

**Fig No. VF-28**

1/2" ~ 6" DN15 ~ DN150



**Feature :**

Investment Casting Component  
ISO 5211 Direct Mounting  
Blow-out-proof stem, Anti-Static Design  
For General Chemical and Industrial application  
Carbon steel or Super Alloy upon request

**Standard Compliance:**

Body wall thickness : EN 12516-1/2  
Face to Face : EN 3202 F4/F5  
Flange dimension : DIN 2501 PN16  
Body Material : EN 10213-4  
Pressure testing : EN 12266-1

**Specifications :**

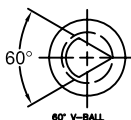
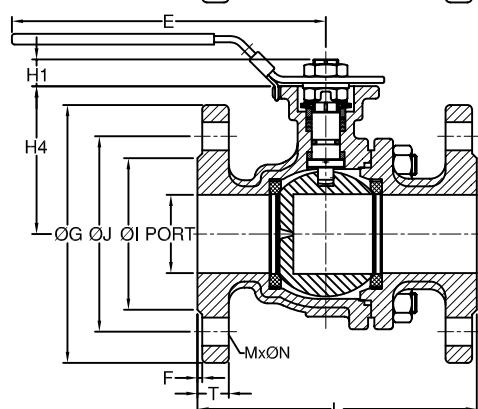
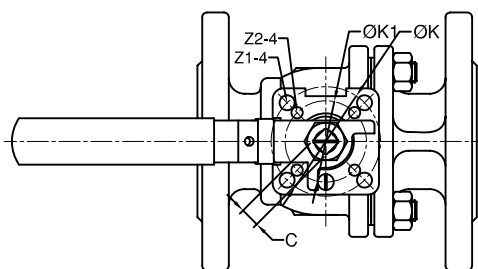
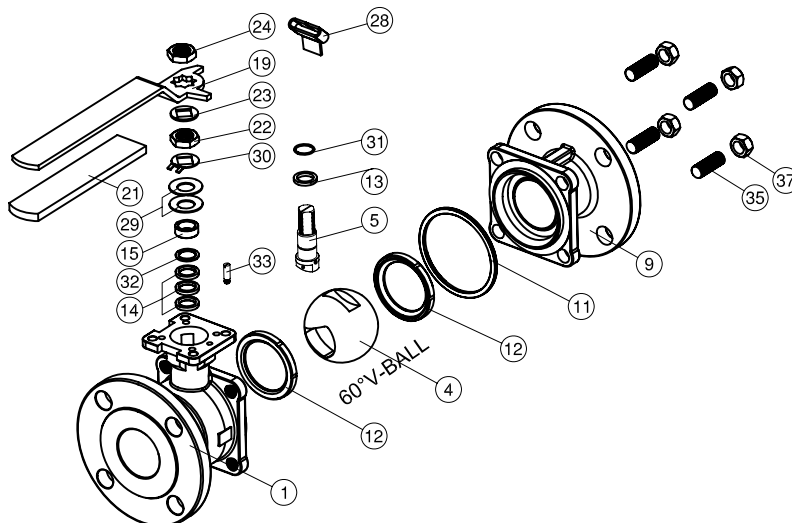
End connection : Flange RF  
Working pressure : 14.6 Bar ( CWP)  
Temperature : -20 ~180°C

**Option :**

Fire safe design

**MATERIALS LIST**

| NO. | PART NAME         | MATERIAL          |
|-----|-------------------|-------------------|
| 1   | BODY              | 1.4408/EN1503-1   |
| 4   | BALL              | ASTM A351 Gr.CF8M |
| 5   | STEM              | SS316             |
| 9   | END CAP           | 1.4408/EN1503-1   |
| 11  | BODY SEAL         | PTFE.             |
| 12  | SEAT              | 50%SS+50%PTFE.    |
| 13  | THRUST WASHER     | PTFE.             |
| 14  | STEM PACKING      | PTFE.             |
| 15  | GLAND             | SS304             |
| 19  | HANDLE            | SS304             |
| 21  | HANDLE COVER      | PLASTIC           |
| 22  | STEM NUT          | SS304             |
| 23  | HANDLE WASHER     | SS304             |
| 24  | HANDLE NUT        | SS304             |
| 28  | LOCKING PAD       | SS304             |
| 29  | BELLEVILLE WASHER | SS304             |
| 30  | TAB WASHER        | SS304             |
| 31  | STEM O-RING       | VITON             |
| 32  | PACKING FOLLOWER  | RTFE.             |
| 33  | STOP PIN          | SS304             |
| 35  | BODY STUD         | ASTM A193 Gr.B8   |
| 37  | BOLT NUT          | ASTM A194 Gr.8    |



**DIMENSIONS**

unit:mm

| SIZE        | PORT  | L     | E     | H1   | H4    | C    | OG    | OJ    | OI    | T    | F   | M | ON   | OK    | OK1  | Z1   | Z2  |
|-------------|-------|-------|-------|------|-------|------|-------|-------|-------|------|-----|---|------|-------|------|------|-----|
| DN15 1/2"   | 15.0  | 115.0 | 112.0 | 8.5  | 48.0  | 9.0  | 95.0  | 65.0  | 45.0  | 16.0 | 2.0 | 4 | 14.0 | 50.0  | 36.0 | 7.0  | 6.0 |
| DN20 3/4"   | 20.0  | 120.0 | 112.0 | 8.5  | 62.0  | 9.0  | 105.0 | 75.0  | 58.0  | 18.0 | 2.0 | 4 | 14.0 | 50.0  | 36.0 | 7.0  | 6.0 |
| DN25 1"     | 25.0  | 125.0 | 136.0 | 11.4 | 64.0  | 9.0  | 115.0 | 85.0  | 68.0  | 18.0 | 2.0 | 4 | 14.0 | 50.0  | 36.0 | 7.0  | 6.0 |
| DN32 1-1/4" | 32.0  | 130.0 | 185.0 | 11.4 | 71.0  | 9.0  | 140.0 | 100.0 | 78.0  | 18.0 | 2.0 | 4 | 18.0 | 50.0  | 36.0 | 7.0  | 6.0 |
| DN40 1-1/2" | 38.0  | 140.0 | 198.0 | 14.0 | 76.0  | 14.0 | 150.0 | 110.0 | 88.0  | 18.0 | 2.0 | 4 | 18.0 | 70.0  | 50.0 | 9.0  | 7.0 |
| DN50 2"     | 50.0  | 150.0 | 198.0 | 13.7 | 84.5  | 14.0 | 165.0 | 125.0 | 102.0 | 20.0 | 2.0 | 4 | 18.0 | 70.0  | 50.0 | 9.0  | 7.0 |
| DN65 2-1/2" | 63.0  | 170.0 | 265.0 | 18.0 | 106.8 | 17.0 | 185.0 | 145.0 | 122.0 | 18.0 | 2.0 | 4 | 18.0 | 102.0 | 70.0 | 11.0 | 9.0 |
| DN80 3"     | 76.0  | 180.0 | 265.0 | 18.0 | 116.0 | 17.0 | 200.0 | 160.0 | 138.0 | 20.0 | 2.0 | 8 | 18.0 | 102.0 | 70.0 | 11.0 | 9.0 |
| DN100 4"    | 100.0 | 190.0 | 325.0 | 18.0 | 154.5 | 17.0 | 220.0 | 180.0 | 158.0 | 20.0 | 2.0 | 8 | 18.0 | 102.0 | 70.0 | 11.0 | 9.0 |

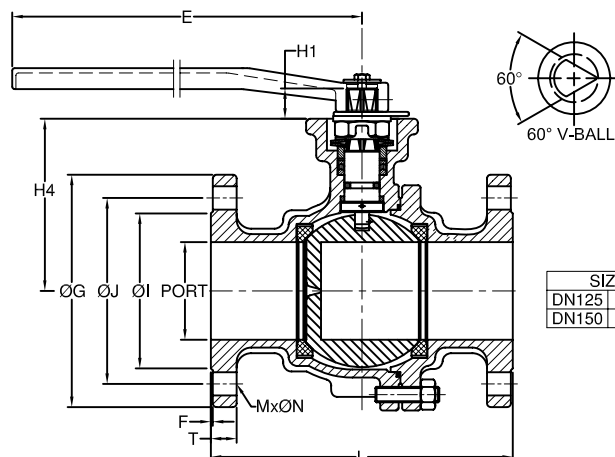
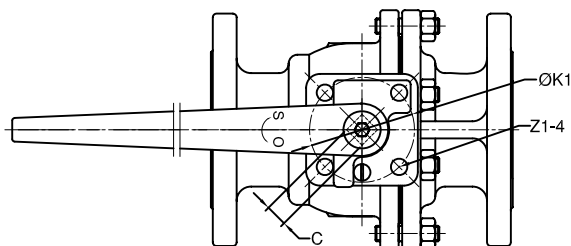
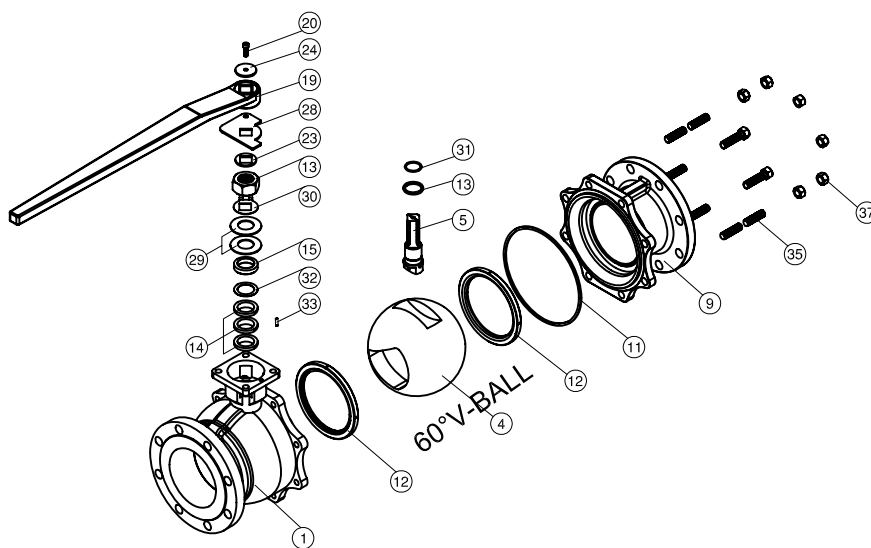
**Fig No. VF-28**

1/2" ~ 6" DN15 ~ DN150



## MATERIALS LIST

| NO. | PART NAME         | MATERIAL          |
|-----|-------------------|-------------------|
| 1   | BODY              | 1.4408/EN1503-1   |
| 4   | BALL              | ASTM A351 Gr.CF8M |
| 5   | STEM              | SS316             |
| 9   | END CAP           | 1.4408/EN1503-1   |
| 11  | BODY SEAL         | PTFE.             |
| 12  | SEAT              | 50%SS+50%PTFE.    |
| 13  | THRUST WASHER     | PTFE.             |
| 14  | STEM PACKING      | PTFE.             |
| 15  | GLAND             | SS304             |
| 19  | HANDLE            | FCD45             |
| 20  | SET SCREW         | SS304             |
| 22  | STEM NUT          | SS304             |
| 23  | HANDLE WASHER     | SS304             |
| 24  | HANDLE NUT        | SS304             |
| 28  | TRIANGLE STOPPER  | SS304             |
| 29  | BELLEVILLE WASHER | SS304             |
| 30  | TAB WASHER        | SS304             |
| 31  | STEM O-RING       | VITON             |
| 32  | PACKING FOLLOWER  | RTFE.             |
| 33  | STOP PIN          | SS304             |
| 35  | BODY STUD         | ASTM A193 Gr.B8   |
| 37  | BOLT NUT          | ASTM A194 Gr.8    |



## DIMENSIONS

unit:mm

Unit:mm

| SIZE  | PORT | L     | E     | H1    | H4   | C     | ØG   | ØJ    | ØI    | T     | F    | M   | ØN | ØK1  | Z1-4       |
|-------|------|-------|-------|-------|------|-------|------|-------|-------|-------|------|-----|----|------|------------|
| DN125 | 5"   | 125.0 | 325.0 | 750.0 | 30.0 | 194.0 | 27.0 | 250.0 | 210.0 | 188.0 | 22.0 | 2.0 | 8  | 18.0 | 125.0 14.0 |
| DN150 | 6"   | 150.0 | 350.0 | 750.0 | 30.0 | 213.0 | 27.0 | 285.0 | 240.0 | 212.0 | 22.0 | 2.0 | 8  | 22.0 | 125.0 14.0 |

## Feature :

Investment Casting Component  
ISO 5211 Direct Mounting  
Blow-out-proof stem, Anti-Static Design  
For General Chemical and Industrial application  
Carbon steel or Super Alloy upon request

## Standard Compliance:

Body wall thickness : EN 12516-1/2  
Face to Face : EN 3202 F4/F5  
Flange dimension : DIN 2501 PN16  
Body Material : EN 10213-4  
Pressure testing : EN 12266-1

## Specifications :

End connection : Flange RF  
Working pressure : 14.6 Bar ( CWP)  
Temperature : -20 ~180°C

## Option :

Fire safe design