

Specification Data

Minneapolis-Honeywell **Regulator Company**

MINNEAPOLIS 8, MINNESOTA . TORONTO 17, ONTARIO

application: For modulating control of either steam or hot water in unit ventilators.

construction: Normally-open, single-seated, straight-through or angle globe. Equal percentage, high lift throttling guide providing accurate control over wide variations in load. Composition disc for tight shut-off. Disc and seat replaceable. Self-adjusting, spring-loaded Teflon packing. Valve can be repacked without shutting down or draining system. Actuator may be rotated on valve bonnet to align air connection with control air piping and may be removed without disturbing spring adjustments.

typical operation: When used with a directacting thermostat, a fall in temperature decreases the branch line pressure to the valve moving the plug toward open and bringing on heat.

assembly specifications:

ACTION: Normally open (air to close). CAPACITY: See rating table for Cv. size: See dimension table for sizes available.

body specifications:

NOMINAL BODY RATING: 150 psi bronze.

CONNECTIONS: Screwed inlet, male union outlet.

DISC: Molded composition, removable.

SEAT: Brass, removable. GUIDE: Equal percentage plug.
PACKING: Spring-loaded Teflon cone.

actuator specifications:

DIAPHRAGM: Molded neoprene diaphragm. CONTROL AIR PRESSURE: 25 psi maximum.
AIR CONNECTION: 1/8" NPT female.
OPERATING RANGE: 5 psi, 3 to 8 or 6 to 11 psi factory set.

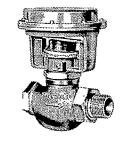
STARTING POINT: 3 to 6 psi. Field adjustable.

AMBIENT TEMPERATURE: 160 F maximum.

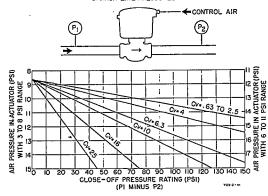
DIMENSIONS:

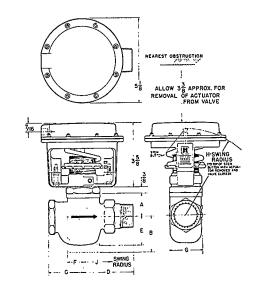
141115	pony	DIMENSIONS (INCHES)								
VALVE SIZE	BODY TYPE	Α	В	C	D	E	F	G	Н	J
1/2"	Straight	11/4		1%	25/8	1¾	_	113/16	411/32	
	Angle	11/4	2		25/8		-3/4	113/16		1¾
34"	Straight	11/4	-	2	21/8	1¾		113/16	411/32	
	Angle	11/4	21/8	_	21/8		1/8	113/16		1¾
1"	Straight	13/8	_	21/4	31/8	15/8		131/32	41/2	
	Angle	13/8	21/8		31/8		11/16	131/32		12%32
11/4"	Straight	1%6	=	21/2	3¾	11/2	_	2%6	413/16	
	Angle	1%6	21/8	_	3¾		13/16	2%16	_	215/12
1½″	Straight	111/16	_	21/8	41/4	13/8	_	3%32	55/32	
	Angle	111/16	21/8		41/4		13/8	3%32	<u> </u>	215/16

VP512A UNIT VENTILATOR VALVE



VP512A CLOSE-OFF RATINGS AT VARIOUS CONTROLER BRANCH LINE PRESSURES





VALVE BODY RATINGS:

PIPE SIZE (INCHES)	Cv	1					P A				
		RECOMMENDED MAXIMUM PRESSURE DIFFERENTIAL FOR NORMAL LIFE OF DISC AND SEAT				MAX. PRESS. DIFF. (FOR	TEMPE	IMUM RATURE)F	MAXIMUM PRESSURE OF AGENT (PSIG)		NORMAL LIMITING FACTOR
		TWO-POSITION		MODULATING		CLOSE-	AGENT (F)				
		STEAM	WATER	STEAM	WATER	OFF)	STEAM	WATER**	STEAM	WATER	
1/2 1/2 1/4 1 1/4 1/4 1/4 1/4	1.0 1.6 2.5 4.0 6.3 6.3 10.0 16.0 25.0	50	75	25	35	See chart	337	240	100	100	Disc or close-off

^{**}Minimum water temperature, 40 F. Maximum temperature differential when used with alternating hot and cold water, 140 F.