LewVac

DATA SHEET - M-RMDS40-###-## Single Shaft Non Rotatable Magnetic Transporter DN40CF

Introduction

The M-RMDS40 is an all metal sealed, linear feedthrough. It's main purpose is to transport samples between UHV-chambers. The square shaft makes this feedthrough especially sturdy. A set of rare earth magnets on the air- and vacuumside provides the necessary force to ensure a rigid coupling from the handle to the shaft. All ball bearings are Dicronite (W-disulfide) dry lube coated. On request, the RMDS can be built with SiC ceramic hybrid ball bearings.

Specifications:

Materials

	All UHV compatible
Vacuum Range	
CF flanged	atm to 1x10 ⁻¹¹ mbar
Temperature Range*	
CF flanged	-196 to 150°C
Load	
Linear force	70N typical
Torque	5Nm typical
Retracted Shaft Leng	gth
Dual shaft	30mm



Description	Part Code
Single shaft non rotatable linear magnetic transporter 300mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMDS40-300-50
Single shaft non rotatable linear magnetic transporter 500mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMDS40-500-50
Single shaft non rotatable linear magnetic transporter 750mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMDS40-750-50
Single shaft non rotatable linear magnetic transporter 1000mm linear 50mm retracted DN40CF (with dicronite coated ball bearings)	M-RMDS40-1000-50
ingle shaft non rotatable linear magnetic transporter Xmm linear Ymm retracted DN40CF (with dicronite coated ball	M-RMDS40-X-Y

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