



**Deliver High Efficiency
In Less Time**



PRESSURE-REGULATED FLOW CONTROL VALVES

Installing Control Valves Just Got A Lot More Dynamic

Contractors are always looking for ways to provide clients with superior comfort, energy efficiency and ease of use — while, of course, looking for ways to cut installation time. Facility managers are always looking for ways to maintain comfort and improve energy efficiency while reducing their maintenance costs.

With new Honeywell VRN and VRW Pressure-Regulated Flow Control Valves, everyone gets just what they're looking for.

More Control. Less Work.

Manual balancing of a building's hydronic systems for even flow and temperature distribution throughout the building is, thankfully, becoming a thing of the past. It's a labor-intensive process that's never perfect and never lasts.

The dynamic balancing of new Honeywell VRN and VRW Pressure-Regulated Flow Control Valves reduces labor time by integrating the flow control and temperature control functions in a single valve and then automatically controlling the flow in each hydronic system circuit to maintain temperature and comfort when pressures fluctuate.

- Industry-leading precision — no more manual balancing
- Controls flow exactly at all load conditions, not just at design conditions
- Improved control and performance helps extend actuator life expectancy
- Accurate flow regulation allows for the optimum sizing of chillers, boilers and pumps
- Full range of sizes from 1/2" to 6"

Even More Time Savings

Selecting, installing and commissioning Honeywell VRN and VRW Pressure-Regulated Flow Control Valves is a quick and cost-effective process. The valves feature an integrated pressure control cartridge that delivers flow balancing and control functions in one package. And there's no Cv calculation required — just pick the valve that matches the flow requirements. Honeywell makes it that easy.

Honeywell VRN and VRW Pressure-Regulated Flow Control Valves also offer unique labor saving features in the event of future service requirements. The field serviceable stem — a Honeywell ball valve exclusive — allows the valves to be serviced in the field rather than cut from the pipe. The pressure regulating cartridge is also field serviceable.



How Dynamic Pressure-Regulated Valve Operation Works

When conventional two-way valves in multi-zone systems open or close, the pressure-flow characteristic of the pumps causes an immediate head pressure change to all other valves in the system, resulting in overflow or underflow. Dynamic pressure regulation, as shown in this illustration of a Honeywell VRN Flow Control Valve, maintains the required flow rate through the valve by regulating the pressure drop across the control valve seat.

The actuator modulates the control valve portion of the valves to the required flow based on heating or cooling load requirements, independent of supply pressure. When the room controller is in balance, actuator movement stops and the valve is now set at optimum flow. If system head pressure changes, the built-in diaphragm regulator compensates for the change, maintaining the flow required by the control system without using the actuator. Flow will not change until the control system needs to respond to an external change in thermal load or to a change in set point.

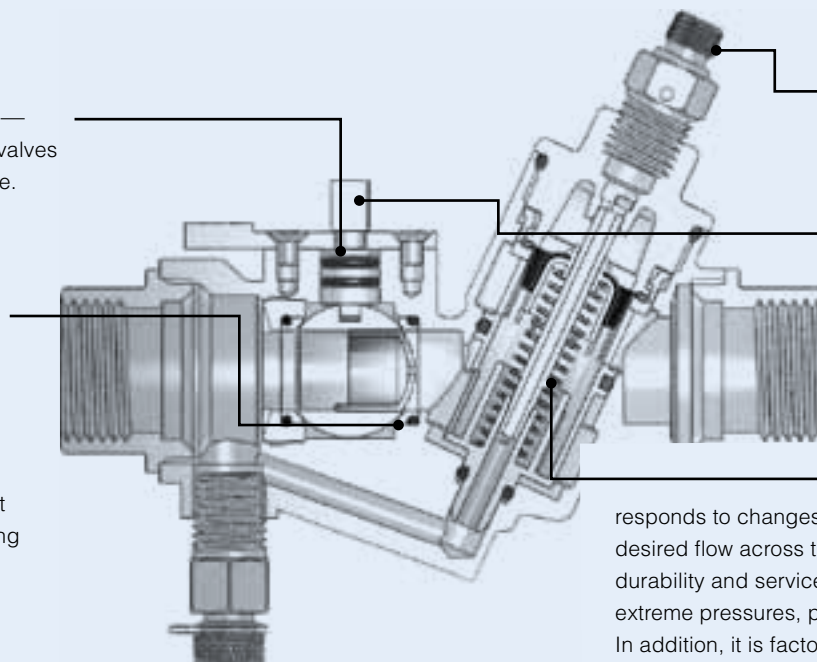
Simply put, Honeywell VRN Flow Control Valves balance the system at every point over the range of the control valve within 5% accuracy at published pressure ratings. The result is consistent comfort, increased energy efficiency and increased actuator life.

Field Serviceable Stem

Only Honeywell makes ball valves that can be serviced in place.

High Turn-Down Ratio/ Equal Percentage Flow

— Results in linear heat transfer for optimal control. Unlike designs that use a disc that sits outside of the ball, the characterized insert is integral to the ball, resulting in longer service life and higher differential pressure capabilities.



Optional Test Ports

Facilitates system set-up for balancing report.

Choice Of Actuators

The flexibility to choose the actuator that best fits your application.









Stainless Steel Field-Replaceable, Positive-Pressure Regulator

— Instantly responds to changes in system pressure to maintain desired flow across the valve. Provides long-term durability and serviceability. Will not bottom out at extreme pressures, preventing abrupt loss of control. In addition, it is factory calibrated so there is no need for field commissioning.

Additional VRN valve features include:

- Quick product selection time by choosing the model that satisfies flow requirements
- Fits 1/2" to 3" pipes
- Manual override to control valve during installation or in the event of power failure
- Flow range of 1.0 to 95 gpm
- Eliminates reverse return piping designs, saving time and material
- 5-year actuator warranty
- Manual override for system flushing, filling and service
- Fluid temperature rating of -22° F to 250° F
- For retrofit applications, simply set precise flow required by limiting actuator stroke mechanically or with a controller
- Less torque is needed, so you can use lower-cost, low-torque actuators on larger pipe sizes
- Fail-safe models configurable for normally open or normally closed return

Threaded Dynamic Pressure-Regulated Control Valves





Actuator Features		Non-Fail Safe				Fail Safe		Valve Only	
									
Actuator OS Number		MN6105A1011	MN6105A1011	MN7505A2001	MN7505A2001	MS7505A2030	MS7505A2030	N/A	N/A
Power Supply	Voltage	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac	24 Vac		
	Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz		
	Power	5 VA	5 VA	5 VA	5 VA	8 VA	8 VA		
Enclosure	(conduit connection)	NEMA 2	NEMA 2	NEMA 2	NEMA 2	NEMA 2	NEMA 2		
Actuator Torque	(lb.-in.)	44	44	44	44	44	44		
Control	(0)2-10 Vdc			•	•	•	•		
	4-20 mA (w/ external 500 Ohm Resistor)			•	•	•	•		
	Floating	•	•	•	•	•	•		
	Two-Position SPDT	•	•	•	•	•	•		
	Two-Position SPST	•	•	•	•	•	•		
Fail Safe Action	(field configurable)	Stay in Place	Stay in Place	Stay in Place	Stay in Place	Selectable	Selectable		
Normal Position	(no signal, field configurable)	Closed	Closed	Closed	Closed	Closed	Closed		
Actuator Stroke	(degrees)	95°	95°	95°	95°	95°	95°		
Timing	(seconds, 60 Hz)	90	90	90	90	90	90		
Aux. Switch	(2 x SPDT Add-on)	SSW2	SSW2	SSW2	SSW2				
Feedback	2-10 Vdc Built in			•	•	•	•		

VALVE FEATURES	Trim	Stainless Steel	Plated Brass	Stainless Steel	Plated Brass	Stainless Steel	Plated Brass	Stainless Steel	Plated Brass
	Regulator	Stainless steel cage, positive pressure rolling diaphragm							
	Test Port	Two 1/4 in. NPT							

Valve Size	Max. gpm	Differential Pressure, psid			Valve O.S. Number																		
		Min.**	Max.**	Close-off																			
1/2 in.	1.0	3.0	35	100	VRN2AB3S2A	VRN2AB3D2A	VRN2AB3S2B	VRN2AB3D2B	VRN2AB3S2D	VRN2AB3D2D	VRN2AB3SFX	VRN2AB3DFX											
	2.0				VRN2AD3S2A	VRN2AD3D2A	VRN2AD3S2B	VRN2AD3D2B	VRN2AD3S2D	VRN2AD3D2D	VRN2AD3SFX	VRN2AD3DFX											
	3.0				VRN2AE3S2A	VRN2AE3D2A	VRN2AE3S2B	VRN2AE3D2B	VRN2AE3S2D	VRN2AE3D2D	VRN2AE3SFX	VRN2AE3DFX											
	4.0				VRN2AF3S2A	VRN2AF3D2A	VRN2AF3S2B	VRN2AF3D2B	VRN2AF3S2D	VRN2AF3D2D	VRN2AF3SFX	VRN2AF3DFX											
	5.0				VRN2AG3S2A	VRN2AG3D2A	VRN2AG3S2B	VRN2AG3D2B	VRN2AG3S2D	VRN2AG3D2D	VRN2AG3SFX	VRN2AG3DFX											
	6.0				VRN2AH3S2A	VRN2AH3D2A	VRN2AH3S2B	VRN2AH3D2B	VRN2AH3S2D	VRN2AH3D2D	VRN2AH3SFX	VRN2AH3DFX											
	7.0				VRN2AJ3S2A	VRN2AJ3D2A	VRN2AJ3S2B	VRN2AJ3D2B	VRN2AJ3S2D	VRN2AJ3D2D	VRN2AJ3SFX	VRN2AJ3DFX											
3/4 in.	1.0	3.0	35	100	VRN2BB3S2A	VRN2BB3D2A	VRN2BB3S2B	VRN2BB3D2B	VRN2BB3S2D	VRN2BB3D2D	VRN2BB3SFX	VRN2BB3DFX											
	2.0				VRN2BD3S2A	VRN2BD3D2A	VRN2BD3S2B	VRN2BD3D2B	VRN2BD3S2D	VRN2BD3D2D	VRN2BD3SFX	VRN2BD3DFX											
	3.0				VRN2BE3S2A	VRN2BE3D2A	VRN2BE3S2B	VRN2BE3D2B	VRN2BE3S2D	VRN2BE3D2D	VRN2BE3SFX	VRN2BE3DFX											
	4.0				VRN2BF3S2A	VRN2BF3D2A	VRN2BF3S2B	VRN2BF3D2B	VRN2BF3S2D	VRN2BF3D2D	VRN2BF3SFX	VRN2BF3DFX											
	5.0				VRN2BG3S2A	VRN2BG3D2A	VRN2BG3S2B	VRN2BG3D2B	VRN2BG3S2D	VRN2BG3D2D	VRN2BG3SFX	VRN2BG3DFX											
	6.0				VRN2BH3S2A	VRN2BH3D2A	VRN2BH3S2B	VRN2BH3D2B	VRN2BH3S2D	VRN2BH3D2D	VRN2BH3SFX	VRN2BH3DFX											
	7.0				VRN2BJ3S2A	VRN2BJ3D2A	VRN2BJ3S2B	VRN2BJ3D2B	VRN2BJ3S2D	VRN2BJ3D2D	VRN2BJ3SFX	VRN2BJ3DFX											
	8.0				VRN2BK3S2A	VRN2BK3D2A	VRN2BK3S2B	VRN2BK3D2B	VRN2BK3S2D	VRN2BK3D2D	VRN2BK3SFX	VRN2BK3DFX											
	9.0				VRN2BL3S2A	VRN2BL3D2A	VRN2BL3S2B	VRN2BL3D2B	VRN2BL3S2D	VRN2BL3D2D	VRN2BL3SFX	VRN2BL3DFX											
	10*				VRN2BM3S2A	VRN2BM3D2A	VRN2BM3S2B	VRN2BM3D2B	VRN2BM3S2D	VRN2BM3D2D	VRN2BM3SFX	VRN2BM3DFX											
1 in.	1.0	3.0	50	VRN2CB3S2A	VRN2CB3D2A	VRN2CB3S2B	VRN2CB3D2B	VRN2CB3S2D	VRN2CB3D2D	VRN2CB3SFX	VRN2CB3DFX												
	2.0			VRN2CD3S2A	VRN2CD3D2A	VRN2CD3S2B	VRN2CD3D2B	VRN2CD3S2D	VRN2CD3D2D	VRN2CD3SFX	VRN2CD3DFX												
	3.0			VRN2CE3S2A	VRN2CE3D2A	VRN2CE3S2B	VRN2CE3D2B	VRN2CE3S2D	VRN2CE3D2D	VRN2CE3SFX	VRN2CE3DFX												
	4.0			VRN2CF3S2A	VRN2CF3D2A	VRN2CF3S2B	VRN2CF3D2B	VRN2CF3S2D	VRN2CF3D2D	VRN2CF3SFX	VRN2CF3DFX												
	5.0			VRN2CG3S2A	VRN2CG3D2A	VRN2CG3S2B	VRN2CG3D2B	VRN2CG3S2D	VRN2CG3D2D	VRN2CG3SFX	VRN2CG3DFX												
	6.0			VRN2CH3S2A	VRN2CH3D2A	VRN2CH3S2B	VRN2CH3D2B	VRN2CH3S2D	VRN2CH3D2D	VRN2CH3SFX	VRN2CH3DFX												
	7.0			VRN2CJ3S2A	VRN2CJ3D2A	VRN2CJ3S2B	VRN2CJ3D2B	VRN2CJ3S2D	VRN2CJ3D2D	VRN2CJ3SFX	VRN2CJ3DFX												
	8.0	VRN2CK3S2A		VRN2CK3D2A	VRN2CK3S2B	VRN2CK3D2B	VRN2CK3S2D	VRN2CK3D2D	VRN2CK3SFX	VRN2CK3DFX													
	9.0	VRN2CL3S2A		VRN2CL3D2A	VRN2CL3S2B	VRN2CL3D2B	VRN2CL3S2D	VRN2CL3D2D	VRN2CL3SFX	VRN2CL3DFX													
	10	VRN2CM3S2A		VRN2CM3D2A	VRN2CM3S2B	VRN2CM3D2B	VRN2CM3S2D	VRN2CM3D2D	VRN2CM3SFX	VRN2CM3DFX													
	15	VRN2CN3S2A		VRN2CN3D2A	VRN2CN3S2B	VRN2CN3D2B	VRN2CN3S2D	VRN2CN3D2D	VRN2CN3SFX	VRN2CN3DFX													
	20	VRN2CP3S2A		VRN2CP3D2A	VRN2CP3S2B	VRN2CP3D2B	VRN2CP3S2D	VRN2CP3D2D	VRN2CP3SFX	VRN2CP3DFX													

* Full port ball
 ** Differential pressure regulator operating range, ±5%

Threaded Dynamic Pressure-Regulated Control Valves

Actuator Features		Non-Fail Safe				Fail Safe		Valve Only				
												
Actuator OS Number		MN6105A1011	MN6105A1011	MN7505A2001	MN7505A2001	MS7505A2030	MS7505A2030	N/A	N/A			
VALVE FEATURES		Trim		Stainless steel cage, positive pressure rolling diaphragm								
		Regulator		Two 1/4 in. NPT								
		Test Port										
Valve Size	Max. gpm	Differential Pressure, psid			Valve O.S. Number							
		Min.**	Max.**	Close-off								
1-1/4 in.	10	3.0	50	100	VRN2DM3S2A	VRN2DM3D2A	VRN2DM3S2B	VRN2DM3D2B	VRN2DM3S2D	VRN2DM3D2D	VRN2DM3SFX	VRN2DM3DFX
	15				VRN2DN3S2A	VRN2DN3D2A	VRN2DN3S2B	VRN2DN3D2B	VRN2DN3S2D	VRN2DN3D2D	VRN2DN3SFX	VRN2DN3DFX
	20	VRN2DP3S2A			VRN2DP3D2A	VRN2DP3S2B	VRN2DP3D2B	VRN2DP3S2D	VRN2DP3D2D	VRN2DP3SFX	VRN2DP3DFX	
	25	VRN2DQ3S2A			VRN2DQ3D2A	VRN2DQ3S2B	VRN2DQ3D2B	VRN2DQ3S2D	VRN2DQ3D2D	VRN2DQ3SFX	VRN2DQ3DFX	
	30	VRN2DR3S2A			VRN2DR3D2A	VRN2DR3S2B	VRN2DR3D2B	VRN2DR3S2D	VRN2DR3D2D	VRN2DR3SFX	VRN2DR3DFX	
35*	VRN2DS3S2A	VRN2DS3D2A	VRN2DS3S2B		VRN2DS3D2B	VRN2DS3S2D	VRN2DS3D2D	VRN2DS3SFX	VRN2DS3DFX			
1-1/2 in.	10	3.0	50		VRN2EM3S2A	VRN2EM3D2A	VRN2EM3S2B	VRN2EM3D2B	VRN2EM3S2D	VRN2EM3D2D	VRN2EM3SFX	VRN2EM3DFX
	15				VRN2EN3S2A	VRN2EN3D2A	VRN2EN3S2B	VRN2EN3D2B	VRN2EN3S2D	VRN2EN3D2D	VRN2EN3SFX	VRN2EN3DFX
	20	VRN2EP3S2A			VRN2EP3D2A	VRN2EP3S2B	VRN2EP3D2B	VRN2EP3S2D	VRN2EP3D2D	VRN2EP3SFX	VRN2EP3DFX	
	25	VRN2EQ3S2A			VRN2EQ3D2A	VRN2EQ3S2B	VRN2EQ3D2B	VRN2EQ3S2D	VRN2EQ3D2D	VRN2EQ3SFX	VRN2EQ3DFX	
	30	VRN2ER3S2A		VRN2ER3D2A	VRN2ER3S2B	VRN2ER3D2B	VRN2ER3S2D	VRN2ER3D2D	VRN2ER3SFX	VRN2ER3DFX		
	35	VRN2ES3S2A	VRN2ES3D2A	VRN2ES3S2B	VRN2ES3D2B	VRN2ES3S2D	VRN2ES3D2D	VRN2ES3SFX	VRN2ES3DFX			
	40	VRN2ET3S2A	VRN2ET3D2A	VRN2ET3S2B	VRN2ET3D2B	VRN2ET3S2D	VRN2ET3D2D	VRN2ET3SFX	VRN2ET3DFX			
	45	VRN2EU3S2A	VRN2EU3D2A	VRN2EU3S2B	VRN2EU3D2B	VRN2EU3S2D	VRN2EU3D2D	VRN2EU3SFX	VRN2EU3DFX			
	50	VRN2E13S2A	VRN2E13D2A	VRN2E13S2B	VRN2E13D2B	VRN2E13S2D	VRN2E13D2D	VRN2E13SFX	VRN2E13DFX			
	25	VRN2FQ3S2A	VRN2FQ3D2A	VRN2FQ3S2B	VRN2FQ3D2B	VRN2FQ3S2D	VRN2FQ3D2D	VRN2FQ3SFX	VRN2FQ3DFX			
2 in.	30	4.0	58	VRN2FR3S2A	VRN2FR3D2A	VRN2FR3S2B	VRN2FR3D2B	VRN2FR3S2D	VRN2FR3D2D	VRN2FR3SFX	VRN2FR3DFX	
	35			VRN2FS3S2A	VRN2FS3D2A	VRN2FS3S2B	VRN2FS3D2B	VRN2FS3S2D	VRN2FS3D2D	VRN2FS3SFX	VRN2FS3DFX	
	40	VRN2FT3S2A		VRN2FT3D2A	VRN2FT3S2B	VRN2FT3D2B	VRN2FT3S2D	VRN2FT3D2D	VRN2FT3SFX	VRN2FT3DFX		
	45	VRN2FU3S2A		VRN2FU3D2A	VRN2FU3S2B	VRN2FU3D2B	VRN2FU3S2D	VRN2FU3D2D	VRN2FU3SFX	VRN2FU3DFX		
	50	VRN2F13S2A		VRN2F13D2A	VRN2F13S2B	VRN2F13D2B	VRN2F13S2D	VRN2F13D2D	VRN2F13SFX	VRN2F13DFX		
	55	VRN2F23S2A	VRN2F23D2A	VRN2F23S2B	VRN2F23D2B	VRN2F23S2D	VRN2F23D2D	VRN2F23SFX	VRN2F23DFX			
	60	VRN2F33S2A	VRN2F33D2A	VRN2F33S2B	VRN2F33D2B	VRN2F33S2D	VRN2F33D2D	VRN2F33SFX	VRN2F33DFX			
	65	VRN2F43S2A	VRN2F43D2A	VRN2F43S2B	VRN2F43D2B	VRN2F43S2D	VRN2F43D2D	VRN2F43SFX	VRN2F43DFX			
	70	VRN2F53S2A	VRN2F53D2A	VRN2F53S2B	VRN2F53D2B	VRN2F53S2D	VRN2F53D2D	VRN2F53SFX	VRN2F53DFX			
	75	VRN2F63S2A	VRN2F63D2A	VRN2F63S2B	VRN2F63D2B	VRN2F63S2D	VRN2F63D2D	VRN2F63SFX	VRN2F63DFX			
2-1/2 in.	25	4.0	58	VRN2GQ3S2A	VRN2GQ3D2A	VRN2GQ3S2B	VRN2GQ3D2B	VRN2GQ3S2D	VRN2GQ3D2D	VRN2GQ3SFX	VRN2GQ3DFX	
	30			VRN2GR3S2A	VRN2GR3D2A	VRN2GR3S2B	VRN2GR3D2B	VRN2GR3S2D	VRN2GR3D2D	VRN2GR3SFX	VRN2GR3DFX	
	35	VRN2GS3S2A		VRN2GS3D2A	VRN2GS3S2B	VRN2GS3D2B	VRN2GS3S2D	VRN2GS3D2D	VRN2GS3SFX	VRN2GS3DFX		
	40	VRN2GT3S2A		VRN2GT3D2A	VRN2GT3S2B	VRN2GT3D2B	VRN2GT3S2D	VRN2GT3D2D	VRN2GT3SFX	VRN2GT3DFX		
	45	VRN2GU3S2A		VRN2GU3D2A	VRN2GU3S2B	VRN2GU3D2B	VRN2GU3S2D	VRN2GU3D2D	VRN2GU3SFX	VRN2GU3DFX		
	50	VRN2G13S2A		VRN2G13D2A	VRN2G13S2B	VRN2G13D2B	VRN2G13S2D	VRN2G13D2D	VRN2G13SFX	VRN2G13DFX		
	55	VRN2G23S2A		VRN2G23D2A	VRN2G23S2B	VRN2G23D2B	VRN2G23S2D	VRN2G23D2D	VRN2G23SFX	VRN2G23DFX		
	60	VRN2G33S2A		VRN2G33D2A	VRN2G33S2B	VRN2G33D2B	VRN2G33S2D	VRN2G33D2D	VRN2G33SFX	VRN2G33DFX		
	65	VRN2G43S2A		VRN2G43D2A	VRN2G43S2B	VRN2G43D2B	VRN2G43S2D	VRN2G43D2D	VRN2G43SFX	VRN2G43DFX		
	70	VRN2G53S2A		VRN2G53D2A	VRN2G53S2B	VRN2G53D2B	VRN2G53S2D	VRN2G53D2D	VRN2G53SFX	VRN2G53DFX		
	75	VRN2G63S2A	VRN2G63D2A	VRN2G63S2B	VRN2G63D2B	VRN2G63S2D	VRN2G63D2D	VRN2G63SFX	VRN2G63DFX			
	80	VRN2G73S2A	VRN2G73D2A	VRN2G73S2B	VRN2G73D2B	VRN2G73S2D	VRN2G73D2D	VRN2G73SFX	VRN2G73DFX			
	85	VRN2G83S2A	VRN2G83D2A	VRN2G83S2B	VRN2G83D2B	VRN2G83S2D	VRN2G83D2D	VRN2G83SFX	VRN2G83DFX			
	95*	VRN2G93S2A	VRN2G93D2A	VRN2G93S2B	VRN2G93D2B	VRN2G93S2D	VRN2G93D2D	VRN2G93SFX	VRN2G93DFX			
	3 in.	25	4.0	10	VRN2HQ3S2A	VRN2HQ3D2A	VRN2HQ3S2B	VRN2HQ3D2B	VRN2HQ3S2D	VRN2HQ3D2D	VRN2HQ3SFX	VRN2HQ3DFX
30		VRN2HR3S2A			VRN2HR3D2A	VRN2HR3S2B	VRN2HR3D2B	VRN2HR3S2D	VRN2HR3D2D	VRN2HR3SFX	VRN2HR3DFX	
35		VRN2HS3S2A	VRN2HS3D2A		VRN2HS3S2B	VRN2HS3D2B	VRN2HS3S2D	VRN2HS3D2D	VRN2HS3SFX	VRN2HS3DFX		
40		VRN2HT3S2A	VRN2HT3D2A		VRN2HT3S2B	VRN2HT3D2B	VRN2HT3S2D	VRN2HT3D2D	VRN2HT3SFX	VRN2HT3DFX		
45		VRN2HU3S2A	VRN2HU3D2A		VRN2HU3S2B	VRN2HU3D2B	VRN2HU3S2D	VRN2HU3D2D	VRN2HU3SFX	VRN2HU3DFX		
50		VRN2H13S2A	VRN2H13D2A		VRN2H13S2B	VRN2H13D2B	VRN2H13S2D	VRN2H13D2D	VRN2H13SFX	VRN2H13DFX		
55		VRN2H23S2A	VRN2H23D2A		VRN2H23S2B	VRN2H23D2B	VRN2H23S2D	VRN2H23D2D	VRN2H23SFX	VRN2H23DFX		
60		VRN2H33S2A	VRN2H33D2A		VRN2H33S2B	VRN2H33D2B	VRN2H33S2D	VRN2H33D2D	VRN2H33SFX	VRN2H33DFX		
65		VRN2H43S2A	VRN2H43D2A		VRN2H43S2B	VRN2H43D2B	VRN2H43S2D	VRN2H43D2D	VRN2H43SFX	VRN2H43DFX		
70		VRN2H53S2A	VRN2H53D2A		VRN2H53S2B	VRN2H53D2B	VRN2H53S2D	VRN2H53D2D	VRN2H53SFX	VRN2H53DFX		
75		VRN2H63S2A	VRN2H63D2A	VRN2H63S2B	VRN2H63D2B	VRN2H63S2D	VRN2H63D2D	VRN2H63SFX	VRN2H63DFX			
80		VRN2H73S2A	VRN2H73D2A	VRN2H73S2B	VRN2H73D2B	VRN2H73S2D	VRN2H73D2D	VRN2H73SFX	VRN2H73DFX			
85		VRN2H83S2A	VRN2H83D2A	VRN2H83S2B	VRN2H83D2B	VRN2H83S2D	VRN2H83D2D	VRN2H83SFX	VRN2H83DFX			
95*		VRN2H93S2A	VRN2H93D2A	VRN2H93S2B	VRN2H93D2B	VRN2H93S2D	VRN2H93D2D	VRN2H93SFX	VRN2H93DFX			

* Full port ball

** Differential pressure regulator operating range, ±5%



VRW Series

While the VRN Series is threaded, the VRW Series is used for flanged connections and larger capacity applications. The main differences between the Honeywell VRN and VRW control valves are the installation style and the capacity.

- Fits 2-1/2" to 6" pipes
- Flow range of 39 to 469 gpm
- Unique, combination wafer-style flange design meets both ANSI/ASME 150 and ANSI/ASME 300 pressure classes for typical and high-rise buildings
- Maximum static operating pressure of 580 psig
- Each valve body fits **two** pipe sizes, such as fitting both 5" and 6" pipes
- Six-turn actuator provides precise control of globe-style plug
- Flow position display
- 50 flow settings in equal gpm increments
- Analog position feedback signal
- Available with open or closed electronic fail-safe action
- Integral pressure/temperature test ports
- 1-year warranty from commissioning/put-in-service date

Flanged Dynamic Pressure-Regulated Control Valves

Actuator Features		Non-Fail Safe	Fail Safe
Power Supply	Voltage	24 Vac/30 Vdc	24 Vac/30 Vdc
	Frequency	50 / 60 Hz	50 / 60 Hz
	Power	20 VA	20 VA
Enclosure	(ingress protection)	IP44	IP44
Control	2-10 Vdc	•	•
	4-20 mA (w/external 500 Ohm Resistor)	•	•
	Pulse-width Modulating	•	•
	Floating	•	•
	Two-Position SPDT	•	•
Fail Safe Action	(field configurable*)	Stay in Place	Open/Closed*
Normal Position (no signal)	(field configurable)	Open/Closed	Open/Closed
Actuator Stroke	(degrees)	6 x 360°	6 x 360°
Timing	(seconds, 60 Hz)	150	150
Feedback	4-20 mA (2-10 Vdc) Built in	•	•

	Trim	Stainless Steel
	Body	Cast Iron
	Pressure Ratings	ANSI 150/300
	Test Ports	Two - 1/4" ISO

Valve Features		Flow, gpm*				Differential Pressure (psid)		Valve O.S. Number	
Valve Size		Min.	Max.	Min.**	Max.**	Close-off			
		2-1/2 and 3 in. [DN65-DN80]	39	112	5.1			58	100
	56	155	11.6		VRW2JW4SMB	VRW2JW4SMD			
3 and 4 in. [DN80-DN100]	55	147	5.1		VRW2KV4SMB	VRW2KV4SMD			
	73	222	8.6		VRW2KW4SMB	VRW2KW4SMD			
5 and 6 in. [DN125-DN150]	103	370	5.1		VRW2LV4SMB	VRW2LV4SMD			
	118	469	8.6		VRW2LW4SMB	VRW2LW4SMD			

* Field adjustable

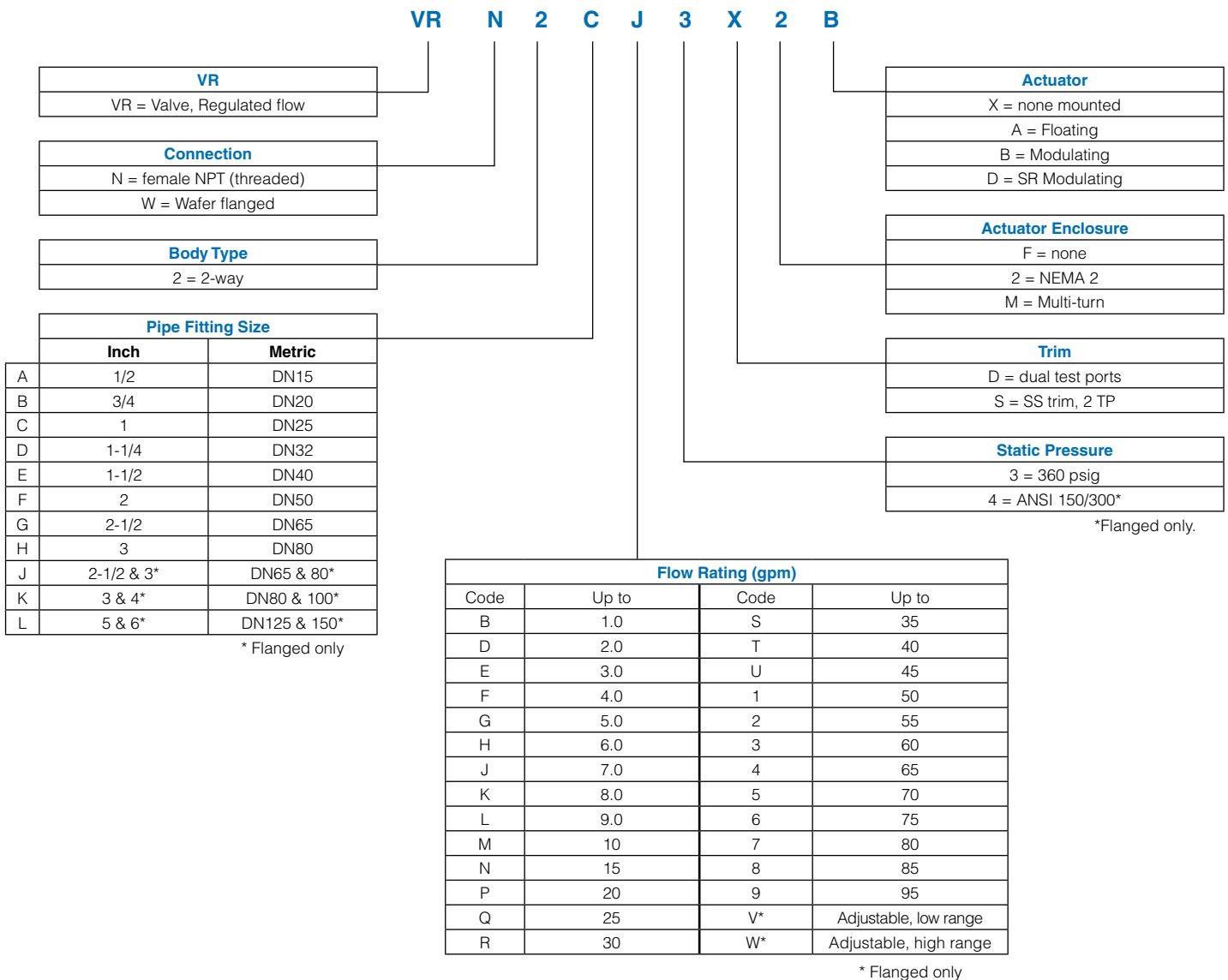
** Differential pressure regulator operating range, ±5%

Think Dynamic

Dynamic pressure-regulated flow control isn't just the future of flow control — it's here now. Use Honeywell VRN and VRW Pressure-Regulated Flow Control Valves to cut your installation and commissioning time while helping your customers enjoy increased comfort and energy efficiency. Use the chart below to select the right model for your next application, and put the power of dynamic control to work for you and your customers.

Model Selection

Follow this Model Number Selection reference to ensure that you're choosing the right VRN and VRW Pressure-Regulated Flow Control Valve for the job.



Learn More

For more information on Honeywell VRN and VRW Pressure-Regulated Flow Control Valves, call **1-800-466-3993** or visit **specifyhoneywell.com**.

Automation and Control Solutions

In the U.S.:

Honeywell

1985 Douglas Drive North
Golden Valley, MN 55422-3992

In Canada:

Honeywell Limited

35 Dynamic Drive
Toronto, Ontario M1V 4Z9

In Latin America:

Honeywell

9315 N.W. 112th Avenue

Miami, FL 33178

www.honeywell.com

Honeywell

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