

53DM/538DM DuraMax™

3,000 constant psi

Designed specifically for lift trucks, this rugged design maximizes hose life in over-the-sheave applications



Parflex 53DM DuraMax™ hose is a 3,000 psi constant pressure hose with a special fiber reinforcement that allows total flexibility without compromising strength. The fiber reinforcement contributes to the compact O.D. design by allowing the hose to have a very tight bend radius and glides over sheaves effortlessly. This fiber reinforcement also makes 53DM less susceptible to failure under high-impulse bending, even in refrigerated areas where temperatures reach -70°F.

Parker DuraMax™ hose incorporates a unique bonding process with a high level of contact strength between the layers of core, braid and low-friction jacket. And for added value, the ultra clean core tube won't contaminate your hydraulic system or components, which can be seen with rubber hoses. Coupled with a 3,000 psi constant pressure, 53DM hose is unmatched in performance.



53DM DuraMax™ excels in over-the-sheave applications. Repeatedly, it outlast the competition time after time.



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Product Features:

- Low coefficient of friction cover
- 70% lighter than equivalent rubber hoses
- Superior flexibility in cold temperature applications
- Better bend radius than SAE J517 and 100R7
- Smaller O.D. than 100R7 and 100R18
- 3000 psi constant pressure
- Unique bonding process reduces downtime and replacement frequency
- Bondable

ENGINEERING YOUR SUCCESS.

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

Compliance

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

Construction

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

Fittings

- 56 Series
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource

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)

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	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