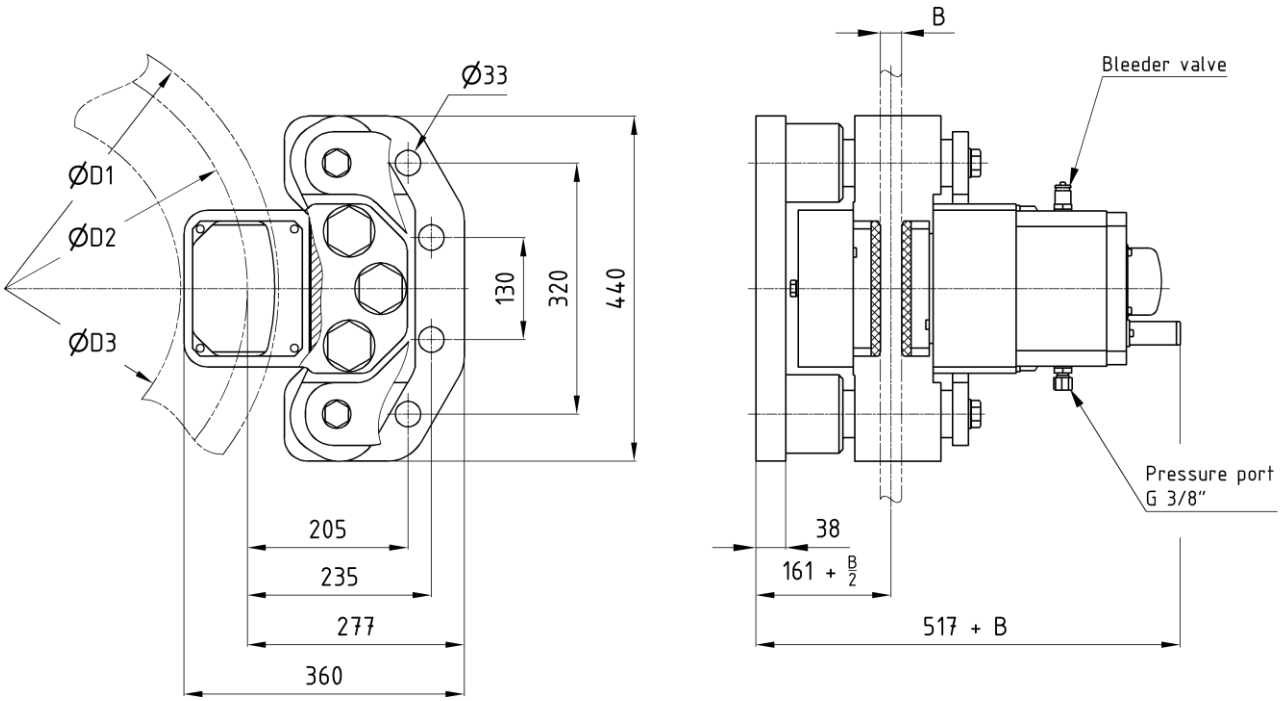
Disc brake DBF 145 S

dimensions and technical data



Order example: DBF 145.x S - D1 x B

dimensions in [mm]

Technical data

Braking torque [kNm]					
$M_{Br} = F_A * (D2 / 1000) * \mu$					
Friction coefficient μ = 0,4					
Clamp force F_A [kN] 1)					
Air gap	1 mm	2 mm	3 mm	Pressure [bar]	M_A 2) [Nm]
DBF 145.1 S	75	70	65	120	1600
DBF 145.2 S	85	80	75	130	1600
DBF 145.3 S	94	90	86	140	1600
DBF 145.4 S	104	100	96	150	1600
DBF 145.5 S	115	110	105	180	1600
DBF 145.6 S	130	125	120	200	1600
DBF 145.7 S	155	145	135	240	1600

Brake disc	
Brake disc diameter D1	min 650 mm
Friction diameter D2	D1 - 80 mm
Hub diameter D3	D1 - 250 mm
Brake disc thickness B	min 25 mm

Operational data	
Release time 3)	1 - 2,5 s
Theoretical close time 4)	ca. 0,2 s
Pad surface	160 cm²
Oil volume	0,12 l
Oil volume at working stroke	0,02 l
Hydraulic connection	G 3/8" / pipe Ø12 x 1,5
Operating temperature	-20°C bis +60°C
Screw size / strength	M30 - 8.8
Weight without mounting bracket	207 kg

- Axial clearance of ±15 mm can be compensated.
- Available with mounting bracket and assembled hydraulic power unit, filled and bleeded as „plug and play"- version.
- Inductive proximity switch for monitoring brake open position as standard.
- optional: Inductive proximity switch for monitoring Air gap and / or brake closed position.

1) The clamp force can vary between 5%.
2) Screw tightening torque is specified for ungreased thread. (μ = 0,15) The usage of screws and nuts without surface treatment is recommended.
3) The brake release time depends strongly on the used hydraulic power unit.
4) The theoretical close time can only be achieved with the correct size of the hydraulic pipe.

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