

The well head serves the purpose of closing off the top of the well. It supports the weight of the riser pipe and prevents intrusion of contaminants into the well. Well heads in the standard BBT product range are dimensioned in conformance with DIN and are available in nominal diameters of DN150 and larger.

## Sleeve Pipe

The sleeve pipe is installed around the well casing and fixed in place by embedment in a concrete base. The sleeve pipe should be at least 100 mm larger in diameter than the casing; the annular void between the two can be sealed off if necessary. The upper end of the sleeve pipe incorporates a flange mount for the cover. The lower end of the sleeve pipe incorporates either a 360° lip or edge anchors for secure embedment in the concrete base.

## Cover

The cover provides the closure for the upper side of the well. The outlet pipe, located in the centre of the cover, incorporates a connector on its lower end for the riser pipe and a loose flange on its upper end. In addition, the cover has leadthroughs for the pump cable, sensor cable and water level standpipe. The cover normally should be constructed without reinforcing ribs. The weight of the riser pipe is supported centrally by the



**Full well head assembly including cover and sleeve pipe**

Another means of fixing the sleeve pipe in place is by means of a base flange which is screw-mounted on anchor plugs inserted in an existing concrete base.

cover. The cover thicknesses given in the table overleaf are sufficiently sturdy to support riser pipes up to 150m in length with an integrated submersible pump. The cover does not incorporate hoisting lugs; lifting is done using a hoisting flange which provides more uniform support than lugs do in terms of the statics involved.

# Data Sheet / Well Head



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## Well Heads / Standard BBT Product Range

DN	150	200	250	300	400	500	600	700	800	900	1000
Sleeve pipe	168.3	219.1	273.0	323.9	406.4	508.0	609.6	711.0	813.0	914.0	1016.0
wall thickness	3.0		4.0					5.0			
height		400						500			

Cover	outer diameter	240	290	345	396	498	600	702	803	905	1006	1108
	thickness		10			15				20		
Bolt holes	bolt-hole circle	210	260	315	356	458	560	662	763	865	966	1068
	no. of bolt holes		8			12		16		20		
	diameter		14.5					19				
Screws	w/o insulation		M12 x 50					M16 x 65				
	w/ insulation		M12 x 60					M16 x 80				

Leadthroughs	1 x 1" ventilation port
	1 x M12x1.5 with cable gland
	1 x M25x1.5 with cable gland
	2 x M32x1.5 with cable gland

Standard BBT well heads are not watertight to pressurized water (i.e. as found in artesian wells). Custom-made designs in accordance with customer specifications / drawings are also available on request. All dimensions given in mm

## Cable glands

External threading	M12x1.5	M16x1.5	M20x1.5	M25x1.5	M32x1.5	M40x1.5	M50x1.5	M63x1.5
Cable diameter range	2.5-6.5	4.0-9.5	7.0-13.0	8.0-16.0	11.0-21.0	15.0-27.0	22.0-35.0	35.0-48.0
Spanner size	14	17	22	27	34	42	55	65
4-core cable (H07RN-F)	1.0 <sup>2</sup>	1.0 <sup>2</sup> -1.5 <sup>2</sup>	1.0 <sup>2</sup> -4 <sup>2</sup>	1.5 <sup>2</sup> -6 <sup>2</sup>	4 <sup>2</sup> -10 <sup>2</sup>	10 <sup>2</sup> -25 <sup>2</sup>	35 <sup>2</sup> -70 <sup>2</sup>	