ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet TED1



Considering the working principle of oil pump and damper, TED1 hydraulic bearing is made on the basis of TEP1. Its performance is the same as DP4 and may be the substitute for DP4 in foreign countries. Apart from the exact utilisation of TEP1, TED1 demonstrates its preference when working under high-frequency reciprocating motion with a high side force. There is a trend to replace TEP1 with TED1 progressively. TED1 covers a wide application in automobiles, engine dampers and oil cylinders etc.

Application

Various hydraulic cylinders

Material

Steel + frcition modifier.

Availablity

	Value	Unit
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	on request	

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TED1 - Specifications

Physical properties

	Test standard	Value	Unit

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		on request	
Impact strength		on request	
Hardness		on request	
Dynamic load capacity		140	MPa

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-195	°C
Max. working temperature		280	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0.04-0.20	[-]
Max. sliding speed		3	m/s
Max. Pv-load dry		3,8	MPa*m/s
Max. Pv-load oil lubricated		50	MPa*m/s
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit

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