

# Ball & Check Valves

## Full Flow Ball Valves, Brass

 **Temperature Range:**  
-20°C to +110°C

Male/male threads.

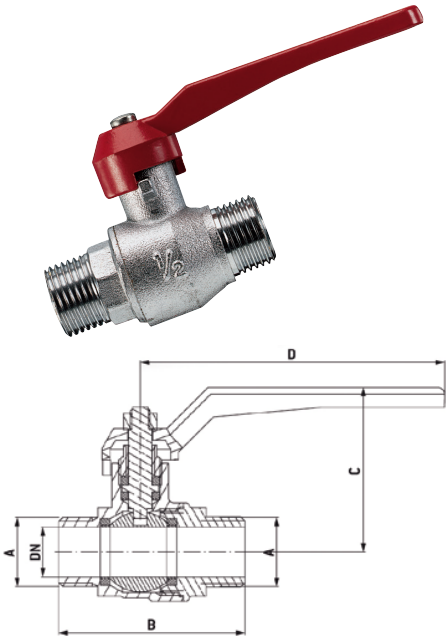
**Lever handle in aluminium.**

Body in nickel-plated brass.

Minimum and maximum working temperatures: -20°C, 110°C in absence of steam.

Threads: ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228).

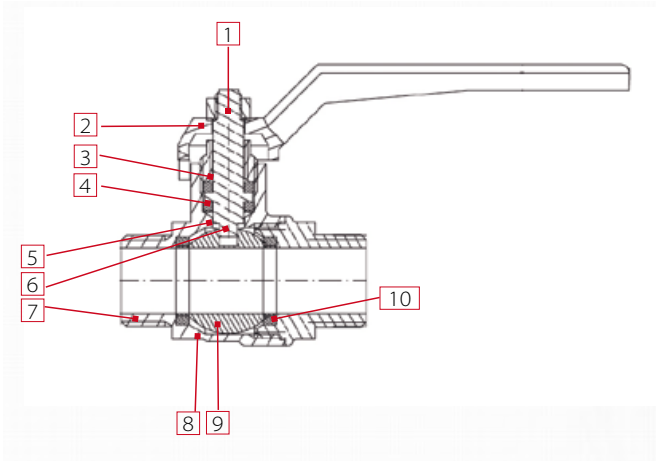
Available with T handle in the sizes 3/8" through 1".



| Part No                       | IT099-38 | IT099-12 | IT099-34 | IT099-1 | IT099-114 | IT099-112 | IT099-2 |
|-------------------------------|----------|----------|----------|---------|-----------|-----------|---------|
| Size                          | 3/8"     | 1/2"     | 3/4"     | 1"      | 1.1/4"    | 1.1/2"    | 2"      |
| DN                            | 10       | 15       | 20       | 25      | 32        | 40        | 50      |
| A (mm)                        | 3/8"     | 1/2"     | 3/4"     | 1"      | 1.1/4"    | 1.1/2"    | 2"      |
| B (mm)                        | 49       | 62       | 65       | 76,5    | 87        | 103       | 113     |
| C (mm)                        | 46       | 45       | 48       | 62      | 66        | 83        | 91      |
| D (mm)                        | 92       | 95       | 95       | 123     | 123       | 150       | 150     |
| Working pressure Kg/cm2 - bar | 20       | 40       | 40       | 40      | 30        | 30        | 30      |
| PSI lbs working pressure      | 290      | 580      | 580      | 580     | 435       | 435       | 435     |

## Materials

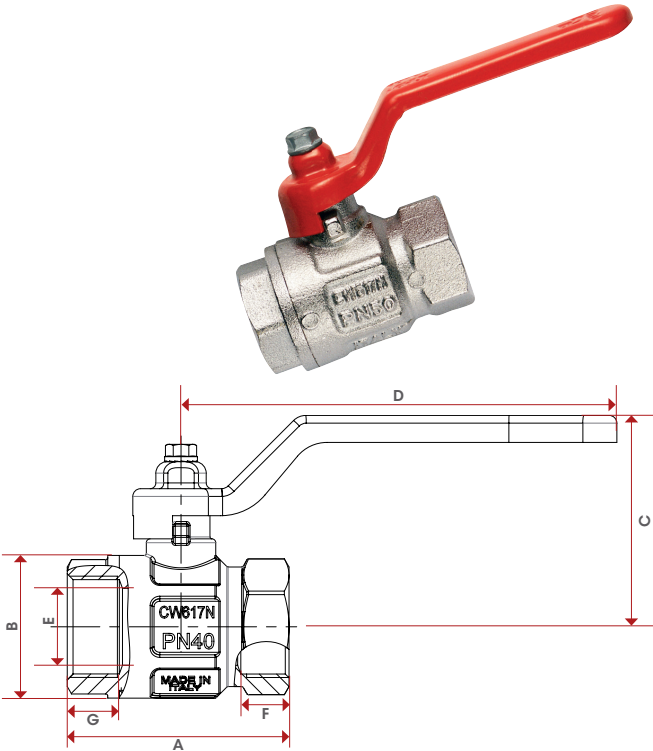
| Pos. | Description  | N. | Material           |
|------|--------------|----|--------------------|
| 1    | Screw        | 1  | Zincplated         |
| 2    | Lever handle | 1  | Aluminium UNI 5076 |
| 3    | Gland        | 2  | Brass CW614N       |
| 4    | Ring         | 1  | PTFE               |
| 5    | Ring         | 1  | PTFE               |
| 6    | Stem         | 1  | Brass CW614N       |
| 7    | End adapter  | 1  | Hard chromeplated  |
| 8    | Body         | 1  | Hard chromeplated  |
| 9    | Ball         | 1  | Hard chromeplated  |
| 10   | Washer       | 2  | PTFE               |



# Ball Valves IDEAL

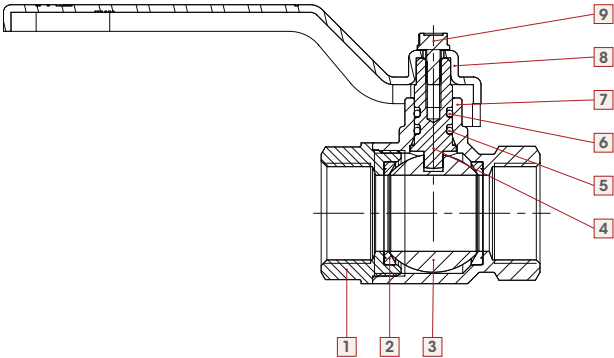
Suitable for domestic water services, heating and air-conditioning plants, compressed air systems.

 **Temperature Range:**  
-20°C to 150°C in absence of steam

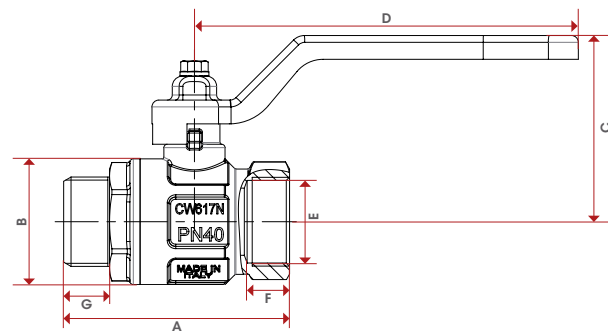


| Part No    | IT090-14 | IT090-38 | IT090-12 | IT090-34 | IT090-1 | IT090-114 | IT090-112 | IT090-2 | IT090-212 | IT090-3 | IT090-4 |
|------------|----------|----------|----------|----------|---------|-----------|-----------|---------|-----------|---------|---------|
| Size       | 1/4"     | 3/8"     | 1/2"     | 3/4"     | 1"      | 1"1/4     | 1"1/2     | 2"      | 2"1/2     | 3"      | 4"      |
| DN         | 8        | 10       | 15       | 20       | 25      | 32        | 40        | 50      | 65        | 80      | 100     |
| A          | 44,4     | 44,4     | 50,5     | 57,5     | 70      | 80,5      | 94,5      | 112,5   | 134,5     | 157     | 190     |
| B          | 23,5     | 24       | 30,5     | 37       | 45,5    | 57        | 70        | 84      | 109       | 131     | 164     |
| C          | 37       | 37       | 41       | 55       | 59      | 75        | 81        | 96      | 115       | 133     | 149     |
| D          | 80       | 80       | 80       | 113      | 113     | 138       | 138       | 157,8   | 197       | 250     | 250     |
| E          | 10       | 10       | 15       | 20       | 25      | 32        | 40        | 50      | 65        | 80      | 100     |
| F          | 10       | 10       | 12       | 12,5     | 15      | 17        | 18,5      | 22      | 24        | 26      | 30      |
| G          | 10       | 10       | 12,5     | 13,5     | 15      | 16,5      | 17,5      | 20,5    | 24        | 26      | 30      |
| Kg/cm2 bar | 50       | 50       | 50       | 40       | 40      | 30        | 30        | 25      | 18        | 16      | 14      |
| LBS - psi  | 725      | 725      | 725      | 580      | 580     | 435       | 435       | 362,5   | 261       | 232     | 203     |

| Pos. | Description  | N. | Material                                |
|------|--------------|----|-----------------------------------------|
| 1    | End adapter  | 1  | Nickel-plated brass CW617N              |
| 2    | Seat         | 2  | PTFE                                    |
| 3    | Ball         | 1  | Chrome-plated brass CW617N              |
| 4    | Stem         | 1  | Brass CW614N                            |
| 5    | O-ring       | 1  | NBR                                     |
| 6    | O-ring       | 1  | VITON ®                                 |
| 7    | Body         | 1  | Nickel-plated brass CW617N              |
| 8    | Lever handle | 1  | Zinc-plated and varnished steel Fe.P.04 |
| 9    | Screw        | 1  | Zinc-plated steel Fe CB4                |



|            | 1/4" | 3/8" | 1/2" | 3/4" | 1"   | 1.1/4" | 1.1/2" | 2"    |
|------------|------|------|------|------|------|--------|--------|-------|
| DN         | 8    | 10   | 15   | 20   | 25   | 32     | 40     | 50    |
| A          | 54   | 54   | 58,5 | 66,5 | 78,5 | 91,5   | 105,5  | 122   |
| B          | 23,5 | 24   | 30,5 | 37   | 45,5 | 57     | 70     | 84    |
| C          | 37   | 37   | 41   | 55   | 59   | 75     | 81     | 96    |
| D          | 80   | 80   | 80   | 113  | 113  | 138    | 138    | 157,8 |
| E          | 8    | 10   | 15   | 20   | 25   | 32     | 39     | 50    |
| F          | 10   | 10   | 12   | 12,5 | 15   | 17     | 18,5   | 22    |
| G          | 10,5 | 10,5 | 11,5 | 13,5 | 14,5 | 17     | 19     | 21    |
| Kg/cm2 bar | 50   | 50   | 50   | 40   | 40   | 30     | 30     | 25    |
| LBS - psi  | 725  | 725  | 725  | 580  | 580  | 435    | 435    | 362,5 |



| Pos. | Description  | N. | Material                                |
|------|--------------|----|-----------------------------------------|
| 1    | End adapter  | 1  | Nickel-plated brass CW617N              |
| 2    | Seat         | 2  | PTFE                                    |
| 3    | Ball         | 1  | Chrome-plated brass CW617N              |
| 4    | Stem         | 1  | Brass CW614N                            |
| 5    | O-ring       | 1  | NBR                                     |
| 6    | O-ring       | 1  | VITON®                                  |
| 7    | Body         | 1  | Nickel-plated brass CW617N              |
| 8    | Lever handle | 1  | Zinc-plated and varnished steel Fe.P.04 |
| 9    | Screw        | 1  | Zinc-plated steel Fe CB4                |

