DuEX

Uniquely designed for
Crude Unit Preflash Isolation

- **Tight Shut-Off**
- **Full bore**
- **Cavity Free**
- **Bi-directional**
- **Engineered for Critical Applications**

Preflash Crude

Valves which isolate the preflash drums or towers frequently open to an empty pipe. Fluctuating temperatures cause other valve types to seize or stick in the closed position. Over pressure in the backseat bonnet area frequently results in bonnet leaks. Temperatures range from 300°F to 500°F.

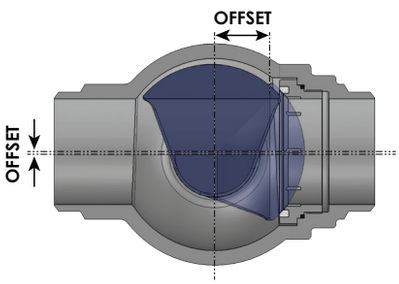
OMB DuEX eccentric ball valve, with its simple ¼ turn design and few moving parts, has consistent torque and shut-off performance. The cavity free single seat design ensures no over pressure is possible from trapped media thereby eliminating bonnet leaks to atmosphere.

Design

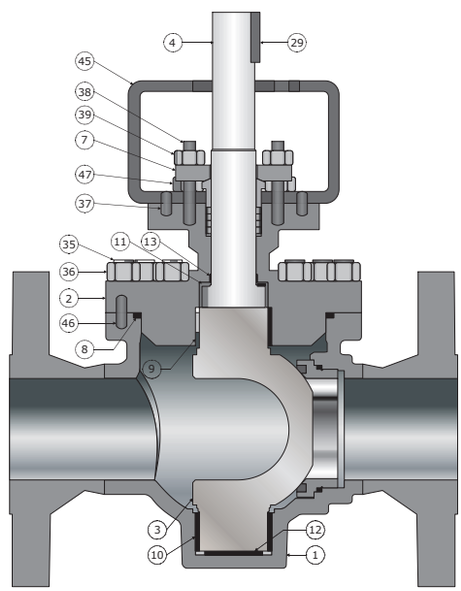
Design to ASME B16.34 &
ASME VIII Div.1
ATEX EX II 2G
PED Certificate III Cat.
Firesafe to API 607, ISO 10497

Construction

Top Entry Construction
DN from ½" to 24"
ASME Class 150 to 2500
(Special cl. on request)
Flanged & BW ½" to 24", SW ½" to 2"
Manual or easily actuated with standard readily available actuators.



Materials



Part	Description	Carbon Steel
1	Body	WCB
2	Bonnet	WCB
3	Ball	410SS+CCC
4	Stem	410SS
5A	Seat Ring	410SS+CCC
5C	Seat Seal	Graphite
8	Gaskets	Graphite
9,10	Bearings	316SS+HF
12	Thrust Bearing	316SS+HF
14	Packing	Graphite
38,39	External Fasteners	B7M/2H

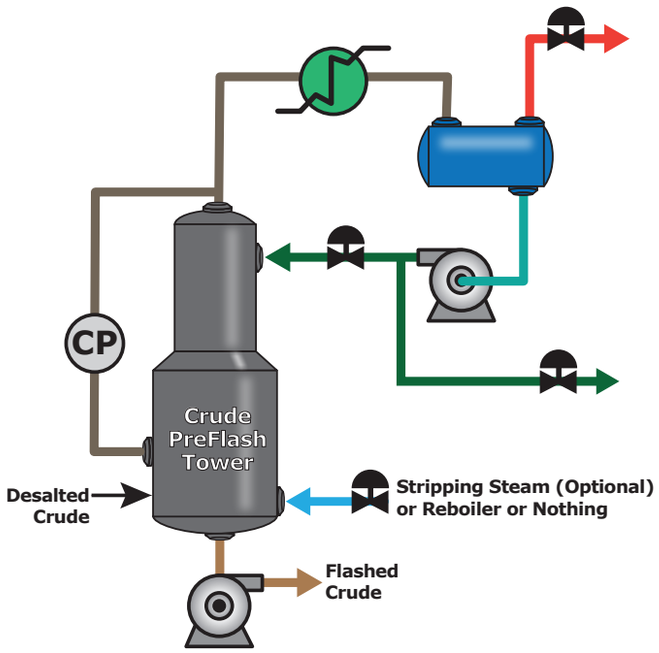
OMB wherever energy flows

Crude Unit
Preflash Drum/Tower Isolation

A preflash drum or tower vaporizes lighter components and some water before the crude reaches the atmospheric tower charge furnace. Positioned between the desalter and the crude atmospheric tower, they manage crude flow, enhance unit design, increase capacity, or enable processing of lighter crudes.

Multiple drums or towers can provide the preflash to the distillation tower.

The drums are interconnected and also directly connected to the distillation tower giving flexibility to the amount of preflash provided to the distillation tower.



Historical Valve Type Used	Gate Valve
Weakness/ Failure Point	Bonnet leaks from pressure build up in back seat area. Bypass can become clogged.

OMB Solution	DueX Eccentric Ball Valve
Typical BOM	Body: Carbon Steel Trim:12 Chrome + HF
Typical Sizes	8”-16” Class 300 & 600
Typical Figure Number	DuEX® ACT-D-3TCF-RF
Automation Type	Manual Gear Operated

Features	DuEX	Rising Stem Ball
Cavity Free	✔	
Easy Maintenance	✔	
Eccentric/Non-Rubbing	✔	
Torque Seated	✔	✔
Simple Automation	✔	
Simple Design	✔	✔
Control Ability	✔	
Low Running Torque	✔	

OMB wherever energy flows

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