

# 53DM/538DM – DuraMax™ SAE 100R18 Low Temperature Hydraulic Hose

## Copolyester Core Tube

Superior flexibility in cold temperature applications.



### Features

- Low coefficient of friction cover
- Superior flexibility in cold temperature applications
- Excellent for over-the-sheave applications
- Better bend radius than SAE J517 and 100R7
- 3000 psi constant pressure

### Construction

- Tube: Copolyester
- Reinforcement: Fiber
- Cover: Copolyester

### Operating Parameters

- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -70°F (-57°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vacuum Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

### Compliance

- Meets/Exceeds SAE J517 100R18
- Meets SAE J517 electrical standards (non-conductivity) - 538DM

### Fittings

- 56 Series – pg. E-33
- For most Parker products, Crimp Die Selection charts are found online at [www.parker.com/crimpsource](http://www.parker.com/crimpsource)
- Access instructions are on pg. G-3

### Notes

- Perforated cover - 53DM
- Non-perforated cover - 538DM

### Color

- ● Black - 53DM
- ● Orange (non-conductive) - 538DM



### Series 53DM/538DM

[Visit the webpage](#)

| Part Number | Nominal I.D. | Maximum O.D. |      | Maximum Working Pressure |      | Minimum Bend Radius |      | Weight   |        | Permanent Fitting Series |      |    |
|-------------|--------------|--------------|------|--------------------------|------|---------------------|------|----------|--------|--------------------------|------|----|
|             |              | inch         | mm   | psi                      | MPa  | inch                | mm   | lbs./ft. | kg/mtr |                          |      |    |
| 53DM-4      | -            | 1/4          | 6.3  | 0.49                     | 11.9 | 3,000               | 20.7 | 1-1/4    | 32.0   | 0.07                     | 0.10 | 56 |
| 53DM-6      | 538DM-6      | 3/8          | 10   | 0.66                     | 16.7 | 3,000               | 20.7 | 2        | 51.0   | 0.11                     | 0.16 | 56 |
| 53DM-8      | -            | 1/2          | 12.5 | 0.84                     | 21.3 | 3,000               | 20.7 | 3-1/2    | 89.0   | 0.17                     | 0.26 | 56 |
| 53DM-10     | -            | 5/8          | 16   | 1.03                     | 26.2 | 3,000               | 20.7 | 4        | 102.0  | 0.22                     | 0.33 | 56 |
| 53DM-12     | -            | 3/4          | 19   | 1.13                     | 28.7 | 3,000               | 20.7 | 6-1/2    | 165.0  | 0.26                     | 0.39 | CG |



### WARNING

This product can expose you to chemicals including N-Methylpyrrolidone, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).