



## Sanitary Cavity Filler 3-Way Ball Valve

**Model: HC-3WDMCF**

Rating: 1000



### Design feature:

- Cavity-filler 4 Seat design direct-mount 3-way ball valve.
- Direct-mounting of actuator to valves, low cost and easy automation.
- Integral Twin pattern ISO 5211 mounting pad for double & spring return actuator.
- Self-adjusting stem packing assembly with Belleville spring for temperature fluctuations, vibration, and is secured.
- Thrust washer prevents galling, reduces torque and provides secondary stem seal. Long cycle life, Low uniform torques.
- Bottom Entry Blow-Out Proof Stem design Provides Maximum Safety.
- Polished I.D. & Ball bore.
- DIN 50049-3.1 Certificate Available

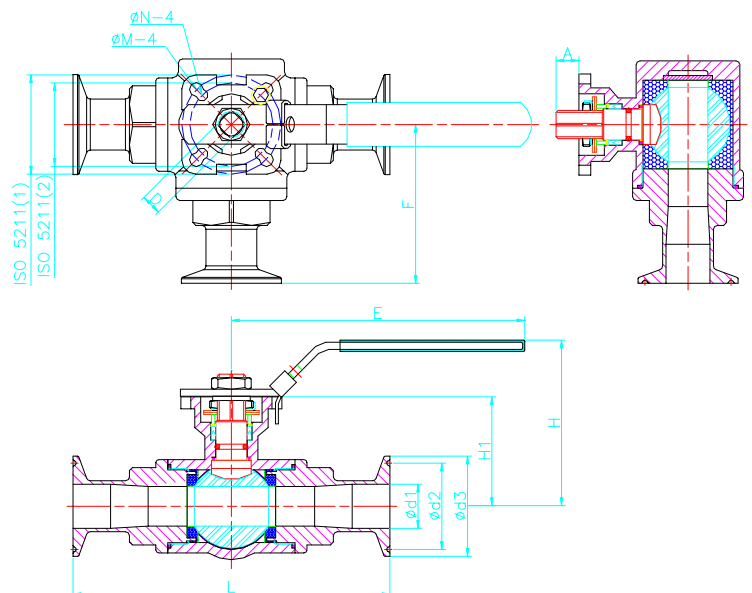
### Specifications:

- Flow bore: Standard port.
- Rating: 1000 WOG.
- Temperature: -20°F ~ 400°F (PTFE)
- Materials: 1.4408, CF8M
- Size range: 1/2"~2" (DN15~DN50).

### Standard:

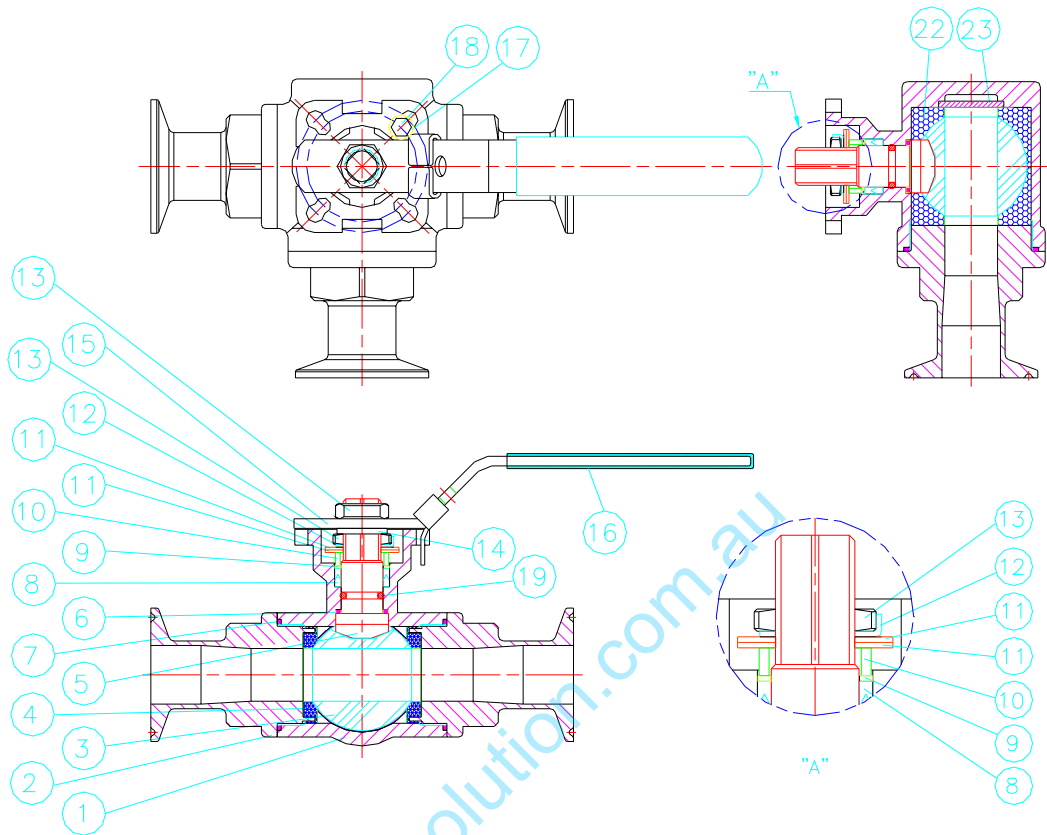
- Basic Design to ANSI B16.34
- Tri-Clamp end dimension Meets BS 4825 part 3.
- Inspection & testing according to API 598.
- PED 97/23/EC; ISO 9001

| PORT<br>TYPE | 1 | 2 | 3 | 4 |
|--------------|---|---|---|---|
| T            |   |   |   |   |
| L            |   |   |   |   |



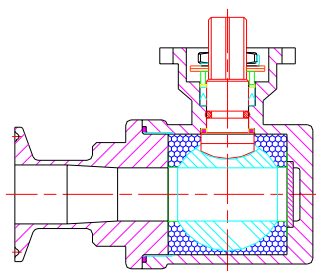
### Dimensions List

| Size  | d    | d1   | d2    | d3   | L   | H     | D  | F   | A    | N | M | E   | H1   | ISO 5211 | Torque (kgf-cm) |
|-------|------|------|-------|------|-----|-------|----|-----|------|---|---|-----|------|----------|-----------------|
| 1/2   | 12.5 | 9.6  | 20.24 | 25   | 133 | 66.9  | 9  | 67  | 8.2  | 6 | 6 | 132 | 36.8 | F03/04   | 33              |
| 3/4   | 12.5 | 15.9 | 20.24 | 25   | 142 | 66.9  | 9  | 71  | 8.2  | 6 | 6 | 132 | 36.8 | F03/04   | 33              |
| 1     | 20   | 22.2 | 43.5  | 50.5 | 160 | 94.3  | 11 | 80  | 11.5 | 6 | 7 | 180 | 55.1 | F04/05   | 90              |
| 1-1/2 | 32   | 34.9 | 43.5  | 50.5 | 182 | 115.7 | 14 | 91  | 15.1 | 7 | 9 | 225 | 75.2 | F05/07   | 220             |
| 2     | 38   | 47.5 | 56.5  | 63.9 | 216 | 124.9 | 14 | 108 | 15.1 | 7 | 9 | 225 | 84.4 | F05/07   | 380             |

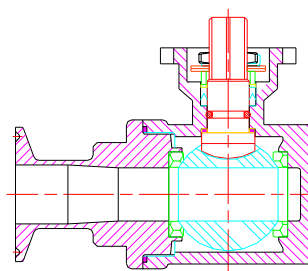


## MATERIALS LIST:

| NO | PART NAME          | MATERIAL | NO | PART NAME     | MATERIAL |
|----|--------------------|----------|----|---------------|----------|
| 1  | BODY               | CF8M     | 14 | WASHER        | SS304    |
| 2  | END CAP            | CF8M     | 15 | HANDLE        | SS304    |
| 3  | SOLID BALL         | SS 316   | 16 | HANDLE SLEEVE | VINYL    |
| 4  | BALL SEAT          | PTFE     | 17 | BOLT          | SS304    |
| 5  | STEM               | SS316    | 18 | STOPPER       | SS304    |
| 6  | THRUST WASHER      | PTFE     | 19 | O-RING        | VITON    |
| 7  | BODY SEAL          | PTFE     | 20 | BODY SEAL     | PTFE     |
| 8  | STEM PACKING       | PTFE     | 21 | END CAP       | CF8M     |
| 9  | THRUST WASHER      | TFM1600  | 22 | BALL SEAT     | PTFE     |
| 10 | GLAND              | SS304    | 23 | STUFF         | PTFE     |
| 11 | BELLEVILLE SPRING  | SUS301   | 24 |               |          |
| 12 | LOCK SADDLE WASHER | SS304    | 25 |               |          |
| 13 | STEM NUT           | SS304    | 26 |               |          |



CAVITY FILLER SEAT DESIGN



NON-CAVITY FILLER SEAT DESIGN