

## **NELSON**

#### Control Valves:

800 Series Valves 1000 Series Valves Air Control Valves

PN03221-123

## Durable.

40

50

60

PRESSURE REDUCING

UPSTREAM

DOWNSTREAM

VALVE

# Efficient.

Accurate.

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### **Premium Performance**

Not all valves are created equal. As a hydraulically operated sleeve-type valve, Nelson control valves are designed for reliable and efficient operation. There simply isn't any other valve with better hydraulic performance – from the smooth open/close, to the ultra-accurate pressure control pilot and high flow capacity. Every Nelson valve is custom built and is functionally tested before it goes out the door.









## **CONTROL VALVE FAMILY**

#### HYDRAULIC STABILITY

Nelson's complete line of control valves maintain optimum hydraulic performance in agricultural and industrial applications where reliability is key. Solutions include zone control, pressure control, flow control, and air control.



#### **800 SERIES**



Up to 200 psi (13.8 bar)

- 2" / 3" / 4" / 6" / 8"
- Aluminum / Cast Iron



**1000 SERIES** 

Up to 150 psi (10.3 bar)
2" / 3" / 4"
Glass-filled Nylon



#### **AIR CONTROL**



04

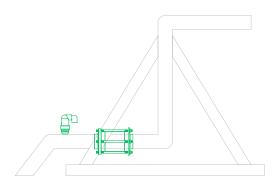
800 Series valves at pump station headworks. Washington, USA.

4

#### **Solutions**

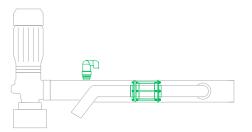
#### **PIVOT POINT**

Automate center pivots with pressure and/or flow control valves to prevent water hammer and pressure fluctuations.



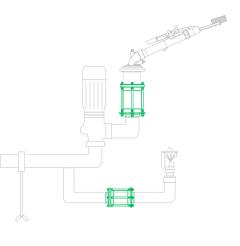
#### **PRESSURE RELIEF**

Protect the system with a pressure sustaining/relief valve that automatically opens when a pressure spike occurs.



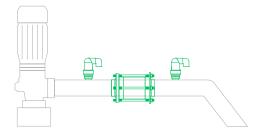
#### END GUN

Reliable primary or secondary end gun control valves.



PUMP

Maintain hydraulic stability with continuous acting air vents and a pressure sustaining and/or reducing valve.

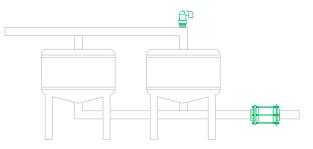


#### **BIG GUN®**

Control valves and TWIG® Wireless Controls make an automated solid set Big Gun® sprinkler system possible.

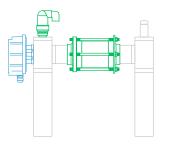
#### FILTER STATION

Get the air out with the ACV200, and use a pressure sustaining-normally open (PSNO) valve to provide optimum backflush pressure.



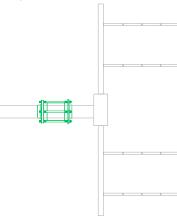
**ZONE CONTROL** 

Precision irrigation requires continuous acting air vents and TWIG® wireless automated hydraulic valves.



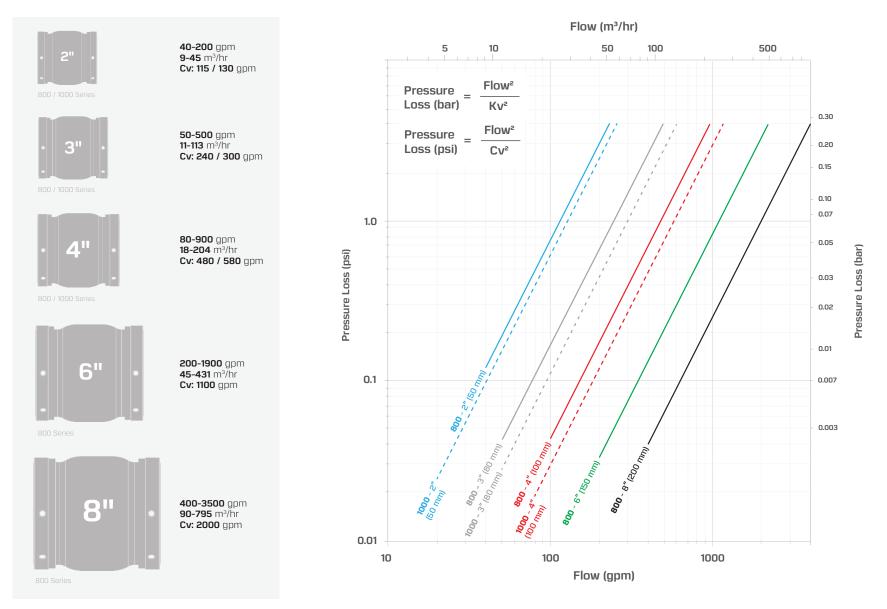
#### DRIP / LAYFLAT

Accurate and stable pressure reducing valves maintain a truly constant pressure at each block for total farm uniformity.



#### Efficient

HIGHEST FLOW CAPACITY AND LOWEST FRICTION LOSS



#### Accurate

#### STABLE, ACCURATE PRESSURE REGULATION OVER A WIDER FLOW RANGE

#### PILOT

The most accurate and responsive pressure control in the industry - trusted by irrigators, proven by science.

#### PROPORTIONAL THROTTLING

Smooth open/close and stable pressure regulation across a wide range of flows.



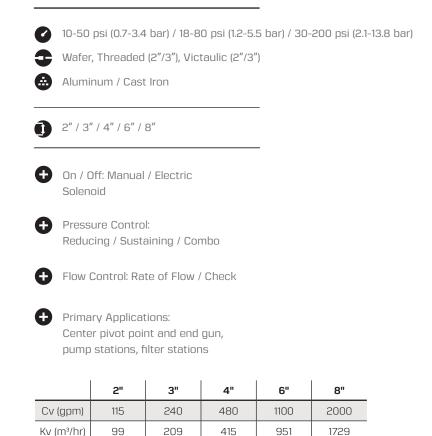
## **800**SERIES

#### INDUSTRIAL STRENGTH

The 800 Series Valve has set the standard in durability and efficiency since 1991. Used in industrial and agricultural applications alike, it is engineered for smooth open/ close and stable pressure regulation.



#### SPECIFICATIONS







Slow-fill pipelines with Rate of Flow control



Protect against rodents and coyotes.



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NELSON IRRIGATION

- CONTROL VALVES

## **1000** SERIES

#### ENGINEERED ACCURACY

The 1000 Series excels in zone control where precision regulation and energy efficiency are critical. The single-cage design is resistant to plugging and is easy to clean.



#### SPECIFICATIONS





FEATURES

#### PRESSURE CONTROL

Accurate 3-way plastic pilot



**TEE / ELBOW** For Certa-Set<sup>®</sup> systems



TWIG<sup>®</sup> WIRELESS Simple and reliable automation.



NELSON IRRIGATION

- CONTROL VALVES

## **ACV**200

#### PROTECT YOUR INVESTMENT

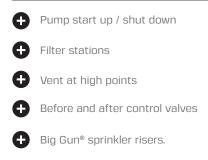
Entrapped air wreaks havoc on irrigation systems by causing water hammer and pressure fluctuations. Rely on the ACV200 for continuous air relief under pressure when standard air vents slam closed.



#### SPECIFICATIONS



#### APPLICATIONS





NELSON IRRIGATION - CONTROL VALVES

## CONTROL VALVES

#### **NELSON**

#### **NELSON IRRIGATION CORPORATION**

848 Airport Road Walla Walla, WA 99362, USA Tel: +1 509-525-7660 nelsonirrigation.com info@nelsonirrigation.com

#### NELSON AUSTRALIA

20 Macadam Street Seventeen Mile Rocks, QLD 4073 Tel: +61 7 3715 8555 nelsonirrigation.com.au info@nelsonirrigation.com.au

#### **NELSON IRRIGAÇÃO BRASIL**

Rua Benedita Mano Schincariol 110. Mogi Mirim, SP. Brasil Tel: +55 19 3806 5987 nelsonirrigation.com.br info@nelsonirrigation.com.br

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Contact factory for complete list of materials and specifications

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