

**FOUR WAY
DIVERTER
VALVE**



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.

• 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 manifolds

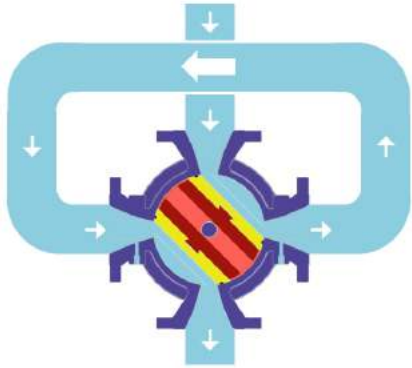
Transport pipelines

Hydrocarbon services

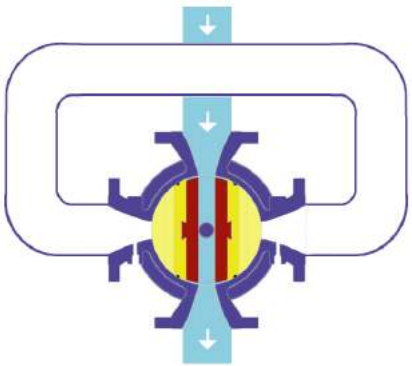
HOW 4WDV WORKS

Diverting flow into different directions:

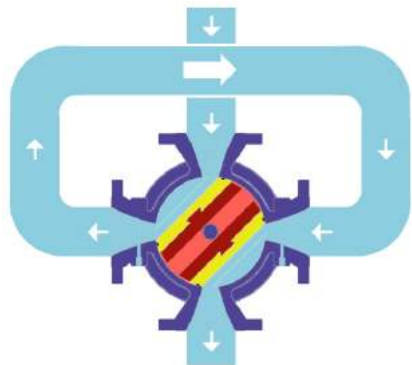
Seated in R/L-Close Position



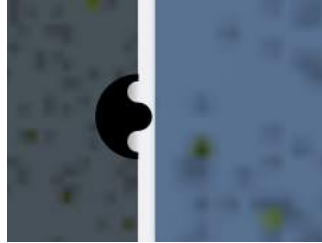
Neutral position



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, the soft seals are then 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: Slip exchanging from the top



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

Option 2: Slip exchanging from the bottom

SEAL INTEGRITY

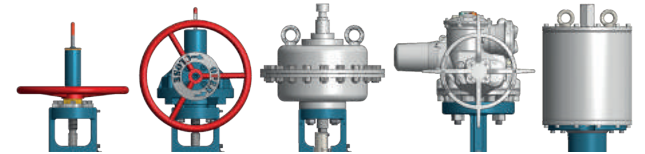
Two methods for proving the seal integrity and ensuring metering accuracy are available:

Automatic pressure gauge - for local monitoring

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

ACTUATION

The most usual ways of operation are gear operated, hydraulic actuated and electric actuated. 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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