



JANSEN geotwin

Technical data sheet 40 × 4.5 mm

The classic probe in a pressure-enhanced version, for depths of up to 335 m



Material properties

Material	PE 100-RC PAS 1075 (resistance to crack)	PE 100-RT (raised temperature)
Continuous operation temperature	-20° C ... +40° C (DIN 8075)	-20° C ... +70° C (DIN EN ISO 22391)
Production according to	SIA 384/6, ÖWAV regulation sheet 207, VDI 4640 ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004 OHSAS 18001:2007, DVS 2212-1, REACH	
Pipe roughness	0.03 mm	
Material density	0.95 - 0.97 g/cm ³	0.95 - 0.96 g/cm ³
Tensile (Young's) modulus	1100 MPa	1050 MPa
Yield stress	25 MPa	22 Mpa
Tensile elongation	9%	8%
FNCT	> 8760 h	> 350 h
Linear coefficient of linear expansion	0.18 mm/mK	
Thermal conductivity	0.4 - 0.42 W/mK	
Weather resistance (Europe)	> 10 a	



Probe properties

Meets requirements, certification	SKZ-HR 3.26, SKZ A530
Material selection	PE 100-RC / PE 100-RT (raised temperature)
Minimum bend radii	800 mm @ 20° C, 1400 mm @ 10° C, 2000 mm @ 0° C
Versions	Double-U, Single-U
Pressure rating	PN 20 (SDR 9)
Delivery lengths	200 - 335 m
Safety factor	1.25
Volume per meter of probe	3.02 l/min
Diameter of probe foot	115 mm normal, 112 mm offset
Pressure loss per meter at 2.0 m ³ /h	1.38 mbar (water 20° C)
Color	Black
Design	Standard, shark
Probe foot	Monolithic injection molding
Measurement in meters	Linear meters ascending
Production	Switzerland