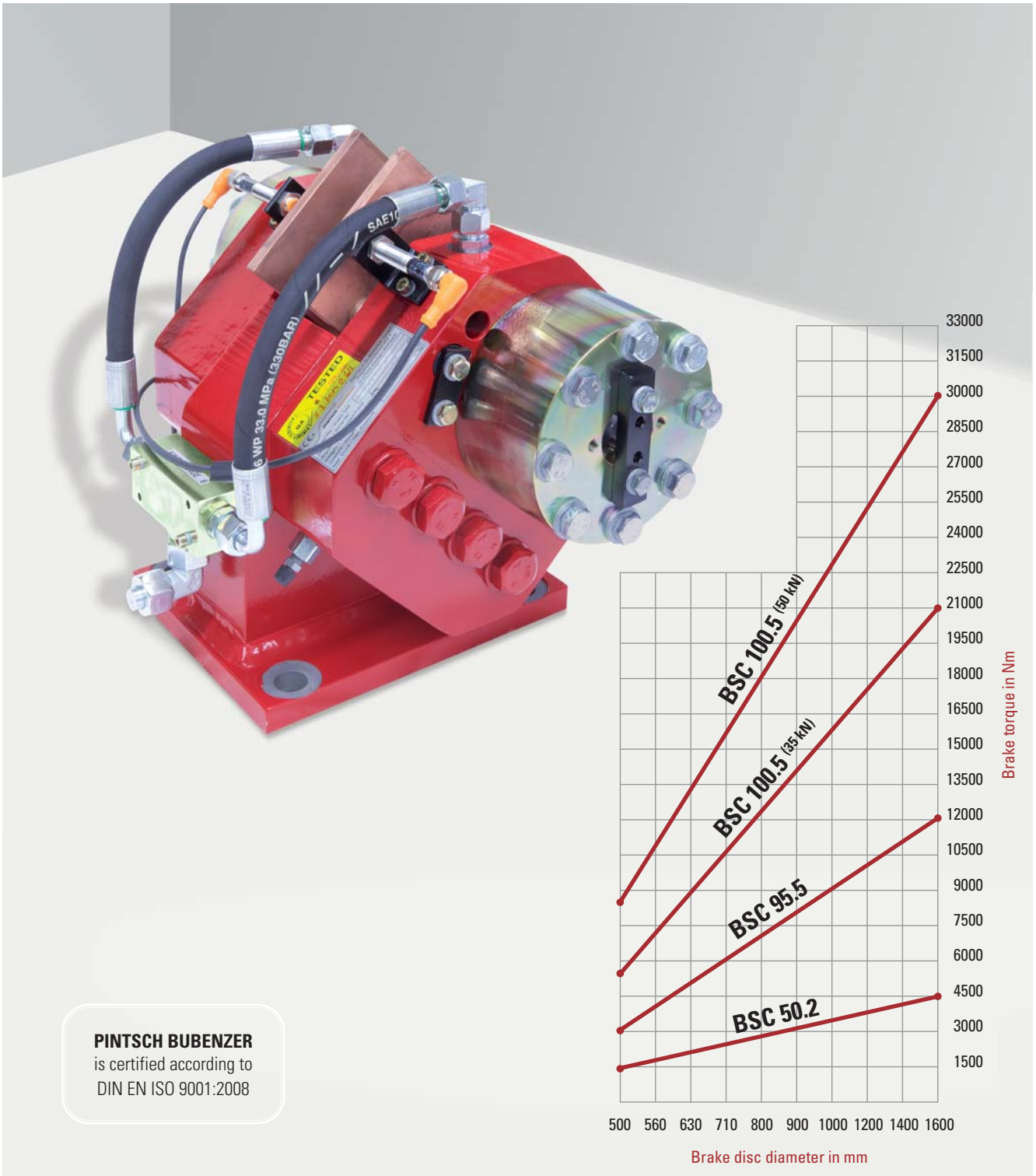


Hydraulic Caliper Disc Brakes BSC Series



Reliable



High Performance



Robust



Compact

Description BSC



Main Features

- Two identical caliper halves, ready for operation, with spring packs set to nominal force
- Up to 1 mm air gap between brake pad and disc
- Easy, manual pad wear compensation
- Organic, non-asbestos linings

Options

- Limit switch release control
- Limit switch wear control
- Sintered linings
- Complete piped supports for one or more calipers
- Hydraulic power units
- Special seals for flameproof fluids
- Cleaning pads
- Brake discs

Applications

- The high capacity of these brakes makes them particularly suitable as service- or secondary emergency brakes e.g. on hoists, slewing drives and belt conveyors
- Other applications are in material handling, mechanical engineering and wind turbine industry, where high holding forces are required independent of the direction of rotation within limited space

Operating Restrictions

- Brakes of this range are mechanically and hydraulically tested and are set to nominal force. This setting can only be changed by the manufacturer. Operating conditions other than described in this brochure require the manufacturer's approval and may influence the function of the caliper and its components



Please Note

We supply a detailed operating manual with every order. Nevertheless, we would point out that brakes are only as safe as the servicing and maintenance performed while they are in operation. The guarantee for the correct functioning of our brakes is only valid if the user adheres to the German DIN standard 15434 part 2 (drum and disc brakes, servicing and maintenance in operation), or to comparable standards in his own country.



PINTSCH BUBENZER Service

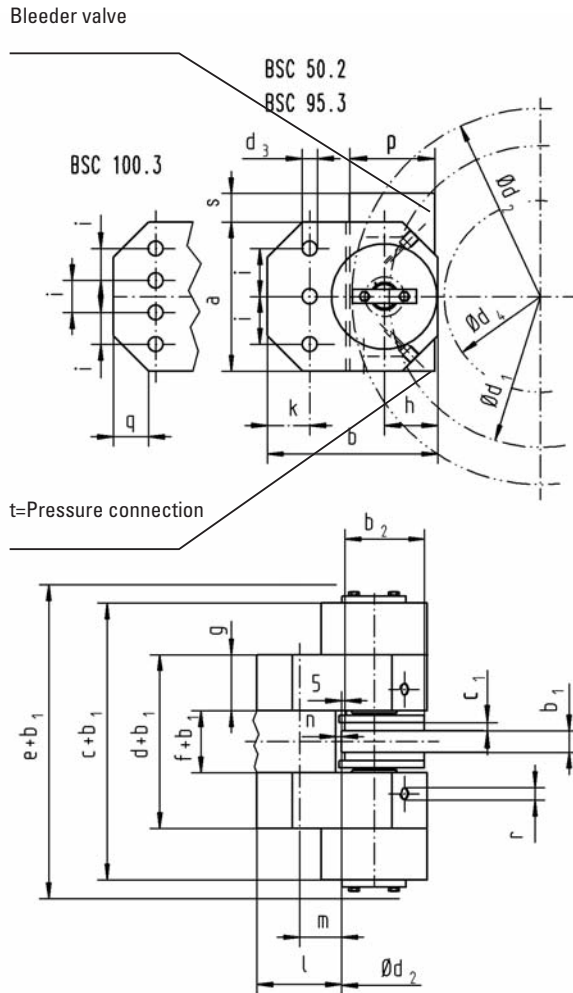
This includes the verification of the brake selection, if required. A detailed questionnaire is provided for this purpose. Installation and commissioning on-site by PINTSCH BUBENZER service engineers is possible. Drawings as DWG/DXF files for your engineering department are available upon request.

Disc Brake BSC

Dimensions and technical data



Rev. 12-06

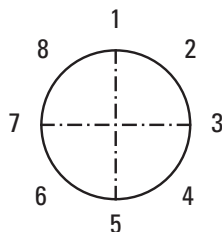


Type BSC	50.2	95.5	100.5	
a	130	220	210	
b	128	213	240	
b ₂	63	112	112	
c	224	380	360	
c ₁	6	12	12	
d	108	137	215	
d ₃	14	21	22	
e	302	435	412	
f	38	57	57	
g	35	40	79	
h	42	75	75	
i	35	47,5	45	
k	24	32	60	
l	53	78	119	
m	29	46	59	
n	7	8	8	
p	70	120	120	
q	30x30°	25x45°	50x45°	
r	1/4"	3/8"	3/8"	
s	30	34	40	
t	Ø10	Ø12	Ø12	
Bolt Ø	M12	M20	M20	
Bolt material	8.8	8.8	10.9	
Tighten. torque, Nm	86	410	560	
Data per caliper half	Contact force F _A kN	7	20	35 50
	Op. pressure bar	60	60	100 160
	Max. pressure bar	90	100	180
	Release stroke mm	1	1	1
	Oil volume l	0,002	0,004	0,005
	Pad surface cm ²	73	195	195
	Theor. friction μ*	0,40	0,40	0,40
	Weight (kg)	12	30	40

*) Average friction factor of standard material combination

All dimensions in mm
Alterations reserved without notice

Brake torque M_{Br} in Nm = F_A (kN) x μ x d₁ (mm)



Please indicate required mounting position.

Brake disc data

	BSC 50.2	BSC 95.5	BSC 100.5
d ₁ =	d ₂ -70 mm	d ₂ -105 mm	d ₂ -105 mm
d ₄ =	d ₂ -170 mm	d ₂ -284 mm	d ₂ -260 mm

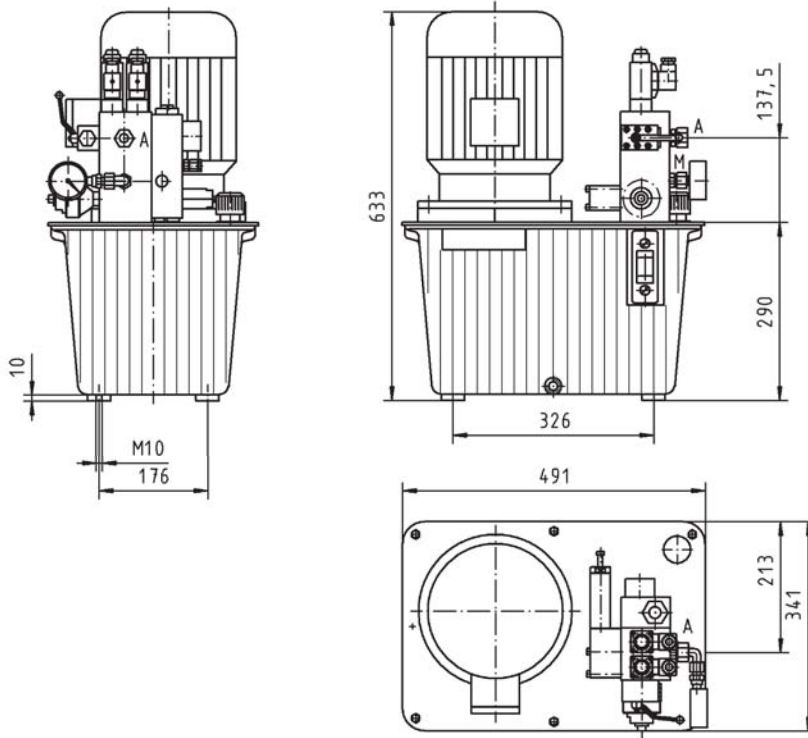
d₂ = Brake disc diameter in mm
d₁ = Friction diameter in mm
d₄ = Max. permissible drum or hub diameter in mm
b₁ = Disc thickness in mm (min. 30)

Disc Brake BSC

Hydraulic power unit for one or more calipers



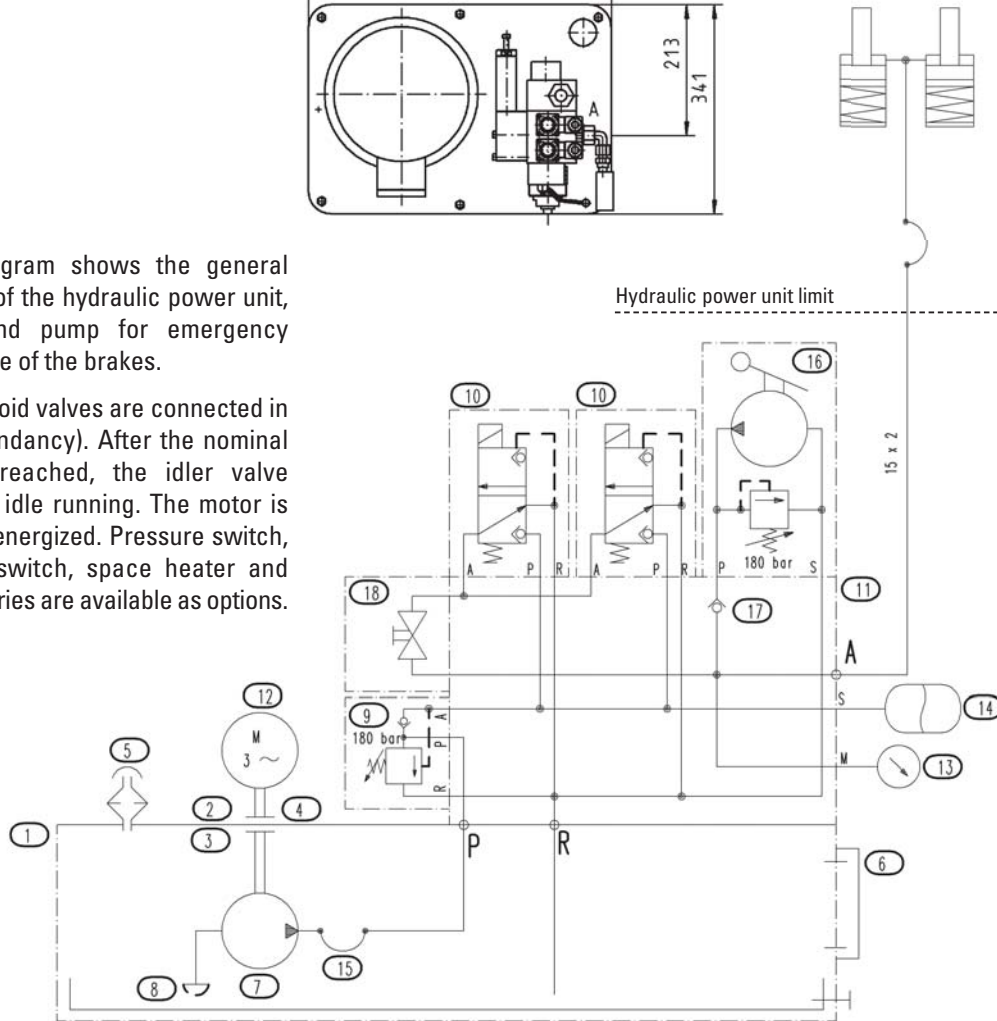
Rev. 09-02



Example:	
Standard configuration up to 4 BSC 100.3	
Motor:	3 kW
Pump:	9 l/min
Pressure:	180 bar
Tank:	30 l

The flow diagram shows the general arrangement of the hydraulic power unit, including hand pump for emergency manual release of the brakes.

The two solenoid valves are connected in parallel (redundancy). After the nominal pressure is reached, the idler valve switches into idle running. The motor is continuously energized. Pressure switch, temperature switch, space heater and other accessories are available as options.



All dimensions in mm
Alterations reserved without notice



We supply a complete hydraulic and electric diagram according to the order specification with every order.