



APPLICATIONS

- Monitoring wells
- Observation wells
- Geotechnical investigation
- Standpipe piezometers
- Groundwater remediation
- Groundwater control

FEATURES

- Manufactured to DIN 4925
- Diameters 27mm to 165mm
- Flush and BSP joints
- Lengths 1.0, 3.0m

PVC wellscreen and casing is used widely within Geotechnical instrumentation for the construction of monitoring, observation wells and standpipe piezometers.

Manufactured from high grade certified tough durable PVC using the latest extrusion, slotting and threading technology to provide easy to install systems.

A range of accessories including support clamps, lifting adaptors and centralisers are also available.



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Casing and Screen with Smooth Surface in Accordance with DIN 4925

Nominal Diameter ND (inch)	Dimension ND (mm)	Outside Diameter DO (mm)	Inside Diameter DI (mm)	Wall Thickness S (mm)	Weight (kg/m)	Collapse Resistance (bar)	Joint Strength (kN)	Maximum Installation Depth (m)
¾"	19*	27	22	2.5	0.3	20	6	200
1"	25*	33	25	4.0	0.5	32	6	300
1 ¼"	35	42	35	3.5	0.64	32	3.8	300
1 ½"	40	48	41	3.5	0.73	32	4.4	300
2"	50	60	52	4.0	1.0	24	6.6	230
3"	80	90	81	4.0	1.6	7.5	9.5	110
4"	100	113	103	5.0	2.5	7.5	11.1	110
4.5"	115	125	115	5.0	3	7.5	12.0	110
5"	125	140	126	6.5	4.05	7.5	18.0	110
6"	150	165	155	7.50	5.5	7.0	26.5	110

* BS 3505 dimension

Wellscreen & Casing

Installation Depth

The maximum installation depth is determined by the collapse resistance and will vary up or down in accordance with actual ground conditions.

In solid unbroken strata, the suspended length equivalent to the joint strength can be approached or even exceeded if there is a high-water table.

In unconsolidated formations, the installation depth is variable, and consideration must be given to ground water and formation pressures and the presence, or otherwise, of a gravel pack.

During grouting, consideration must be given to temperature increase and density.

Values for collapse resistance are determined using the minimum wall thickness and average modulus of elasticity and are based on testing and theoretical calculations in accordance with BS 879 Part 2 for casing.

OPEN AREA RATING OD SCREENS ACCORDING TO SLOT DIMENSION - IN ACCORDANCE WITH DIN 4925 (BASED ON PIPE I.D.)

Nominal Size DN	Slot 0.3mm	Slot 0.5mm	Slot 0.75mm	Slot 1mm	Slot 1.5mm	Slot 2mm	Slot 3mm)
35	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
40	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
50	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
80	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
100	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
115	5.2%	6%	9.1%	9.4%	9.7%	12.1%	-
125	4.7%	5.6%	8.2%	8.5%	8.8%	11%	13.5%
150	-	5.6%	8.2%	8.5%	8.8%	11%	13.5%

MATERIAL

Property	Standard	Unit	Value
Density	DIN 53479	g/cm ³	1.4
Modulus of elasticity	EN ISO 178	N/mm ²	2500-3000
Tensile strength	EN ISO 527	N/mm ²	45-55
Vicat softening temp	EN ISO 306	°C	80

Accessories

Well screens and casings can also be supplied with accessories including: Top caps • Bottom plugs • Reducers • Lifting clamps • Geofilters

SLOT SELECTION ACCORDING TO FORMATION ANALYSIS

Soil Analysis mm	Filter Size mm	Slot Width mm
0.20 - 0.80	0.85 – 2.00	0.75
0.30 – 1.25	1.00 – 2.00	1
0.40 – 2.00	1.70 – 4.00	1.5
0.5 – 3.00	3 - 6	2
0.60 – 4.00	5 - 10	3

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