"COLD STORE" APPLICATION







LIFT-TEK ELECAR S.p.A.

Via G. Galilei - 29015 Castel S. Giovanni (PC) Tel. 0523 843241 – Fax. 0523 881346

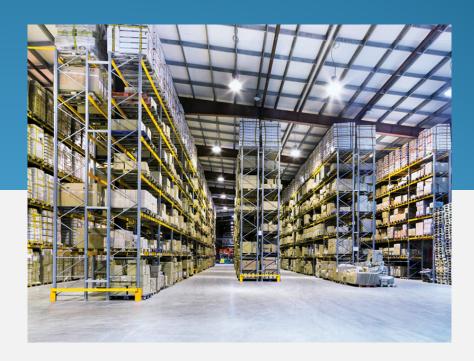
The case

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 smootly 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 intercheangeable 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 0.D.		Maximum Working Pressure 73°F/ 23°C		Minimum Bend Radius		Vac. Rating Hg./73°F	Weight		Permanent Fitting Series
#	#	0						\sim		۲	lbs		
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 $+135^{\circ}F$ ($+57^{\circ}C$)

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

Colors

Black

Orange (Non-Conductive)

Notes

Perforated cover - 53DM





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