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Брянск (4832)59-03-52  
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Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

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Ярославль (4852)69-52-93

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## FEATURES

- Investment Cast Body Construction
- 2 Pieces Body Design
- ISO 5211 Mounting Flange
- Blow-Out-Proof Stem Design
- Available for Pneumatic or Electric Actuator
- NACE MR0175 is available upon request
- Other Super Alloy materials for highly corrosive medium are available upon request

## STANDARD

- Design ASME/ANSI B16.34 / API 608
- Mounting Flange ISO 5211
- Face to Face ASME/ANSI B16.10 Class 300
- Flange Dimension ASME/ANSI B16.5 Class 300 RF
- Material ASTM
- Pressure Testing API 598

## CERTIFICATE

- Fire Safe API 607 6<sup>th</sup> Edition / ISO 10497 Certified
- Fugitive Emission TA-LUFT
- Quality Assurance ISO 9001
- Material Certificate EN 10204-3.1 MTR
- CE Approval PED 97/23/EC Module H
- Canadian Certificate CRN

## MATERIAL

| NO.  | PART NAME                                | MATERIAL<br>( more options available ) |
|------|------------------------------------------|----------------------------------------|
| 1    | BODY                                     | ASTM A890/995 Gr.CD3MN                 |
| 4    | BALL                                     | ASTM A890/995 Gr.CD3MN                 |
| 5    | STEM                                     | S31803                                 |
| 9    | END CAP                                  | ASTM A890/995 Gr.CD3MN                 |
| 11   | BODY SEAL                                | GRAPHITE+SS316 ( SPIRAL WOUND )        |
| 12   | SEAT                                     | RTFE.(15%G.F.)                         |
| 13   | THRUST WASHER                            | GRAPHITE                               |
| 13-1 | THRUST WASHER                            | RTFE.(15%G.F.)                         |
| 14   | STEM PACKING                             | GRAPHITE                               |
| 14-1 | STEM PACKING                             | RTFE.(15%G.F.)                         |
| 15   | GLAND                                    | SS304                                  |
| 19   | HANDLE                                   | STEEL                                  |
| 20   | SET SCREW ( for 2-1/2" ~ 3" only )       | SS304                                  |
| 21   | HANDLE COVER                             | PLASTIC                                |
| 22   | STEM NUT ( for 1/2" ~ 2" only )          | SS304                                  |
| 24   | HANDLE NUT ( for 1/2" ~ 2" only )        | SS304                                  |
| 28   | LOCKING DEVICE                           | SS304                                  |
| 29   | BELLEVILLE WASHER ( for 1/2" ~ 2" only ) | SS301                                  |
| 30   | TAB WASHER ( for 1/2" ~ 2" only )        | SS304                                  |
| 33   | STOP PIN SET                             | SS304                                  |
| 35   | BODY BOLT                                | ASTMA193 Gr.B8                         |
| 37   | BOLT NUT                                 | ASTMA194 Gr.8                          |

# DUPLEX 2205

## MD-32

### ANSI Class 300

#### 2-PC Flanged Ball Valves

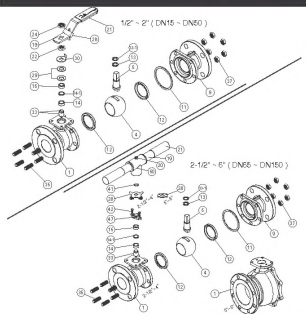


API 607 6<sup>th</sup> Edition  
ISO 10497  
Fugitive Emission  
Full Bore  
ISO 5211 Mounting  
2 Piece Body Design

## AVAILABLE MATERIAL

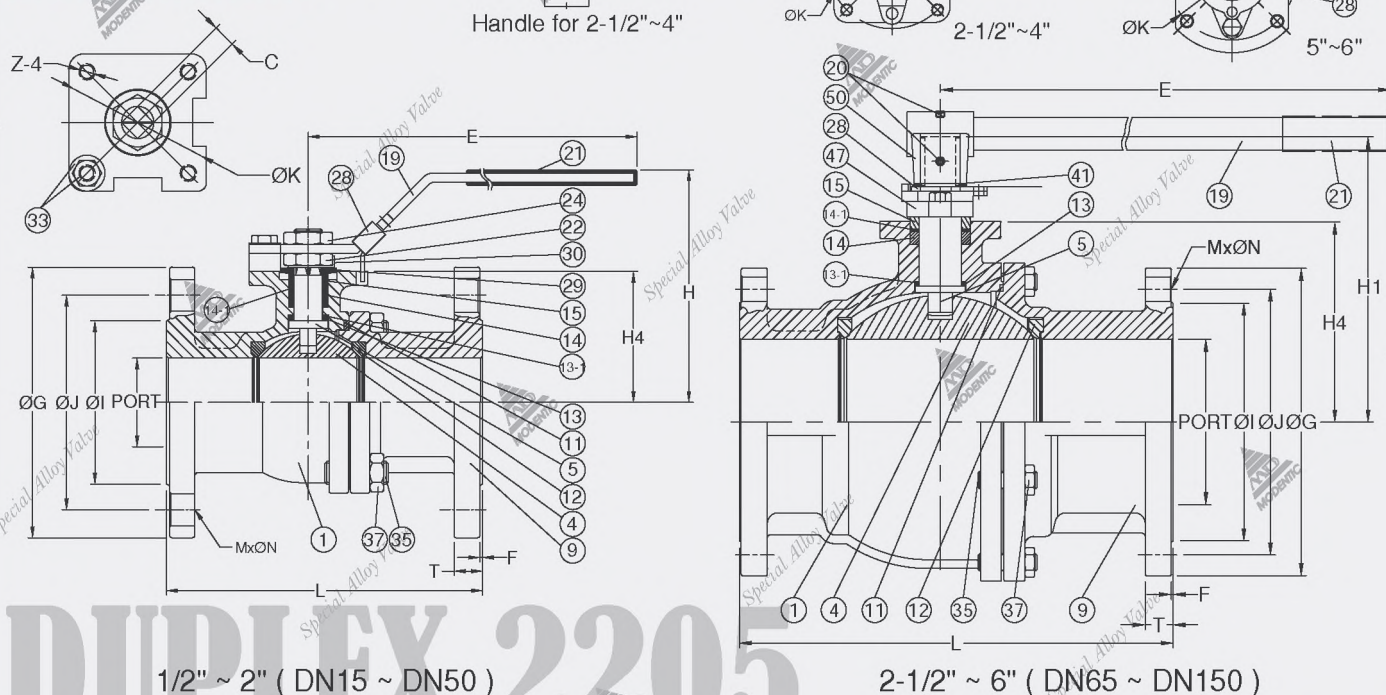
- ALLOY 20
- HASTELLOY® C-276
- DUPLEX 2205
- DUPLEX 2507
- MONEL®
- SS904L

## EXPLOSION DRAWING



# Two Pieces Special Alloy Ball Valves

## DRAWING



## DIMENSION

| SIZE  | PORT   | L     | E     | H   | H1    | H4    | C      | ØG | ØJ    | ØI    | I     | F    | MxØN | ØK       | Z       | UNIT : MM |
|-------|--------|-------|-------|-----|-------|-------|--------|----|-------|-------|-------|------|------|----------|---------|-----------|
| DN15  | 1/2"   | 15.0  | 140.0 | 132 | 80.0  | -     | 38.5   | 9  | 95.0  | 66.6  | 35.1  | 12.7 | 2.0  | 4xØ16    | 42/F04  | M5x0.8P   |
| DN20  | 3/4"   | 20.0  | 152.5 | 132 | 84.5  | -     | 42.5   | 9  | 117.4 | 82.6  | 43.0  | 14.3 | 2.0  | 4xØ19    | 42/F04  | M5x0.8P   |
| DN25  | 1"     | 25.0  | 165.0 | 166 | 102.0 | -     | 52.0   | 11 | 124.0 | 89.0  | 50.8  | 15.9 | 2.0  | 4xØ19    | 50/F05  | M6x1.0P   |
| DN32  | 1-1/4" | 32.0  | 178.0 | 166 | 105.0 | -     | 56.0   | 11 | 133.4 | 98.6  | 63.5  | 17.5 | 2.0  | 4xØ19    | 50/F05  | M6x1.0P   |
| DN40  | 1-1/2" | 38.0  | 190.0 | 198 | 125.0 | -     | 65.25  | 14 | 155.5 | 114.3 | 73.2  | 19.1 | 2.0  | 4xØ22.3  | 70/F07  | M8x1.25P  |
| DN50  | 2"     | 50.0  | 216.0 | 198 | 132.0 | -     | 73.75  | 14 | 165.1 | 127.0 | 92.0  | 20.7 | 2.0  | 8xØ19    | 70/F07  | M8x1.25P  |
| DN65  | 2-1/2" | 64.0  | 241.0 | 300 | -     | 178.0 | 92.5   | 17 | 190.5 | 149.4 | 104.7 | 23.8 | 2.0  | 8xØ22.3  | 102/F10 | M10x1.5P  |
| DN80  | 3"     | 76.0  | 283.0 | 300 | -     | 188.0 | 101.65 | 17 | 209.6 | 168.1 | 127.0 | 27.0 | 2.0  | 8xØ22.3  | 102/F10 | M10x1.5P  |
| DN100 | 4"     | 100.0 | 305.0 | 450 | -     | 205.1 | 119.0  | 17 | 254.0 | 200.2 | 157.2 | 30.2 | 2.0  | 8xØ22.3  | 102/F10 | M10x1.5P  |
| DN125 | 5"     | 125.0 | 381.0 | 450 | -     | 239.0 | 163.0  | 27 | 279.4 | 235.0 | 186.0 | 33.4 | 2.0  | 8xØ22.3  | 125/F12 | M12x1.75P |
| DN150 | 6"     | 150.0 | 403.0 | 800 | -     | 258.5 | 182.5  | 27 | 317.5 | 269.8 | 216.0 | 35.0 | 2.0  | 12xØ22.3 | 125/F12 | M12x1.75P |

| SIZE | PORT   | L    | E    | H    | H1   | H4 | C    | ØG   | ØJ   | ØI   | I    | F    | MxØN | ØK      | Z        | UNIT : INCH |
|------|--------|------|------|------|------|----|------|------|------|------|------|------|------|---------|----------|-------------|
| DN15 | 1/2"   | 0.59 | 5.51 | 5.20 | 3.15 | -  | 1.52 | 0.35 | 3.74 | 2.62 | 1.38 | 0.50 | 0.08 | 4xØ0.63 | 1.65/F04 | M5x0.8P     |
| DN20 | 3/4"   | 0.79 | 6.00 | 5.20 | 3.33 | -  | 1.67 | 0.35 | 4.62 | 3.25 | 1.69 | 0.56 | 0.08 | 4xØ0.75 | 1.65/F04 | M5x0.8P     |
| DN25 | 1"     | 0.98 | 6.50 | 6.54 | 4.02 | -  | 2.05 | 0.43 | 4.88 | 3.50 | 2.00 | 0.63 | 0.08 | 4xØ0.75 | 1.97/F05 | M6x1.0P     |
| DN32 | 1-1/4" | 1.26 | 7.01 | 6.54 | 4.13 | -  | 2.20 | 0.43 | 5.25 | 3.88 | 2.50 | 0.69 | 0.08 | 4xØ0.75 | 1.97/F05 | M6x1.0P     |
| DN40 | 1-1/2" | 1.50 | 7.48 | 7.80 | 4.92 | -  | 2.57 | 0.55 | 6.12 | 4.50 | 2.88 | 0.75 | 0.08 | 4xØ0.88 | 2.76/F07 | M8x1.25P    |

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