CONTROL seal

valve manufacturer

FOUR WAY DIVERTER VALVE

www.controlseal.com

Diverter plug valve

Space reduction / Fast operation

Size	1” ~ 24”
Bore	Reduced or full (piggable)
Pressure	150# ~ 900#
Temperature	-196°C ~ 250°C
Connections	Wide choice on request
Materials	Wide choice on request

GENERAL INFORMATION

The Four Way Diverter Valve was developed for strict requirements of bi-directional meter proving. The following must be secured:

• Frequent operation
Can be cycled over 300 times per day

• Rapid operation
Cycles in 4-10 seconds in meter proving systems

• Provable zero leakage
100% tight shut off is proven during each run

Characteristics:
- 100% tight shut off - provable
- Friction-free opening and closing
- Mechanically energized sealing
- Self-cleaning
- In-line service
- Stem packing exchange while under full pressure in service
- Vertical or horizontal installation

APPLICATIONS

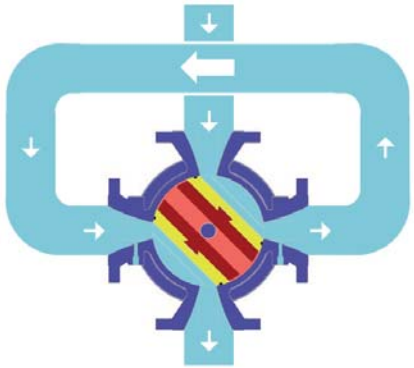
Bi-directional meter prover

Airport fueling systems
Metering systems for gas and oil
Tank storage
Fuel loading services
Multi-product mannifolds
Transport pipelines
Hydrocarbon services

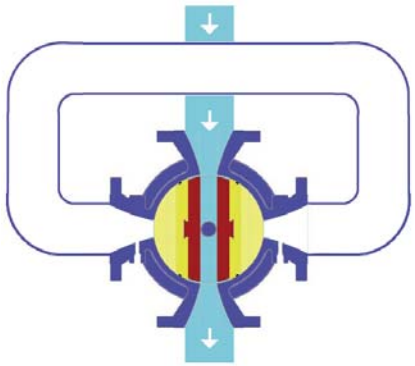
HOW 4WDV WORKS

Diverting flow into different directions:

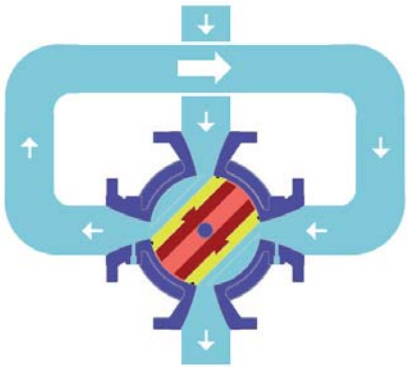
Seated in R/L-Close Position



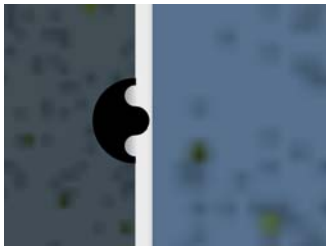
Neutral position



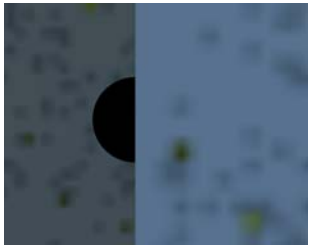
Seated in L/R-Close Position



RESILIENT SEAL



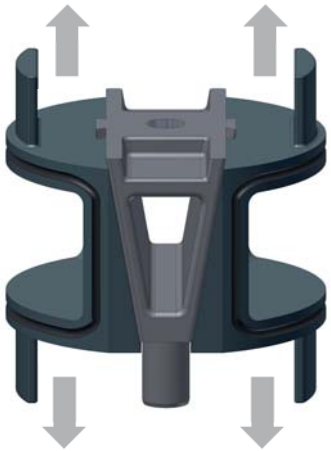
Slips are retracted from the body prior to the rotation preventing friction and damage.



Slips move perpendicularly against the body sealing area and the soft seals are compressed in order to make perfect sealing.
Metal-to-Metal secondary seating prevents over compression
of the resilient primary seal.

IN-LINE MAINTENANCE

Option 1: Slips exchange from the top



Maintenance can be done when valve in line, without disturbing the actuator.

Option 2: Slips exchange from the bottom

SEAL INTEGRITY

Two methods for proving the seal integrity and ensuring metering accuracy are available:

Automatic pressure gauge - for local monitoring

Differential pressure switch - for remote monitoring and with possibility to interfere with other electrical devices

ACTUATION

The most usual ways of actuatoion are gear operated, hydraulic actuator and electric actuator. Optional accessories e.g. position indicators available on request.

DESIGN STANDARDS

Design	API 6D, ASME B16.34
Face to Face dimensions	API 6D
Flanges	ASME B16.5
Testing	ISO 10497, API 6FA, BS 6755
Topworks	ISO 5210

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