Viper Mini MkII - Mid Mk II - Maxi Mk II Seal - Scraper - VRC - Selection Guide

Seals Selection

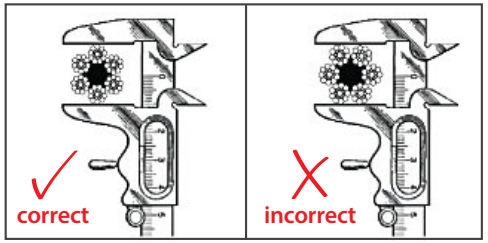
Viper seals are designed to have some interference with the rope, depending on its size and type, with an interference of up to 3mm allowable for standard 6 & 8 strand ropes. For compact, non-rotating or wireline type ropes which do not have valleys, a maximum interference of 1mm is recommended as these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

Mini Mk II
Seal - Scraper - VRC - Selection Guide

Viper Mini Mk II

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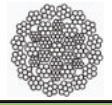
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Actual Rope Size	Seals for 6 & 8 Strand Ropes	Seals for Armoured & Multi Strand Ropes	Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner 6 Strand Ropes		Viper Rope Cleaner 8 Strand Ropes	
	Seal Part No.	Seal Part No.		Right Lay	Left Lay	Right Lay	Left Lay
6mm to 7mm 15/64" to 9/32"	VMISEAL6	VMISEAL8	N/A	N/A	N/A	N/A	NA
8mm to 10mm 5/16" to 3/8"	VMISEAL8	VMISEAL10	VRC-SB9	N/A	N/A	N/A	NA
11mm to 12mm 7/16" to 15/32"	VMISEAL10	VMISEAL13	VRC-SB11	N/A	N/A	N/A	NA
13mm to 14mm ½" to 9/16"	VMISEAL13	VMISEAL14	VRC-SB13	N/A	N/A	N/A	NA
15mm to 16mm 19/32" to 5/8"	VMISEAL14	VMISEAL16	VRC-SB15	VRC16-6R	VRC16-6L	N/A	NA
17mm to 18mm 21/32 to 11/16"	VMISEAL16	VMISEAL18	VRC-SB17	VRC18-6R	VRC18-6L	N/A	NA
19mm to 20mm ¾" to 25/32"	VMISEAL18	VMISEAL20	VRC-SB19	VRC20-6R	VRC20-6L	N/A	NA
21mm to 22mm 13/16" to 7/8"	VMISEAL20	VMISEAL22	VRC-SB21	VRC-22-6R	VRC22-6L	N/A	NA
23mm to 24mm 29/32" to 15/16"	VMISEAL22	VMISEAL24	VRC-SB23	VRC24-6R	VRC24-6L	VRC24-8R	VRC24-8L
25mm to 26mm 1" to 1 1/32"	VMISEAL24	VMISEAL26	VRC-SB25	VRC26-6R	VRC26-6L	VRC26-8R	VRC26-8L
27mm to 28mm 1 1/16" to 1 1/8"	VMISEAL26	VMISEAL28	VRC-SB27	VRC28-6R	VRC28-6L	VRC28-8R	VRC28-8L
29mm to 30mm 1 5/32" to 1 3/16"	VMISEAL28	VMISEAL30	VRC-SB29	VRC30-6R	VRC30-6L	VRC30-8R	VRC30-8L
31mm to 33mm 1 ¼" to 1 5/16"	VMISEAL30	VMISEAL33	VRC-SB32	VRC32-6R	VRC32-6L	VRC32-8R	VRC32-8L
34mm to 36mm 1 11/32" to 1 13/32"	VMISEAL33	VMISEAL35	VRC-SB34	VRC34-6R	VRC34-6L	VRC34-8R	VRC34-8L

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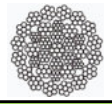
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Actual Rope Size	Viper Seals/Scrapers for 6 & 8 Strand Ropes Only		Viper Seals/Scraper for Amoured & Multi Strand Ropes Only		Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner 6 Strand Ropes		Viper Rope Cleaner 8 Strand Ropes	
	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
6mm to 7mm 15/64" to 9/32"	VSEAL6	VSC8	**VSEAL8**	**VSC8**	n/a	n/a	n/a	n/a	n/a
8mm to 10mm 5/16" to 3/8"	VSEAL8	VSC10	**VSEAL10**	**VSC10**	VRC-SB9	n/a	n/a	n/a	n/a
11mm to 12mm 7/16" to 15/32"	VSEAL10	VSC12	**VSEAL13**	**VSC12**	VRC-SB11	n/a	n/a	n/a	n/a
13mm to 14mm ½" to 9/16"	VSEAL13	VSC14	**VSEAL14**	**VSC14**	VRC-SB13	n/a	n/a	n/a	n/a
15mm to 16mm 19/32" to 5/8"	VSEAL14	VSC16	**VSEAL16**	**VSC16**	VRC-SB15	VRC16-6R	VRC16-6L	n/a	n/a
17mm to 18mm 21/32" to 11/16"	VSEAL16	VSC18	**VSEAL18**	**VSC18**	VRC-SB17	VRC18-6R	VRC18-6L	n/a	n/a
19mm to 20mm ¾" to 25/32"	VSEAL18	VSC20	**VSEAL20**	**VSC20**	VRC-SB19	VRC20-6R	VRC20-6L	n/a	n/a
21mm to 22mm 13/16" to 7/8"	VSEAL20	VSC22	**VSEAL22**	**VSC22**	VRC-SB21	VRC22-6R	VRC22-6L	n/a	n/a
23mm to 24mm 29/32" to 15/16"	VSEAL22	VSC24	**VSEAL24**	**VSC24**	VRC-SB23	VRC24-6R	VRC24-6L	VRC24-8R	VRC24-8L
25mm to 26mm 1" to 1-1/32"	VSEAL24	VSC26	**VSEAL26**	**VSC26**	VRC-SB25	VRC26-6R	VRC26-6L	VRC26-8R	VRC26-8L
27mm to 28mm 1-1/16" to 1-1/8"	VSEAL26	VSC28	**VSEAL28**	**VSC28**	VRC-SB27	VRC28-6R	VRC28-6L	VRC28-R8	VRC28-8L
29mm to 30mm 1 5/32" to 1 3/16"	VSEAL28	VSC30	**VSEAL30**	**VSC30**	VRC-SB29	VRC30-6R	VRC30-6L	VRC30-8R	VRC30-8L
31mm to 33mm 1-¼" to 1-5/16"	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

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Viper Mid Mk II

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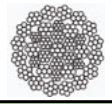
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Actual Rope Size	Viper Seals/Scrapers for 6 & 8 Strand Ropes Only		Viper Seals/Scraper for Amoured & Multi Strand Ropes Only		Viper Smooth Bore Rope Cleaner	Viper Rope Cleaner 6 Strand Ropes		Viper Rope Cleaner 8 Strand Ropes	
	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
36mm to 38mm 1-13/32" to-1 ½"	VSEAL35	VSC38	**VSEAL38**	**VSC38**	VRC-SB37	VRC38-6R	VRC38-6L	VRC38-8R	VRC38-8L
39mm to 41mm 1-17/32" to 1-19/32"	VSEAL38	VSC41	**VSEAL41**	**VSC41**	VRC-SB39	VRC40-6R	VRC40-6L	VRC40-8R	VRC40-8L
42mm to 44mm 1-5/8" to 1-¾"	VSEAL41	VSC44	**VSEAL44**	**VSC44**	VRC-SB43	VRC44-6R	VRC44-6L	VRC44-8R	VRC44-8L
45mm to 46mm 1-25/32" to 1-13/16"	VSEAL44	VSC46	**VSEAL46**	**VSC46**	VRC-SB45	VRC46-6R	VRC46-6L	VRC46-8R	VRC46-8L
47mm to 48mm 1-27/32" to 1-7/8"	VSEAL46	VSC48	**VSEAL48**	**VSC48**	VRC-SB47	VRC48-6R	VRC48-6L	VRC48-8R	VRC48-8L
49mm to 50mm 1-15/16" to 1-31/32"	VSEAL48	VSC50	**VSEAL50**	**VSC50**	VRC-SB49	VRC50-6R	VRC50-6L	VRC50-8R	VRC50-8L
51mm to 53mm 2" 2-3/32"	VSEAL50	VSC53	**VSEAL53**	**VSC53**	VRC-SB52	VRC52-6R	VRC52-6L	VRC52-8R	VRC52-8L
54mm to 55mm 2-1/8"n to 2-5/32"	VSEAL53	VSC55	**VSEAL55**	**VSC55**	VRC-SB54	VRC54-6R	VRC54-6L	VRC54-8R	VRC54-8L
56mm 58mm 2-3/16" to 2-9/32"	VSEAL55	VSC58	**VSEAL58**	**VSC58**	VMRC-SB57	VMRC58-6R	VMRC58-6L	VMRC58-8R	VMRC58-8L
59mm to 60mm 2-5/16" to 2-3/8"	VSEAL58	VSC60	**VSEAL60**	**VSC60**	VMRC-SB59	VMRC60-6R	VMRC60-6L	VMRC60-8R	VMRC60-8L
61mm to 63mm 2-13/32" to 2-½"	VSEAL60	VSC63	**VSEAL63**	**VSC63**	VMRC-SB62	VMRC62-6R	VMRC62-6L	VMRC62-8R	VMRC62-8L
64mm to 65mm 2-½" to 2-9/16"	VSEAL63	VSC65	**VSEAL65**	**VSC65**	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

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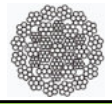
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	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
49mm to50mm 1-15/16" to 1-31/32"	VMMSEAL48	VMMSC50	**VMMSEAL50**	**VMMSC50**	VRC-SB49	VRC50-6R	VRC50-6L	VRC50-8R	VRC50-8L
51mm to53mm 2" to2-3/32"	VMMSEAL50	VMMSC53	**VMMSEAL53**	**VMMSC53**	VRC-SB52	VRC52-6R	VRC52-6L	VRC52-8R	VRC52-8L
54mm to55mm 2-1/8" to 2-5/32"	VMMSEAL53	VMMSC55	**VMMSEAL55**	**VMMSC55**	VRC-SB54	VRC54-6R	VRC54-6L	VRC54-8R	VRC54-8L
56mm to58mm 2-3/16" to 2-3/32"	VMMSEAL55	VMMSC58	**VMMSEAL58**	**VMMSC58**	VMRC-SB57	VMRC58-6R	VMRC58-6L	VMRC58-8R	VMRC58-8L
59mm to60mm 2-5/16" to 2-3/8"	VMMSEAL58	VMMSC60	**VMMSEAL60**	**VMMSC60**	VMRC-SB59	VMRC60-6R	VMRC60-6L	VMRC60-8R	VMRC60-8L
61mm to63mm 2-13/32" to 2-½"	VMMSEAL60	VMMSC63	**VMMSEAL63**	**VMMSC63**	VMRC-SB62	VMRC62-6R	VMRC62-6L	VMRC62-8R	VMRC62-8L
64mm to65mm 2-½" to 2-9/16"	VMMSEAL63	VMMSC65	**VMMSEAL65**	**VMMSC65**	VMRC-SB64	VMRC64-6R	VMRC64-6L	VMRC64-8R	VMRC64-8L
66mm to67mm 2 19/32" to 2 5/8"	VMMSEAL65	VMMSC67	**n/a**	**n/a**	VMRC-SB66	VMRC66-6R	VMRC66-6L	VMRC66-8R	VMRC66-8L
68mm to70mm 2-21/32" to 2-¾"	VMMSEAL68	VMMSC70	**VMMSEAL70**	**VMMSC70**	VMRC-SB69	VMRC70-6R	VMRC70-6L	VMRC70-8R	VMRC70-8L
71mm to73mm 2-13/16" to 2-7/8"	VMMSEAL70	VMMSC73	**VMMSEAL74**	**VMMSC73**	VMRC-SB72	VMRC72-6R	VMRC72-6L	VMRC72-8R	VMRC72-8L
74mm to75mm 2 27/32" to 2 15/16"	VMMSEAL74	VMMSC75	**VMMSEAL76**	**VMMSC75**	VMRC-SB74	VMRC74-6R	VMRC74-6L	VMRC74-8R	VMRC74-8L
76mm to77mm 2-31/32" to 3"	VMMSEAL76	VMMSC77	**VMMSEAL78**	**VMMSC77**	VMRC-SB76	VMRC76-6R	VMRC76-6L	VMRC76-8R	VMRC76-8L
78mm to79mm 3 3/64" to 3 5/64"	VMMSEAL78	VMMSC79	**VMMSEAL80**	**VMMSC79**	VMRC-SB78	VMRC78-6R	VMRC78-6L	VMRC78-8R	VMRC78-8L
80mm to82mm 3-1/8" to 3-13/64"	VMMSEAL80	VMMSC82	**VMMSEAL83**	**VMMSC82**	VMRC-SB80	VMRC82-6R	VMRC82-6L	VMRC82-8R	VMRC82-8L

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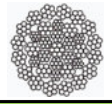
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	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
83mm to 85mm 3-15/64" to 3-5/16"	VMMSEAL83	VMMSC85	**VMMSEAL86**	**VMMSC85**	VMRC-SB84	VMRC84-6R	VMRC84-6L	VMRC84-8R	VMRC84-8L
86mm to 88mm 3-23/64" to 3-7/16"	VMMSEAL86	VMMSC88	**VMMSEAL90**	**VMMSC88**	VMRC-SB87	VMRC88-6R	VMRC88-6L	VMRC88-8R	VMRC88-8L
89mm to 91mm 3-15/32" to 3-½"	VMMSEAL90	VMMSC91	**VMMSEAL92**	**VMMSC91**	VMRC-SB90	VMRC90-6R	VMRC90-6L	VMRC90-8R	VMRC90-8L
92mm to 94mm 3-21/32" to 3-5/8"	VMMSEAL92	VMMSC94	**VMMSEAL94**	**VMMSC94**	VMRC-SB93	VMRC92-6R	VMRC92-6L	VMRC92-R8	VMRC92-8L
94mm to 95mm 3-11/16" to 3-11/16"	VMMSEAL94	VMMSC94	**VMMSEAL96**	**VMMSC94**	VMRC-SB94	VMRC94-6R	VMRC94-6L	VMRC94-8R	VMRC94-8L
96mm to 97mm 3-¾" to 3-13/16"	VMMSEAL96	VMMSC97	**VMMSEAL98**	**VMMSC97**	VMRC-SB96	VMRC96-6R	VMRC96-6L	VMRC96-8R	VMRC96-8L
98mm to 99mm 3-7/32" to 3-7/8"	VMMSEAL98	VMMSC99	**VMMSEAL100**	**VMMSC99**	VMRC-SB98	VMRC98-6R	VMRC98-6L	VMRC98-8R	VMRC98-8L
100mm to 102mm 3-29"/32" to 3-15/16"	VMMSEAL100	VMMSC102	**VMMSEAL103**	**VMMSC102**	VMRC-SB101	VMRC102-6R	VMRC102-6L	VMRC102-8R	VMRC102-8L
103mm to 105mm 4" to 4-3/32"	VMMSEAL103	VMMSC105	**VMMSEAL106**	**VMMSC105**	VMMRC-SB104	VMMRC104-6R	VMMRC104-6L	VMMRC104-8R	VMMRC104-8L
106mm to 108mm 4-1/8" to 4-7/32"	VMMSEAL106	VMMSC108	**VMMSEAL109**	**VMMSC108**	VMMRC-SB107	VMMRC108-6R	VMMRC108-6L	VMMRC108-8R	VMMRC108-8L
109mm to 111mm 4-¼" to 4-9/32"	VMMSEAL109	VMMSC111	**VMMSEAL112**	**VMMSC111**	VMMRC-SB110	VMMRC110-6R	VMMRC110-6L	VMMRC110-8L	VMMRC110-8L
112mm to 114mm 4 3/8" to 4 7/16"	VMMSEAL112	VMMSC111	**VMMSEAL115**	**VMMSC111**	VMMRC-SB113	VMMRC112-6R	VMMRC112-6L	VMMRC112-8L	VMMRC112-8L
115mm to 116mm 4-½" to 4-17/32"	VMMSEAL115	VMMSC116	**VMMSEAL117**	**VMMSC116**	VMMRC-SB115	VMMRC116-6R	VMMRC116-6L	VMMRC116-8R	VMMRC116-8L
117mm to 119mm 4-9/16" to 4-5/8"	VMMSEAL117	VMMSC119	**VMMSEAL120**	**VMMSC119**	VMMRC-SB118	VMMRC118-6R	VMMRC118-6L	VMMRC118-8R	VMMRC118-8L

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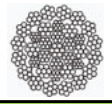
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	Seal Part No.	Scraper No.	Seal Part No.	Scraper No.		Right Lay	Left Lay	Right Lay	Left Lay
120mm to 122mm 4-11/16" to 4-¾"	VMMSEAL120	VMMSC122	**VMMSEAL123**	**VMMSC122**	VMMRC-SB121	VMMRC122-R6	VMMRC122-6L	VMMRC122-8R	VMMRC122-8L
123mm to 125mm 4-13/16" to 4-7/8"	VMMSEAL123	VMMSC125	**VMMSEAL126**	**VMMSC125**	VMMRC-SB124	VMMRC124-6R	VMMRC124-6L	VMMRC124-8R	VMMRC124-8L
126mm to 128mm 4-15/16" to 5"	VMMSEAL126	VMMSC128	**VMMSEAL129**	**VMMSC128**	VMMRC-SB127	VMMRC128-6R	VMMRC128-6L	VMMRC128-R8	VMMRC128-8L
129mm to 131mm 5-1/32" to 5-7/64"	VMMSEAL129	VMMSC131	**VMMSEAL132**	**VMMSC131**	VMMRC-SB130	VMMRC130-6R	VMMRC130-6L	VMMRC130-8R	VMMRC130-8L
132mm to 134mm 5-1/8" to 5-¼"	VMMSEAL132	VMMSC134	**VMMSEAL135**	**VMMSC134**	VMMRC-SB133	VMMRC134-6R	VMMRC134-6L	VMMRC134-8R	VMMRC134-8L
135mm to 137mm 5-9/32" to 5-5/16"	VMMSEAL135	VMMSC137	**VMMSEAL138**	**VMMSC137**	VMMRC-SB136	VMMRC136-6R	VMMRC136-6L	VMMRC136-8R	VMMRC136-8L
138mm to 140mm 5-3/8" to 5-7/16"	VMMSEAL138	VMMSC140	**VMMSEAL141**	**VMMSC140**	VMMRC-SB139	VMMRC140-6R	VMMRC140-6L	VMMRC140-8R	VMMRC140-8L
141mm to 143mm 5-½" to 5-9/16"	VMMSEAL141	VMMSC143	**VMMSEAL144**	**VMMSC143**	VMMRC-SB142	VMMRC142-6R	VMMRC142-6L	VMMRC142-8R	VMMRC142-8L
144mm to 146mm 5-5/8" to 5-11/16"	VMMSEAL144	VMMSC146	**VMMSEAL147**	**VMMSC146**	VMMRC-SB145	VMMRC146-6R	VMMRC146-6L	VMMRC146-8R	VMMRC146-8L
147mm to 149mm 5-¾" to 5-13/16"	VMMSEAL147	VMMSC149	**VMMSEAL150**	**VMMSC149**	VMMRC-SB148	VMMRC148-6R	VMMRC148-6L	VMMRC148-8R	VMMRC148-8L
150mm to 152mm 5-7/8" to 5-15/16"	VMMSEAL150	VMMSC152	**VMMSEAL153**	**VMMSC152**	VMMRC-SB151	VMMRC152-6R	VMMRC152-6L	VMMRC152-8R	VMMRC152-8L
153mm to 155mm 6" to 6-1/16"	VMMSEAL153	VMMSC155	**VMMSEAL156**	**VMMSC155**	VMMRC-SB154	VMMRC154-6R	VMMRC154-6L	VMMRC154-R8	VMMRC154-8L
156mm to 158mm 6-3/32" to 6-3/16"	VMMSEAL156	VMMSC158	**VMMSEAL159**	**VMMSC158**	VMMRC-SB157	VMMRC158-6R	VMMRC158-6L	VMMRC158-8R	VMMRC158-8L
159mm to 161mm 6-1/4" to 6-5/16"	VMMSEAL159	VMMSC161	**VMMSEAL162**	**VMMSC161**	VMMRC-SB160	VMMRC160-6R	VMMRC160-6L	VMMRC160-8R	VMMRC160-8L
162mm to 165mm 6-3/8" to 6-1/2"	VMMSEAL162	VMMSC165	**VMMSEAL165**	**VMMSC165**	VMMRC-SB163	VMMRC164-6R	VMMRC164-6L	VMMRC164-8R	VMMRC164-8L