R	VMRC96-8L
98mm to 99mm 3-7/32" to 3-7/8"	VMRC-SB98	VMRC98-6R	VMRC98-6L	VMRC98-8R	VMRC98-8L
100mm to 102mm 3-29/32" to 3-15/16"	VMRC-SB101	VMRC102-6R	VMRC102-6L	VMRC102-8R	VMRC102-8L
103mm to 105mm 4" to 4-3/32"	VMMRC-SB104	VMMRC104-6R	VMMRC104-6L	VMMRC104-8R	VMMRC104-8L
106mm to 108mm 4-1/8" to 4-7/32"	VMMRC-SB107	VMMRC108-6R	VMMRC108-6L	VMMRC108-8R	VMMRC108-8L
109mm to 111mm 4-3/4" to 4-9/32"	VMMRC-SB110	VMMRC110-6R	VMMRC110-6L	VMMRC110-8R	VMMRC110-8L
112mm to 114mm 4-3/8" to 4-7/16"	VMMRC-SB113	VMMRC112-6R	VMMRC112-6L	VMMRC112-8R	VMMRC112-8L
115mm to 116mm 4-1/2" to 4-17/32"	VMMRC-SB115	VMMRC116-6R	VMMRC116-6L	VMMRC116-8R	VMMRC116-8L
117mm to 119mm 4-9/16" to 4-5/8"	VMMRC-SB118	VMMRC118-6R	VMMRC118-6L	VMMRC118-8R	VMMRC118-8L



Ropes 120mm - 165mm

Viper Maxi Mk II

Actual Rope Size	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner "6 Strand Ropes"		Viper Rope Cleaner "8 Strand Ropes"	
		Right Lay	Left Lay	Right Lay	Left Lay
120mm to 122mm 4-11/16" to 4-1/2"	VMMRC-SB121	VMMRC122-R6	VMMRC122-6L	VMMRC122-8R	VMMRC122-8L
123mm to 125mm 4-13/16" to 4-7/8"	VMMRC-SB124	VMMRC124-6R	VMMRC124-6L	VMMRC124-8R	VMMRC124-8L
126mm to 128mm 4-15/16" to 5"	VMMRC-SB127	VMMRC128-6R	VMMRC128-6L	VMMRC128-8R	VMMRC128-8L
129mm to 131mm 5-1/32" to 5-7/64"	VMMRC-SB130	VMMRC130-6R	VMMRC130-6L	VMMRC130-8R	VMMRC130-8L
132mm to 134mm 5-1/8" to 5-1/4"	VMMRC-SB133	VMMRC134-6R	VMMRC134-6L	VMMRC134-8R	VMMRC134-8L
135mm to 137mm 5-9/32" to 5-5/16"	VMMRC-SB136	VMMRC136-6R	VMMRC136-6L	VMMRC136-8R	VMMRC136-8L
138mm to 140mm 5-3/8" to 5-7/16"	VMMRC-SB139	VMMRC140-6R	VMMRC140-6L	VMMRC140-8R	VMMRC140-8L
141mm to 143mm 5-1/2" to 5-9/16"	VMMRC-SB142	VMMRC142-6R	VMMRC142-6L	VMMRC142-8R	VMMRC142-8L
144mm to 146mm 5-5/8" to 5-11/16"	VMMRC-SB145	VMMRC146-6R	VMMRC146-6L	VMMRC146-8R	VMMRC146-8L
147mm to 149mm 5-3/4" to 5-13/16"	VMMRC-SB148	VMMRC148-6R	VMMRC148-6L	VMMRC148-8R	VMMRC148-8L
150mm to 152mm 5-7/8" to 5-15/16"	VMMRC-SB151	VMMRC152-6R	VMMRC152-6L	VMMRC152-8R	VMMRC152-8L
153mm to 155mm 6" to 6-1/16"	VMMRC-SB154	VMMRC154-6R	VMMRC154-6L	VMMRC154-8R	VMMRC154-8L
156mm to 158mm 6-3/32" to 6-3/16"	VMMRC-SB157	VMMRC158-6R	VMMRC158-6L	VMMRC158-8R	VMMRC158-8L
159mm to 161mm 6-1/4" to 6-5/16"	VMMRC-SB160	VMMRC160-6R	VMMRC160-6L	VMMRC160-8R	VMMRC160-8L
162mm to 165mm 6-3/8" to 6-1/2"	VMMRC-SB163	VMMRC164-6R	VMMRC164-6L	VMMRC164-8R	VMMRC164-8L

OUR CLIENTS



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