

**To whom it may concern**

Cicagna, 01 Oct. 2021

**Object: Declaration of conformity**

Here with we confirm that the Unplasticized Polyvinyl Chloride (PVC-U) valves for piping systems for water supply manufactured by Polypipe Italia are certified by Kiwa Cermet S.p.A. and are in conformity with the indicated standard and the requirements. The Effast valves are in conformity with EN ISO 16135:2006

Requirements:

EN ISO 16135:2006:

- 4.1 Design
- 4.2 Material
- 4.3 Pressure/temperature rating
- 4.4 Dimensions
- Test Procedures

As required by the standard all batches of POLYPIPE ITALIA s.r.l. are controlled by the Quality System and are subjected to testing required:

- 5.2.2 Testing of materials in accordance with EN 12107
- 5.2.3 Shell Test in accordance with ISO 9393-2
- 5.2.4 Seat leaktightness test in accordance with Iso 9393-2 air in water and water in air
- 5.2.5 Long Term behaviour test of the complete valve in accordance with ISO 12092
- 5.2.6 Durability test in accordance to ISO 8659
- 5.2.7 Operating torque test in accordance to Iso 8233
- 5.2.8 Final test in accordance to ISO 16135

In particular:

- 5.2.3 Shell Test in accordance with ISO 9393-2
- 5.2.4 Seat leaktightness test in accordance with Iso 9393-2

ISO 9393-2:2005(E)

Table 3 — Conditions for seat and packing tests

Test	Min. test time s	Test pressure $P_{\text{test}}$ bar <sup>a</sup>	Temperature °C	Test fluid	
				inside	outside
Seat test (valve closed)	60	0,5	20 ± 2	Air	Water
	DN ≤ 200: 15	1,1 × PN <sup>b</sup>		Water <sup>c</sup>	Air
	DN > 200: 30				
Packing test (valve opened)	DN ≤ 50: 15	1,5 × PN <sup>b</sup>	Water <sup>c</sup>	Air	
	DN > 50: 30				

<sup>a</sup> 1 bar = 0,1 MPa = 0,1 N/mm<sup>2</sup> = 10<sup>5</sup> N/m<sup>2</sup>.

<sup>b</sup> Maximum test pressure (PN + 5) bar.

<sup>c</sup> Or air inside at (6 ± 1) bar and water outside; in case of dispute, water inside and air outside shall be used.

The test specimen shall be considered satisfactory if following requirements are fulfilled:  
no leakage during the test period is admitted

Yours Faithfully

Roberto Dagnino  
Quality Manager

