



**Summary of Substantive Changes
between the 2012^{e1} and the 2019 editions of
ASTM F1970, “Special Engineered Fittings, Appurtenances or Valves
for use in Poly (Vinyl Chloride) (PVC) or
Chlorinated Poly (VinylChloride) (CPVC) Systems”**

Presented to the IAPMO Standards Review Committee on October 7, 2019

General: The changes to this standard should not an impact on currently listed products. The substantive changes are:

- Removed pressure drop requirements from the Standard scope (removed Sections 5.3.1, 8.4, and Figure 1)

Section 5.3, Valves and Check Valves: Removed pressure drop requirements from the Standard scope as follows:

~~5.3.1 Pressure Drop Across Valves and Check Valves—~~

~~When tested in accordance with 8.4, the pressure drop across the valve shall not exceed the manufacturer’s published values at 25, 50, 75 and 100 % of maximum flow. The maximum flow rate shall be either as specified by the manufacturer, or the flow achieved with 80 psig (550 kPa) inlet (at no flow condition) pressure and pipe of the same nominal size as the valve. For valves with more than one flow direction, testing shall be conducted in each flow configuration.~~

Renumbered remaining sections

Section 8, Test Methods: Removed pressure drop requirements from the Standard scope as follows:

~~8.4 Pressure Drop Across Valves :~~

~~8.4.1 Conduct testing on a single specimen of the configuration/size being evaluated.~~

~~8.4.2 Water shall be used as the internal pressurizing fluid.~~

~~The water temperature shall be 73-64°F (23-6-2°C).~~

~~8.4.3 The test systems shall be in accordance with ANSI/ISA S75.02 (see Fig. 1). The test procedure shall be in accordance with the Cv Procedure of ANSI/ISA S75.02.~~

~~8.4.4 Conduct testing at 25, 50, 75, and 100 % of maximum flow as defined in 5.3.1. The internal cross-sectional area of the pipe shall be no less than the smallest cross-section in the flow path through the valve. This will ensure that the greatest restriction to flow is the valve under test, rather than the pipe portion of the test assembly.~~

Renumbered remaining sections

Figure 1, Pressure Loss Test System: Figure 1 was deleted. Remaining figures were renumbered and reference to figures were updated in the standard.