

Summary

The Winflo Triple Duty Valve Angle (TDVA) Series combines the functions of a shut-off valve, a non-slam check valve, a balancing valve, and a long radius elbow into a single valve that enables the user to save costs on using several system components, installation and space.

Features

- 4 in 1 valve: shut-off valve, balancing valve, non-slam check valve, and long radius elbow.
- Field convertible to a right-angle valve.
- Direct mounting in horizontal or vertical positions.
- Integrated position indicator on valve handwheel base for flow measurement estimation.
- Cast supporting pad on valve body to allow easy mounting of support foot.
- Flow and temperature measurement ports and drain connections are integrated into the side of the valve.



Application



Industrial



Irrigation



Commercial



Oil

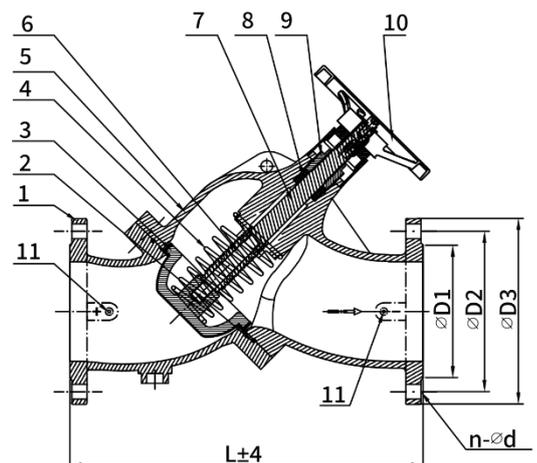
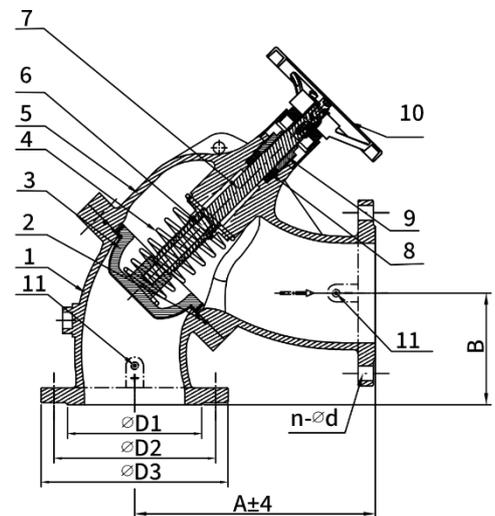
Specifications

| Parameter | Value |
|-----------------------|---|
| Sizes | DN65 to DN300 |
| Max. Working Pressure | 16 bar, 25 bar |
| Working Temperature | -20° C to 120° C |
| Connections | Flanged (as per BS EN1092-2) ^[1] |
| Paint Colour | RAL 5002 |

[1] Also available with ASME B16.1 flanges, and grooved piping connections.

Components

| ID | Component | Material of Construction |
|----|---------------|-------------------------------------|
| 1 | Lower Body | EN-GJS-450-10 (Ductile Iron) |
| 2 | Body O-Ring | EPDM |
| 3 | Seat Disc | EN-JL1040 (Cast Iron) |
| 3 | Seat | EPDM |
| 4 | Spring | BS 304S15 (SS 304) |
| 5 | Upper Body | EN-GJS-450-10 (Ductile Iron) |
| 6 | Disc Shaft | BS 410S21 (SS 410) |
| 7 | Stem | BS 410S21 (SS 410) |
| 8 | V Type Filler | EPDM |
| 9 | Packing Gland | BS 410S21 (SS 410) |
| 10 | Handwheel | WCB Carbon Steel |
| 11 | Plug | WCB Carbon Steel/BS 304S15 (SS 304) |



Sizes

PN 16 Models

| Model | Size [DN] | Dimensions [mm] | | | | | | | Plug (NPT) [inch] |
|--------------|-----------|-----------------|-----|-----|--------|-----|-----|-----|-------------------|
| | | øD1 | øD2 | øD3 | n-ød | L | A | B | |
| TDVA065DWF16 | 65 | 118 | 145 | 185 | 4-ø19 | 304 | 187 | 117 | ¼ |
| TDVA080DWF16 | 80 | 132 | 160 | 200 | 8-ø19 | 305 | 208 | 98 | ¼ |
| TDVA100DWF16 | 100 | 156 | 180 | 220 | 8-ø19 | 355 | 244 | 111 | ¼ |
| TDVA125DWF16 | 125 | 184 | 210 | 250 | 8-ø19 | 445 | 305 | 140 | ¼ |
| TDVA150DWF16 | 150 | 211 | 240 | 285 | 8-ø23 | 525 | 359 | 168 | ¼ |
| TDVA200DWF16 | 200 | 266 | 295 | 340 | 12-ø23 | 716 | 481 | 233 | ¼ |
| TDVA250DWF16 | 250 | 319 | 355 | 405 | 12-ø28 | 762 | 516 | 248 | ¼ |
| TDVA300DWF16 | 300 | 370 | 410 | 460 | 12-ø28 | 967 | 611 | 356 | ¼ |

PN 25 Models

| Model | Size [DN] | Dimensions [mm] | | | | | | | Plug (NPT) [inch] |
|--------------|-----------|-----------------|-----|-----|--------|-----|-----|-----|-------------------|
| | | øD1 | øD2 | øD3 | n-ød | L | A | B | |
| TDVA065DWF25 | 65 | 118 | 145 | 185 | 8-ø19 | 304 | 187 | 117 | ¼ |
| TDVA080DWF25 | 80 | 132 | 160 | 200 | 8-ø19 | 305 | 208 | 98 | ¼ |
| TDVA100DWF25 | 100 | 156 | 190 | 235 | 8-ø13 | 355 | 244 | 111 | ¼ |
| TDVA125DWF25 | 125 | 184 | 220 | 270 | 8-ø18 | 445 | 305 | 140 | ¼ |
| TDVA150DWF25 | 150 | 211 | 250 | 300 | 8-ø28 | 525 | 359 | 168 | ¼ |
| TDVA200DWF25 | 200 | 274 | 310 | 360 | 12-ø28 | 716 | 481 | 233 | ¼ |
| TDVA250DWF25 | 250 | 330 | 370 | 425 | 12-ø31 | 762 | 516 | 248 | ¼ |
| TDVA300DWF25 | 300 | 389 | 430 | 485 | 12-ø31 | 967 | 611 | 356 | ¼ |

Notes

- Plugs and bolts are available default in Carbon Steel (W) and optional in SS304 (S).
- Tolerance of L and A is +/- 4 mm.

Certifications & Standards



- Flange Connection Standard: BS EN1092-2
- Pressure Test Standard: BS EN12266-1

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