

ACCESSORY

On-Off Accelerator

REF **EFC-405** ISSUED 15 Jun 2026

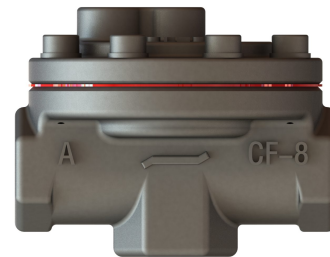
SPECIFICATIONS

APPROVALS & CERTIFICATIONS

- ISO 9001

APPLICATIONS

- Fast-response isolation
- Pump control
- Emergency shutoff
- SCADA-controlled valves



FEATURES

- The on-off accelerator is a pilot accessory that increases the speed of hydraulic control valve operation by providing a large-volume rapid flow path in the pilot circuit during the opening or closing stroke
- Used on slow-acting control valves where faster response is needed, while still maintaining controllable stroke rates to prevent water hammer
- The adjustable orifice allows stroke rate to be tuned to the specific installation

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SECTION Technical drawing 1 REF EFC-405

FIG BT113-12

Solenoid On/Off (Open/Close)

Operated by a 3-way solenoid, the main valve opens fully or closed drip-tight depending upon the actuation position of the solenoid, energized to open/energized to close. The valve may be remotely operated by timers, relays, probes or any triggered device to the solenoid. The valve can be operated with 2 x 2-way solenoids for modulating control from a PLC.

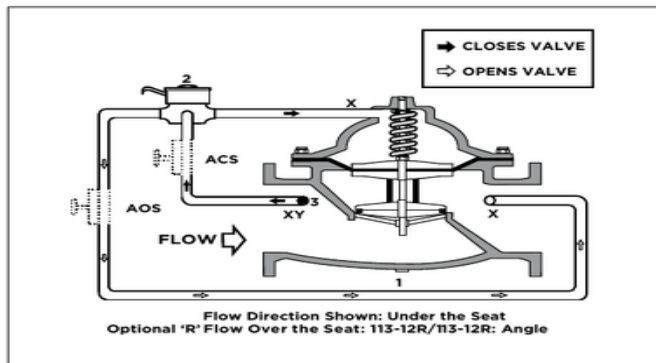
NOTE:

Energized to open valve.
Optional: energized to close valve.
At time of order, advise our factory manager of your system working pressure for correct solenoid selection.
110-220 VAC, 50-60 Hz standard
Optional: specify voltage required.
Enclosure General Purpose (NEMA 1,2,3,3S,4,4X)
Optional: explosion proof (NEMA 3,3S,4,4X,6,6P,9)
Manual operator standard
Optional: Opening and/or closing speed.

Quick Sizing: Valve size same as line or one size smaller.

Points to consider:

- Refer to Engineering Data - Flow Capacity Chart
- Pressures drop at required flow
- Refer to Engineering Data - Pressure Drop Chart



VALVE FUNCTION

- Electrically operated on/off (open/close) control valves

COMPONENTS

1. Main Valve
2. 3-Way Solenoid
3. Flo-Clean Strainer

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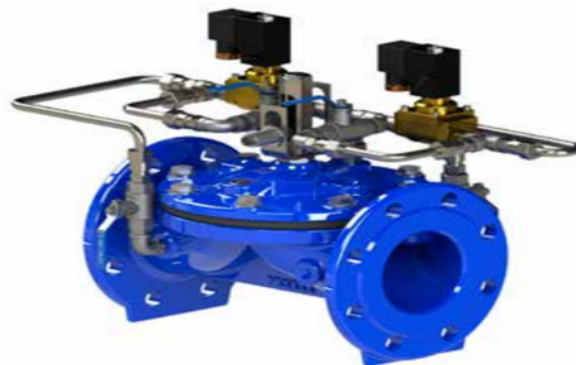
Located as indicated
Included as marked

- X - Isolation Cocks
- Y - Y Strainer (Eliminates Flo-Clean)
- ACS - Adj. Closing Speed
- AOS - Adj. Opening Speed

Fig BT113-dual

Dual Solenoid Control

This configuration has 2 x solenoids and which enables the valve to be used as Electronic Control valve. Each solenoid is individually Energised to "step" the valve into the appropriate position as governed by the client's PLC or other Electronic controller. This is a successful and inexpensive method to achieve accurate control without expensive actuators as the valve is driven by the fluid it's controlling



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SECTION Dimensions per size REF EFC-405

SIZE	L
DN50	230
DN65	290
DN80	310
DN100	350
DN125	400
DN150	480
DN200	600
DN250	730
DN300	850
DN350	980
DN400	1100
DN450	1200
DN500	1250
DN600	1450
DN700	1650
DN800	1850

All dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.