

Cartridge Cage Valves



**The Flexibility And Power You
Need To Get The Job Done**

Honeywell

Cartridge Cage Valves Quick Selection Guide

With millions of valves currently in service, Honeywell is pleased to offer customers an enhanced version of our cartridge cage valve line.



Actuator Features	Electrically-Actuated Cartridge Cage Valves					
	Floating			Modulating		
24 Vac	VC6834ZZ11	VC6934ZZ11	VC6936ZZ11	VC7934ZZ11	VC7936ZZ11	VC8114ZZ11
120 Vac	50/60 Hz					60 Hz
240 Vac						
2-Position Control	SPDT					
Floating Control	x	x	x		x	
Pulse Width Modulating Control					x	
2-10 Vdc Control				x	x	
4-20 mA Control				With 490~510 Ω, 1/2 W resistor		
Auxiliary Switch	x					
Stroke speed @ 60 Hz	120 seconds		90 seconds	120 seconds	90 seconds	
Manual Override	x	x	x	x	x	x
Position Indicator	x	x	x	x	x	x
Conduit Connection	x	x	x	x	x	x
Plenum Cable	x	x	x	x	x	x
Corrosion-resistant	x	x	x	x	x	x
Fail-safe			Electronic NO/NC		Electronic NO/NC	

Valve Size (inches)	Fittings	Cv [kvs]	Flow Characteristic	2-way Valve body part number			
1/2"	Sweat	3.3 [2.8]	Linear	VCZ AA 3100	VC6936AA1100*	VCZ AA 3100	VC7936AA1100*
		2.3 [2.0]	Modified Equal Percentage	VCZ AA 3400	VC6936AA1400*	VCZ AA 3400	VC7936AA1400*
		1.8 [1.5]		VCZ AA 3800	VC6936AA1800*	VCZ AA 3800	VC7936AA1800*
		1.1 [0.9]		VCZ AA 3600	VC6936AA1600*	VCZ AA 3600	VC7936AA1600*
		0.7 [0.6]		VCZ AA 3500	VC6936AA1500*	VCZ AA 3500	VC7936AA1500*
	NPT	3.3 [2.8]	Linear	VCZ BB 3100	VC6936BB1100*	VCZ BB 3100	VC7936BB1100*
		2.5 [2.1]	Modified Equal Percentage	VCZ BB 3400	VC6936BB1400*	VCZ BB 3400	VC7936BB1400*
		1.9 [1.6]		VCZ BB 3800	VC6936BB1800*	VCZ BB 3800	VC7936BB1800*
		1.1 [0.9]		VCZ BB 3600	VC6936BB1600*	VCZ BB 3600	VC7936BB1600*
		0.7 [0.6]		VCZ BB 3500	VC6936BB1500*	VCZ BB 3500	VC7936BB1500*
3/4"	Sweat	4.7 [4.0]	Linear	VCZ AM 3100	VC6936AM1100*	VCZ AM 3100	VC7936AM1100*
		3.9 [3.3]	Modified E%	VCZ AM 3400	VC6936AM1400*	VCZ AM 3400	VC7936AM1400*
	NPT	4.7 [4.0]	Linear	VCZ AL 3100	VC6936AL1100*	VCZ AL 3100	VC7936AL1100*
		3.9 [3.3]	Modified E%	VCZ AL 3400	VC6936AL1400*	VCZ AL 3400	VC7936AL1400*
1"	Sweat	6.6 [5.7]	Linear	VCZ AS 3100	VC6936AS1100*	VCZ AS 3100	VC7936AS1100*
		4.3 [3.7]	Modified E%	VCZ AS 3400	VC6936AS1400*	VCZ AS 3400	VC7936AS1400*
	NPT	6.6 [5.7]	Linear	VCZ AR 3100	VC6936AR1100*	VCZ AR 3100	VC7936AR1100*
		4.3 [3.7]	Modified E%	VCZ AR 3400	VC6936AR1400*	VCZ AR 3400	VC7936AR1400*
1-1/4"	Sweat	7.0 [6.0]	Linear	VCZ BE 3100	VC6936BE1100*	VCZ BE 3100	VC7936BE1100*
	NPT			VCZ BD 3100	VC6936BD1100*	VCZ BD 3100	VC7936BD1100*
Valve Size (inches)	Fittings	Cv [kvs]	Flow Characteristic	3-way (Mixing/Diverting) Valve body part number			
1/2"	Sweat	3.8 [3.3]	Linear	VCZ MA 7100	VC6936MA6100*	VCZ MA 7100	VC7936MA6100*
		2.7 [2.3]		VCZ MA 7400	VC6936MA6400*	VCZ MA 7400	VC7936MA6400*
		2.0 [1.7]		VCZ MA 7800	VC6936MA6800*	VCZ MA 7800	VC7936MA6800*
		1.2 [1.0]		VCZ MA 7600	VC6936MA6600*	VCZ MA 7600	VC7936MA6600*
		0.8 [0.7]		VCZ MA 7500	VC6936MA6500*	VCZ MA 7500	VC7936MA6500*
	NPT	3.8 [3.3]		VCZ NB 7100	VC6936NB6100*	VCZ NB 7100	VC7936NB6100*
		2.7 [2.3]		VCZ NB 7400	VC6936NB6400*	VCZ NB 7400	VC7936NB6400*
		2.0 [1.7]		VCZ NB 7800	VC6936NB6800*	VCZ NB 7800	VC7936NB6800*
		1.2 [1.0]		VCZ NB 7600	VC6936NB6600*	VCZ NB 7600	VC7936NB6600*
		0.8 [0.7]		VCZ NB 7500	VC6936NB6500*	VCZ NB 7500	VC7936NB6500*
3/4"	Sweat	6.6 [5.7]	VCZ ML 7100	VC6936ML6100*	VCZ ML 7100	VC7936ML6100*	
		4.2 [3.6]	VCZ ML 7400	VC6936ML6400*	VCZ ML 7400	VC7936ML6400*	
	NPT	6.6 [5.7]	VCZ MK 7100	VC6936MK6100*	VCZ MK 7100	VC7936MK6100*	
		4.2 [3.6]	VCZ MK 7400	VC6936MK6400*	VCZ MK 7400	VC7936MK6400*	
1"	Sweat	7.4 [6.3]	VCZ MS 7100	VC6936MS6100*	VCZ MS 7100	VC7936MS6100*	
	NPT		VCZ MR 7100	VC6936MR6100*	VCZ MR 7100	VC7936MR6100*	
1-1/4"	Sweat	8.3 [7.1]	VCZ NE 7100	VC6936NE6100*	VCZ NE 7100	VC7936NE6100*	
	NPT		VCZ ND 7100	VC6936ND6100*	VCZ ND 7100	VC7936ND6100*	

* Valve-actuator combination. Contact Marketing for model set-up. **Note:** When ordering, a complete configuration includes both a valve body and an actuator listed above.

2-Position			Replacement Cartridge	
VC8714ZZ11	VC4011ZZ11	VC4013ZZ11		
60 Hz				
	50/60Hz			
		50/60Hz		
SPST				
x				
6 seconds				
x	x	x		
x	x	x		
x				
x				
x	x	x		
			Floating, Modulating	2-position, Fail-safe
VCZ AA 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
			VCZZ 3800	VCZZ 1800
			VCZZ 3600	VCZZ 1600
			VCZZ 3500	VCZZ 1500
VCZ BB 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
			VCZZ 3800	VCZZ 1800
			VCZZ 3600	VCZZ 1600
			VCZZ 3500	VCZZ 1500
VCZ AM 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
VCZ AL 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
VCZ AS 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
VCZ AR 1100			VCZZ 3100	VCZZ 1100
			VCZZ 3400	VCZZ 1400
VCZ BE 1100			VCZZ 3100	VCZZ 1100
VCZ BD 1100			VCZZ 3100	VCZZ 1100
			Floating, Modulating	2-position, Fail-safe
VCZ MA 6100			VCZZ 7100	VCZZ 6100
			VCZZ 7400	VCZZ 6400
			VCZZ 7800	VCZZ 6800
			VCZZ 7600	VCZZ 6600
			VCZZ 7500	VCZZ 6500
VCZ NB 6100			VCZZ 7100	VCZZ 6100
			VCZZ 7400	VCZZ 6400
			VCZZ 7800	VCZZ 6800
			VCZZ 7600	VCZZ 6600
			VCZZ 7500	VCZZ 6500
VCZ ML 6100			VCZZ 7100	VCZZ 6100
			VCZZ 7400	VCZZ 6400
VCZ MK 6100			VCZZ 7100	VCZZ 6100
			VCZZ 7400	VCZZ 6400
VCZ MS 6100			VCZZ 7100	VCZZ 6100
VCZ MR 6100			VCZZ 7100	VCZZ 6100
VCZ NE 6100			VCZZ 7100	VCZZ 6100
VCZ ND 6100			VCZZ 7100	VCZZ 6100

- Sizes ½" - 1¼" in sweat or NPT fittings.
- 2-way straight-through or mixing/diverting bodies configurations
- Floating modulating and fail-safe modulation actuators
- Corrosion resistant, engineered plastic actuator housing
- High Cv and flow ratings
- 60 psid close-off on all models
- Fast-acting 2 position with soft close technology
- Two position, non-spring return low or line voltage control available
- Replaceable cartridge rebuilds valve to factory specifications without removing body from piping
- Plenum-rated connection cable with flexible conduit adapter standard
- 300 psi operating pressure
- Combination position indicator/manual flush-and-fill lever on actuators



Honeywell's VC Valves feature a field replaceable cartridge for all working parts

Learn More

Visit customer.honeywell.com and use the Product Selection Tool today.

Automation and Control Solutions**In the US:**

Honeywell

1985 Douglas Drive North

Golden Valley, MN 55422-3992

In Canada:

Honeywell Limited

35 Dynamic Drive

Toronto, Ontario M1V 4Z9

customer.honeywell.com

63-9847 PR
January 2008
© 2008 Honeywell International Inc.

Honeywell