

Tech Data

Viega ProPress® Automatic Recirculation Regulating Valve Model 2981.3ZL



The Viega ProPress Automatic Recirculation Regulating Valve provides automatic balancing of domestic hot water recirculation return lines. Balancing based on hot water return temperature allows the recirculation system to run more efficiently with smaller pipes and circulators.

The integrated bypass ensures that the thermal element is always sensing representative water and throttles flow accordingly. With low (I) and high (II) bypass settings, the same valve can balance hot water riser returns or hot water returns from smaller fixture groups.

Features

- Automatic, thermostatic balancing
- Zero Lead body
- Integrated isolation (ball) valve
- Adjustable bypass.
- Adjustable temperature setpoint

Operating Parameters

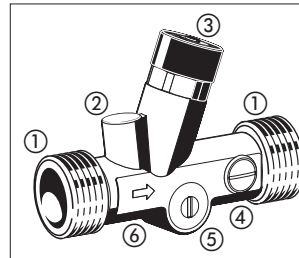
- 150 CWP
- Setting range: 105°F to 150°F
- Factory setting: 135°F
- Maximum operating temperature: 180°F
- Maximum operating pressure: 150 psi

Listings and Certifications

- NSF®-61-372
- Listed by NSF to Commercial Hot

Wetted Components

Component	Material
Body	Zero Lead Bronze C65680
Bonnet	Zero Lead Brass C69300
Disc	316 Stainless Steel
Springs	316 Stainless Steel
Plug	Zero Lead Brass C69300
Bypass Plug	PTFE Coated Zero Lead Bronze C65680
Ball	316 Stainless Steel
Ball Seats	POM
Sealing Elements	EPDM



1. 1" male BSP connections
2. Threaded temperature port with threaded plug
3. Temperature setpoint adjustment
4. Integrated isolation ball valve
5. Adjustable bypass
6. Flow direction arrow



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.



Zero Lead identifies Viega products meeting the lead free requirements of NSF 61-G through testing under NSF/ANSI 372 (0.25% or less maximum weighted average lead content.)

Setting the bypass flow control (see table)

- I cV of bypass only (valve closed) 0.049 gpm
- II cV of bypass only (valve closed) 0.069 gpm
- t. D. thermal disinfection 0.832 gpm

	Temperature setting [°F]							Cv (Δp 1 psi) [gpm]	
	150	140	135	130	120	110	100	I	II
Incoming temperature [°F]	150	140	135	130	120	110	100	0.049	0.069
	141.5	135.5	130.5	125.5	115.5	105.5	95.5	0.298	0.319
	136.5	131	126	121	111	101	91	0.47	0.491
	132	126.5	121.5	116.5	106.5	96.5	86.5	0.714	0.735
	127.5	122	117	112	102	92	82	0.928	0.949
	123	117.5	112.5	107.5	97.5	87.5	77.5	1.221	1.242
	118.5	113	108	103	93	83	73	1.362	1.383
	114	108.5	103.5	98.5	88.5	78.5	68.5	1.498	1.519
	109.5	104	99	94	84	74	-	1.532	1.618
	105	99.5	94.5	89.5	79.5	69.5	-	1.71	1.731
	100.5	95	90	85	75	-	-	1.72	1.741
	96	90.5	85.5	80.5	70.5	-	-	1.741	1.762
									1.783
								t. D.	
								Thermal disinfection 158°F	0.832

