





Design Concepts

Eaton's Carter product line includes a variety of inline and bypass control valves. Models 64504 and 64514 Inline Control Valves and Models 64505 and 64515 Bypass Control Valves are used in Eaton's Digital Pressure Control System.

All of Eaton's digitally controlled valves utilize the same control module. Differences are based on the orientation of the solenoids on the control module block and the size of the valve housing between the 3 and 4-inch bodies. Most of the seals and internal parts of the bodies are the same.

These new valves can be used with Eaton's first generation Model 64035 (Digital I) Digital Control System or with the newer Model 64235 (Digital II) control system with hand-held unit, transducers, remote displays, etc. Detailed descriptions of components used in these systems are covered in the Model 64235 brochure (TF100-104).

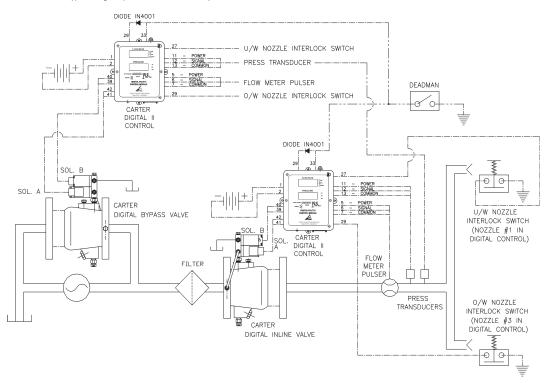
The unique design features of Eaton's Carter Digital Control Systems make conversion from a standard air set system to a digital system easy. See Model 64235 brochure (TF100-104) for detailed description of the advantages offered by Eaton's digital control systems.

Features

- Standard 150 lb ANSI inlet and outlet flanges
- · Victaulic adapters available
- Bleeder on module block facilitates simple bleeding of air from the valve — no venting is required once proper bleeding is accomplished
- Opening and closing times can be changed during the system setup on the digital control module
- No expensive servos to adjust
- Spare parts required for maintenance kept to a minimum due to lack of complicated servos. Many parts are common both bypass and inline valves of same size.
- Many spares common to Eaton hydrant couplers

Digital Control Systems

Schematic of a typical digitally controlled refueler system



Ordering Data

All four valves have four available options (shown at right) to be added to the basic part number when desired.

Option	Description
А	12 VDC operation
В	24 VDC operation
D	Adds one victaulic adapter
Е	Adds two victaulic adapters

Note: It is not recommended to use Option E on a valve without additional support to keep it from turning in the piping

Operating Characteristics

	64504/64505 — 3-inch	64514/64515 — 4-inch
Working Pressure	Up to 200 psi (13.793 bar)	Up to 200 psi (13.793 bar)
Rated Flow	Up to 800 gpm (3028 I/min)	Up to 1200 gpm (4542 I/min)
Pressure Drop	4.9 psi (.338 bar) @ 600 gpm (2271 l/min)	4.3 psi (.296 bar) @ 1000 gpm (3785 l/min)
Pressure Control, Overshoot, Opening & Closing Times	Controlled by digital system	Controlled by digital system
Repeatability	±3 psi (.207 bar)	±3 psi (.207 bar)
Surge Control	Controlled by digital system	Controlled by digital system
Operating Temperature	-40°F to +125°F (-40°C to +52°C)	-40°F to +125°F (-40°C to +52°C)

Envelope Dimensions

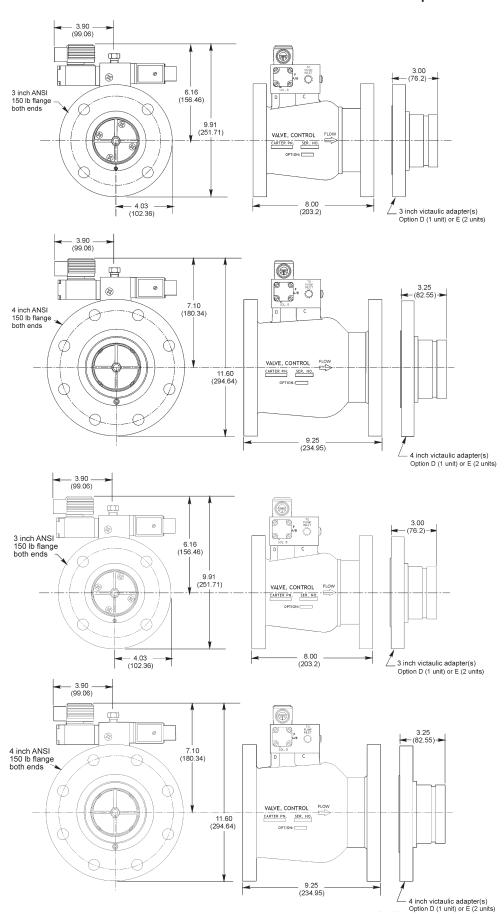
Dimensions shown in inches (millimeters)

Model 64504

Model 64514

Model 64505

Model 64515



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