

DV-4 Switch Valve for Delayed Cokers

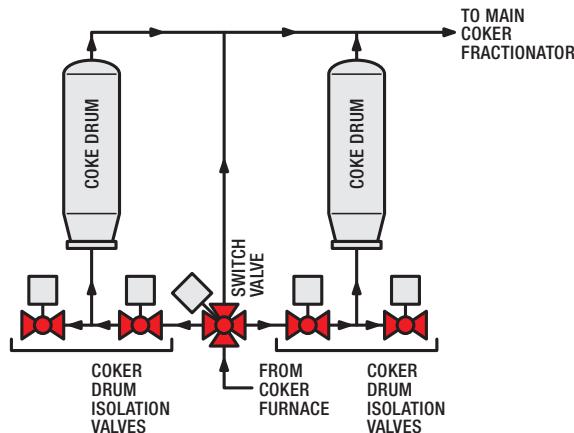
DATA SHEET

Increased reliability. Increased run time.

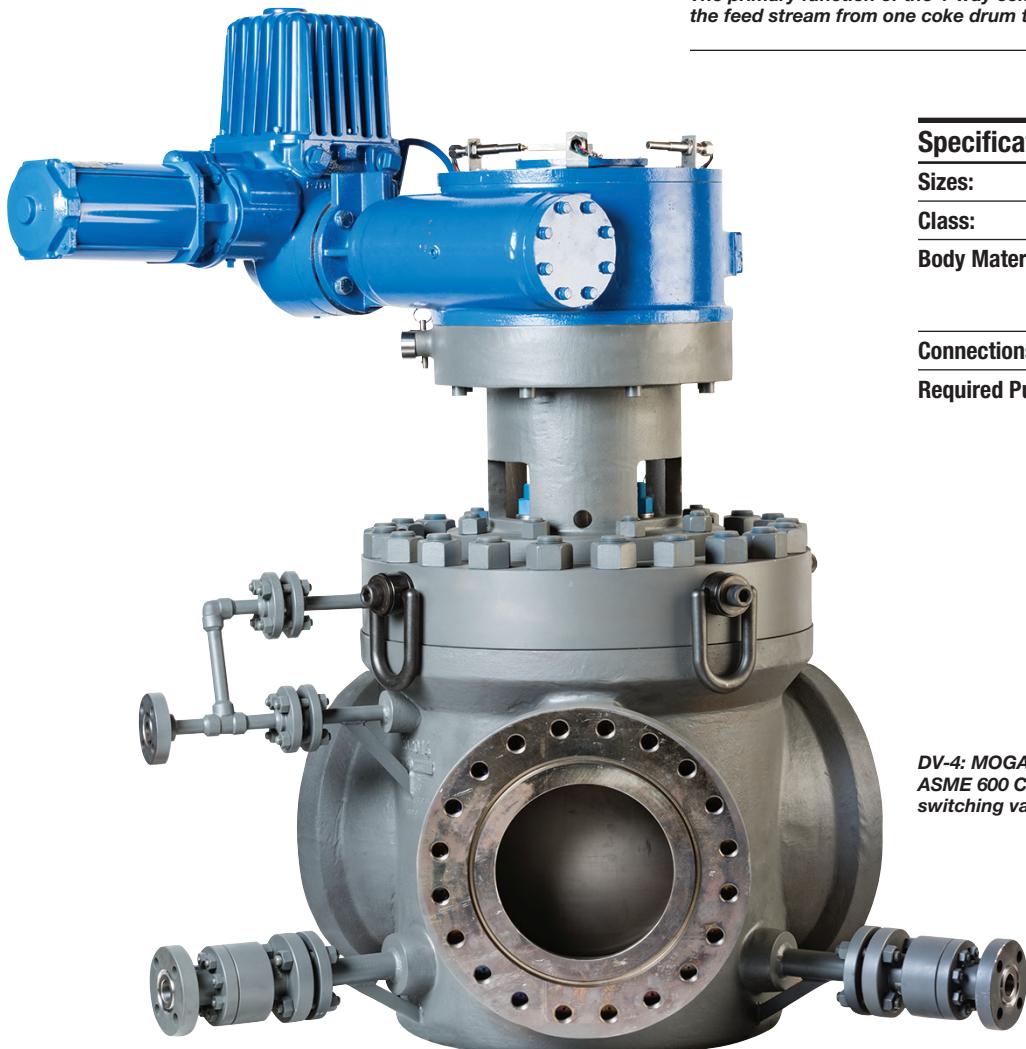
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As the dominant severe service technology company, MOGAS' strength is recognized in the harsh environments where reliability, durability and safety are the foundation of successful plant processes.

The DV-4 switch valve features many advantages over existing ball or plug valves on the market today. Backed by innovative R&D, world renowned after sales service and a reputation for quality, the DV-4 represents product advancements in delayed coking switching operations.



The primary function of the 4-way coke drum switching valve is to divert the feed stream from one coke drum to the other.



Specifications

Sizes:	6 to 16 in (150 to 400 dn)
Class:	ASME 600 / 900 Class
Body Material:	A217-C12, A217-C12A, A351-CF8M, A182-F9, A182-F91, A182-F316
Connections:	RFF or RTJ
Required Purge:	Type II (Body), Type III (Drain)

DV-4: MOGAS 12-inch, ASME 600 Class, 4-way switching valve

DV-4 Switch Valve

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Features and Benefits

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1 Patent-pending oversized outlet

- Reduces backpressure and coke accumulation in heater by maintaining 90 to 100% flowrate during switching (compared to less than competitor's 60%)

2 Semi-trunnion (sleeve and seat ring supports ball)

- Maintains alignment and equalizes wiping forces
- Prevents uneven seat loading and leakage
- Lowers steam consumption by sealing body cavity
- Keeps process media out of body cavity
- Reduces torque

3 Belleville springs with seat rings

- Lowers steam consumption by eliminating bellow spring purge inlets
- Eliminates prone-to-fouling bellow springs

4 Optimized purge system

- Simplifies installation using manifolds for two purge inlets and two purge outlets
 - one packing purge
 - three body purges
 - two drain purges
- Increases switching reliability via body cavity flushing; evacuates body cavity media before and after switching using purge outlets
- Lowers steam consumption; appreciable steam consumption only during switching and body cavity flushing

5 Integral flange connections

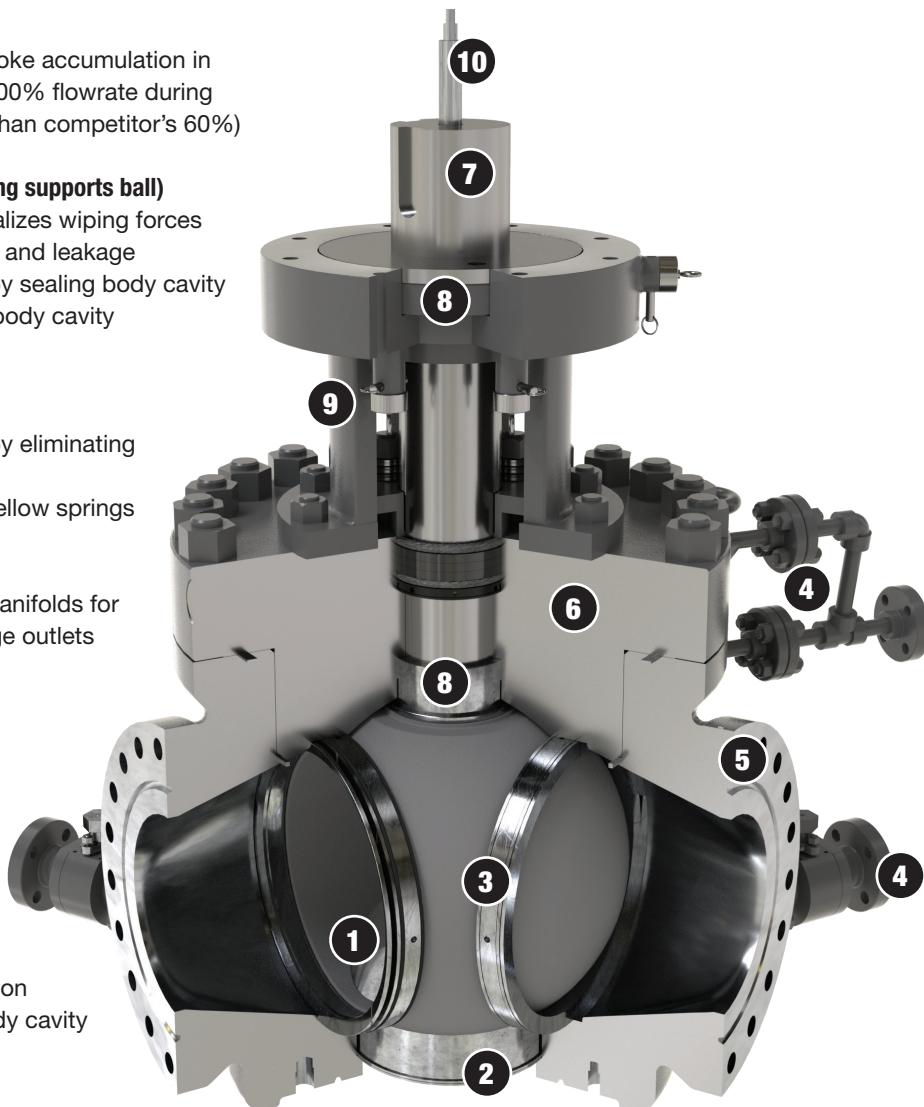
- Prevents lock-up of the valve due to pipe loads (especially at warm up) because the seats are not coupled to the end flanges

6 Patent-pending bonnet

- Reduces area for coke build-up
- Simplifies repair and trim replacement via true top entry design

7 Patent-pending two-piece stem adaptor

- Prevents stem and actuator damage using sacrificial pins



8 Dual stem guides

- Prevents misalignment and packing leaks due to side loads

9 Extended mounting bracket

- Allows room for ease of packing maintenance
- Prevents electric motor and gear from high temperature exposure

10 External stem extension rod

- Indicates true flow and ball bore position
- Verifies flow direction with actuator removed