

Viper Mid Mk II Wire Rope Lubricator

SUPERIOR PROTECTION for WIRE ROPES

FEATURES BENEFITS

- **o** Single Pass Wire Rope Lubrication Simplifies and speeds up the rope lubricating process
- o Eliminates Manual Greasing Safer for staff, reduced lubricant usage, less leakage & mess
- High Pressure / High Flow Grease Pump Provides grease penetration, displaces moisture from rope core / total coverage, even for large ropes
- o Fast & Efficient Rope Lubrication Reduced downtime associated with rope lubrication which improves equipment availability. Speeds up to 2,000mt/hour
- Able to lubricate all major rope sizes Viper Mid Mk II can lubricate rope sizes 6mm (15/64") to 67mm (2-5/8") Custom units also available







APPLICATIONS

WHARF CRANES SHIP CRANES ROV CABLES MINE WINDERS MOBILE CRANES OIL & GAS PLATFORMS ANCHOR ROPES DECK WINCHES OVERHEAD CRANES SHIP LOADERS



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Viper Mid Mk II Wire Rope Lubricator

VIPER Mid Mkll WRL Kit

The Viper Mid Mkll Kit is supplied as a complete package, with all of the components required to get you started. Simply order the kit and then select and order the seals and scrapers to suit the rope size to be lubricated. (note refer to the seal and scraper selection guide page 4)

Kit Components

- Viper Mid Mk II High Strength Collar
- Viper High Volume Grease Pump
- Air Regulator With Gauge & Isolation Valve
- 4m High Pressure 1/2" Lube Delivery Hose
- High Pressure Lubricant Metering Valve
- Clear Lube Drain Hose
- Retaining Ratchet Straps & Shackles
- Robust Aluminium Storage Case
- Convenient Carry Strap for Collar

Viper Collar

The Mid Mk II Collar is the heart of the Viper Wire Rope Lubricating system. Constructed from high grade, cast aluminium with a robust protective coating. The collar is completed with stainless steel hardware to provide maximum corrosion protection.



The MKII collar is 32% lighter than the original Viper collar plus comes complete with inbuilt handles making it easily carried in one hand and fitted to the rope by one person.

Wire Rope Lubricants

Specifically formulated wire rope lubricants should be used with the Viper MkII WRL.



Viper Grease Pump



The new Viper Mk II kit includes an upgraded lubricant pump, built specifically for the Viper WRL.

Flow rates of \approx 5kg (11lb) / minute using an NLGI #0 grease at pressures of up to 385 bar (5,500 PSI) are achieved from the standard 20kg (35lb) pump with a 55kg (120lb) and 180kg (400lb) option also available.



Viper Mid Mk II Seal & Scraper Selection

Seals Selection

Viper WRL Seals are made from a specially formulated polyurethane material that provides excellent durability, wear resistance and flexibility. It is this flexibility that allows the seal to provide a more positive interface and hence seal with

the rope. Each seal set comes as a pair, sized to suit the nominated rope diameter. 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

Aluminium Scrapers are attached to each end of the Viper collar to assist in pre-cleaning the rope and protect the seals from damage. Scrapers are supplied slightly larger than the actual wire rope size to allow for rope flexing.



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.



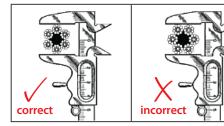


ABOVE: Smooth Bore Rope Cleaner

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

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



How to measure a wire rope correctly.



Right Lay - Clockwise Rotation



Left Lay - Counter Clockwise Rotation

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Viper Mid Mk II Seal - Scraper - VRC Guide

| HOOSE CORRECT ROPE TYPE | for 6 or 8 Strand Ropes Only | | These Columns for Armoured or Multi Strand Ropes Only | | | | | | |
|--------------------------------------|--|-------------|--|-------------|----------------------|--|-----------|--|-----------|
| Actual Rope Size | Viper Seals for "6 & 8" Strand Ropes Only | | Viper Seals/Scraper for "Amoured & Multi Strand | | Viper Smooth Bore | Viper Rope Cleaner "6 Strand Ropes" | | Viper Rope Cleaner "8 Strand Ropes" | |
| 6mm to 7mm | Seal Part No. | Scraper No. | Seal Part No. | Scraper No. | Rope Cleaner | Right Lay | Left Lay | Right Lay | Left Lay |
| 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-%" 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 |
| 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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