

Disc Brake DBF 60

 edition 05/18 | EN
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Dimensions and Technical Data

TECHNICAL DATA

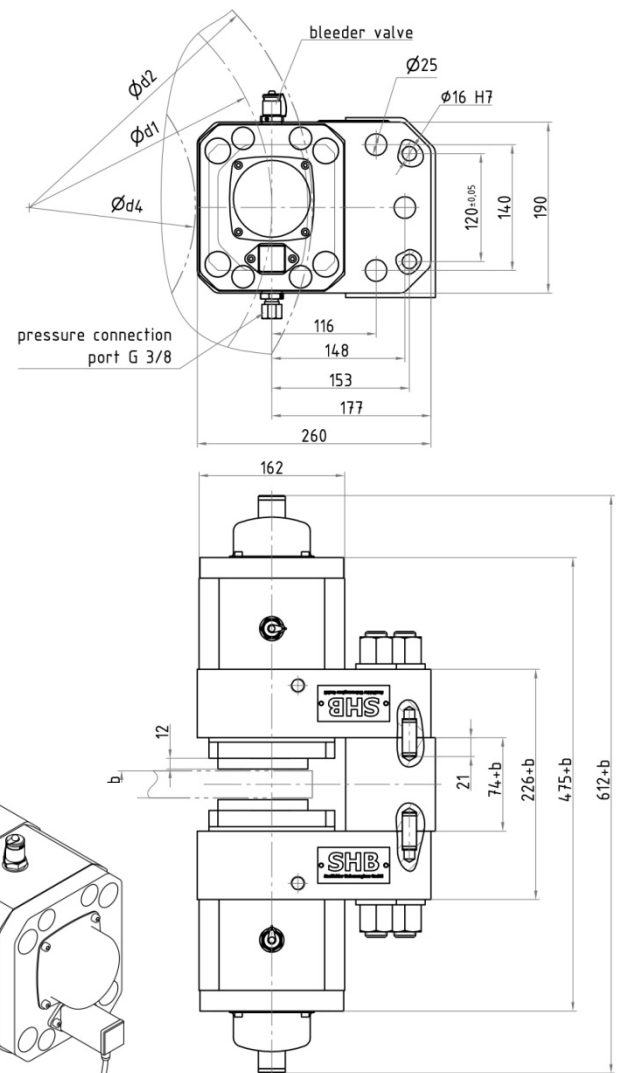
Braking torque [kNm]	
$M_{br} = F_A \cdot (d_1 / 1000) \cdot \mu$	
Friction diameter	$d_1 = d_2 - 90 \text{ mm}$
Hub outside diameter	$d_4 = d_2 - 260 \text{ mm}$
Brake disc thickness	mind. 25 mm
Friction value	$\mu = 0,4$
Air gap, adjustable	1 – 3 mm
Releasing time	1 – 2,5 s
Theoretical resetting time	ca. 0,2 s
Pad surface	126 cm ²
Maximum pressure	120 bar
Oil volume	0,24 l
Oil volume at 2mm working stroke	0,04 l
Screw size, property class	M 24 – 8.8/ 10.9
Pipe dimensions	G 3/8" ; Rohr $\varnothing 12 \times 1,5$
Ambient temperature	-20°C bis +60°C
Weight, without mounting bracket	110 kg

d_1 = Friction diameter

d_2 = Outside diameter of brake disc
 Minimum outside diameter: 630 mm

d_4 = Maximum diameter of rope drum or hub
 Note: Attend the rope clamps!

b = Brake disc thickness (min. 25 mm)



all dimensions in mm

BRAKING FORCES

Size	Clamping force F_A depending on the air gap			Releasing pressure [bar]	Tightening torque [Nm]
	1 mm	2 mm	3 mm		
DBF 60.1	11 kN	10 kN	9 kN	30 bar	8.8 – 500 Nm
DBF 60.2	21 kN	20 kN	19 kN	40 bar	8.8 – 600 Nm
DBF 60.3	31 kN	30 kN	29 kN	60 bar	8.8 – 700 Nm
DBF 60.4	42 kN	40 kN	38 kN	70 bar	8.8 – 800 Nm
DBF 60.5	52 kN	50 kN	48 kN	90 bar	10.9 – 900 Nm
DBF 60.6	62 kN	60 kN	58 kN	100 bar	10.9 – 1000 Nm

The clamping force can tolerate around 5%. Tightening torques are valid for unlubricated thread. We recommend to use screws without surface treatment, i.e. bare, neither zinc-plated nor hot-dip galvanized or similar.

INSTRUCTIONS

- For selection of the air gap you should absolute consider a potential axial clearance of the bearing. We recommend at least 2 mm air gap.
- The stated releasing time depends mainly on the pump power of the power pack.
- The theoretical resetting time can only be reached by adequate dimensioning of the hydraulic pipes and hoses
- Brake system available with bracket and assembled power pack, filled and bled as „plug and play“- version.
- Inductive proximity switch for indication of released position as standard.
- Proximity switches for monitoring of brake linings wear on request.
- Drawings as DWG, DXF, PDF File or 3D- model available.