Borehole Drillers and Water Companies place high demands on today's well construction components. Casings should be water tight to eliminate surface water contamination. They should be inexpensive to purchase. Beckert Brunnentechnik ZSM connections satisfy these requirements. The ZSM connections are used many years as riser pipes in sizes of 50 to 300. The direct forming process at the pipe end creates a connection that has

significant price advantages to a conventional lathed connection.

Casing with Steku® connection have the following advantages:

- reliable watertight seal
- high tensile strength
- small outer diameter over the connection
- easy and quick installation
- cost effective pricing

The outer diameters of the solid wall casing correspond to the ISO pipe dimensions. The pipe thickness match to DIN 4900-1. If a higher collapse resistance is required, the wall thickness can be increased accordingly. To determine the needed collapse resistance, the exact installation situation must be known. The ZSM connection guarantees a water tight connection. Ideally, the wedge

connection. Ideally, the wedge wire filters at the bottom of the well are made with the same connection. There are different slot widths available. The wedge wire screen collapse resistance can be adapted to the installation situation.

PVC casing can be paired with stainless steel screens. The sizes DN50, DN80 and DN100 with Whitworth thread can be easily combined with wedge wire screens. For trapezoidal threaded pipes, PVC trapezoidal threads are attached to the screen ends, which fit together with the solid wall casing. Inside diameter of steel pipes according to the ISO pipe series are larger than PVC pipes according to DIN. In that case, a smaller screen must be chosen that better fit to the smaller inner PVC diameter.



Picture 1: Installation of DN500 casing with ZSM connection

Casing and Screens



Straße der Einheit 66 99734 Nordhausen Germany Telefon: +49 (0)3631 / 472 432 Fax: +49 (0)3631 / 472 444

www.beckert-brunnentechnik.de

nominal diameter DN	20	80	100	125	150	200	250	300	400	200	009	800	1000
sollid wall casing													
outside diameter (mm)	60,3	6′88	114,3	139,7	168,3	219,1	273	323,9	406,4	208	9'609	813	1016
pipe wall thickness (mm)	2,0	2,6	3,0	3,0	3,0	4,0	4,0	4,0	2,0	0′9	6,0	8,0	8,0
inside diameter (mm)	54,3	83,7	108,3	133,7	162,3	211,1	265	315,9	396,4	496	9'/65	797	1000
collapse resistance (bar)			38,0	24,4	15,5	16,3	9,3	0′9	9'0	5,3	3,2	3,2	1,7
weight (Kg/m)	2,9	2,6	8,3	10,2	12,4	21,5	56,9	32,1	50,2	75,5	2,06	161	202
wedge wire screen													
outside diameter (mm)	60,3	6′88	114,3	139,7	168,3	219,1	273	323,9	406,4	208	9'609	810	1016
inside diameter (mm) (slot width 0,5mm)	48	75,9	66	125,8	152,5	196,5	253,5	301	387,5	486,5	587	785	994
open area (%)	19,2	19,2	19,2	19,2	19,2	15,6	15,6	15,6	13,2	12,5	12,5	9'6	9'6
collapse resistance (bar)	380	121	09	31	20	22	11	7	8	9	4	4	7
weight (Kg/m)	5,1	6,4	8,0	6'6	11,5	19,9	25,1	56'62	49,1	67,4	81,1	148,5	186,8
connections													
ZSM													
maximum O.D. (mm)	80	112	140	166	198	254	308	358	440	542			
formed connection	×	×	×	×	×	×	×	×					
lathed connection									×	×			
flange													
maximum flange O.D.										009	702	902	1108



Straße der Einheit 66 99734 Nordhausen Germany Telefon: +49 (0)3631 / 472 432 Fax: +49 (0)3631 / 472 444 www.beckert-brunnentechnik.de