Cowinns triple offset high pressure and high temperature metal to metal seat butterfly valve can be used in petrochemical plants, fossil power plants, LNG, pulp and paper, unclear power plants and petroleum refining.

Design standard according to API609

Body material:904LB

Pressure:1500LB

Size:8''

Wafer end

Metal to metal seat

Features:

Metal to metal seated and triple offset quarter-turn design

Bi-directional tight shutoff

Zero leakage

Design with fire safety and can be offered fire test

Mediums: Process fluids, hydrocarbons, Steam or Geothermal steam, hot gas or sour gas etc.

Temperature limits: From -196°C (-320°F) up to +818°C (+1600°F).

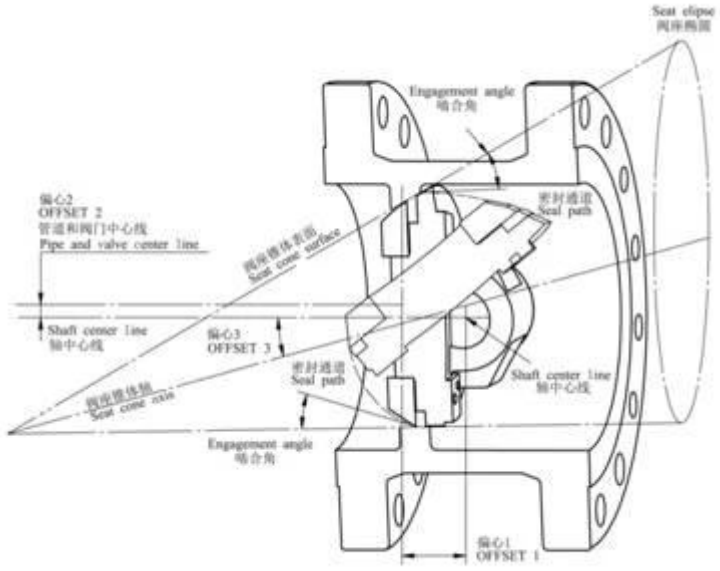
Instruction for triple offset structure:

1.Offset one :The shaft is offset behind the seat axis to allow complete sealing contact around the entire seat.

2.Offet two :The shaft centerline is offset from the pipe and valve which provides interference free opening and closing of the valve

3.Offset three :The seat cone axis is offset from the shaft centerline to eliminate friction during closing and opening and to achieve uniform compressive sealing around the entire seat.

Triple offset butterfly valve body structure drawing


Seat elipse
阀座椭圆
Engagement angle
啮合角
密封通道
Seal path
偏心2
OFFSET 2
管道和阀门中心线
Pipe and valve center line
阀座锥体表面
Seat cone surface
Shaft conner line
轴中心线
偏心3
OFFSET 3
密封通道
Seal path
Shaft center line
轴中心线
阀座锥体轴
Seat cone axis
Engagement angle
啮合角
偏心1
OFFSET 1