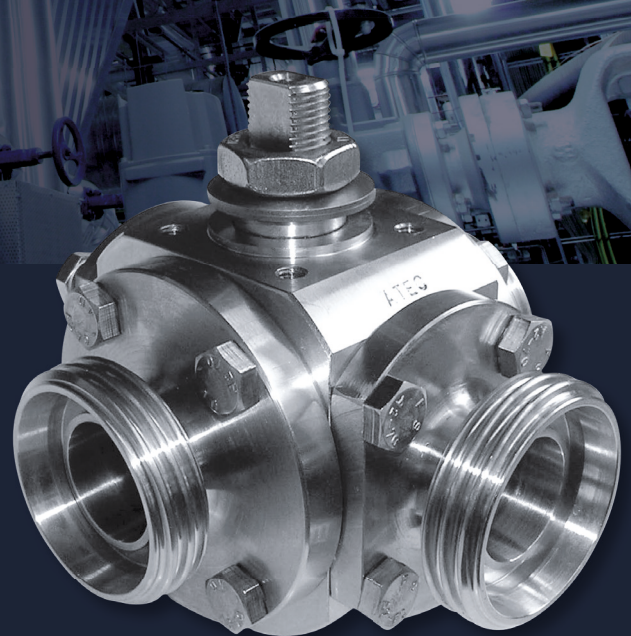


## SPECIAL-BALL-VALVE **TYPE MW**

### **CAVITY FREE MULTI WAY BALL-VALVE**

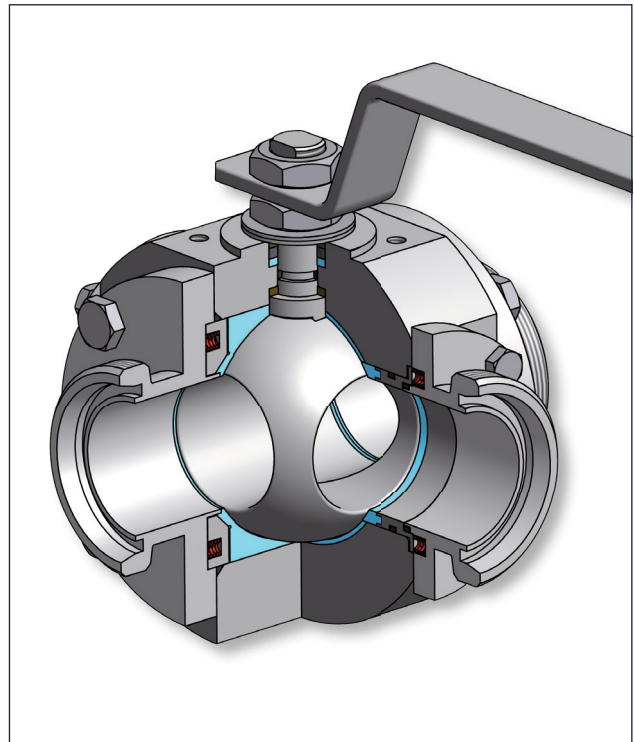
- > Cavity free
- > All-side sealed
- > Spring loaded sealing system
- > Ball with T- or L-shape bore
- > Blowout proof stem

Size 1" to 4"  
Pressure to 150 lbs/sq.in.  
Temperature -50°C to +180°C



Results.  
No experiments.

# CAVITY FREE MULTI WAY BALL-VALVE



## Applicable to:

Gaseous media, fluid, emulsion, syrup, paste, granulate, powder, food, etc.

## Operating conditions:

max. 180°C, max. 16 bar  
Suitable for vacuum service.  
Exceeding parameters on request.

## Design:

Cavity free, specific spring-loaded sealing system on all sides, sealing pressure adjustable by means of coil springs, blowout proof stem, ball with T- or L-shape bore.

## Standard Material:

AISI 316L, AISI 316Ti; Hastelloy C22, Hastelloy C4, Duplex, Titan etc.  
Ball seal: PTFE / 25% glass with FDA conformity.  
O-Ring: Viton, EPDM, FEP and Kalrez with FDA conformities  
Springs: AISI 316 Ti  
Further material available on request.

## Optional:

TA- Luft  
Heating jacket  
Sizes up to 10"  
Temperature up to +500°C  
Pressure up to 1500 lbs./sq.in.  
Metallic sealing system

## Connections:

Flange acc. to EN 1092-1 or ANSI B16.5  
Thread acc. to DIN11851  
Clamp acc. to DIN 32676  
Weld end acc. to DIN 11850

## Certificates:

TA-Luft  
FDA-Conformity  
Acceptance test certificate acc. to DIN EN 10204-3.1  
BSE / TSE free  
PMI  
ATEX/94/9/EC

## Tightness test:

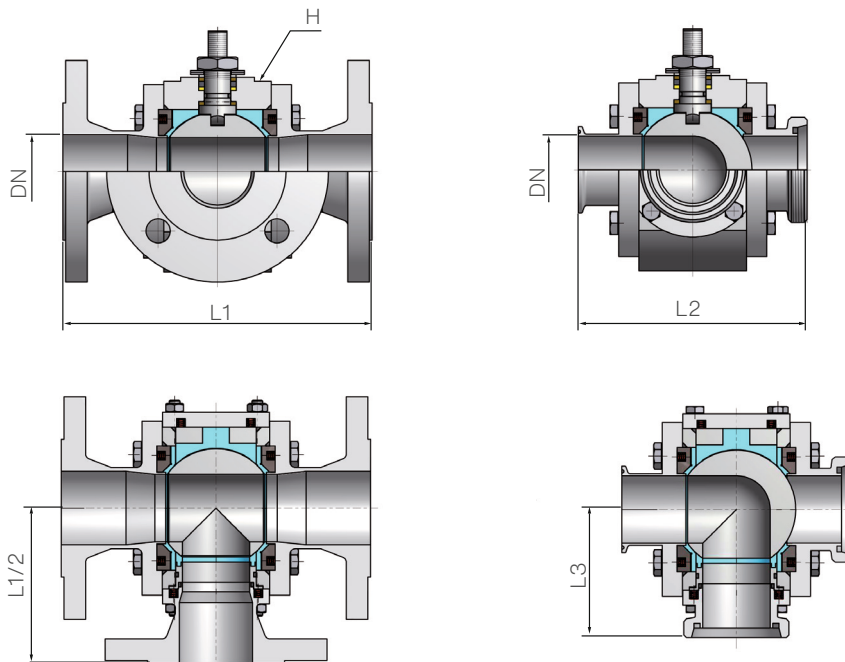
API598

## Actuator mounting flange:

Acc. to DIN3337 / ISO 5211



## ATEC mating dimensions

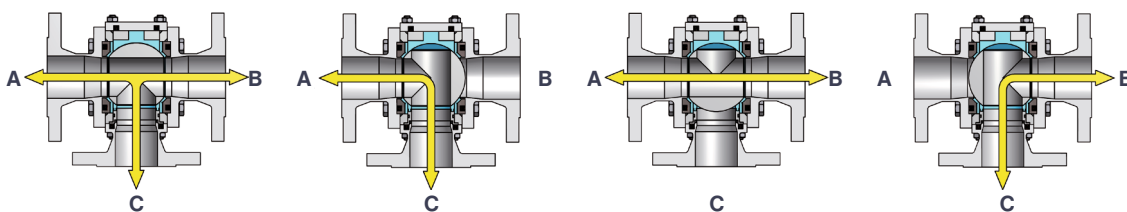


| DN  | L1  | L1/2 | L2       | L3        | H   |
|-----|-----|------|----------|-----------|-----|
| 15  | 140 | 80   | 100/120* | 65        | F04 |
| 25  | 160 | 80   | 120      | 71        | F04 |
| 40  | 200 | 100  | 160      | 87        | F05 |
| 50  | 230 | 115  | 170      | 95        | F05 |
| 65  | 290 | 145  | 200      | 100/110** | F07 |
| 80  | 310 | 156  | 230      | 125       | F07 |
| 100 | 350 | 175  | 270      | 135       | F10 |

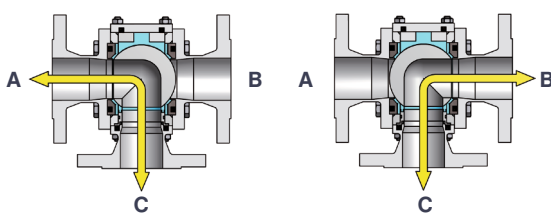
\* L2 for thread acc. to DIN 11851

\*\* L3 for thread acc. to DIN 11851

### Ballposition with T-Ball

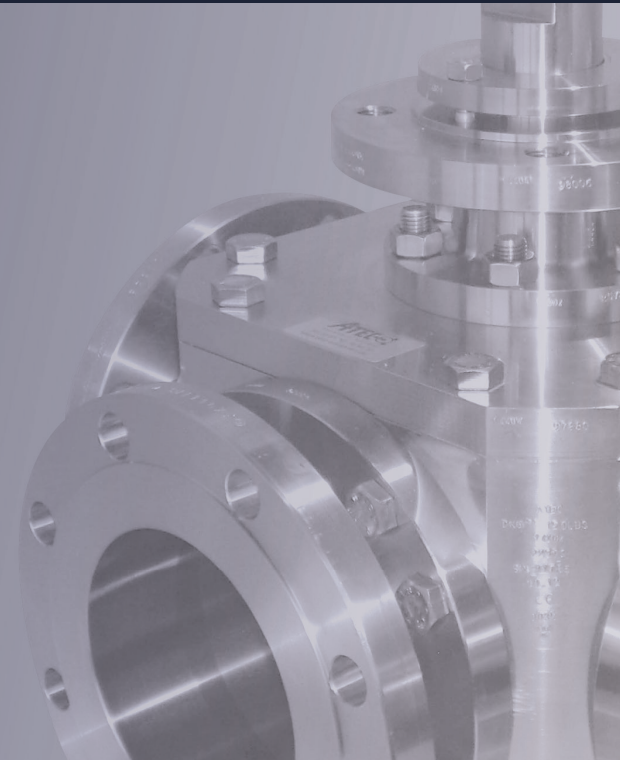


### Ballposition with L-Ball



# ADVANTAGES

- ▶ Almost no cavity between ball and housing
- ▶ Almost no residual product in the ball valve housing
- ▶ Approximately same torque at different temperatures
- ▶ Longer life time through spring loaded sealing system
- ▶ Exotic materials
- ▶ Special design sizes
- ▶ Short delivery time of customized ball valves and spare parts



**Results.**  
**No experiments.**