

## BALL VALVE

# Double Eccentric Ball Valve

REF EFC-525

## SPECIFICATIONS

|                |                               |
|----------------|-------------------------------|
| Size           | DN100 to DN1600               |
| Pressure       | PN6, PN10, PN16               |
| End connection | Flanged (EN 1092-2)           |
| Media          | water, general pipeline media |

## ACTUATION

- Gearbox, ISO 5211 mounting
- Part-turn electric actuator, ISO 5211 mounting
- Pneumatic actuator, ISO 5211 mounting
- Hydraulic actuator, ISO 5211 mounting

## STANDARDS

|                        |                    |
|------------------------|--------------------|
| Inspection & test      | EN 12266           |
| Flange & end dimension | EN 1092-2          |
| Mounting               | ISO 5211, ISO 5210 |



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

**EFC-525** · Specifications confirmed at quote

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## MATERIALS

|                 |                                                   |               |                                                   |
|-----------------|---------------------------------------------------|---------------|---------------------------------------------------|
| Key             | 1.4021 (SS420)                                    | Upper Shaft   | 1.4021 (SS420)                                    |
| Connection Seat | GJS500-7 (GGG50), GJS400-15 (GGG40), 1.0619 (WCB) | Packing Gland | GJS500-7 (GGG50), GJS400-15 (GGG40), 1.0619 (WCB) |
| Packing         | Flexible Graphite, EPDM, NBR                      | Packing Ring  | 1.0038 (S235JR), PTFE                             |
| Shaft Bearing   | QAI9-2, CC331G                                    | Ball          | 1.0619 (WCB) + hard alloy welded seal ring        |
| Body            | GJS500-7 (GGG50), GJS400-15 (GGG40), 1.0619 (WCB) | Retainer Ring | 1.0619 (WCB)                                      |
| Seat            | 1.0619 (WCB) + hard alloy welded seal ring        | Lower Shaft   | 1.4021 (SS420)                                    |
| Shaft Cover     | 1.0619 (WCB)                                      |               |                                                   |

## FEATURES

- Double eccentric semi-ball design with stable performance and self-compensating wear mechanism
- Straight-through flow port with large flow area and near-zero head loss
- Welded hard alloy body seat ring for wear and corrosion resistance
- Welded hard alloy ball sealing ring for wear and corrosion resistance
- Valve disc concealed within valve cavity in the open position, preventing direct media impingement on sealing surface
- Side-entry design allows maintenance without full removal from pipeline
- Adjustable packing design for reliable shaft sealing
- Shaft sealed by O-ring or graphite packing
- Self-cleaning capability for scale removal
- ISO 5211 mounting flange for actuator compatibility
- Gearbox equipped with ISO 5210 flange connection; F10 is standard
- Flange face and drilling to EN 1092-2

## SUPPLIER REMARKS

- Click to download (design features document referenced but not specified)
- Customised services available for groups and individuals

BALL VALVE

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SECTION Dimensions per size    REF EFC-525

| SIZE  | PN   | L   | D1  | D2  | D3  | B  | N-D  | H   | H2  | A1 | A2 | A3  | 1   | D4 |
|-------|------|-----|-----|-----|-----|----|------|-----|-----|----|----|-----|-----|----|
| DN100 | PN6  | 229 | 210 | 170 | 144 | 18 | 4-18 | 130 | 270 | 64 | 56 | 193 | 240 | -  |
| DN100 | PN10 | 229 | 220 | 180 | 156 | 19 | 8-18 | 130 | 270 | 64 | 56 | 193 | 240 | -  |
| DN100 | PN16 | 229 | 220 | 180 | 156 | 19 | 8-18 | 130 | 270 | 64 | 56 | 193 | 240 | -  |
| DN125 | PN6  | 254 | 240 | 200 | 174 | 20 | 8-18 | 148 | 290 | 64 | 56 | 193 | 240 | -  |
| DN125 | PN10 | 254 | 250 | 210 | 184 | 19 | 8-18 | 148 | 290 | 64 | 56 | 193 | 240 | -  |
| DN125 | PN16 | 254 | 250 | 210 | 184 | 19 | 8-18 | 148 | 290 | 64 | 56 | 193 | 240 | -  |
| DN150 | PN6  | 267 | 265 | 225 | 199 | 20 | 8-18 | 173 | 331 | 93 | 65 | 233 | 320 | -  |
| DN150 | PN10 | 267 | 285 | 240 | 211 | 19 | 8-22 | 173 | 331 | 93 | 65 | 233 | 320 | -  |
| DN150 | PN16 | 267 | 285 | 240 | 211 | 19 | 8-22 | 173 | 331 | 93 | 65 | 233 | 320 | -  |
| DN200 | PN6  | 292 | 320 | 280 | 254 | 22 | 8-18 | 195 | 375 | 93 | 65 | 233 | 320 | -  |
| DN200 | PN10 | 292 | 340 | 295 | 266 | 20 | 8-22 | 195 | 375 | 93 | 65 | 233 | 320 | -  |

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Double Eccentric Ball Valve

Dimensions per size (continued) · EFC-525

| SIZE  | PN   | L   | D1  | D2  | D3  | B  | N-D    | H   | H2  | A1  | A2   | A3    | ⌀   | D4  |
|-------|------|-----|-----|-----|-----|----|--------|-----|-----|-----|------|-------|-----|-----|
| DN200 | PN16 | 292 | 340 | 295 | 266 | 20 | 12-⌀22 | 195 | 375 | 93  | 65   | 233   | 320 | -   |
| DN250 | PN6  | 330 | 375 | 335 | 309 | 24 | 12-⌀18 | 225 | 447 | 120 | 81.5 | 282.5 | 400 | -   |
| DN250 | PN10 | 330 | 395 | 350 | 319 | 22 | 12-⌀22 | 225 | 447 | 120 | 81.5 | 282.5 | 400 | -   |
| DN250 | PN16 | 330 | 405 | 355 | 319 | 22 | 12-⌀26 | 225 | 447 | 120 | 81.5 | 282.5 | 400 | -   |
| DN300 | PN6  | 356 | 440 | 395 | 363 | 24 | 12-⌀22 | 260 | 485 | 120 | 81.5 | 282.5 | 400 | -   |
| DN300 | PN10 | 356 | 445 | 400 | 370 | 25 | 12-⌀22 | 260 | 485 | 120 | 81.5 | 282.5 | 400 | -   |
| DN300 | PN16 | 356 | 460 | 410 | 370 | 25 | 12-⌀26 | 260 | 485 | 120 | 81.5 | 282.5 | 400 | -   |
| DN350 | PN6  | 440 | 490 | 445 | 413 | 24 | 12-⌀22 | 300 | 525 | 148 | 89   | 354   | 500 | 174 |
| DN350 | PN10 | 440 | 505 | 460 | 429 | 25 | 16-⌀22 | 300 | 525 | 148 | 89   | 354   | 500 | 174 |
| DN350 | PN16 | 440 | 520 | 470 | 429 | 27 | 16-⌀26 | 300 | 525 | 148 | 89   | 354   | 500 | 174 |
| DN400 | PN6  | 500 | 540 | 495 | 463 | 24 | 16-⌀22 | 332 | 560 | 148 | 89   | 354   | 500 | 174 |
| DN400 | PN10 | 500 | 565 | 515 | 480 | 25 | 16-⌀26 | 332 | 560 | 148 | 89   | 354   | 500 | 174 |
| DN400 | PN16 | 500 | 580 | 525 | 480 | 28 | 16-⌀30 | 332 | 560 | 148 | 89   | 354   | 500 | 174 |
| DN450 | PN6  | 560 | 595 | 550 | 518 | 24 | 16-⌀22 | 360 | 610 | 148 | 89   | 354   | 500 | 174 |

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Double Eccentric Ball Valve

Dimensions per size (continued) · EFC-525

| SIZE  | PN   | L    | D1   | D2   | D3  | B  | N-D    | H   | H2   | A1  | A2  | A3  | ⌀   | D4  |
|-------|------|------|------|------|-----|----|--------|-----|------|-----|-----|-----|-----|-----|
| DN450 | PN10 | 560  | 615  | 565  | 530 | 26 | 20-⌀26 | 360 | 610  | 148 | 89  | 354 | 500 | 174 |
| DN450 | PN16 | 560  | 640  | 585  | 548 | 30 | 20-⌀30 | 360 | 610  | 148 | 89  | 354 | 500 | 174 |
| DN500 | PN6  | 620  | 645  | 600  | 568 | 26 | 20-⌀22 | 380 | 608  | 148 | 89  | 354 | 500 | 174 |
| DN500 | PN10 | 620  | 670  | 620  | 582 | 27 | 20-⌀26 | 400 | 695  | 185 | 105 | 379 | 500 | 174 |
| DN500 | PN16 | 620  | 715  | 650  | 609 | 32 | 20-⌀33 | 400 | 695  | 185 | 105 | 379 | 500 | 174 |
| DN600 | PN6  | 800  | 755  | 705  | 667 | 28 | 20-⌀26 | 560 | 792  | 185 | 105 | 379 | 500 | 174 |
| DN600 | PN10 | 800  | 780  | 725  | 682 | 30 | 20-⌀30 | 560 | 792  | 185 | 105 | 379 | 500 | 174 |
| DN600 | PN16 | 800  | 840  | 770  | 720 | 36 | 20-⌀36 | 560 | 807  | 230 | 125 | 459 | 600 | 258 |
| DN700 | PN6  | 850  | 860  | 810  | 772 | 28 | 24-⌀26 | 630 | 840  | 185 | 105 | 379 | 500 | 174 |
| DN700 | PN10 | 850  | 895  | 840  | 794 | 33 | 24-⌀30 | 630 | 840  | 185 | 105 | 379 | 500 | 174 |
| DN700 | PN16 | 850  | 910  | 840  | 794 | 40 | 24-⌀36 | 630 | 886  | 230 | 125 | 459 | 600 | 258 |
| DN800 | PN6  | 900  | 975  | 920  | 878 | 30 | 24-⌀30 | 700 | 919  | 230 | 125 | 459 | 600 | 258 |
| DN800 | PN10 | 900  | 1015 | 950  | 901 | 35 | 24-⌀33 | 700 | 919  | 230 | 125 | 459 | 600 | 258 |
| DN900 | PN6  | 1050 | 1075 | 1020 | 978 | 38 | 24-⌀30 | 800 | 1010 | 230 | 125 | 459 | 600 | 258 |

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Double Eccentric Ball Valve

Dimensions per size (continued) · EFC-525

| SIZE   | PN   | L    | D1   | D2   | D3   | B  | N-D    | H    | H2   | A1  | A2    | A3  | ⌀   | D4  |
|--------|------|------|------|------|------|----|--------|------|------|-----|-------|-----|-----|-----|
| DN900  | PN10 | 1050 | 1115 | 1050 | 1001 | 38 | 28-⌀33 | 800  | 1010 | 230 | 125   | 459 | 600 | 258 |
| DN1000 | PN6  | 1200 | 1175 | 1120 | 1078 | 30 | 28-⌀30 | 820  | 1119 | 230 | 125   | 459 | 600 | 326 |
| DN1000 | PN10 | 1200 | 1230 | 1160 | 1112 | 40 | 28-⌀37 | 820  | 1188 | 315 | 164   | 584 | 600 | 326 |
| DN1200 | PN6  | 1500 | 1405 | 1340 | 1295 | 32 | 32-⌀33 | 980  | 1350 | 315 | 163.5 | 584 | 600 | 326 |
| DN1200 | PN10 | 1500 | 1455 | 1380 | 1328 | 45 | 32-⌀39 | 980  | 1350 | 315 | 163.5 | 584 | 600 | 326 |
| DN1400 | PN6  | 1650 | 1630 | 1560 | 1510 | 36 | 36-⌀36 | 1150 | 1560 | 412 | 213   | 704 | 720 | 438 |
| DN1400 | PN10 | 1650 | 1675 | 1590 | 1530 | 46 | 36-⌀42 | 1150 | 1560 | 412 | 213   | 704 | 720 | 438 |
| DN1500 | PN6  | 1750 | 1730 | 1660 | 1610 | 38 | 36-⌀36 | 1300 | 1637 | 412 | 213   | 704 | 720 | 438 |
| DN1500 | PN10 | 1750 | 1915 | 1820 | 1750 | 48 | 36-⌀44 | 1250 | 1637 | 412 | 213   | 704 | 720 | 438 |
| DN1600 | PN6  | 1850 | 1830 | 1760 | 1710 | 38 | 40-⌀36 | 1400 | 1813 | 495 | 239   | 881 | 720 | 460 |
| DN1600 | PN10 | 1850 | 1915 | 1820 | 1750 | 49 | 40-⌀48 | 1400 | 1813 | 495 | 239   | 881 | 720 | 460 |

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

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