



## PLUG VALVE

CAST IRON PLUG VALVE, PN16

Model Number: **MV90-211**

### FEATURES / CHARACTERISTICS

|                |                                           |
|----------------|-------------------------------------------|
| Design         | AWWA C517                                 |
| Rating         | PN16                                      |
| Connection     | Flanged BS EN1092-2,<br>PN16 (ex BS 4504) |
| Working Medium | Water, Oil and Steam.                     |



### ON REQUEST

ANSI Standard (subject to minimum order quantities)  
Available with Gearbox Operated

### HYDROSTATIC TEST PRESSURE

Shell- 24 bar  
Seat- 17.6 bar

### WORKING TEMPERATURE

16Bar -10° C to 80° C

### MATERIAL SPECIFICATIONS

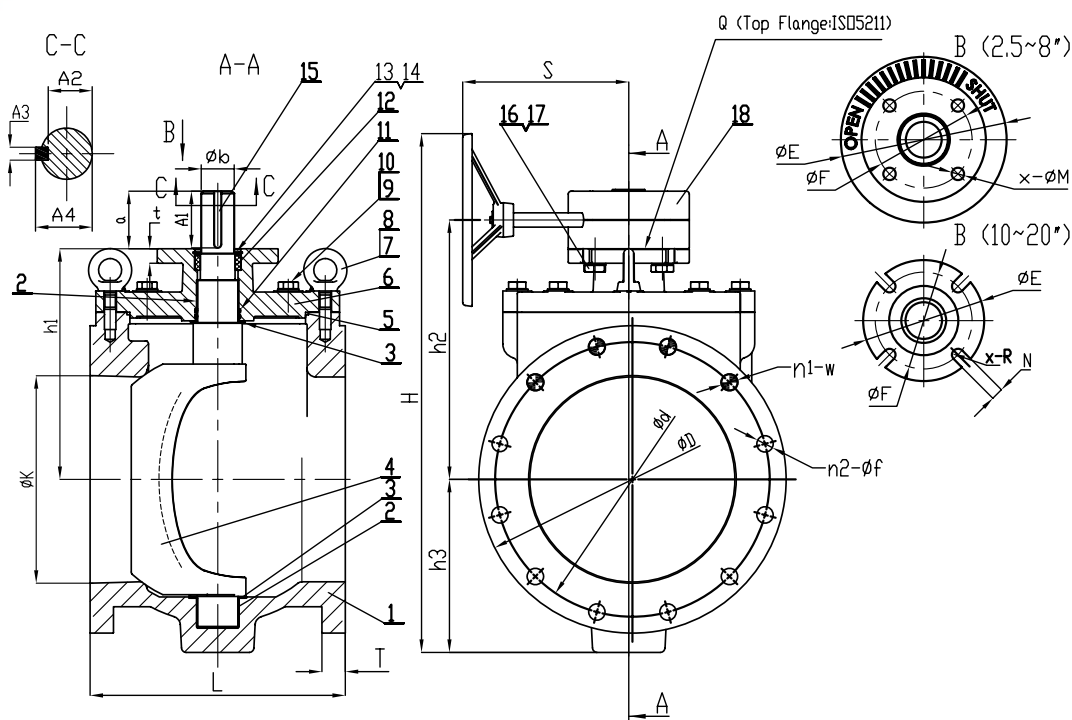
|    | PARTS          | MATERIAL              |
|----|----------------|-----------------------|
| 1  | Body           | Cast Iron             |
| 2  | Sleeve Bearing | SS316                 |
| 3  | Washer         | PTFE                  |
| 4  | Plug           | Ductile Iron+NBR/EPDM |
| 5  | O Ring         | BUNA-N                |
| 6  | Cap            | Cast Iron             |
| 7  | Stud Bolt      | SS304                 |
| 8  | Eye Nut        | SS304                 |
| 9  | Flap Gasket    | SS304                 |
| 10 | Bolt           | SS304                 |
| 11 | O Ring         | BUNA-N                |
| 12 | U Cup Seal     | BUNA-N                |
| 13 | Washer         | Steel                 |
| 14 | Retaining Ring | Steel                 |
| 15 | Key            | SS304                 |
| 16 | Bolt           | SS304                 |
| 17 | Flap Gasket    | SS304                 |
| 18 | Gear Box       |                       |



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## DIMENSIONS (mm)

| Sizes |      | L     | T  | D   | d   | N1 | W   | n2 | f  | K     | H     | h1    | h2  | h3    | S   | Q   |
|-------|------|-------|----|-----|-----|----|-----|----|----|-------|-------|-------|-----|-------|-----|-----|
| DN    | inch |       |    |     |     |    |     |    |    |       |       |       |     |       |     |     |
| 65    | 2½"  | 190.5 | 19 | 180 | 145 | —  | —   | 4  | 19 | 65    | 401   | 159.5 | 200 | 101   | 155 | F07 |
| 80    | 3"   | 203.2 | 19 | 200 | 160 | 2  | M16 | 6  | 19 | 76.2  | 401   | 159.5 | 200 | 101   | 155 | F07 |
| 100   | 4"   | 228.6 | 20 | 220 | 180 | 2  | M16 | 6  | 19 | 103.2 | 440.5 | 187   | 227 | 113.5 | 230 | F10 |
| 125   | 5"   | 254   | 20 | 250 | 210 | 2  | M16 | 6  | 19 | 125   | 493   | 207   | 247 | 146   | 230 | F10 |
| 150   | 6"   | 266.7 | 20 | 285 | 240 | 2  | M16 | 6  | 23 | 152.4 | 493   | 207   | 247 | 146   | 230 | F10 |
| 200   | 8"   | 292   | 22 | 340 | 295 | 4  | M20 | 8  | 23 | 203   | 639.5 | 251.1 | 296 | 193.5 | 230 | F10 |
| 250   | 10"  | 330   | 25 | 405 | 355 | 4  | M24 | 8  | 28 | 239.7 | 715.4 | 295   | 340 | 225.4 | 330 | F14 |
| 300   | 12"  | 355.6 | 27 | 460 | 410 | 4  | M24 | 8  | 28 | 263.5 | 883   | 334   | 385 | 254   | 375 | F16 |
| 350   | 14"  | 431.8 | 27 | 520 | 470 | 4  | M24 | 12 | 28 |       |       |       |     |       | 375 | F16 |
| 400   | 16"  | 450.8 | 28 | 580 | 525 | 4  | M27 | 12 | 31 |       |       |       |     |       | 375 | F16 |

| Sizes |      | A1 | A2    | A3   | A4    | a    | b        | E   | F   | M  | N  | x | t  |
|-------|------|----|-------|------|-------|------|----------|-----|-----|----|----|---|----|
| DN    | inch |    |       |      |       |      |          |     |     |    |    |   |    |
| 65    | 2½"  | 39 | 21.85 | 6.35 | 28.2  | 55   | 25.4     | 120 | 70  | 10 | —  | 4 | 13 |
| 80    | 3"   | 39 | 21.85 | 6.35 | 28.2  | 55   | 25.4     | 120 | 70  | 10 | —  | 4 | 13 |
| 100   | 4"   | 39 | 26.62 | 6.35 | 32.97 | 58   | 30       | 170 | 102 | 12 | —  | 4 | 15 |
| 125   | 5"   | 39 | 26.62 | 6.35 | 32.97 | 60   | 30       | 170 | 102 | 12 | —  | 4 | 15 |
| 150   | 6"   | 39 | 26.62 | 6.35 | 32.97 | 60   | 30       | 170 | 102 | 12 | —  | 4 | 15 |
| 200   | 8"   | 39 | 26.62 | 6.35 | 32.97 | 58.1 | 30(Nut)  | 170 | 102 | 12 | —  | 4 | 20 |
|       |      |    |       |      |       |      | 40(Gear) |     |     |    |    |   |    |
| 250   | 10"  | 65 | 34.94 | 9.52 | 44.46 | 75.1 | 40       | 175 | 140 | —  | 18 | 4 | 20 |
| 300   | 12"  | 65 | 44.15 | 12.7 | 56.85 | 78   | 50.8     | 210 | 165 | —  | 22 | 4 | 22 |
| 350   | 14"  | 90 | 50    | 12.7 | 62.7  | 97   | 57.2     | 210 | 165 | —  | 22 | 4 | 25 |
| 400   | 16"  | 90 | 50    | 12.7 | 62.7  | 97   | 57.2     | 210 | 165 | —  | 22 | 4 | 25 |

\*All dimensions are nominal (indicative)  
Actual dimensions may vary