

## SDVT

### METAL BELLOWS SEALS FOR CHEMICAL APPLICATIONS

#### Description

Cartridge dual welded metal bellows mechanical seals of SDVT family are mainly designed for highly aggressive fluids at petrochemical and chemical plants.

**SDVT seal family seals are used for the same applications as the followings seals:**

**MFL65N** by Burgmann Germany

**BH/BXW** by Flowserve, USA

**670/680/676** by John Crane, USA

#### Advantages

- Due to metal bellows there is not a single dynamic o-ring. Inexpensive chemically resistant static o-rings can be used to cut the costs
- May be designed without any o-rings
- Hydraulically optimized for low heat generation

Materials	
Metal bellows	Inconel 718 Alloy 276 AM350 Other
Seal faces	Tungsten carbide, Silicon carbide, Carbon
Secondary seals	Flexible graphite, Teflon, kalrez
Metal parts	SS304 SS316 Special alloys

Technical data	
Temperature	From -70 up to +260°C
Pressure	Up to 20 bar
Velocity	Up to 25 m/sec

Recommened API plans for SDVT seal			
API Plan (per API 682)	Description	Application guidelines	Auxiliary utility
52	Non-pressurized external fluid reservoir with forced circulation	Most of combustibile and chemically aggressive fluids, alcohols, solvents, MEK, ethanalamine, etc	Barrier fluid tank with heat exchanger SO-1, SO-3 or SO-5 with auxiliary valves

#### All of the above systems can be supplied with:

- Level sensors/indicators
- pressure switch
- temperature sensor
- safety valve
- ball valves
- and other I&C devices and valves

