

TO WHOM IT MAY CONCERN

Raamsdonksveer, 09.02.2018

VDL - TEST CERTIFICATE

We, Van de Lande B.V., as manufacturer of PVC-U Pressure Fittings and Valves herewith certify that our products, bearing the VDL quality brand conform to the following conditions :

1. VDL PVC-U Pressure Fittings and Valves are manufactured from unplasticised Polyvinyl Chloride without the use of plasticisers or filler and their quality conforms DIN 8063, sheet 5 "General Quality Requirements and Test Methods"
2. All main dimensions of VDL PVC-U Pressure Fittings and Valves correspond to international standards and we confirm that the measurements of our products comply with :
 - **Products dia. 12 – 315 mm – comply with NEN-EN-ISO 1452-3 : 2009 standard**
 - **Products dia. 355 and 400 mm – comply with ISO 727-1 : 2002 standard**

This means that the VDL PVC-U Pressure Fittings with a female solvent weld connection will have the following tolerances in dimensions (measured at mid-point of socket depth) :

d (mm)	d-min. (mm)	d-max. (mm)
12	12,10	12,30
16	16,10	16,30
20	20,10	20,30
25	25,10	25,30
32	32,10	32,30
40	40,10	40,30
50	50,10	50,30
63	63,10	63,30
75	75,10	75,30
90	90,10	90,30
110	110,10	110,40
125	125,10	125,40
140	140,20	140,50
160	160,20	160,50
200	200,20	200,60
225	225,30	225,70
250	250,30	250,80
280	280,30	280,90
315	315,40	316,00
355	355,50	356,20
400	400,50	401,50

Van de Lande BV

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Traderegister Tilburg: 18070844 \ IBAN: NL13 RABO 0143 0035 26 \ BIC: RABONL2U \ VAT:NL 8123.91.755.B01

www.vandelande.com

3. VDL PVC-U Pressure Fittings are pressure tested in accordance with the requirements of NEN-EN-ISO 1452-3 : 2009 and/or ISO 727-1 : 2002 standards.
4. VDL PVC-U Pressure Fittings are marked in accordance with the requirements of NEN-EN-ISO 1452-3 : 2009 and/or ISO 727-1 : 2002 standards.

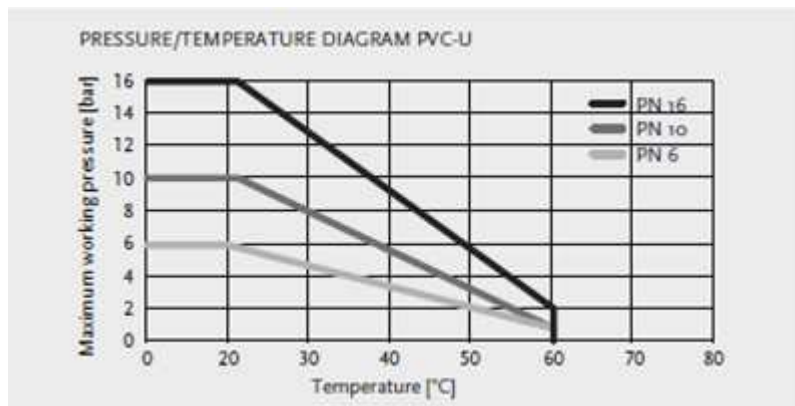
Furthermore all Fittings have at least been tested for 1 hour at 20°C at 4,2 times the nominal pressure. This means that a product with a PN16 pressure ratings has been tested at 67,2 Bar (for 1 Hour at 20°C.)

The Fittings have run an heating test whereby the product has been placed into an oven at 150°C for 1 hour to check whether the flow-line is ok (all fittings require a minimum of 70%.)

The raw materials used by Van de Lande B.V. for the production of PVC-U pressure fittings and valves always comply to the following:

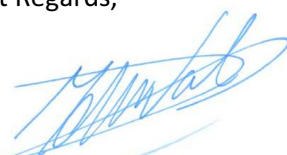
K-Value	> 57
Vicat B	> 74°C
Density	1,35 – 1,45 gr / cm ³

Our products have been designed with a safety factor of 2,5 and a life expectancy of 50 years. The pressure resistance of fittings depend upon the temperature. The higher the temperature, the lower the pressure resistance. When the temperature changes, then the operational working pressure will perform as per below diagram;



We hope to have served you with this information.

Best Regards,



Dennis van de Wal
Sales Manager

Van de Lande BV

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All our transactions are subject to the Van de Lande General Terms of Sale. A copy of these can be provided immediately upon your request.