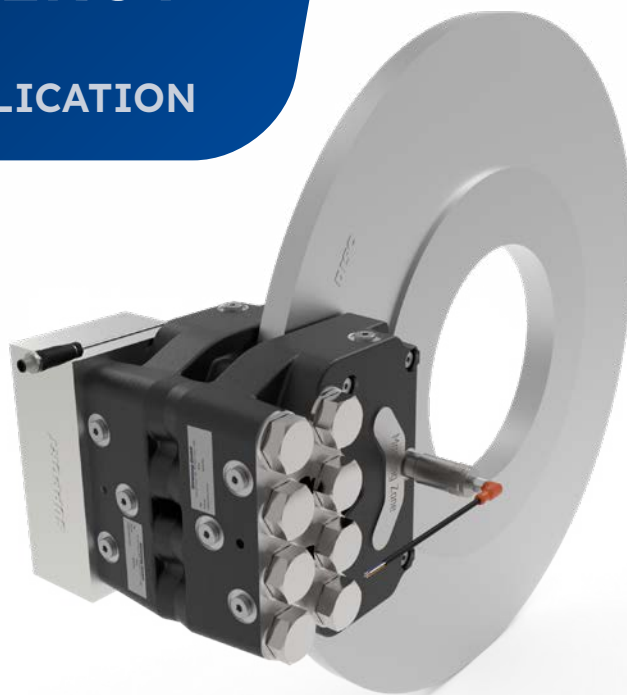




CB90R-ULTRA ENERGY ROTOR BRAKE

HIGH-ENERGY BRAKING APPLICATION



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CB90R-Ultra Energy Rotor Brake

FEATURES

- Active hydraulically actuated rotor brake for high-energy braking applications
- Braking torque adjustable by adjusting the pressure
- Wear sensor with detection of pre-worn and full-worn condition of lining pad
- Temperature sensor (PT100)
- Retraction system of lining pads
- Controlled retraction system of lining pads with constant airgap (CR)
- Mineral or synthetic oil
- Protection class C3-H standard ISO 12944-2
- Option:
 - Full retraction of lining pads
 - VCI packing

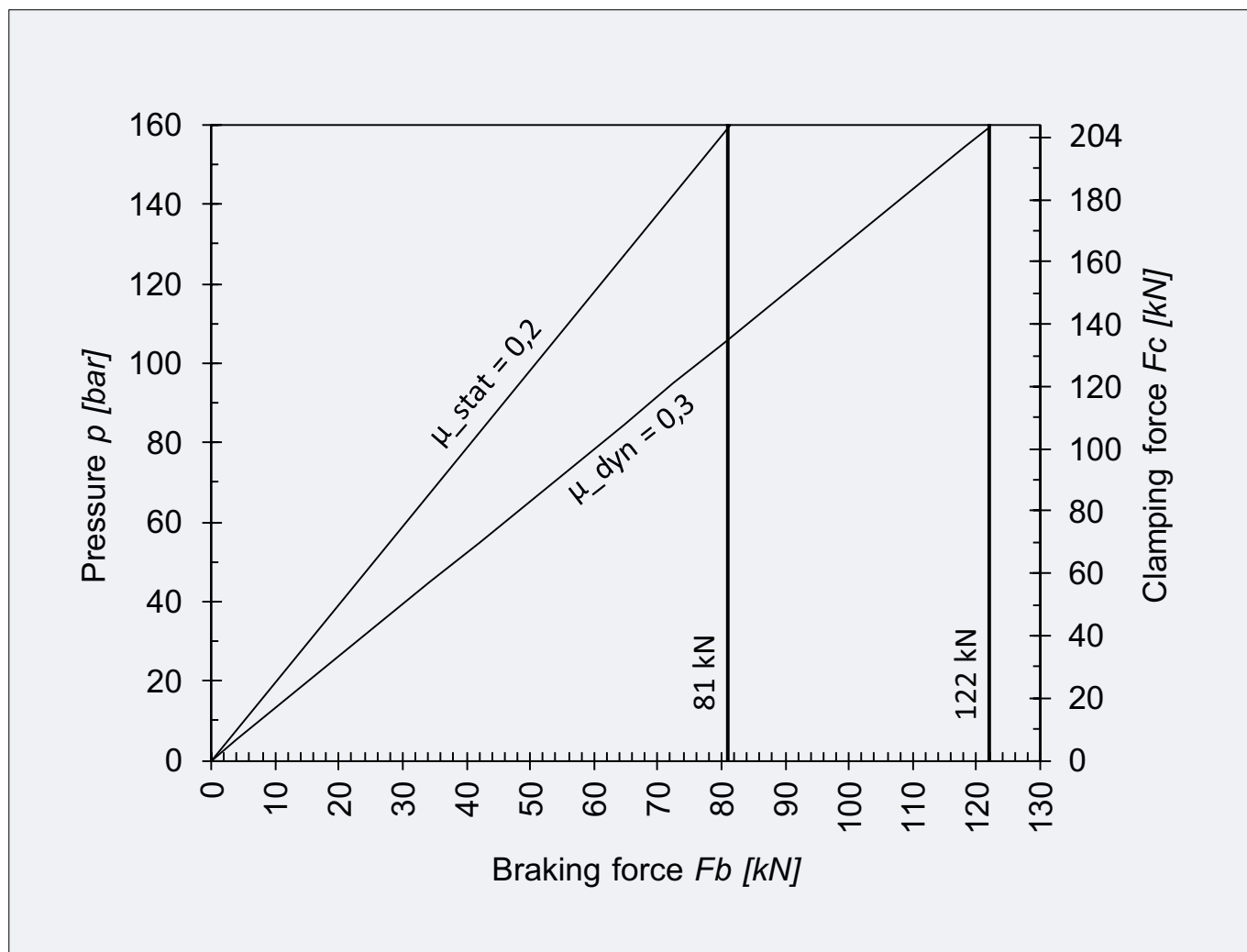
Operating condition

Operating temperature: -30°C to $+60^{\circ}\text{C}$

Option: -40°C to $+60^{\circ}\text{C}$

Relative humidity: $\leq 70\%$

DIAGRAM 1: PRESSURE-FORCE-DIAGRAM



μ : Average friction coefficient

CB90R-Ultra Energy Rotor Brake

Table 1: Technical data

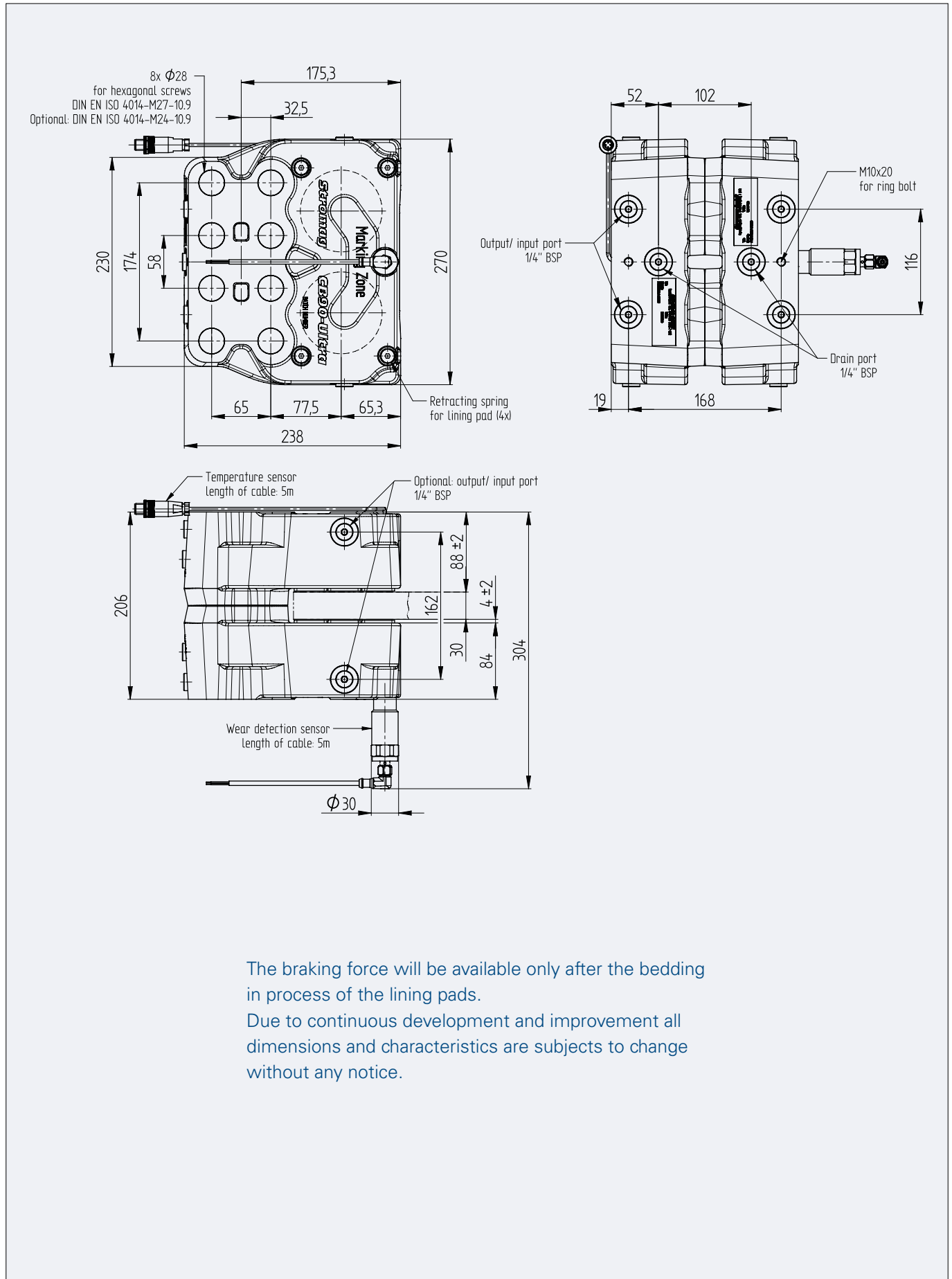
Designation CB90R-ULTRA Energy				
Lining Pad			EF3-1	RBS-5
Article no.			381-01324	381-01325
The following parameters apply to BOTH versions				
Operation mode			static	dynamic
Average braking force ¹⁾ at max. pressure		F _B	N	81 000
Braking torque for the braking-Ø		T _B	Nm	T _B = F _B × ($\frac{D}{2}$ + 0,0525)
Max. pressure		p	bar	160
Disc speed			m/s	≤ 100
Oil volume	new pads	V _{neu}	cm ³	180
	worn pads	V _{verschl.}	cm ³	333
	per 1 mm stroke	V _{1 mm}	cm ³	25,5
Brake weight		m	kg	61
Disc thickness ²⁾		e	mm	30
Max. dissipated energy per braking operation ³⁾			MJ	14
1) The fluctuation of the friction coefficient causes a tolerance of ±10%.				
2) For other disc thicknesses contact us.				
3) In combination with a disc size of Ø1000x30 mm. For other values contact us.				

Table 2: Electrical data

Sensor	Wear detection	Temperature (PT 100)
Data sheet	381-01130	062-01003
Operating current	2 ... 100 mA	max. 1 mA
Operating voltage	10 ... 36 V DC	f (R)
Resistance		R(- 40°C) = 84,27 Ω
		R(0°C) = 100,00 Ω
		R(100°C) = 138,51 Ω
		R(200°C) = 175,86 Ω

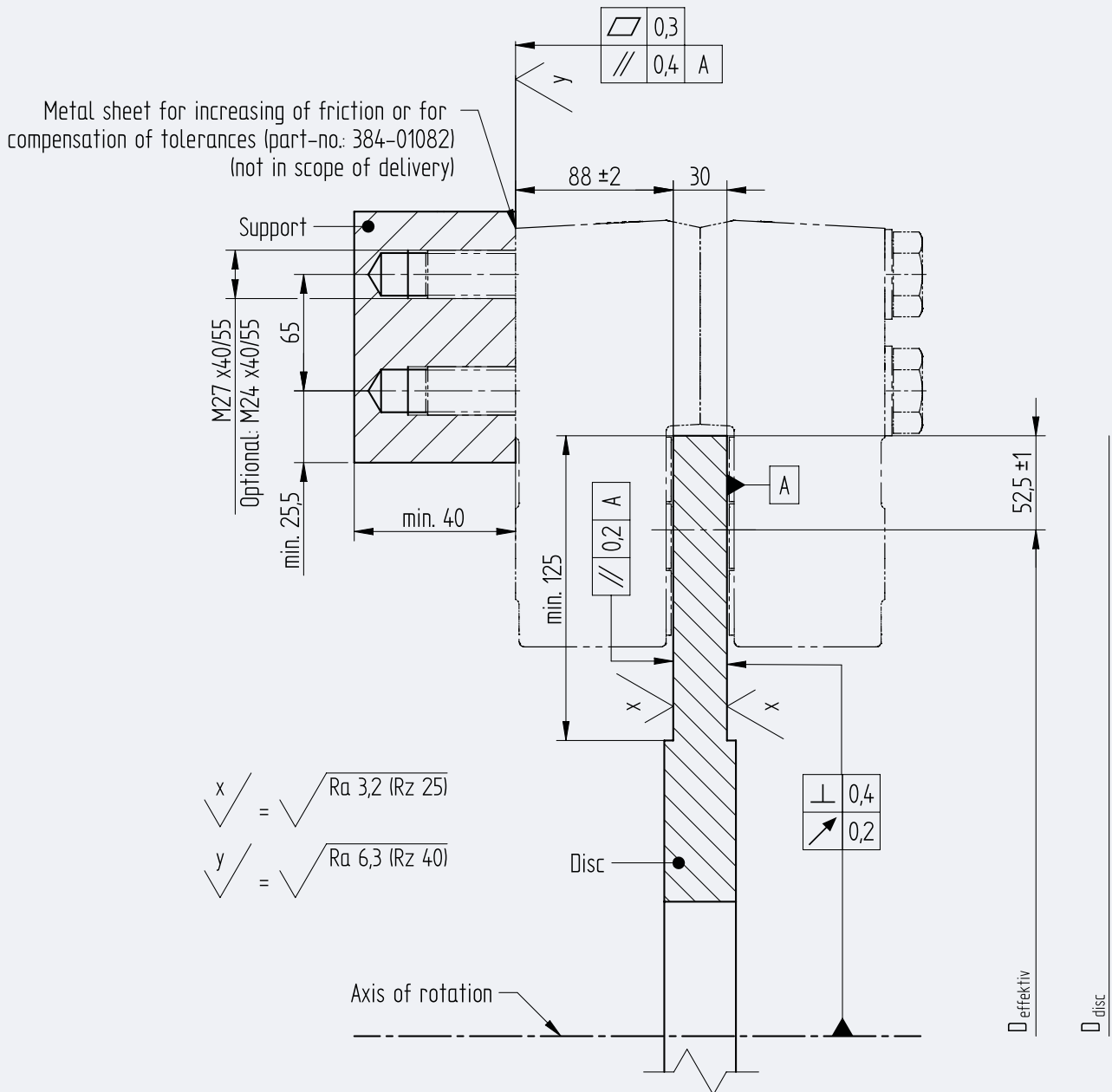
CB90R-Ultra Energy Rotor Brake

Figure 1: Brake (sketch is not to scale)



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Figure 2: Mounting conditions (sketch is not to scale)



Material of disc:

Steel S235J or S355J standard NF EN10025 or casting
EN GJS 400-18LT standard NF EN1563.

Please contact our technical service for any other
operating conditions or for technical questions.



Stop seeing individual parts. Start seeing unlimited possibilities.

Regardless of your objectives or the challenges with your application, Powertrain Solutions can help you achieve your unique goals. No matter what your application looks like, it relies on many components, all working together. But not all components are made to work together reliably and efficiently. Powertrain Solutions has the insight, experience and expertise to engineer your collection of components into a fully optimized system — giving you solutions that boost efficiency, improve reliability and performance, lower costs and simplify ordering and logistics.

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Belt & Chain
Drives



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Brakes



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