

Viega Valves Comparison Chart



	ProPress Ball Valves (Potable)	ProPress Ball Valves (Hydronic)	ProPress Stainless Ball Valves	PureFlow Press Ball Valves	MegaPressG Ball Valves	MegaPress 3-Piece Ball Valves	Check Valve	ProPress Butterfly Valve	Thermostatic Balancing Valve	PureFlow Press Stop Valve	PureFlow Press Wall Hydrant	Shower Valves
Valve Model	2971.1ZL, 2971.3ZL, 2971.4ZL, 2971.6ZL, 2971.1XL	2973, 2973.1, 2973.3	4070, 4370.8	2870ZL, 2842.2ZL, 2842.1ZL	6675, 6675.1, 6675.2, 6675.3	4875.8, 5975.8/XL, 4175.8/XL, 5175.8/XL	2974ZL	2873.81	2981.3ZL	2842.3ZL, 2842.4ZL	2888.0ZL	2842.5, 2842.6
Size Range	½" to 4"	½" to 2"	½" to 2"	¾" to 2"	½" to 2"	½" to 4"	½" to 2"	2½" to 4"	1"	¾" to ½"	½" to ¾"	½"
Body Material	Zero Lead Bronze, Brass	Bronze/Brass	316 Stainless Steel	Zero Lead Bronze, Brass	Bronze	316 Stainless Steel	Zero Lead Bronze	Poly Coated Ductile Iron	Zero Lead Bronze	Chrome-Plated Brass	Chrome Plated Brass	DZR Brass
Body Type	2-Piece Ball Valve	2-Piece Ball Valve	2-Piece Ball Valve, 3-Piece Ball Valve	2-Piece Ball Valve	2-Piece Ball Valve	3-Piece Ball Valve	Inline Check	Butterfly Valve	Balancing with Integrated Ball	Stop Valve	Wall Hydrant	Shower Valve
End Connections	P x P, P x FPT, P x Hose Bib	P x P, P x FPT, P x Hose Bib	P x P	P x P, P x Street	P x P, P x FPT, P x MPT, P x GJ	P x P	P x P	Lug Style	Male BSP	P x Comp	P x Hydrant	Stub Out
Approvals	IAPMO/ANSI Z1157, NSF®-61-372, NSF®-U.P. Code, Listed by NSF to Commercial Hot	Conforms to MSS SP-110, NSF®-U.P. Code, IAPMO/ANSI Z1157	Conforms to MSS SP-110, NSF®-61-372	Conforms to cCSAus: CSA B137.5, UPC®, NSFus-pw-372, NSF / ANSI 359, ASTM F877, ASTM F3347	Conforms to MSS SP-110, ANSI LC 4/ CSA 6.32, ANSI LC 4a/ CSA 6.32a, ASME B31	Conforms to MSS SP-110, ASME B31, IAPMO Z1157, NSF®-61-372 (316 only)	Conforms to MSS SP-80, NSF®-61-372	Conforms to MSS-SP67 and MSS-SP25	NSF-61-372, Listed by NSF to Commercial Hot	NSF / ANSI 61-G, NSF / ANSI 372, ASTM F877	ASSE 1016, CSA B125.16, ASME A112.18.1, CSA B125.1	ASSE 1016, CSA B125.16, ASME A112.18.1, CSA B125.2
Ball	316 Stainless Steel, CP Brass	CP Brass	316 Stainless Steel	316 Stainless Steel, CP Brass	316 Stainless Steel	316 Stainless Steel	N/A	N/A	316 Stainless Steel	N/A	N/A	N/A
Sealing Elements	EPDM	EDPM	EPDM	N/A	HNBR	EPDM, FKM	EPDM	N/A	N/A	N/A	N/A	N/A
Pressure Rating CWP (psi)	300 (½" to 2") 250 (2½" to 4")	250	200	160	125 (fuel gas) 250 (other)	250 (½" to 2") 200 (2½" to 4")	200	200	150	160	160	80
Temperature (F)	0°F to 250°F	0°F to 200°F	0°F to 250°F	0°F to 180°F	-40°F to 180°F	0°F to 250°F	0°F to 140°F	0°F to 250°F	0°F to 180°F	0°F to 180°F	0°F to 180°F	0°F to 150°F

Why Choose Viega Valves

Why ProPress Valves Use Double Stem Seals vs. Packing Nuts

Packing nut designs consist of packed Teflon that sits around the stem. As the Teflon deteriorates, leak paths form, requiring someone to tighten the nut. This creates additional hours for installation and maintenance. Viega uses a double stem seal for our 2-piece valves to eliminate the need to constantly tighten the nut, saving numerous hours on the front-end and back-end of installs. They also will not deteriorate over time, maintaining a leak-free stem as well as prolonging the life of the valve. Viega's MegaPress 3-piece valves use a packing nut because they are designed to be taken apart so the wearable, internal components can be replaced.

Viega Smart Connect® Technology

Viega Smart Connect technology provides the installer quick and easy identification of an unpressed fitting during a leak test. When the fitting is pressed, a secure, non-detachable, mechanical connection is created. Smart Connect technology provides the installer with an easy way to see connections that have not been pressed before putting the system into operation.

Why Choose Silicon Bronze

Silicon bronze has very strong mechanical properties (tensile and yield strengths) compared to traditional leaded alloys. The silicon allows it to maintain mechanical strength, resulting in an ideal alloy for pressing (which was one of the reasons Viega chose silicon to replace the lead in compliance with lead-free regulations). It contains low levels of zinc (7% to 9%) so it's naturally resistant to dezincification and less prone to stress cracking. Dezincification is when zinc is removed, leaving a porous surface and reducing strength.

General Valve Information

Why Balancing the Hot Water Supply System is Needed

Common concerns surrounding hot water supply systems include lack of immediate hot water at a fixture, erratic water bills, and stagnant or lukewarm water causing legionella. These issues can be tied back to an unbalanced system where the constant flow does not take into account heat loss or hot water consumption, and results in uneven hot water distribution throughout the system. Viega's thermostatic balancing valve adjusts the flow of the system based on the temperature, allowing for more hot water when the system gets too cold, or less hot water if the system gets too hot, ensuring that the design temperature of the system remains constant at the minimum needed flow. This valve maintains a constant temperature throughout the system as well as keeps energy and pump costs to a minimum.

Two-Piece Ball Valves

Two-piece ball valves have two main pieces that are usually threaded or welded together. These valves are not used when repairs are needed. They are typically the most commonly used valve.

Three-Piece Ball Valves

Three-piece ball valves have two end caps and a body. The middle section is typically bolted between the two end caps so that it can be easily removed for cleaning and repair.



This document is subject to updates. For the most current Viega technical literature please visit www.viega.us.



Viega products are designed to be installed by licensed and trained plumbing and mechanical professionals who are familiar with Viega products and their installation. **Installation by non-professionals may void Viega LLC's warranty.**