

WOODFIELD

**DIGITAL
CONTROL VALVE**



WOODFIELD DIGITAL CONTROL VALVE



MODEL : WCLV Series

Our Digital Flow Control Valve (WCLV) is an electro-hydraulic valve that is electrically actuated and hydraulically operated. Paired with batch controllers, these are used in batching operations for loading and unloading tank trucks and rail cars. These digital valves are ideal for petroleum, petrochemical, and chemical applications.

DESIGN FEATURES

- Fail safe (to close) design
- Precise multistage operation
- Low pressure drop
- Leakage Class VI sealing

APPLICATIONS

- Wagon/Truck Loading & Unloading
- Pumping and Unloading

OPERATION

WCLV - consist of diaphragm operated Globe valve with two Solenoid valves, one of them configured in normally open (NO) condition and other configured to normally closed (NC) condition, installed in upstream and downstream position respectively.

When WCLV, is operated with batch controller, it can be digitally controlled by operation of Solenoid valves with below mentioned stages:

1. When NO and NC both solenoids are energized, valve start opening.
2. When NC solenoid is de-energized (NO kept energized) valves holds its position.
3. When NO and NC both solenoid de-energized, valve is closed.

PRODUCT SPECIFICATIONS:

TYPE / MODEL	WCLV SERIES
Sizes available (DN)	50NB, 80NB, 100NB.
End connection	Flanged as per ANSI B 16.5, 150 # RF, Optional 300# or as required
Design standard	ASME B 16.34
Testing standard	ANSI FCI 70.2 / ANSI B 16.104 Class VI
Flow ranges	50 NB: 500 LPM (30 m3/hr) 80 NB: 1500 LPM (80 m3/hr) 100 NB: 2400 LPM (144 m3/hr)
Design pressure	150 # (300 # on request)
Operating Pressure range	2-10 bar
Operating temperature range	-20 Deg C to 150 Deg C
Fluid viscosity	60 mPas (cP)
Material of Construction	<ul style="list-style-type: none"> • Body / Bonnet: Carbon steel A 216 WCB/ A 350 LCB/ Stainless Steel CF8/CF8M • Trim (Seat ring, plug and stem): Stainless steel 316 and others as required. • Spring: ASTM A 313 (17-7 PH) and others as required • Diaphragm and seals: Viton B/Viton GFLT/FFKM and others as required. • Tubes & fittings: Stainless steel 316.
Solenoid Valve details	<ul style="list-style-type: none"> • Body: Stainless steel 316 • Enclosure: Die Cast Aluminum Explosion Proof & Weather proof IP 65 for various hazardous zone certified by PESO/ATEX/IECEX • Supply voltage: 24 VDC, 120 VAC, 240 VAC through Batch controller • Cable Entry: 2 nos.

