Accessories

Measuring wheels



3 Nm

Description

When selecting a measuring wheel the kind of material to be measured has to be taken into consideration prior to any decision on wheel surface respectively cover lining. The wheel circumference depends on the space available as well as on the size of counter or encoder. The smaller the measuring wheel, the more force required at the wheel circumference and consequently the higher the risk of slippage and incorrect measuring results. Also the width of the measuring wheel has an impact on the result.

Technical data - Large measuring wheels							
	MR512	MR542	MR552	MR562	MR592		
Circumference	50 cm	50 cm	50 cm	50 cm	50 cm		
Outer diameter	159.15 ±0.2 mm	159.15 ±0.2 mm	159.15 ±0.2 mm	159.15 ±0.2 mm	159.15 ±0.2 mm		
Surface profile	Cross knurl	smooth	smooth	knopped rubber	knurled		
Surface material	Aluminium	Hytrel TPE-E	Vulkollan PUR	Nitrile NBR	Hytrel TPE-E		
Wheel material	Aluminium	Plastic	Aluminium	Aluminium	Plastic		
Surface hardness, approx.	-	90° Shore A	94° Shore A	55° ±5° Shore A	90° Shore A		
Operating temperature	-30+180 °C	-10+70 °C	-30+80 °C	-10+50 °C	-10+70 °C		

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Technical data - Small measuring wheels						
MR211	MR241	MR261	MR291	MR752		
20 cm	20 cm	20 cm	20 cm	30.48 cm		
63.66 ±0.1 mm	63.66 ±0.1 mm	63.66 ±0.1 mm	63.66 ±0.1 mm	97.02 ±0.06 mm		
Cross knurl	smooth	knopped rubber	knurled	smooth		
Aluminium	Hytrel TPE-E	Nitrile NBR	Hytrel TPE-E	Vulkollan PUR		
Aluminium	Plastic	Aluminium	Plastic	Aluminium		
-	90° Shore A	55° ±5° Shore A	90° Shore A	92° Shore A		
-30+180 °C	-10+70 °C	-10+50 °C	-10+70 °C	-30+80 °C		
1.5 Nm	1.5 Nm	1.5 Nm	1.5 Nm	1.5 Nm		
	MR211 20 cm 63.66 ±0.1 mm Cross knurl Aluminium Aluminium30+180 °C	MR211 MR241 20 cm 20 cm 63.66 ±0.1 mm 63.66 ±0.1 mm Cross knurl smooth Aluminium Hytrel TPE-E Aluminium Plastic - 90° Shore A -30+180 °C -10+70 °C	MR211 MR241 MR261 20 cm 20 cm 20 cm 63.66 ±0.1 mm 63.66 ±0.1 mm 63.66 ±0.1 mm Cross knurl smooth knopped rubber Aluminium Hytrel TPE-E Nitrile NBR Aluminium Plastic Aluminium - 90° Shore A 55° ±5° Shore A -30+180 °C -10+70 °C -10+50 °C	MR211 MR241 MR261 MR291 20 cm 20 cm 20 cm 20 cm 63.66 ±0.1 mm 63.66 ±0.1 mm 63.66 ±0.1 mm 63.66 ±0.1 mm Cross knurl smooth knopped rubber knurled Aluminium Hytrel TPE-E Nitrile NBR Hytrel TPE-E Aluminium Plastic Aluminium Plastic - 90° Shore A 55° ±5° Shore A 90° Shore A -30+180 °C -10+70 °C -10+50 °C -10+70 °C		

Appropriate material to be measured				
Recommendend Surface	Suitable material			
Hytrel grooved	Plastic, painted material, paper, Cardboard, wood, metal, textiles			
Hytrel smooth	Plastic, painted material, paper, Cardboard, wood, metal, textiles			
Knurled	Cardboard, wood, (textiles)			
Knopped rubber	Textiles, cloth			
Vulkollan smooth	Plastic, painted material, paper, Cardboard, wood, metal, wire			

Measuring accuracy

Precise measuring results of a meter counter with measuring wheel depend on:

3 Nm

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- Kind of measured material
- Contact angle
- Torque of counter or encoder
- Feeding speed
- Strain of measured material
- Surface roughness
- Contact pressure of material against measuring wheel
- Elastictiy of measured material
- Diametrical tolerance of the measuring wheel



Fastening torque/pin

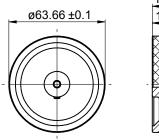
Accessories Measuring wheels

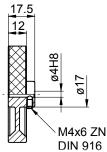
Accessories

Measuring wheels

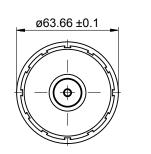
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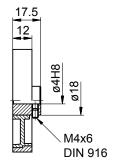
MR211



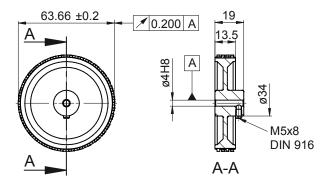


MR241, MR291

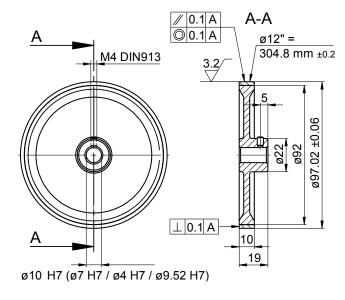




MR261



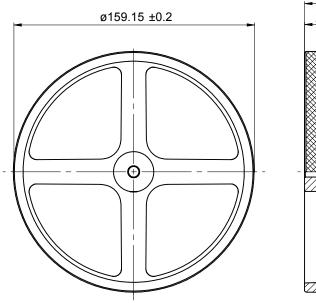
MR752

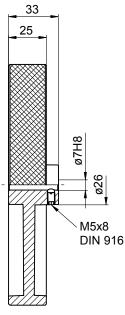


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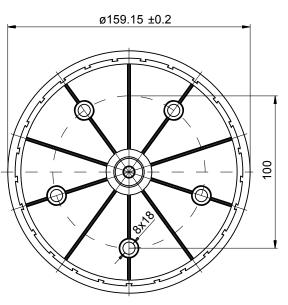
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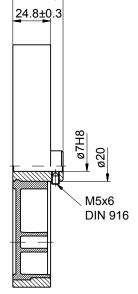
MR512





MR542, MR592





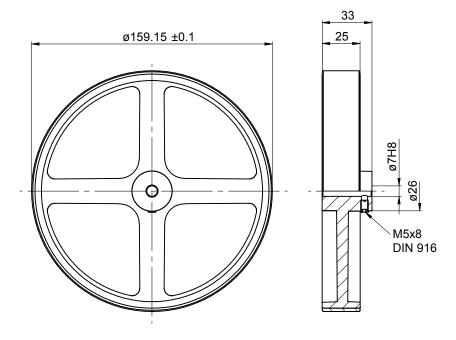
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Accessories

Measuring wheels

Dimensions

MR552



MR562

