Disc Brake DBF 145

Dimensions and Technical Data

TECHNICAL DATA

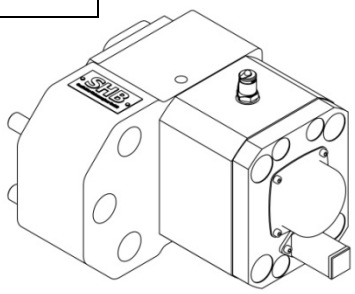
Braking torque [kNm]	
$M_{br}=F_A\cdot(d_1/1000)\cdot\mu$	
Friction diameter	$d_1 = d_2$ - 80 mm
Hub outside diameter	$d_4 = d_2$ - 250 mm
Brake disc thickness	mind. 25 mm
Friction value	μ= 0,4
Air gap, adjustable	1 – 3 mm
Releasing time	1 – 2,5 s
Theoretical resetting time	ca. 0,2 s
Pad surface	160 cm^2
Maximum pressure	250 bar
Oil volume	0,24 l
Oil volume at 2mm working stroke	0,04 l
Screw size, property class	M 36 – 8.8/ 10.9
Pipe dimensions	G 3/8" ; Rohr ø12 x 1,5
Ambient temperature	-20°C bis +60°C

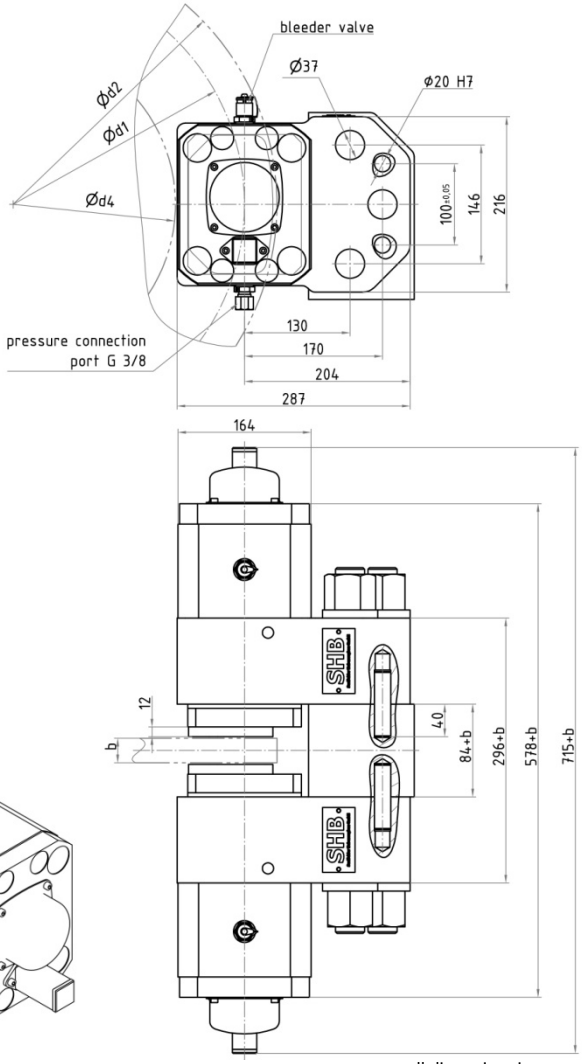
d_1= Friction diameter

d_2= Outside diameter of brake disc
Minimum outside diameter: 650 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

	Clamping force F_A depending on the air gap			Releasing pressure	Tightening torque
Size	1 mm	2 mm	3 mm	[bar]	[Nm]
DBF 145.1	75 kN	70 kN	65 kN	120 bar	8.8 – 2500 Nm
DBF 145.2	85 kN	80 kN	75 kN	130 bar	8.8 – 2700 Nm
DBF 145.3	94 kN	90 kN	86 kN	140 bar	8.8 – 2900 Nm
DBF 145.4	104 kN	100 kN	96 kN	150 bar	8.8 – 3100 Nm
DBF 145.5	115 kN	110 kN	105 kN	180 bar	10.9 – 3300 Nm
DBF 145.6	130 kN	125 kN	120 kN	200 bar	10.9 – 3600 Nm
DBF 145.7	155 kN	145 kN	135 kN	240 bar	10.9 – 3900 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 galvanised 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 bleeded 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.

SHB Hebezeugbau GmbH
Unternehmensbereich Komponenten

Straße der Freiheit 1
07318 Saalfeld/Saale

Fon: +49 3671 441-341
Fax: +49 3671 441-343

Mail: komponenten@shb-net.de
www.shb-net.de