Z-one[®] zone valves

Z series, Presscon[™] assemblies

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Application

The Z-one, a two-position spring return zone valve, is used in heating and airconditioning systems. The Z-one Presscon valve assembly series consist of a Z111000 or Z151000 actuator which is assembled to a Z20068x (2-way male union) valve body and Presscon press tailpieces and union nuts. Z1 actuator is approved to UL 873, cUL listed and CE, and UL 1995 section 18 air plenum and ducts rating. US Patent 7,048,251; others pending.

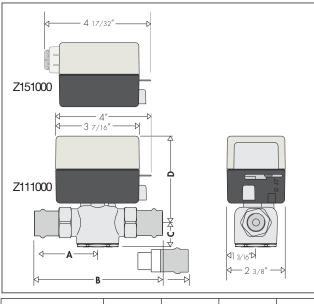
Typical Specification

Furnish and install on the plans and describing herein, a Caleffi Z-one zone valve as manufactured by Caleffi. Each zone valve must be designed with forged brass valve body rated at 300 psi, stainless steel valve stem, and seals in EPDM. The actuator is approved to UL 873, cUL listed and CE, and UL 1995 section 18 air plenum and ducts rating. Each zone valve shall be Caleffi model Z-one series. (See product instructions for specific installation information.)

Technical Data

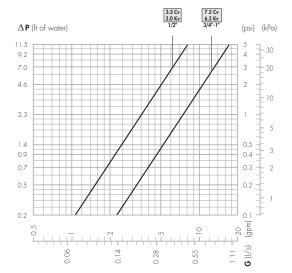
Mechanical contractor Contractor's P.O. No	
Job location Engineer	
Job name	
	r relevant technical data, contained in this publication, a
Environmental:	UL 1995 sec. 18: Air plenums & duct Indoor only
Z44P, Z54P: 30 psi; Z45P, Z5 Approvals:	5P, Z45PL, Z55PL, Z46P, Z56P: 20 psi UL873, cUL listed & CE
Close-off Pressure:	
Full stroke time:	- On: <60 seconds - Off: 6 seconds
Actuator ambient temperature range: Humidity:	24 V: 32 to 125°F (0 to 18°C) 95% non-condensing
Power connections: - Z151000: - Z111000:	Terminal screws with auxiliary switch Wire lead length:18" (45 cm)
- Current draw: Power requirements:	24 VAC - 300 mA 5 W, 7 VA
- base and cover: - base plate: Motor:	polycarbonate aluminum -AC voltage: 24V ; 50/60 Hz
Actuator return-to-normal position: Actuator material:	Z111000 & Z151000: Normally closed
*one long tailpiece on	outlet for extra long lay length for retrofit convenience size 1 inch: 4 1/8"
	size ¾ inch: 3 5⁄8" size ¾ inch (PL)*: 5"
Connection: - press: Lay length:	1/2", 3/4" & 1" size 1/2 inch: 3 1/2"
Temperature range: Max. static pressure:	15 psi (1 bar) steam 300 psi (20 bar)
Flow: Z44P, Z54P: 3.5 Cv; Z45P, Z55 Medium: Maximum percent of glycol:	5P, Z45PL, Z55PL, Z46P, Z56P: 7.5 Cv water and glycol, low pressure steam 50% 32 to 240°F (0 -115°C)
- seat: - stem: - two o-ring seals and paddle:	machined brass stainless steel EPDM
Valve body material: - Body:	forged brass

Dimensions



Connections	Α	В	С	D
1/2" press, Z44P, Z54P	21⁄2"	5"	¹⁵ ⁄16"	31⁄2"
³ ⁄ ₄ " press, Z45P, Z55P	2 ¹³ /16"	5 ⁵ ⁄8"	¹⁵ ⁄16"	31⁄2"
³ 4" press extra long, Z45PL, Z55PL	2 ¹³ /16"	7"	¹⁵ ⁄16"	31⁄2"
1" press, Z46P, Z56P	2 ¹⁵ /16"	5 ⁷ /8"	¹⁵ ⁄16"	3½"

Hydraulic characteristics



We reserve the right to change our products and their relevant technical data	contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabrica	ting the system.
Job name	Size	
Job location	Quantity	
Engineer	Approval	
Mechanical contractor	Service	
Contractor's P.O. No.	Tag No	
Representative	Notes	

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