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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
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ЗАТВОРЫ

ТРЕХЭКСЦЕНТРИКОВЫЕ

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



TOD

Metal to metal sealing

Bi-directional tight shut-off.

/ Achieved by introducing triple offset sealing technology.

Triple offset design with inclined conical sealing system.

/ Eliminates rubbing and jamming associated with sealing surface contact.

Laminated metal or solid metal seat.

No fasteners on disc, one piece. structure.

Provides the non-friction motion.

About Triple Offset Valve

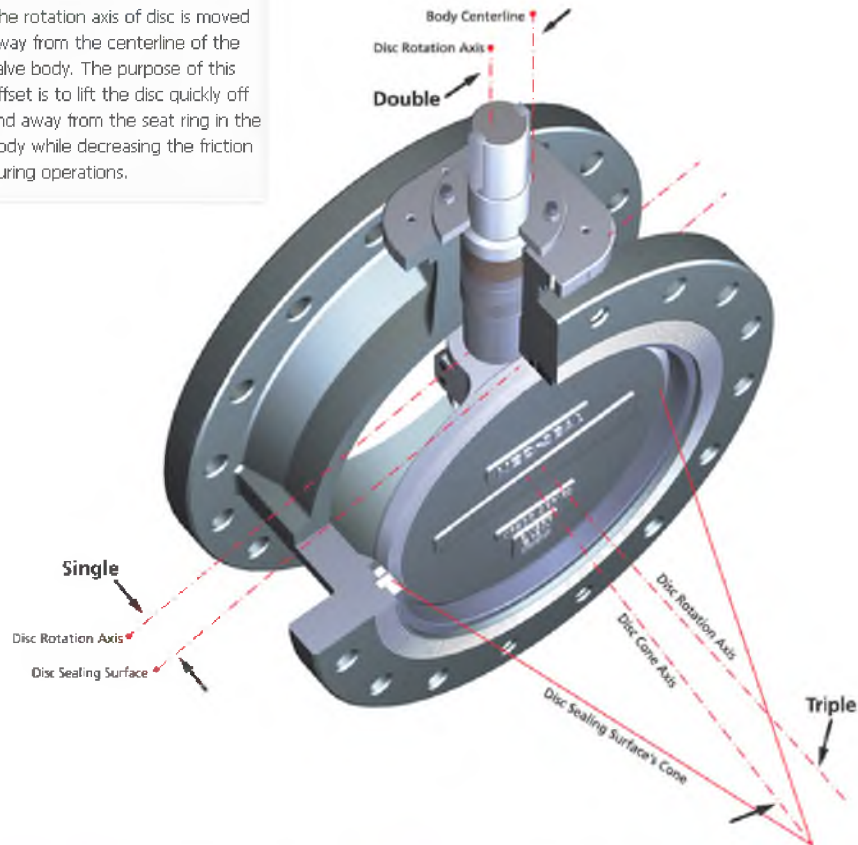
It is generally known that there exist many problems with the design of double offset metal seat in terms of its long service life for the bubble tight shut-off mechanism. In order to overcome those problems, Unicorn is now introducing triple offset metal seated valves. It features a special sealing mechanism, which consists of contacts of an inclined and conical disc with a laminated seat.

In result, the friction and abrasion between sealing elements (disc and seat) are minimized.

The most unique feature of this design is that it can provide low torque, broad sealing width and bi-directional tight shut-off

Double offset

The rotation axis of disc is moved away from the centerline of the valve body. The purpose of this offset is to lift the disc quickly off and away from the seat ring in the body while decreasing the friction during operations.



Single offset

The rotation axis of disc is moved back from the sealing surfaces of disc. The purpose of this offset is to have a continuous sealing surface on the disc.

Triple offset

The virtual conic axis, extended from the sealing surfaces of disc is inclined from the rotation axis of disc.

The purpose of this offset is to eliminate friction, galling and wear generated at the sealing surface during operations and provide bubble tight shut-off on high pressure and temperature.

Sealing System

Principle of sealing System

Most of metal seats in double offset design are designed for sealing with a mechanism, which depresses the smooth side of the metal seat between the sealing elements (disc and seat). This type of mechanism, by using sudden torque, can cause galling and scratches on the sealing elements. It can possibly cause jamming between the sealing element, which can lead to a malfunction of a valve.

This is where triple offset valves are superior to double offset design valves.



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