

Disc Brake DBF 145 S

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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	$d_1 = d_2 - 80 \text{ mm}$
Hub outside diameter	$d_4 = d_2 - 250 \text{ mm}$
disk 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	160 cm ²
Maximum pressure	250 bar
Oil volume	0,12 l
Oil volume at 2mm working stroke	0,02 l
Pipe dimensions	G 3/8" ; Rohr ø12 x 1,5
Ambient temperature	-20°C bis +60°C
Weight, without mounting bracket	207 kg

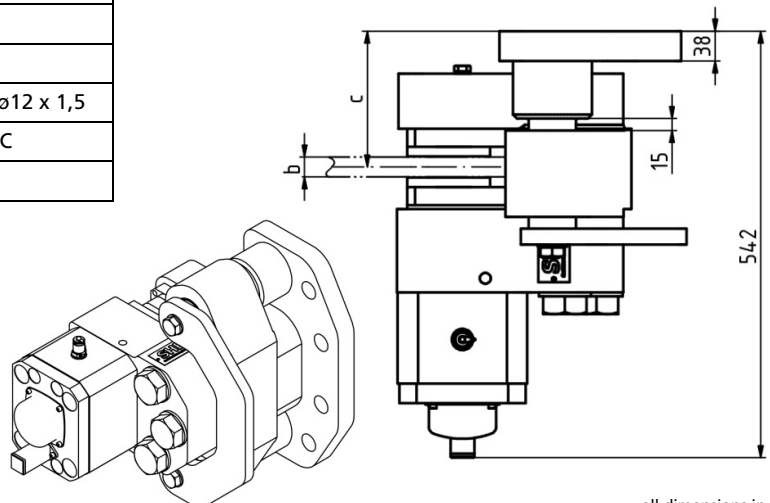
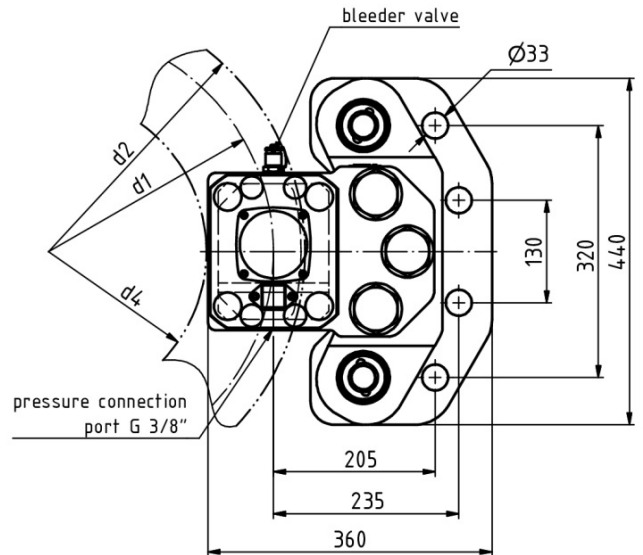
d_1 = Friction diameter

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)

c = 160mm + $b/2$



all dimensions in mm

BRAKING FORCES

Size	Clamping force F_A depending on the total air gap			Releasing pressure
	1 mm	2 mm	3 mm	
DBF 145.1 S	75 kN	70 kN	65 kN	120 bar
DBF 145.2 S	85 kN	80 kN	75 kN	130 bar
DBF 145.3 S	94 kN	90 kN	86 kN	140 bar
DBF 145.4 S	104 kN	100 kN	96 kN	150 bar
DBF 145.5 S	115 kN	110 kN	105 kN	180 bar
DBF 145.6 S	130 kN	125 kN	120 kN	200 bar
DBF 145.7 S	155 kN	145 kN	135 kN	240 bar

The clamping force can tolerate around 5%.

INSTRUCTIONS

- The floating calliper balance an axial clearance of the bearing of ± 15 mm. We recommend at least 2 mm total 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.