

Tech Data

Viega Diverting Valves



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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.**

Description

Three-way diverting valves can be used for temperature control in many heating and snowmelting applications.

Features

- Includes solder tailpieces (1¼" and 1½" models use same valve body with different tailpieces)
- Pre-installed high limit kit
- Compatible with most Viega actuators
 - Three Position - 18003
 - Proportional Actuator - 0-10v 18025
 - Non-electric Models - 16101, 16102, 16104, 16105, 16115

Specifications

Materials

- Bronze valve body
- Brass and corrosion-resistant steel internal components
- EPDM rubber seals

Actuator threads: M30 x 1.0

- Max working temperature: 242°F (120°C)
- Max working pressure: 145 psi (10 bar)

Max differential pressure

(tight shut-off on both end positions of valve discs)

- ¾" 10.9 psi (75 kPa)
- 1" 7.3 psi (50 kPa)
- 1¼" 2.9 psi (20 kPa)
- 1½" 2.9 psi (20 kPa)

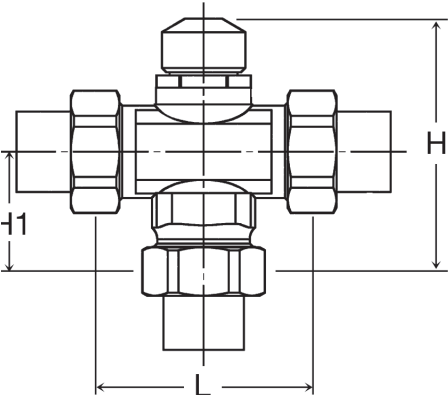
Pressure Drop

Pressure drop values for Viega diverting valves may be determined from the chart at right below. 1¼" and 1½" models share the same valve body, so the pressure drop for these models is the same

Part No.	Size (in)	Type	L (in)	H (in)	H1 (in)	Weight (lbs)	Cv Rating	Flow (gpm)	Heat Capacity (BTU/H)	Pressure Drop (psi)	Pressure Drop (ft of head)
20001	¾"	Solder	3.15	3.94	1.85	2.2	5.3	5 6	50,000 60,000	0.9 1.3	2.0 2.9
20002	1"	Solder	3.54	4.06	1.97	3	7.6	7 9	70,000 90,000	0.8 1.4	2.0 3.2
20003	1¼"	Solder	4.53	4.65	2.52	6.1	11.1	10 12	100,000 120,000	0.8 1.4	1.9 2.7
20041	1½"	Solder	4.53	4.65	2.52	6.1	11.1	13 14	130,000 140,000	1.4 1.6	3.2 3.7

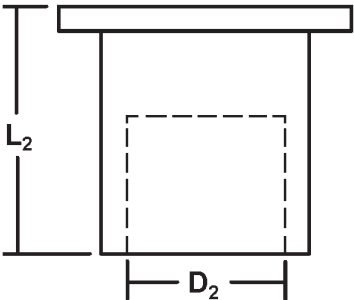
Note: Heat capacity is based on water at a ΔT of 20°F. The fluid used to calculate pressure drop across the valve is water @ 100°F

Dimensions



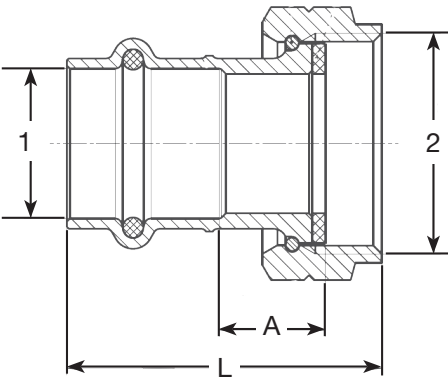
Part No.	Size (in)	L (in)	H (in)	H1 (in)
20001	¾	3.15	3.94	1.85
20002	1	3.54	4.06	1.97
20003	1¼	4.53	4.65	2.52
20041	1½	4.53	4.65	2.52

Soldered Tailpiece



Size (in)	D2 (in)	L2 (in)
¾	0.875	0.91
1	1.125	1.18
1¼	1.375	1.57
1½	1.625	1.26

ProPress Tailpiece



Diverting Valve Part No.	Tailpiece Part No.	Size	A (in)	L (in)
		1 2		
20001	79805	¾" x 1" BSP	0.63	1.87
20002	79815	1" x 1¼" BSP	0.72	2.04

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TD-HC 1119 Diverting Valves

