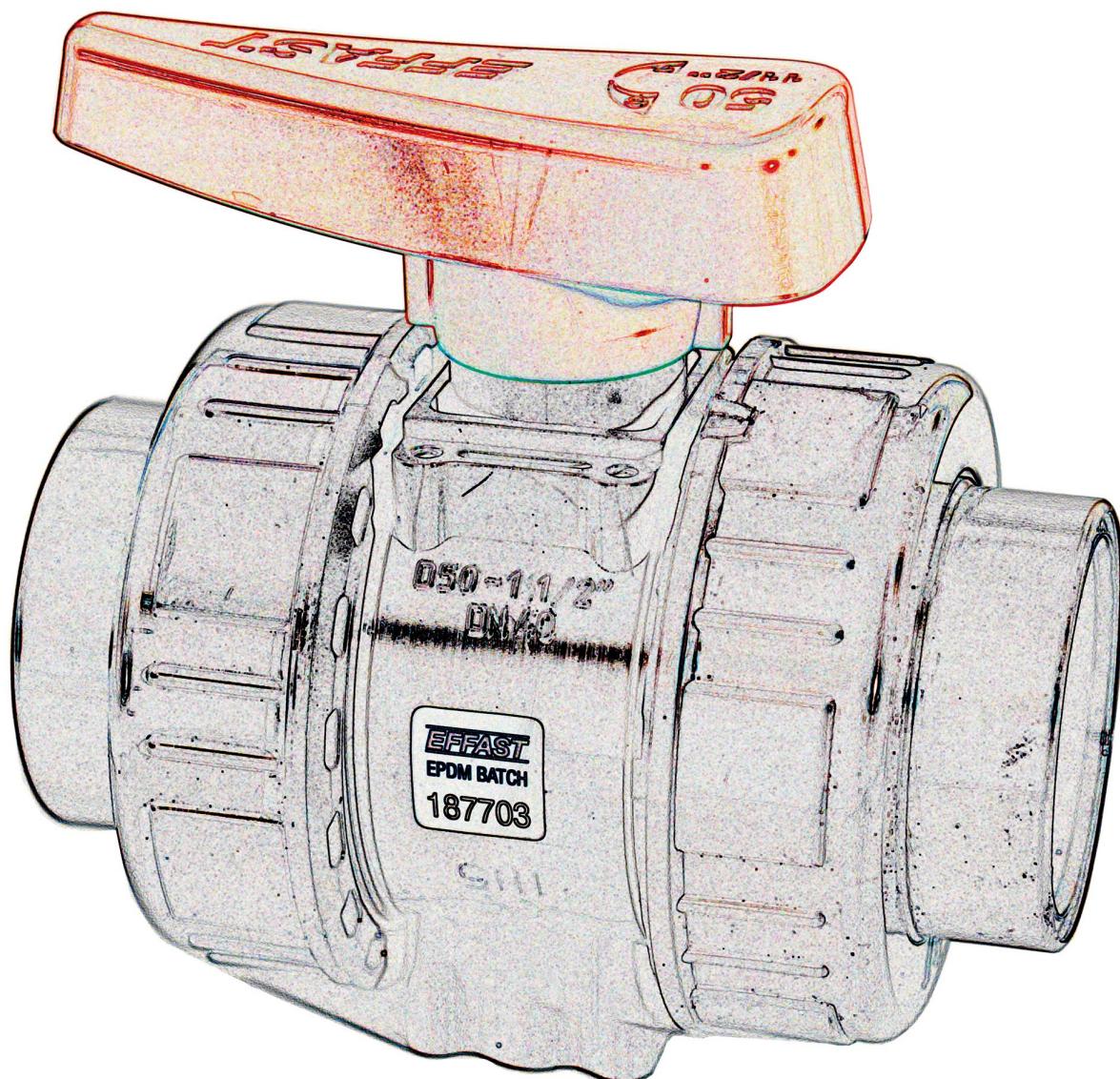


# Tecnical Catalog *Catalogo Tecnico*



PVCu True union ball valves BK1  
*PVCu Valvole a sfera bighiera BK1*

## PVC-U True union ball valves BK1

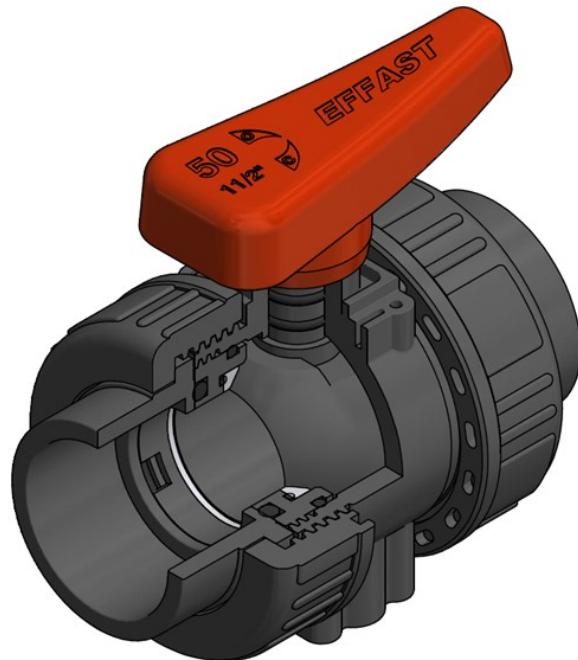
## PVC-U Valvole a sfera bighiera BK1

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PVC-U true union ball BK1 is ideal for heavy duty applications, chemical applications and water treatment. Can also be used with a pneumatic or electric actuator.

*La valvola a sfera bighiera BK1 è ideale per applicazioni gravose in industria chimica e nel settore del trattamento acque. Utilizzabile anche nella versione attuata, elettrica o pneumatica.*

- Full bore ball locked in place on both sides.  
*Sfera di tipo flottante a passaggio totale e bloccata da entrambi i lati.*
- Machined ball to ensure the best sealing.  
*Sfera lavorata per garantire la miglior tenuta.*
- Sealing adjustment and disassembling by key incorporated on the handle.  
*Possibilità di regolazione del supporto guarnizioni tramite la chiave incorporata nella maniglia.*
- Actuated versions available.  
*Disponibile nella versione attuata.*
- PVC-U compound fit for contact with potable water according to European, UK and USA regulations.  
*PVC-U idoneo al contatto con acqua potabile secondo le normative in vigore in Europa, UK, e USA.*
- Marine Application approval.  
*Certificata per applicazioni navali.*
- Compliant with the requirements of Pressure Equipment Directive 2014/68/EU, Annex III, Module A2.  
*Conforme ai requisiti della Direttiva Europea 2014/68/EU sulle attrezzature a pressione, Allegato III, Modulo A2.*



### TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

|  |  |
|--|--|
| NOMINAL PRESSURE / PRESSIONE NOMINALE  | PN 16 (20°C)   |
| DIMENSIONS / DIMENSIONI                | DN 15 ÷ DN 100 (d.16 ÷ 110 mm – 3/8" ÷ 4")   |
| VALVE MATERIAL / MATERIALE VALVOLA     | PVC-U  |
| SEALS MATERIAL / MATERIALE GUARNIZIONI | O-rings: EPDM or FKM / O-ring: EPDM o FKM<br>Ball seats: PTFE / Tenute della sfera: PTFE   |
| TEMPERATURE RANGE / TEMPERATURA        | 0°C ÷ 60°C   |
| COUPLING STANDARDS / GIUNZIONI         | Solvent welded sockets: metric, BS / Manicotti incollaggio: metrici, BS<br>Threaded sockets: BSPP / Manicotti filettati: BSPP<br>EN/ISO/DIN flanges / Flange EN/ISO/DIN<br>HDPE spigots / Manicotti maschio HDPE |
| CONTROL OPTIONS / OPZIONI DI COMANDO   | Hand-operated / Manuale<br>Electrically actuated / Comando elettrico<br>Pneumatically actuated / Comando pneumatico  |



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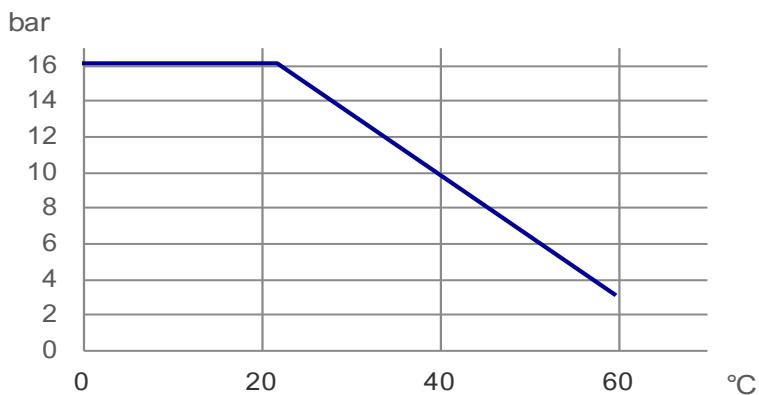
**EFFAST**

## PVC-U True union ball valves BK1 PVC-U Valvole a sfera bighiera BK1

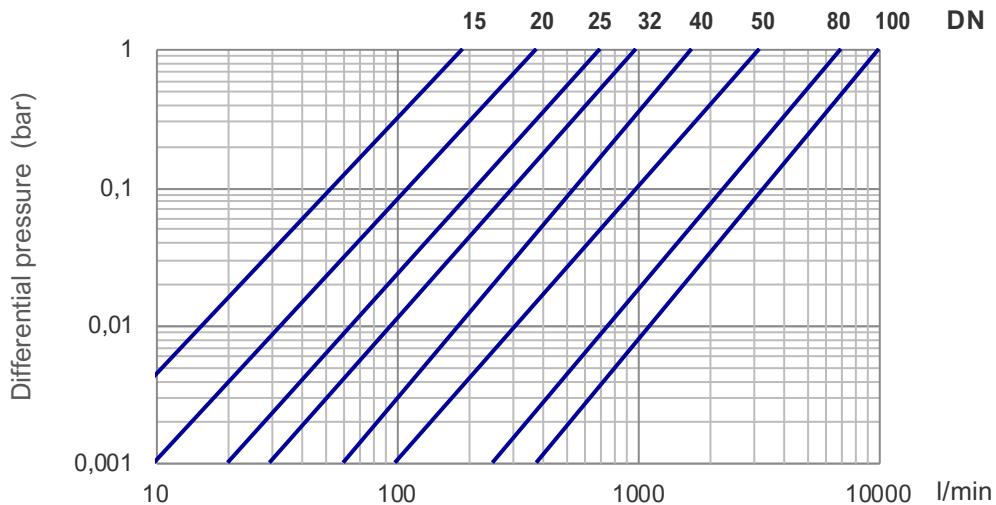
### Operating pressure / Pressione di esercizio

Maximum operating pressure for PVC-U: according to temperature as shown in graph.

*Massima pressione di esercizio per il PVC-U: secondo quanto indicato nel grafico in figura.*



### Pressure loss / Perdite di carico



### Flow rate coefficient Kv100 / Coefficiente di flusso Kv100

At  $\Delta p = 1$  bar / Per  $\Delta p = 1$  bar

| DN    | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 80 | DN 100 |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| l/min | 190   | 380   | 700   | 1000  | 1700  | 3200  | 7000  | 10000  |

### Torque force at maximum pressure rate / Coppia di chiusura alla massima pressione

| DN | DN 15 | DN 20 | DN 25 | DN 32 | DN 40 | DN 50 | DN 80 | DN 100 |
|----|-------|-------|-------|-------|-------|-------|-------|--------|
| Nm | 1.5   | 2     | 3     | 5     | 7     | 10    | 24    | 30     |

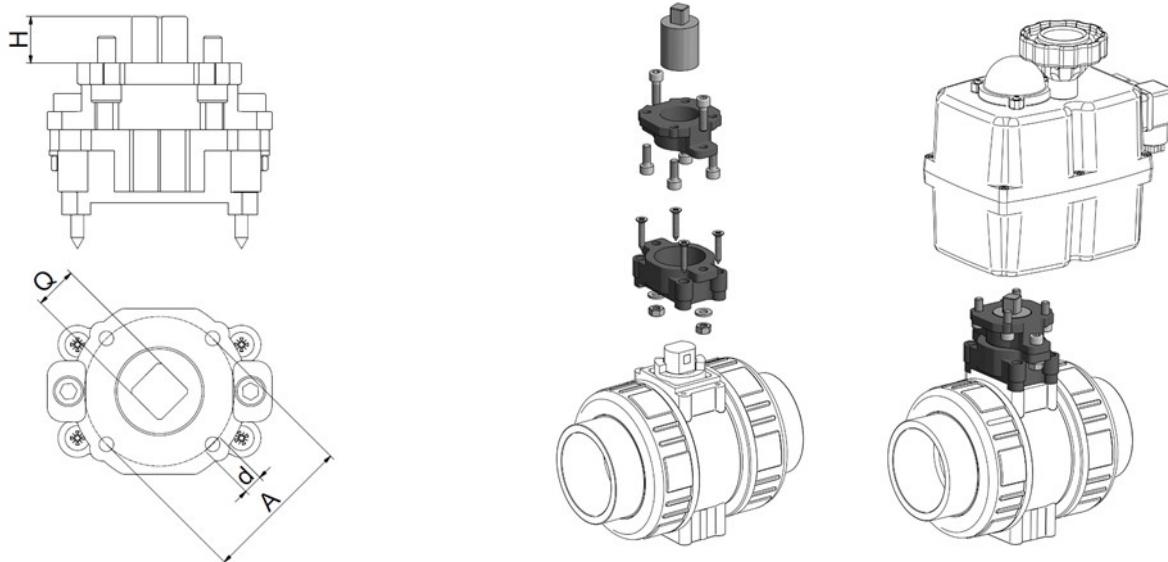
## PVC-U True union ball valves BK1

### PVC-U Valvole a sfera bighiera BK1

#### Actuation and fastening / Attuazione e fissaggio

BK1 ball valve can be actuated with standard electric or pneumatic actuators using the dedicated kit (ref. code BDRKITB1). The mounting flange is drilled according to standard ISO 5211.

*La valvola a sfera BK1 può essere automatizzata mediante attuatore elettrico o pneumatico usando il kit dedicato (rif. codice BDRKITB1). La flangia di accoppiamento è forata secondo lo standard ISO 5211.*



| DN  | d (mm)  | d (in)      | ISO 5211 | A  | d  | Q    | H  |
|-----|---------|-------------|----------|----|----|------|----|
| 15  | 16 - 20 | 3/8" - 1/2" | F05      | 50 | M6 | 14*  | 16 |
| 20  | 25      | 3/4"        | F05      | 50 | M6 | 14*  | 16 |
| 25  | 32      | 1"          | F05      | 50 | M6 | 14*  | 16 |
| 32  | 40      | 1"1/4       | F05      | 50 | M6 | 14*  | 16 |
| 40  | 50      | 1"1/2       | F05      | 50 | M6 | 14*  | 16 |
| 50  | 63      | 2"          | F05      | 50 | M6 | 14*  | 16 |
| 80  | 75 - 90 | 2"1/2 - 3"  | F07      | 70 | M8 | 17** | 19 |
| 100 | 110     | 4"          | F07      | 70 | M8 | 17** | 19 |

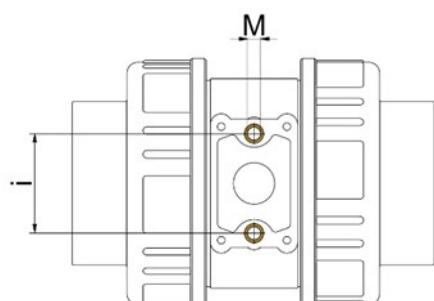
\*) Square 11 on request / Quadro 11 a richiesta   \*\*) Square 14 on request / Quadro 14 a richiesta

BK1 ball valve<sup>1</sup> is provided with integrated threaded inserts that permit to fasten the valve. For wall installation, a dedicated mounting plate can be used (ref. code BDR1BASE/BDR1BASF).

*La valvola a sfera BK1 è dotata di inserti filettati integrati per il fissaggio della valvola. Per installazione a parete, è disponibile la base apposita (rif. codice BDR1BASE/BDR1BASF).*

| DN | d (mm)  | d (in)      | i    | M       |
|----|---------|-------------|------|---------|
| 15 | 16 - 20 | 3/8" - 1/2" | 18   | M4 x 8  |
| 20 | 25      | 3/4"        | 21,5 | M4 x 8  |
| 25 | 32      | 1"          | 28   | M4 x 8  |
| 32 | 40      | 1"1/4       | 30   | M5 x 10 |
| 40 | 50      | 1"1/2       | 38   | M6 x 14 |
| 50 | 63      | 2"          | 45   | M6 x 14 |

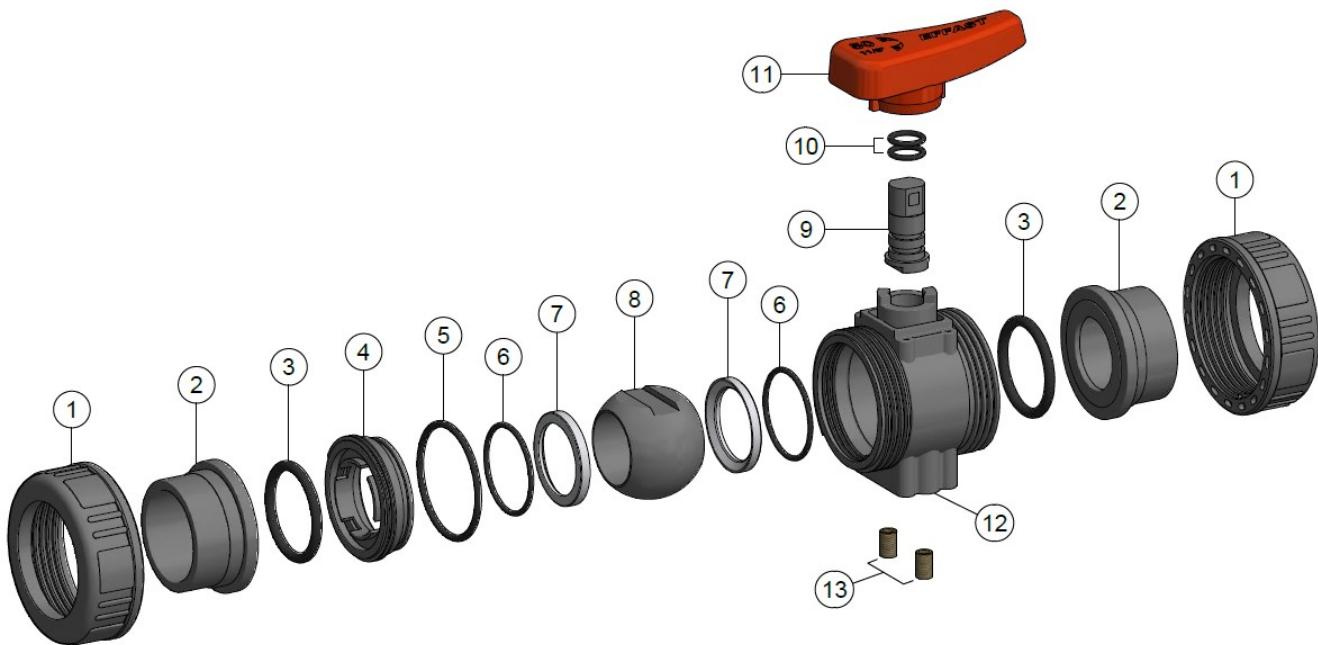
1) From DN 15 to DN 50 / Da DN 15 a DN 50



# PVC-U True union ball valves BK1

## PVC-U Valvole a sfera bighiera BK1

### Components / Componenti



| n. | COMPONENT                             | MATERIAL | Qty |
|----|---------------------------------------|----------|-----|
| 1  | Nut / Ghiera                          | PVC-U    | 2   |
| 2  | Socket / Manicotto                    | PVC-U    | 2   |
| 3  | Socket O-ring / O-ring manicotto      | EPDM/FKM | 2   |
| 4  | Gasket carrier / Supporto guarnizioni | PVC-U    | 1   |
| 5  | Body O-ring / O-ring corpo            | EPDM/FKM | 1   |
| 6  | Ball seat O-ring / O-ring tenute      | EPDM/FKM | 2   |
| 7  | Ball seat / Tenuta sfera              | PTFE     | 2   |

| n. | COMPONENT   | MATERIAL     | Qty |
|----|---|--------------|-----|
| 8  | Ball / Sfera  | PVC-U        | 1   |
| 9  | Stem / Asta   | PVC-U        | 1   |
| 10 | Stem O-ring / O-ring asta                                     | EPDM/FKM     | 2   |
| 11 | Handle / Maniglia   | PVC-U        | 1   |
| 12 | Body / Corpo  | PVC-U        | 1   |
| 13 | Threaded insert <sup>1</sup> / Inserto filettato <sup>1</sup> | Brass/Ottone | 2   |

1) From DN 15 to DN 50 / Da DN 15 a DN 50

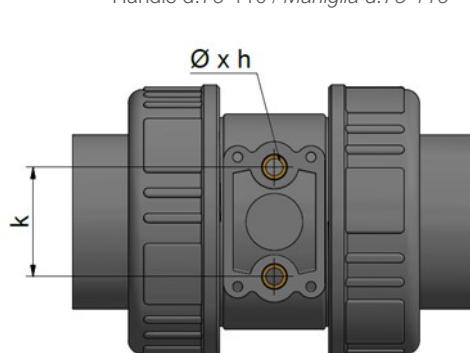
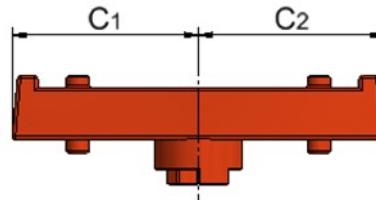
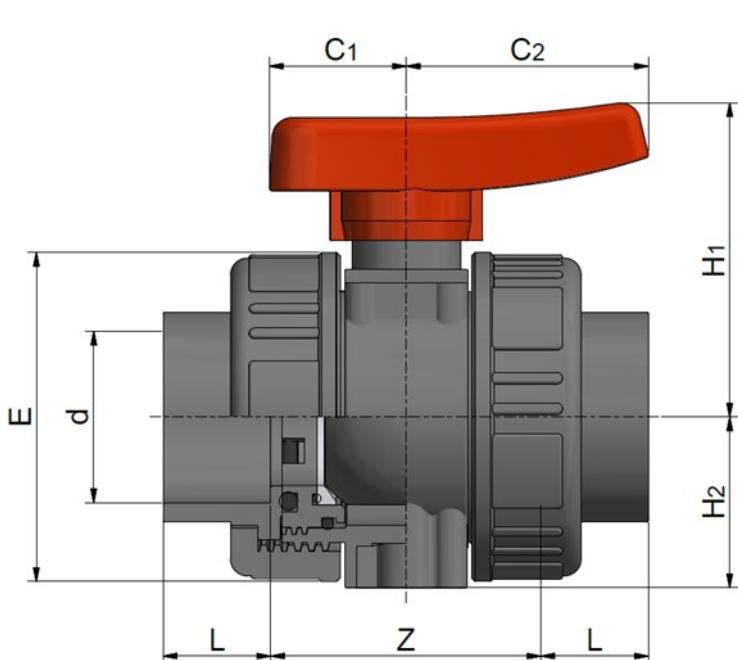
# PVC-U True union ball valves BK1

## PVC-U Valvole a sfera bighiera BK1

### METRIC SOLVENT WELDED SOCKETS MANICOTTI METRICI PER INCOLLAGGIO

- Seals: EPDM or FKM / Guarnizioni: EPDM o FKM
- Ball seats: PTFE / Tenute della sfera: PTFE
- Threaded inserts (d.16-63): brass / Inserti filettati (d.16-63): ottone

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Threaded inserts / Inserti filettati

| Code EPDM   | Code FKM    | d   | DN  | L    | Z   | H1  | H2  | C1   | C2   | E   | k    | Ø x h   | PN | Weight (g) |
|-------------|-------------|-----|-----|------|-----|-----|-----|------|------|-----|------|---------|----|------------|
| BDRBK1D0160 | BDRBK1D016V | 16  | 15  | 14,5 | 51  | 50  | 25  | 22   | 42   | 49  | 18   | M4 x 8  | 16 | 175        |
| BDRBK1D0200 | BDRBK1D020V | 20  | 15  | 16   | 48  | 50  | 25  | 22   | 42   | 49  | 18   | M4 x 8  | 16 | 175        |
| BDRBK1D0250 | BDRBK1D025V | 25  | 20  | 19   | 54  | 58  | 31  | 24   | 49   | 60  | 21,5 | M4 x 8  | 16 | 295        |
| BDRBK1D0320 | BDRBK1D032V | 32  | 25  | 22   | 62  | 69  | 35  | 26   | 59   | 69  | 28   | M4 x 8  | 16 | 340        |
| BDRBK1D0400 | BDRBK1D040V | 40  | 32  | 26   | 69  | 76  | 41  | 32   | 65   | 80  | 30   | M5 x 10 | 16 | 548        |
| BDRBK1D0500 | BDRBK1D050V | 50  | 40  | 31   | 81  | 92  | 50  | 40   | 71   | 96  | 38   | M6 x 14 | 16 | 786        |
| BDRBK1D0630 | BDRBK1D063V | 63  | 50  | 39   | 94  | 104 | 62  | 45   | 79   | 116 | 45   | M6 x 14 | 16 | 1282       |
| BDRBK1D0750 | BDRBK1D075V | 75  | 65  | 44   | 141 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3568       |
| BDRBK1D0900 | BDRBK1D090V | 90  | 80  | 51   | 140 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3484       |
| BDRBK1D1100 | BDRBK1D110V | 110 | 100 | 61   | 162 | 170 | 105 | 102  | 102  | 209 | -    | -       | 16 | 6200       |



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# PVC-U True union ball valves BK1

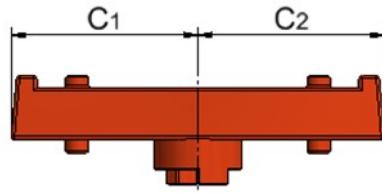
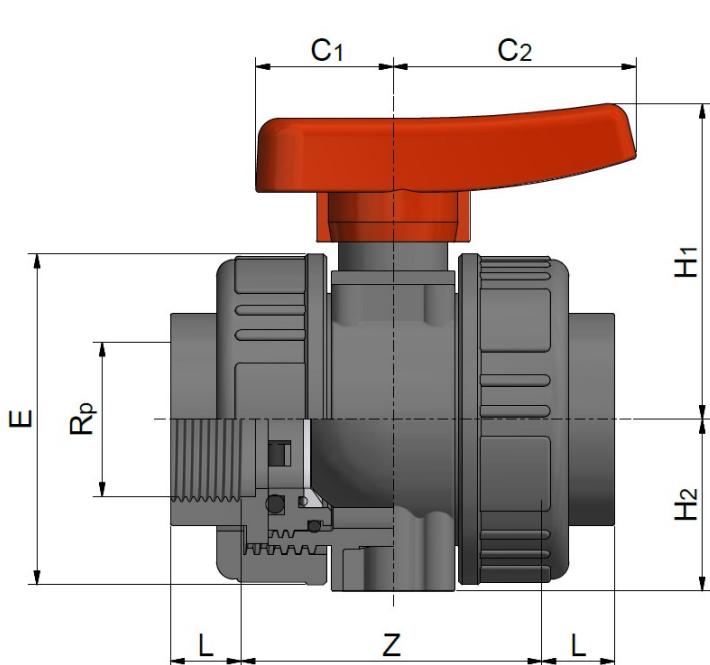
## PVC-U Valvole a sfera bighiera BK1

### BSPP THREADED SOCKETS

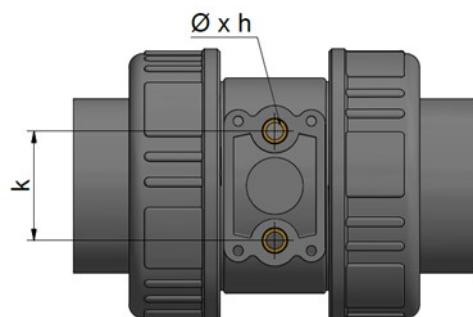
### MANICOTTI FILETTATI BSPP

- Thread according to ISO 228-1 / Filettatura secondo ISO 228-1
- Seals: EPDM or FKM / Guarnizioni: EPDM o FKM
- Ball seats: PTFE / Tenute della sfera: PTFE
- Threaded inserts (d.16-63): brass / Inserti filettati (d.16-63): ottone

Rev. Feb 2021



Handle d.75-110 / Maniglia d.75-110



Threaded inserts / Inserti filettati

| Code EPDM   | Code FKM    | Rp    | DN  | L <sub>min</sub> | Z <sub>max</sub> | H1  | H2  | C1   | C2   | E   | k    | Ø x h | PN | Weight (g) |
|-------------|-------------|-------|-----|------------------|------------------|-----|-----|------|------|-----|------|-------|----|------------|
| BERBK1E016A | BERBK1E016V | 3/8"  | 15  | 11,4             | 57,2             | 50  | 25  | 22   | 42   | 49  | 18   | M4x8  | 16 | 185        |
| BERBK1E020B | BERBK1E020V | 1/2"  | 15  | 15               | 50               | 50  | 25  | 22   | 42   | 49  | 18   | M4x8  | 16 | 195        |
| BERBK1E025C | BERBK1E025V | 3/4"  | 20  | 16,3             | 59,4             | 58  | 31  | 24   | 49   | 60  | 21,5 | M4x8  | 16 | 346        |
| BERBK1E032D | BERBK1E032V | 1"    | 25  | 19,5             | 67               | 69  | 35  | 26   | 59   | 69  | 28   | M4x8  | 16 | 346        |
| BERBK1E040E | BERBK1E040V | 1"1/4 | 32  | 21,4             | 78,2             | 76  | 41  | 32   | 65   | 80  | 30   | M5x10 | 16 | 550        |
| BERBK1E050F | BERBK1E050V | 1"1/2 | 40  | 21,4             | 87,2             | 92  | 50  | 40   | 71   | 96  | 38   | M6x14 | 16 | 800        |
| BERBK1E063G | BERBK1E063V | 2"    | 50  | 25,7             | 98,6             | 104 | 62  | 45   | 79   | 116 | 45   | M6x14 | 16 | 1270       |
| BERBK1E075H | BERBK1E075V | 2"1/2 | 65  | 30,2             | 168,6            | 145 | 84  | 84,5 | 84,5 | 167 | -    | -     | 16 | 3519       |
| BERBK1E090I | BERBK1E090V | 3"    | 80  | 33,3             | 146,4            | 145 | 84  | 84,5 | 84,5 | 167 | -    | -     | 16 | 3519       |
| BERBK1E110L | BERBK1E110V | 4"    | 100 | 39,3             | 205,4            | 170 | 105 | 102  | 102  | 209 | -    | -     | 16 | 6191       |



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# PVC-U True union ball valves BK1

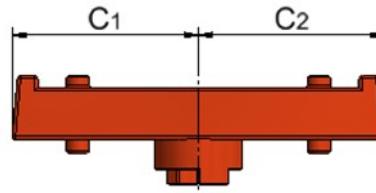
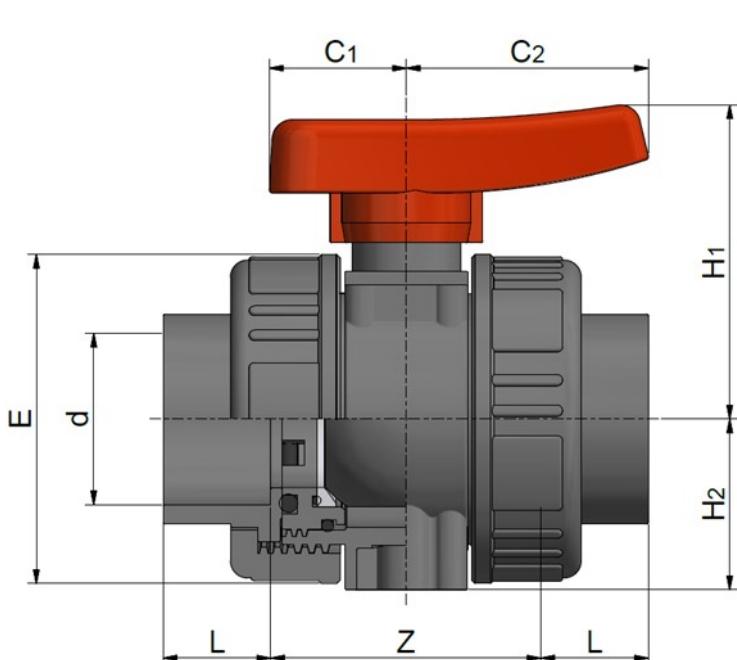
## PVC-U Valvole a sfera bighiera BK1

### BS SOLVENT WELDED SOCKETS

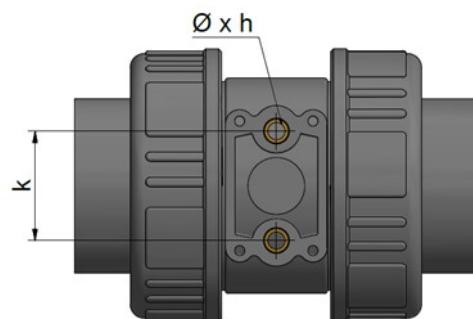
### MANICOTTI BS PER INCOLLAGGIO

- Seals: EPDM or FKM / Guarnizioni: EPDM o FKM
- Ball seats: PTFE / Tenute della sfera: PTFE
- Threaded inserts (d.16-63): brass / Inserti filettati (d.16-63): ottone

Rev. Feb 2021



Handle d.75-110 / Maniglia d.75-110



Threaded inserts / Inserti filettati

| Code EPDM   | Code FKM    | d     | DN  | L    | Z   | H1  | H2  | C1   | C2   | E   | k    | Ø x h   | PN | Weight (g) |
|-------------|-------------|-------|-----|------|-----|-----|-----|------|------|-----|------|---------|----|------------|
| BARBK1A0160 | BARBK1A016V | 3/8"  | 15  | 14,5 | 51  | 50  | 25  | 22   | 42   | 49  | 18   | M4 x 8  | 16 | 175        |
| BARBK1A0200 | BARBK1A020V | 1/2"  | 15  | 16   | 48  | 50  | 25  | 22   | 42   | 49  | 18   | M4 x 8  | 16 | 175        |
| BARBK1A0250 | BARBK1A025V | 3/4"  | 20  | 19   | 54  | 58  | 31  | 24   | 49   | 60  | 21,5 | M4 x 8  | 16 | 287        |
| BARBK1A0320 | BARBK1A032V | 1"    | 25  | 22   | 62  | 69  | 35  | 26   | 59   | 69  | 28   | M4 x 8  | 16 | 338        |
| BARBK1A0400 | BARBK1A040V | 1"1/4 | 32  | 26   | 69  | 76  | 41  | 32   | 65   | 80  | 30   | M5 x 10 | 16 | 550        |
| BARBK1A0500 | BARBK1A050V | 1"1/2 | 40  | 31   | 81  | 92  | 50  | 40   | 71   | 96  | 38   | M6 x 14 | 16 | 800        |
| BARBK1A0630 | BARBK1A063V | 2"    | 50  | 39   | 94  | 104 | 62  | 45   | 79   | 116 | 45   | M6 x 14 | 16 | 1315       |
| BARBK1A0750 | BARBK1A075V | 2"1/2 | 65  | 44   | 141 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3568       |
| BARBK1A0900 | BARBK1A090V | 3"    | 80  | 51   | 140 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3568       |
| BARBK1A1100 | BARBK1A110V | 4"    | 100 | 61   | 162 | 170 | 105 | 102  | 102  | 209 | -    | -       | 16 | 6140       |



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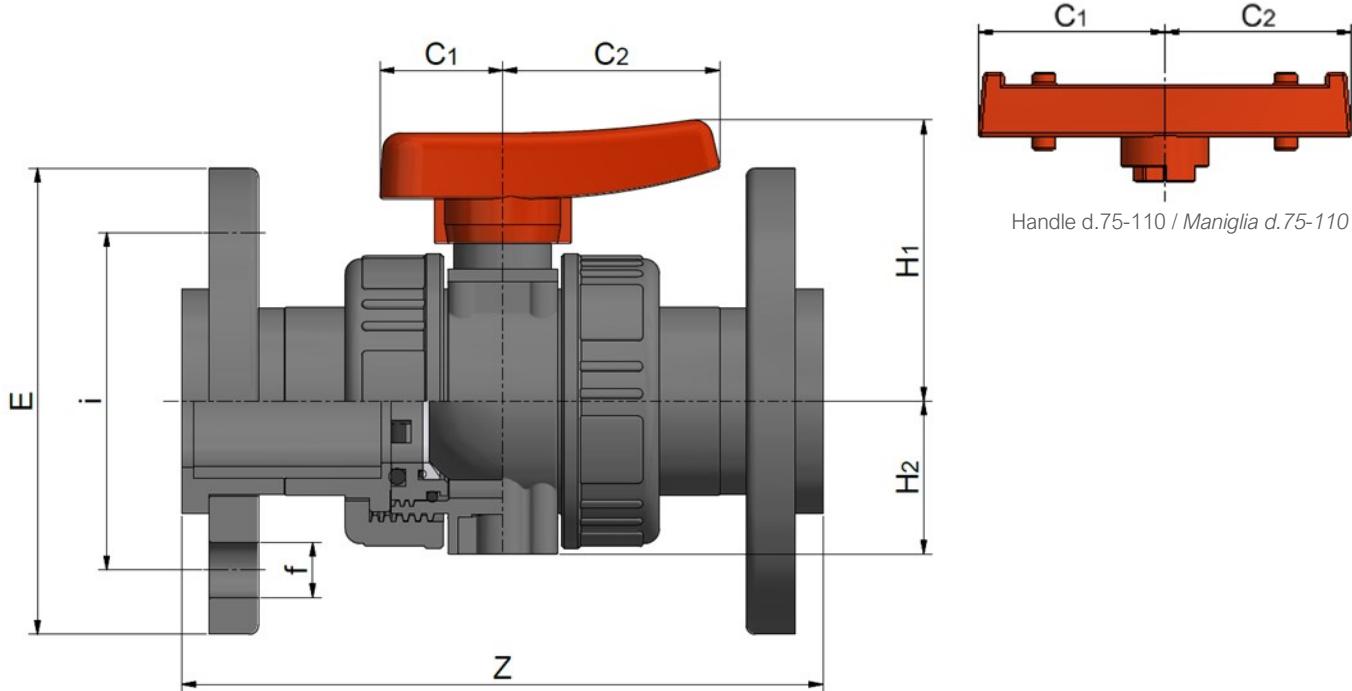
# PVC-U True union ball valves BK1

## PVC-U Valvole a sfera bighiera BK1

### FLANGED EN/ISO/DIN FLANGIATA EN/ISO/DIN

- With EPDM or FKM flat gaskets / Con guarnizioni piane in EPDM o in FKM
- Seals: EPDM or FKM / Guarnizioni: EPDM o FKM
- Ball seats: PTFE / Tenute della sfera: PTFE

Rev. Feb 2021



| Code EPDM   | Code FKM    | d   | DN  | Z   | H1  | H2  | C1   | C2   | E   | i   | f  | Bolts/<br>Bulloni | PN | Weight<br>(g) |
|-------------|-------------|-----|-----|-----|-----|-----|------|------|-----|-----|----|-------------------|----|---------------|
| BDRBK1F0200 | BDRBK1F020V | 20  | 15  | 118 | 50  | 25  | 22   | 42   | 95  | 65  | 14 | 4 x M12           | 16 | 399           |
| BDRBK1F0250 | BDRBK1F025V | 25  | 20  | 138 | 58  | 31  | 24   | 49   | 105 | 75  | 14 | 4 x M12           | 16 | 585           |
| BDRBK1F0320 | BDRBK1F032V | 32  | 25  | 158 | 69  | 35  | 26   | 59   | 115 | 85  | 14 | 4 x M12           | 16 | 754           |
| BDRBK1F0400 | BDRBK1F040V | 40  | 32  | 179 | 76  | 41  | 32   | 65   | 142 | 100 | 18 | 4 x M16           | 16 | 1158          |
| BDRBK1F0500 | BDRBK1F050V | 50  | 40  | 215 | 92  | 50  | 40   | 71   | 152 | 110 | 18 | 4 x M16           | 16 | 1572          |
| BDRBK1F0630 | BDRBK1F063V | 63  | 50  | 256 | 104 | 62  | 45   | 79   | 165 | 125 | 18 | 4 x M16           | 16 | 2362          |
| BDRBK1F0750 | BDRBK1F075V | 75  | 65  | 327 | 145 | 84  | 84,5 | 84,5 | 185 | 145 | 18 | 4 x M16           | 16 | 5001          |
| BDRBK1F0900 | BDRBK1F090V | 90  | 80  | 353 | 145 | 84  | 84,5 | 84,5 | 200 | 160 | 18 | 8 x M16           | 16 | 5525          |
| BDRBK1F1100 | BDRBK1F110V | 110 | 100 | 416 | 170 | 105 | 102  | 102  | 220 | 180 | 18 | 8 x M16           | 16 | 8971          |



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# PVC-U True union ball valves BK1

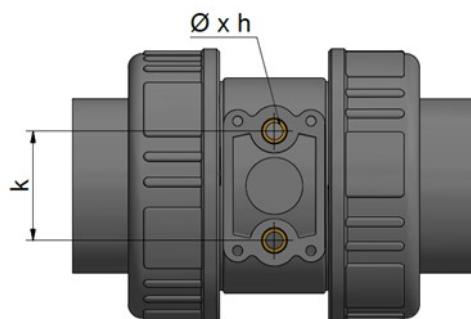
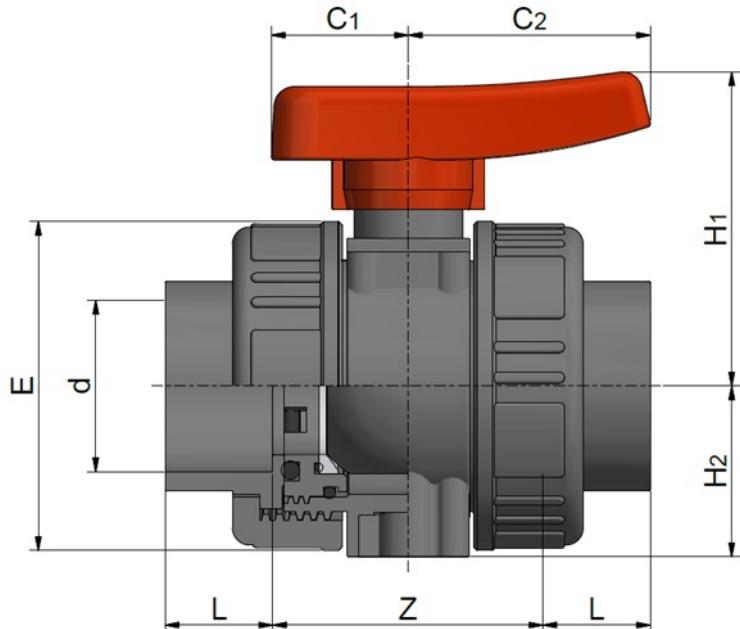
## PVC-U Valvole a sfera bighiera BK1

### ASTM SOLVENT WELDED SOCKETS

### MANICOTTI ASTM PER INCOLLAGGIO

- With EPDM or FKM flat gaskets / Con guarnizioni piane in EPDM o in FKM
- Seals: EPDM or FKM / Guarnizioni: EPDM o FKM
- Ball seats: PTFE / Tenute della sfera: PTFE

Rev. Feb 2021



Threaded inserts / Inserti filettati

| Code EPDM   | Code FKM    | d     | DN | L    | Z    | H1  | H2 | C1 | C2 | E   | k    | Ø x h   | PN | Weight (g) |
|-------------|-------------|-------|----|------|------|-----|----|----|----|-----|------|---------|----|------------|
| BSRBK1S0200 | BSRBK1S020V | 1/2"  | 15 | 23   | 48   | 50  | 25 | 22 | 42 | 49  | 18   | M4 x 8  | 16 | 175        |
| BSRBK1S0250 | BSRBK1S025V | 3/4"  | 20 | 26   | 60   | 58  | 31 | 24 | 49 | 60  | 21,5 | M4 x 8  | 16 | 295        |
| BSRBK1S0320 | BSRBK1S032V | 1"    | 25 | 29   | 63   | 69  | 35 | 26 | 59 | 69  | 28   | M4 x 8  | 16 | 340        |
| BSRBK1S0400 | BSRBK1S040V | 1"1/4 | 32 | 32   | 68   | 76  | 41 | 32 | 65 | 80  | 30   | M5 x 10 | 16 | 548        |
| BSRBK1S0500 | BSRBK1S050V | 1"1/2 | 40 | 36,5 | 80   | 92  | 50 | 40 | 71 | 96  | 38   | M6 x 14 | 16 | 786        |
| BSRBK1S0630 | BSRBK1S063V | 2"    | 50 | 38   | 94,5 | 104 | 62 | 45 | 79 | 116 | 45   | M6 x 14 | 16 | 1282       |



Certified to  
NSF/ANSI/CAN 61



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /  
Certificazioni NSF e WRAS: valide solo per le valvole con guarnizioni EPDM. Le certificazioni si riferiscono ai prodotti dichiarati nelle Official Listing o sui certificati stessi.

# PVC-U True union ball valves BK1

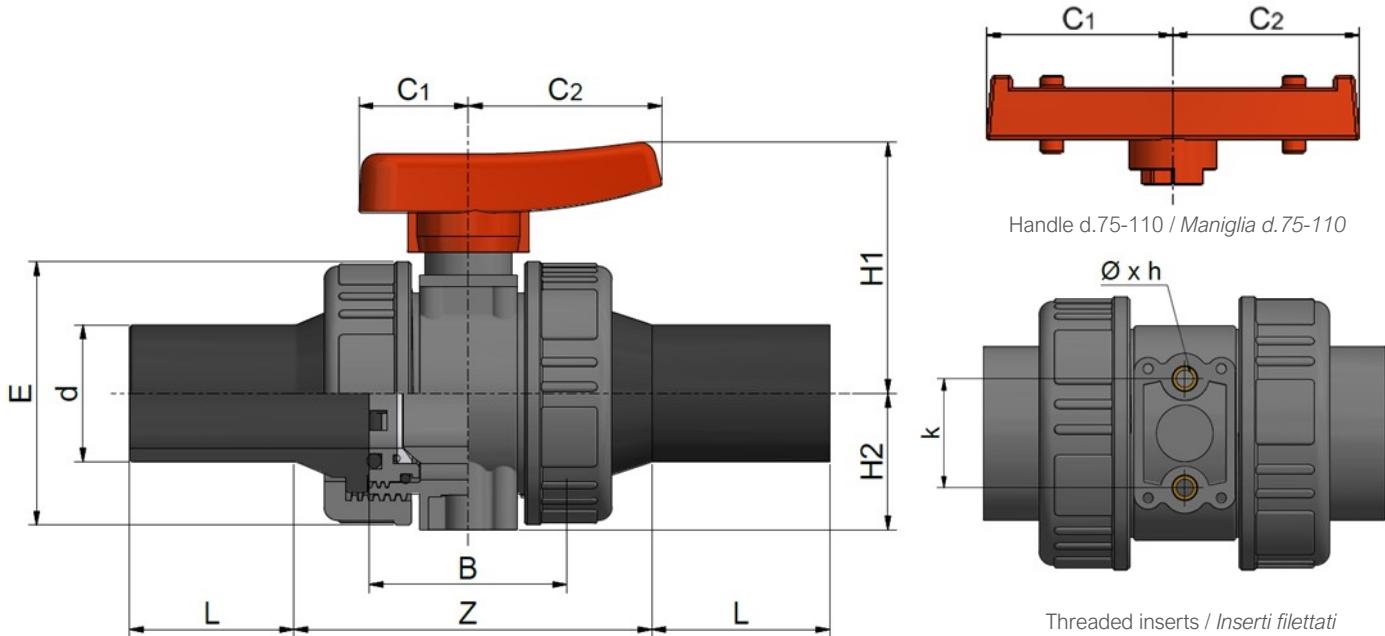
## PVC-U Valvole a sfera bighiera BK1

### HDPE SPIGOTS

### MANICOTTI MASCHIO HDPE

- Seals: EPDM or FKM / *Guarnizioni: EPDM o FKM*
- Ball seats: PTFE / *Tenute della sfera: PTFE*
- Threaded inserts (d.16-63): brass / *Inserti filettati (d.16-63): ottone*

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| Code EPDM   | d   | DN  | L   | Z   | B   | H1  | H2  | C1   | C2   | E   | k    | Ø x h   | PN | Weight (g) |
|-------------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|---------|----|------------|
| BDRBK1P0200 | 20  | 15  | 45  | 85  | 44  | 50  | 25  | 22   | 42   | 49  | 18   | M4 x 8  | 16 | 187        |
| BDRBK1P0250 | 25  | 20  | 50  | 100 | 49  | 58  | 31  | 24   | 49   | 60  | 21,5 | M4 x 8  | 16 | 297        |
| BDRBK1P0320 | 32  | 25  | 70  | 103 | 56  | 69  | 35  | 26   | 59   | 69  | 28   | M4 x 8  | 16 | 370        |
| BDRBK1P0400 | 40  | 32  | 60  | 116 | 62  | 76  | 41  | 32   | 65   | 80  | 30   | M5 x 10 | 16 | 570        |
| BDRBK1P0500 | 50  | 40  | 65  | 134 | 73  | 92  | 50  | 40   | 71   | 96  | 38   | M6 x 14 | 16 | 846        |
| BDRBK1P0630 | 63  | 50  | 75  | 166 | 87  | 104 | 62  | 45   | 79   | 116 | 45   | M6 x 14 | 16 | 1420       |
| BDRBK1P0750 | 75  | 65  | 95  | 195 | 130 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3724       |
| BDRBK1P0900 | 90  | 80  | 97  | 210 | 130 | 145 | 84  | 84,5 | 84,5 | 167 | -    | -       | 16 | 3770       |
| BDRBK1P1100 | 110 | 100 | 110 | 238 | 152 | 170 | 105 | 102  | 102  | 209 | -    | -       | 16 | 6440       |



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