









ALL PA

ROW CROPS, TREE & VINE, NURSERY

ZONE CONTROL FOR SPRINKLER & DRIP IRRIGATION

**BIG GUN<sup>®</sup> VALVE CONTROL** 

# 1000 SERIES CONTROL VALVES

Nelson Irrigation Corporation has taken a great cage design to a whole new level. Flow area has been opened up by 50% by using plastic molding technology and by eliminating the upstream cage. The result is higher flow, less friction loss and more accurate pressure regulation.

#### ADVANCED MATERIALS

Specially compounded plastic and rubber components resist corrosion



#### GEARED TO HANDLE TOUGH AGRICULTURAL CONDITIONS

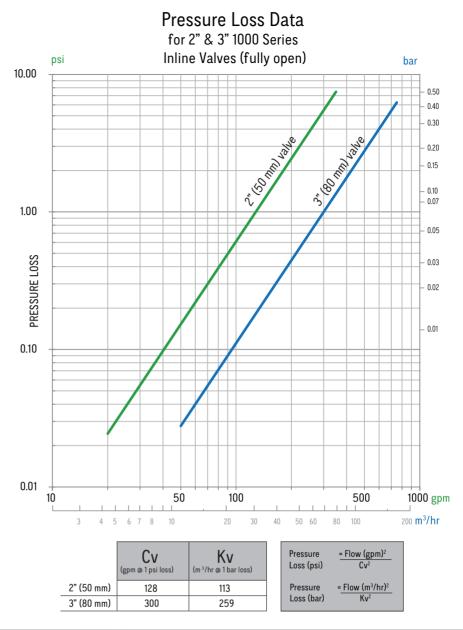
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- » Vastly improved cage design to allow passage of debris.
- » 3-way control design requires minimal filtration for reliable operation, as compared to traditional 2-way valves which continuously bleed water and are susceptible to plugging.

#### SAVE WATER, SAVE ENERGY

- » Higher flow capacity & lower friction loss — better than any other valve on the market.
- More precise, more stable pressure regulation over a wider range of flow.
- Pressure regulation with minimal pressure differential required across the valve.







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#### APPLICATIONS

» Zone control for sprinkler or drip irrigated row crops, nursery crops, orchards and vineyards.

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» Place valve under Big Gun® for solid set irrigation, end of pivot solutions and a variety of environmental controls including fire suppression, dust suppression and cooling.

## TECHNOLOGY FOR THE FUTURE 1000 SERIES CONTROL VALVES

# REDEFINE DESIGN ////// A modular design provides ULTIMATE FLEXIBILITY in valve style and connection type while simplifying installation, troubleshooting and maintenance - great for the grower, installer and system designer! Sleeve Spacer Jacket **3 DIFFERENT** FLOW PATHS ELBOW TEE **NELSON** 2" only

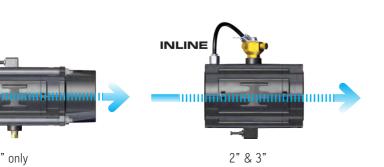




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#### WAYS TO CONFIGURE

» Nelson valve sizes should be selected based on flow needs as opposed to pipe sizes. Because of the high level efficiency, it is common to select the valve one size smaller than the pipe.





# **1000 SERIES** CONTROL VALVE DESCRIPTION CODES

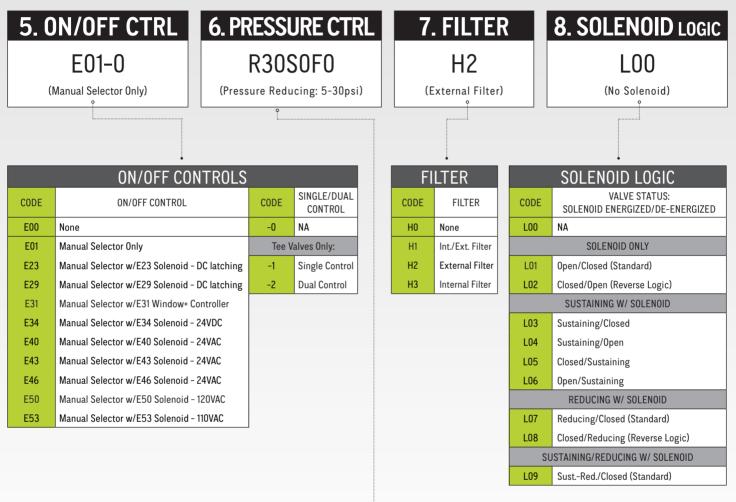
1000V	<b>1. SIZE</b> 2 (2")		2. STYLE INL (Inline)			3. PRESSURE LO (Low: 10-40 psi)		E	4. CONNECTIONS B03 (2" Flange, PVC Socket)
	(Z) 								
				•		•			•
	SIZE		STYLE		PRESSURE			CONNECTIONS	
	CODE	SIZE	CODE	STYLE	CODE	OPERATING PRESSURE	CC	DE	CONNECTIONS
	2	2"	INL	Inline	LO	Low (10-40 psi)			CONNECTIONS FOR 2" VALVES
	3	3"	BGV	Big Gun Valve	MED	Medium (18-80 psi)	В	01	None (wafer only, no stud kit)
			TEE	Tee	н	High (30-150 psi)	В	02	2" Metal Flanges, FNPT
			ELB	Elbow			В	03	2" Flange, PVC Socket
							В	04	Wafer w/2x3" adapters for 3" flanges (no stud kit)
							В	05	2" Victaulic
c							В	06	3" Victaulic
6							В	07	1.25" FNPT
							В	08	2" FNPT
							В	09	3" OD Spline (Certa-Set)
							B	11	1.5" FNPT
								13	1.5" FBSP
							В	14	2" FBSP
								16	3" Flange, PVC Socket (w/2x3" adapters)
								17	Wafer w/stud kit for 2" flanges
								19	Wafer w/stud kit for 75/100 Big Gun
							В	21	Wafer w/stud kit and 2x3" adapters for 3" flanges
								01	CONNECTIONS FOR 3" VALVES
								01	None (wafer only, no stud kit)
								15 19	3" Flange, PVC Socket
								18 20	Wafer w/stud kit for 3" flanges
								20 22	Wafer w/stud kit for 150 Big Gun Wafer w/stud kit and 3x4" adapters for 4" flanges
								23	Wafer w/3x4" adapters for 4" flanges (no stud kit)
								24	3" Victaulic
								25	4" Flange, PVC Socket (w/3x4" adapters)
								23	T Hange, I ve Sucher (W/ SAT auapreis)



### Example:

### 1000V2 INL LO B03 E01-0 R30S0F0 H2 L00

1000 Series 2" Valve, Inline, Low pressure (10-40psi), 2" PVC flanges, Manual Selector Only, Pressure Reducing (5-30psi), External Filter.



PRESSURE CONTROL										
	RESSURE EDUCING		RESSURE JSTAINING	RATE-OF-FLOW						
CODE	ADJ. RANGE	CODE	ADJ. RANGE	CODE	ADJ. RANGE					
RO	None	SO	None	FO	None					
R30	5-30 psi	S30	5-30 psi	F3	3", 120-400 gpm					
R60	5-60 psi	S60	5-60 psi	F4	4", 200-540 gpm					
R120	10-120 psi	S120	10-120 psi							



#### » ELECTRIC ON-OFF



Add a solenoid for electric on-off capability. The 3-way electric solenoid must be energized to open the valve and deenergized to close the valve.

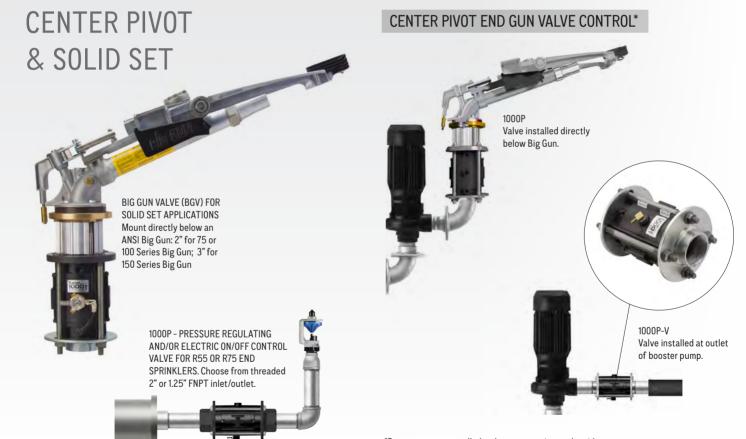
#### » PRESSURE CONTROL



REDUCING OR SUSTAINING/RELIEF Add a pressure control pilot to maintain a set upstream and/or downstream pressure.

Nelson's new plastic pressure control pilot provides SIMPLE, ACCURATE & STABLE pressure controls plus:

- » Lightweight
- » Lower cost
- » Easy to adjust without tools
- » Corrosion resistant



\*Booster pump controlled — does not require a solenoid.



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Warranty and Disclaimer Nelson Irrigation Products and Accessories are warranted for one year from date of original sale to be free of defective materials and workmanship when used within the working specifications for which the products were designed and under normal use and service. The manufacturer assumes no responsibility for installation, removal or unauthorized repair of defective parts. The manufacturer's liability and replacement or repair of defective parts and the manufacturer will not be liable for any crop or other consequential damages resulting from defects or breach of warranty. This warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness for particular purposes and of all other obligations or liabilities of manufacturer. No agent, employee or representative of the manufacturer has authority to waive, alter or add to the provisions of this warranty, nor to make any representations or warranty not contained herein.