



### NEW SELECTION GUIDE

1. SIZE					
CODE	SIZE				
1000V2	2"				
1000V3	3"				
1000V4	4"				

#### **NEW 4" VALVE**



## NEW TUBING PROTECTION



### NEW CONNECTIONS FOR END OF PIVOT VALVES



## 1000 SERIES

### CONTROL VALVE SELECTION GUIDE

TO ORDER: Select one option from each of the 7 sections to build the valve description code.



New Options!

1. SIZE				
CODE	SIZE			
1000V2	2"			
1000V3	3"			
1000V4	4"			

	2. STYLE					
CODE	STYLE					
INL	Inline					
BGV	Big Gun Valve					
TEE*	Tee					
ELB*	Elbow					

*Tee and	ł Elbow	in 2"	only

3. PRESSURE						
CODE	OPERATING PRESSURE					
L0	Low (10-40 psi)					
MED Medium (18-80 psi)						
HI	High (30-150 psi)					

	4. CONNECTIONS						
CODE	CONNECTIONS						
	CONNECTIONS FOR <b>2"</b> VALVES						
B01	None (wafer only, no stud kit)						
B02	2" FNPT (metal)						
B03	2" PVC Socket						
B04	Wafer 3x2x3 (no stud kit)						
B05	2" Victaulic						
B06	3" Victaulic (3x2x3)						
B08	2" FNPT (plastic)						
B09	3" OD Spline (Certa-Set)						
B11	1.5" FNPT						
B14	2" FBSP						
B16	3" PVC Socket (3x2x3)						
B17	Wafer w/stud kit for 2" flanges						
B19	Wafer w/stud kit for 75/100 Big Gun						
B21	Wafer 3x2x3 w/stud kit						
CONNECTIONS FOR <b>3"</b> VALVES							
B01	None (wafer only, no stud kit)						
B15	3" PVC Socket						
B18	Wafer w/stud kit for 3" flanges						
B20	Wafer w/stud kit for 150 Big Gun						
B22	Wafer 4x3x4 w/stud kit						
B23	Wafer 4x3x4 (no stud kit)						
B24	3" Victaulic						
B25	4" PVC Socket (4x3x4)						
	CONNECTIONS FOR 4" VALVES						
B01	None (wafer only, no stud kit)						
B26	4" PVC Socket						
B27	Wafer w/stud kit for 4" flanges						
B29	Wafer 6x4x6 w/stud kit						
B30	Wafer 6x4x6 (no stud kit)						
B31	6" PVC Socket (6x4x6)						
B32	4" Victaulic						



### **EXAMPLE:**

SECTION	1. SIZE	2. STYLE	3. PRESSURE	4. CONNECTIONS	5. ON/OFF CONTROL	6. PRESSURE CONTROL	7. FILTER
CODE	1000V2	INL	MED	B03	E01	R60	Н3
DESCRIPTION	1000 Series 2" Valve	Inline	Medium (18-80 psi)	2" PVC Socket	Manual Selector Only	Pressure Reducing 5-60 psi	Internal Filter

	5. ON/OFF CONTROL	.S*	
CODE	ON/OFF CONTROL	CODE	SINGLE/DUAL CO TROL
E00	None		Tee Valves Only:
E01	Manual Selector Only	-1	Single Control
► E11 <sup>†</sup>	Manual Sel. w/E11 Solenoid - 12VDC, NC	-2	Dual Control
E23	Manual Sel. w/E23 Solenoid - DC Lat.		
E29	Manual Sel. w/E29 Solenoid - DC Lat.		
E31	Manual Sel. w/E31 Window+ Controller		
E34	Manual Sel. w/E34 Solenoid - 24VDC		
E40	Manual Sel. w/E40 Solenoid - 24VAC		
E43	Manual Sel. w/E43 Solenoid - 24VAC		
E46	Manual Sel. w/E46 Solenoid - 24VAC		
E50	Manual Sel. w/E50 Solenoid - 120VAC		
E53	Manual Sel. w/E53 Solenoid - 110VAC		

6. PRESSURE				
	CONTROL			
CODE	ADJ. RANGE			
PF	RESSURE REDUCING			
R0	None			
R30	5-30 psi			
R60	5-60 psi			
R120	20 10-120 psi			
PR	ESSURE SUSTAINING			
S0	None			
S60	5-60 psi			
S120	10-120 psi			

7. FILTER							
CODE	FILTER						
Н0	None						
H2	External Filter						
Н3	Internal Filter						
FILTER	WITH TUBING PROTECTION						
H4	External Filter						
H5	Internal Filter						

\*Contact Factory for full solenoid specifications.

Nelson Control Valves come standard normally closed. Use the following codes to specify non-standard, normally open, or special solenoid plumbing logic.

SOLENOID ONLY			SUSTAINING W/ SOLENOID			REDUCING W/ SOLENOID		
CODE	SOLENOID STATUS	VALVE STATUS	CODE	SOLENOID STATUS	VALVE STATUS	CODE	SOLENOID STATUS	VALVE STATUS
1.02	Energized	Closed	1.02	Energized	Sustaining	1.00	Energized	Closed
L02	De-energized	0pen	L03	De-energized	Closed	L08	De-energized	Reducing
	+		+	Energized	Sustaining			
		L04 <sup>†</sup>		De-energized	0pen			
			1.05	Energized	Closed			
	L05		LUO	De-energized	Sustaining			
			1.00	Energized	0pen			
			L06	De-energized	Sustaining			
†Pressure Sustaining normally-open valve								

<sup>&</sup>lt;sup>†</sup>New, normally closed solenoid for pressure sustaining, normally open valve ("PSNO") for applications at filter stations

## THE WAIT IS OVER.

Minimum Minimum

4" PVC Socket Connections.

The most efficient and versatile **4 INCH VALVE** in the industry has arrived.

Growers and irrigation designers alike have long awaited an economical valve option that is ideally suited to flows in the 400-700 gpm (90-160 m³/hr) range, where most 4" valves have too much pressure loss but a 6" valve is too expensive. The all-new Nelson 4" 1000 Series valve meets this challenge and is capable of accurately regulating pressure across an even wider range of flows.

The new 4" 1000 Series valve can be configured with either removable 4" PVC Sockets or a simple and cost effective 6x4x6 wafer that installs between 6" flanges. Additional connection types coming soon.



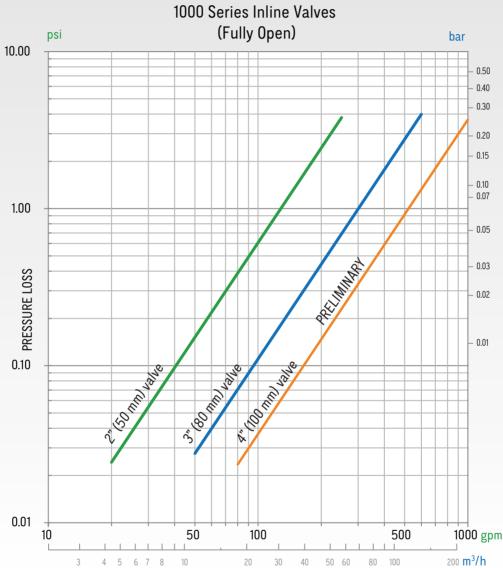
New jacket mounting design with improved clip is more secure yet easier to use.



## 1000 SERIES

The lowest friction loss and the highest capacity of any valve on the market.

### Pressure Loss Data



	Cv (gpm @ 1 psi loss)	Kv (m³/hr @ 1 bar loss)
2" (50 mm)	128	111
3x2x3	135	117
3" (80 mm)	300	259
4x3x4	308	266
4" (100 mm)	520*	450*
6x4x6	TBA	TBA

\*PRELIMINARY

Pressure Loss (psi) =  $\frac{\text{Flow (gpm)}^2}{\text{Cv}^2}$ Pressure Loss (bar) =  $\frac{\text{Flow(m}^3/\text{h})^2}{\text{Kv}^2}$ 

## 1000 SERIES

### **NEW TUBING PROTECTION**



Protect control tubing from damage caused by coyotes and other animals.

New Tubing Protection is the result of rigorous field testing in which valves were plumbed with protected and unprotected tubes and placed in areas with high coyote activity. The wire coil erradicates tube damage more effectively than a ranch rifle!

\*13038
Tubing protection kit Includes 4 x 16"
lengths (trim to fit)

### FOR FACTORY INSTALLATION

Specify Option H4 or H5



# 2" (50 mm) End of Pivot Valves for R55 & R75 (NEW metal connections)



### 1000P

PRESSURE REGULATING AND/OR ELECTRIC ON/OFF Choose from metal threaded 2" or 1.25" FNPT inlet/outlet.

Plastic connections still available - contact factory.

Model	Valve Function	Internal Filter	Rubber Drains QTY 2	On/off	Press. Reg. Adjust. Range (psi)	Metal Connections (FNPT)	Part Number
1000P-R	Pressure regulating only. No on/off control.					2" x 2"	12254-0036
		<b>✓</b>	<b>✓</b>	-	5-60	2" x 1.25"	12254-0042
						1.25" x 1.25"	12254-0039
1000P-X*	Electric on/off by solenoid located at pivot tower box*	-	<b>√</b>	solenoid at tower*	-	2" x 2"	12254-0037
						2" x 1.25"	12254-0043
						1.25" x 1.25"	12254-0040
1000P-RX*	Pressure regulating with electric on/off by solenoid located at pivot tower box*	<b>✓</b>	<b>√</b>	solenoid at tower*	5-60	2" x 2"	12254-0038
						2" x 1.25"	12254-0044
						1.25" x 1.25"	12254-0041

\*1000P-X and 1000P-RX models have electric on/ off capability, but do not include a solenoid. The solenoid is provided by others and typically is located at the last tower on the pivot.







1000P-X



1000P-RX



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