

# "COLD STORE" APPLICATION



**LIFT-TEK**  
**ELECAR** MASTS  
Lift Technologies 

 **CALVI** HOLDING S.p.A.

**LIFT-TEK ELECAR S.p.A.**

Via G. Galilei - 29015 Castel S. Giovanni (PC)

Tel. 0523 843241 – Fax. 0523 881346

## The case

Pursuing efficiency has always been one of the major targets in the material handling world. This is the reason why lift masts have been playing a leading role in the “cold store” applications. Intensive work at low temperatures has always been a challenge for the lift masts and their hosing both in the traditional as well as in the automation applications.



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## The solution

It is no longer utterly impossible to have hoses running smoothly in the pulleys even in Artic temperatures by using Parker serie 53 DM hoses. Lift-Tek Elecar can now offer on their full mast range, completely interchangeable hoses with the traditional ones!

### 53DM/538DM – DuraMax™ Low Temperature



#### Features

- Matte jacket for low coefficient of friction
- Superior flexibility in cold temperature applications
- Better bend radius than SAE J517 and 100R7
- Smaller O.D.s than 100R7 and 100R18
- 3000 PSI constant pressure

#### Certifications

- Meets or Exceeds SAE 100R18
- 538DM Meets SAE J517 for less than 50 micro-amps leakage under 75,000 volts per foot



# Hose technical features

## Applications/Markets



- Excellent over-the-sheave in lift truck applications
- Cold storage or refrigerated areas
- Construction and agriculture equipment in cold climate
- 53DM-12 Not suggested for use in over-the-sheave (pulley system) applications

Part Number		Nominal I.D.		Maximum O.D.		Maximum Working Pressure 73°F/23°C		Minimum Bend Radius		Vac. Rating Hg./73°F	Weight		Permanent Fitting Series
#	#												
Natural	Non-Conductive	inch	mm	inch	mm	psi	MPa	inch	mm	inch	lbs./ft.	kg./mtr.	
53DM-3	538DM-3	3/16	5	.43	11	3,000	20.7	1.00	25	28	.06	.08	55
53DM-4	538DM-4	1/4	6	.49	12	3,000	20.7	1.25	32	28	.07	.10	55/HY*
53DM-5	538DM-5	5/16	8	.60	15	3,000	20.7	2.00	51	28	.10	.15	58/HY*
53DM-6	538DM-6	3/8	10	.66	17	3,000	20.7	2.00	51	28	.11	.16	55/58/HY*
53DM-8	538DM-8	1/2	13	.84	21	3,000	20.7	3.50	89	28	.17	.26	55/58/HY*
53DM-10	538DM-10	5/8	16	1.03	26	3,000	20.7	4.00	102	28	.22	.33	58
53DM-12	-	3/4	19	1.13	29	3,000	20.7	6.50	165	28	.26	.39	58H

### Construction

Tube: Copolyester  
Reinforcement: Fiber  
Cover: Copolyester

### Operating Parameters

Temperature Range:

-70°F to +212°F (-57°C to +100°C)

For use with water and water-based hydraulic fluids to +135°F (+57°C)

Change in working length @ Rated WPSI: ±2%

Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

### Fittings

55 Series – pg. E-12    58 Series – pg. E-12

58H Series – pg. E-41

HY Series – pg. E-87 (\*HY Fittings available from Parker Hose Products Division)

For Crimp Die Selection charts see pgs. G-30 : G-41

Crimp information can be found online, for most Parker products, at [www.parker.com/crimpsource](http://www.parker.com/crimpsource)

### Colors

● Black

● Orange (Non-Conductive)

### Notes

Perforated cover - 53DM



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