

**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**

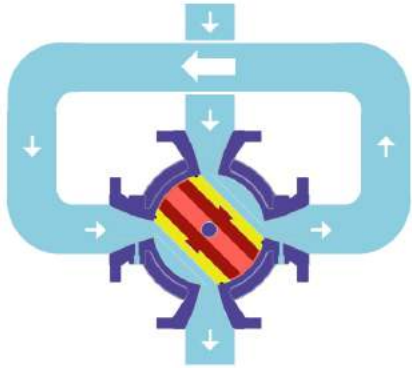
**Transport pipelines**

**Hydrocarbon services**

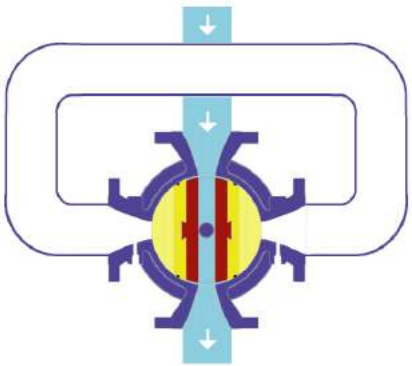
## HOW 4WDV WORKS

### Diverting flow into different directions:

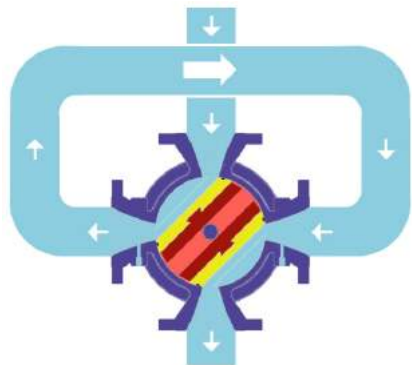
Seated in R/L-Close Position



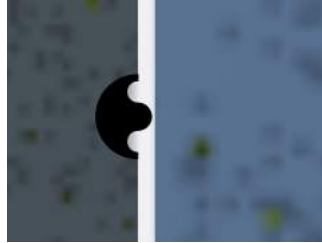
Neutral position



Seated in L/R-Close Position



## RESILIENT SEAL



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



Slips move erpendicular-ly 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

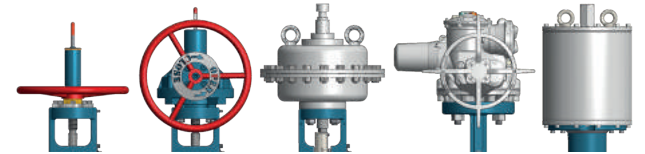
Two methods for proving the seal integrity and ensuring metering accuracy are available:

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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