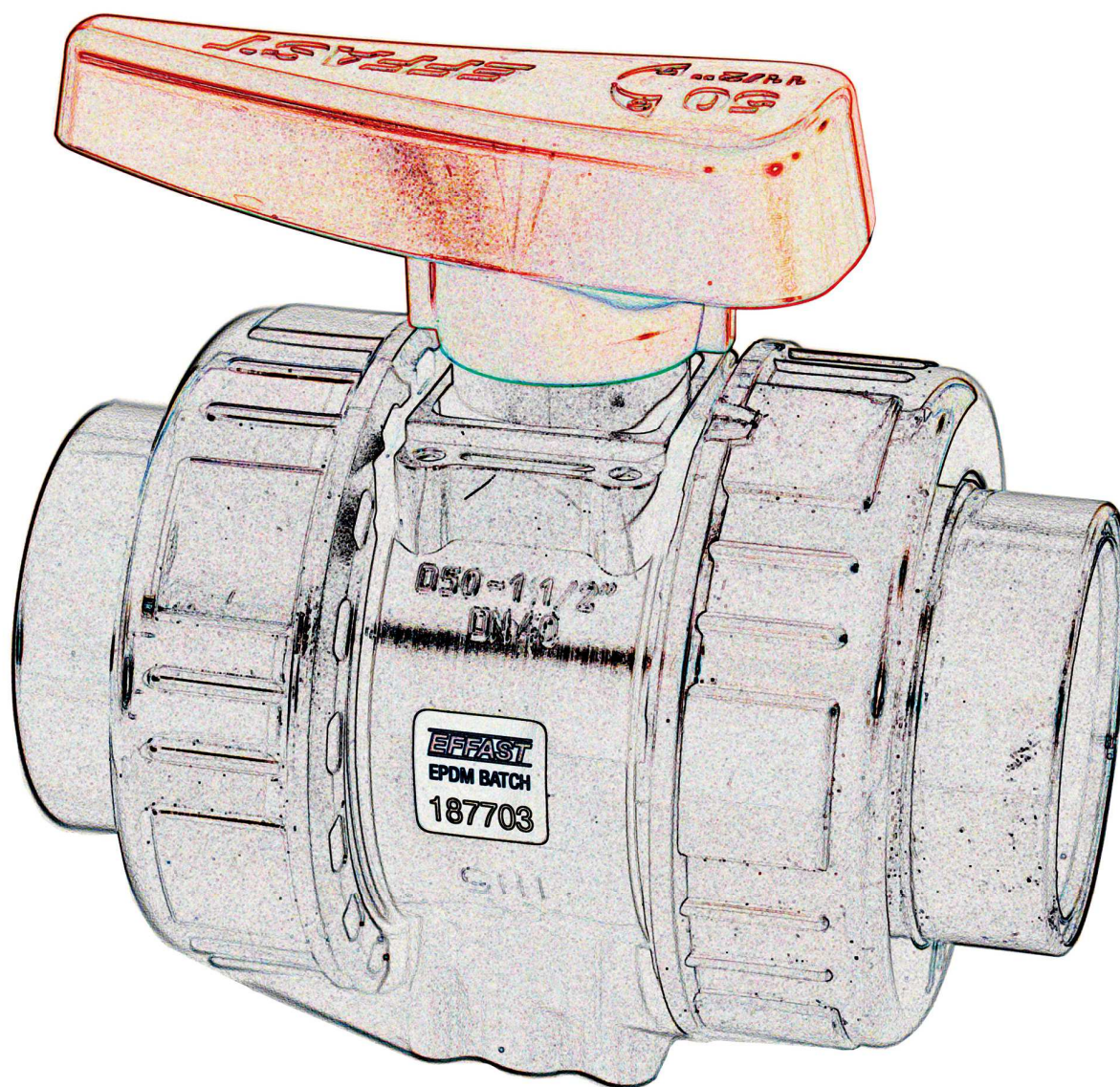




ABS Double union ball valves BK1
ABS Valvole a sfera radiali BK1

ABS Double union ball valves BK1

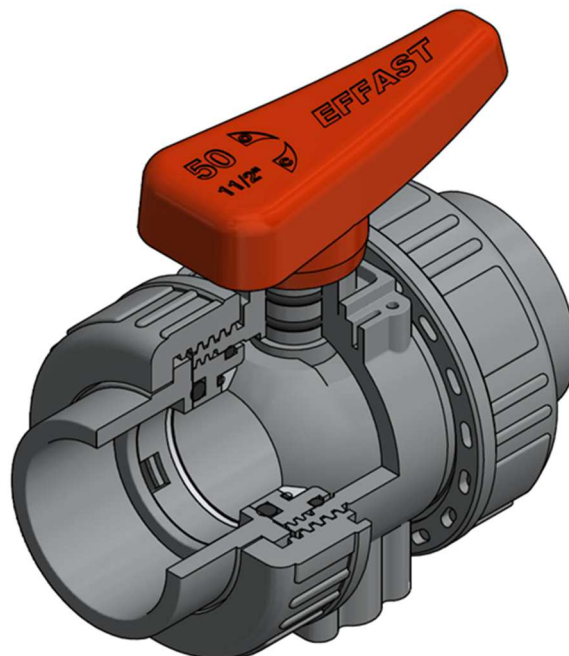
ABS Valvole a sfera radiali BK1

Rev. Mar 2020

With good chemicals resistance, lightness and easy to use, ABS double union ball valve BK1 is ideal for low temperature fluid transport.

Con una buona resistenza chimica, grazie alla sua leggerezza e facilità di utilizzo, la valvola a sfera BK1 in ABS è ideale per il trasporto di fluidi a basse temperature.

- Floating 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.
- 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 15 (20°C)
DIMENSIONS / DIMENSIONI	DN 15 ÷ DN 100 (d.3/8" ÷ 4")
VALVE MATERIAL / MATERIALE VALVOLA	ABS
SEALS MATERIAL / MATERIALE GUARNIZIONI	O-rings: EPDM or FKM / O-ring: EPDM o FKM Ball seats: PTFE / Tenute della sfera: PTFE
TEMPERATURE RANGE / TEMPERATURA	-40°C ÷ 60°C
COUPLING STANDARDS / GIUNZIONI	Solvent welded sockets: BS / Manicotti incollaggio: BS
CONTROL OPTIONS / OPZIONI DI COMANDO	Hand-operated / Manuale Electrically actuated / Comando elettrico Pneumatically actuated / Comando pneumatico



Certifications and approvals: only for items declared on Official Listing or certificates. / Certificazioni: solo per gli articoli dichiarati nelle Official Listing o nei certificati stessi.

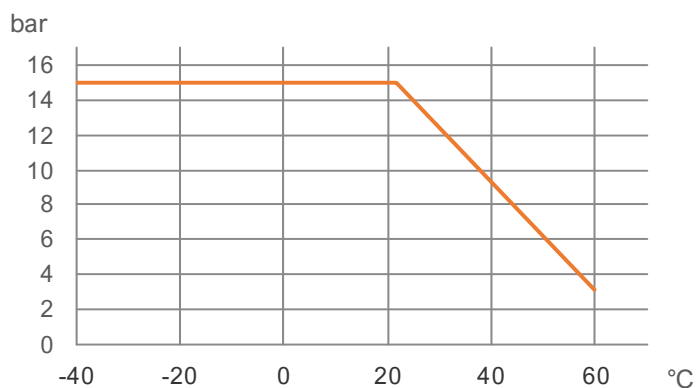
ABS Double union ball valves BK1

ABS Valvole a sfera radiali BK1

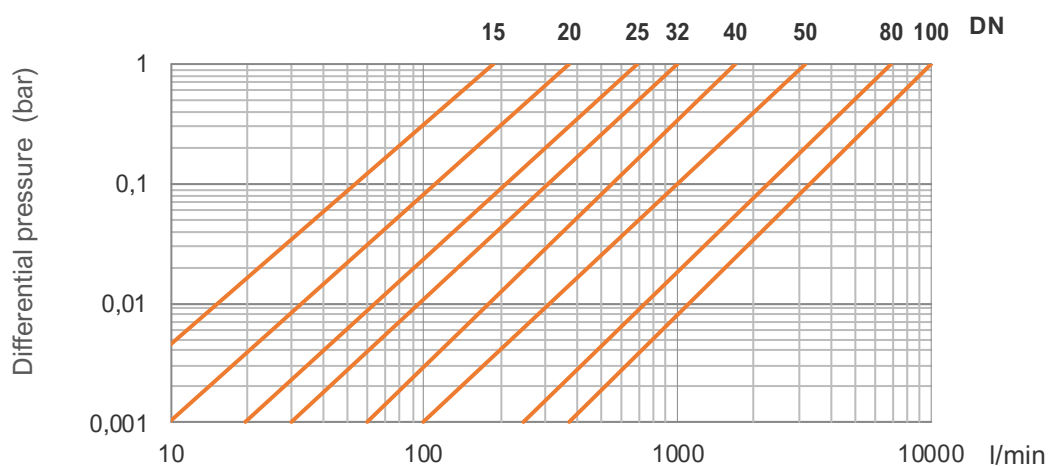
Operating pressure / Pressione di esercizio

Maximum operating pressure for ABS: according to temperature as shown in graph.

Massima pressione di esercizio per ABS: 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

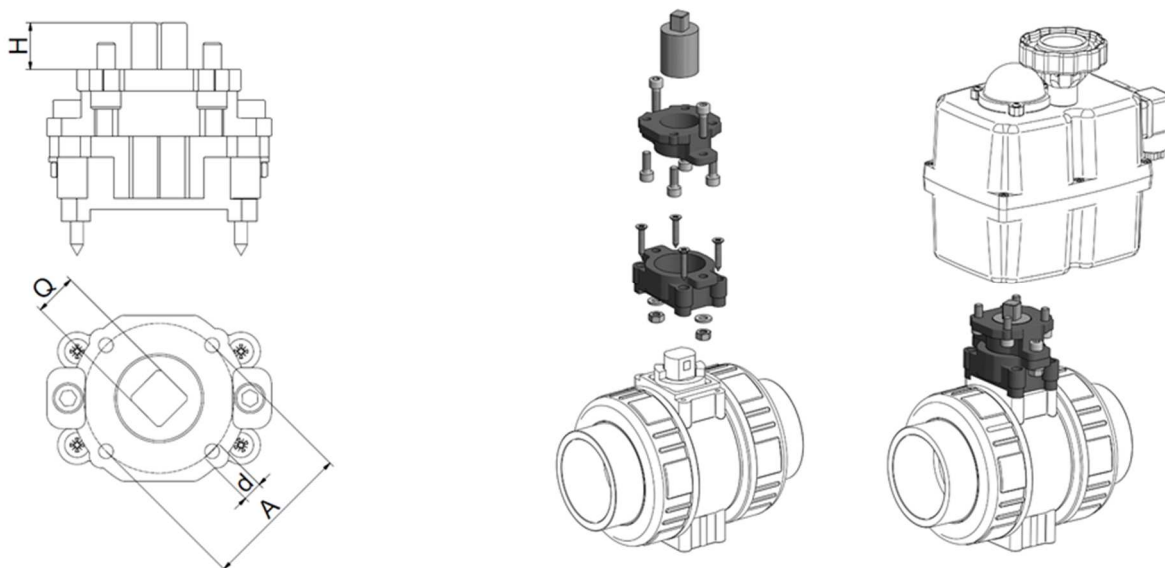
ABS Double union ball valves BK1

ABS Valvole a sfera radiali 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 (in)	ISO 5211	A	d	Q	H
15	3/8" - 1/2"	F05	50	M6	14*	16
20	3/4"	F05	50	M6	14*	16
25	1"	F05	50	M6	14*	16
32	1 1/4"	F05	50	M6	14*	16
40	1 1/2"	F05	50	M6	14*	16
50	2"	F05	50	M6	14*	16
80	2 1/2" - 3"	F07	70	M8	17**	19
100	4"	F07	70	M8	17**	19

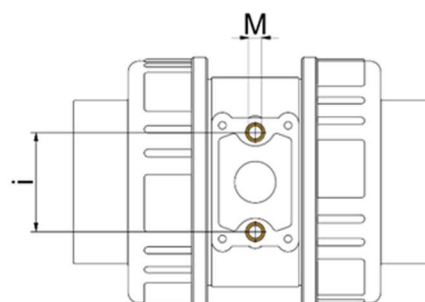
*) Square 11 on request / Quadro 11 a richiesta **) Square 14 on request / Quadro 14 a richiesta

BK1 ball valve¹ 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 (in)	i	M
15	3/8" - 1/2"	18	M4 x 8
20	3/4"	21,5	M4 x 8
25	1"	28	M4 x 8
32	1 1/4"	30	M5 x 10
40	1 1/2"	38	M6 x 14
50	2"	45	M6 x 14

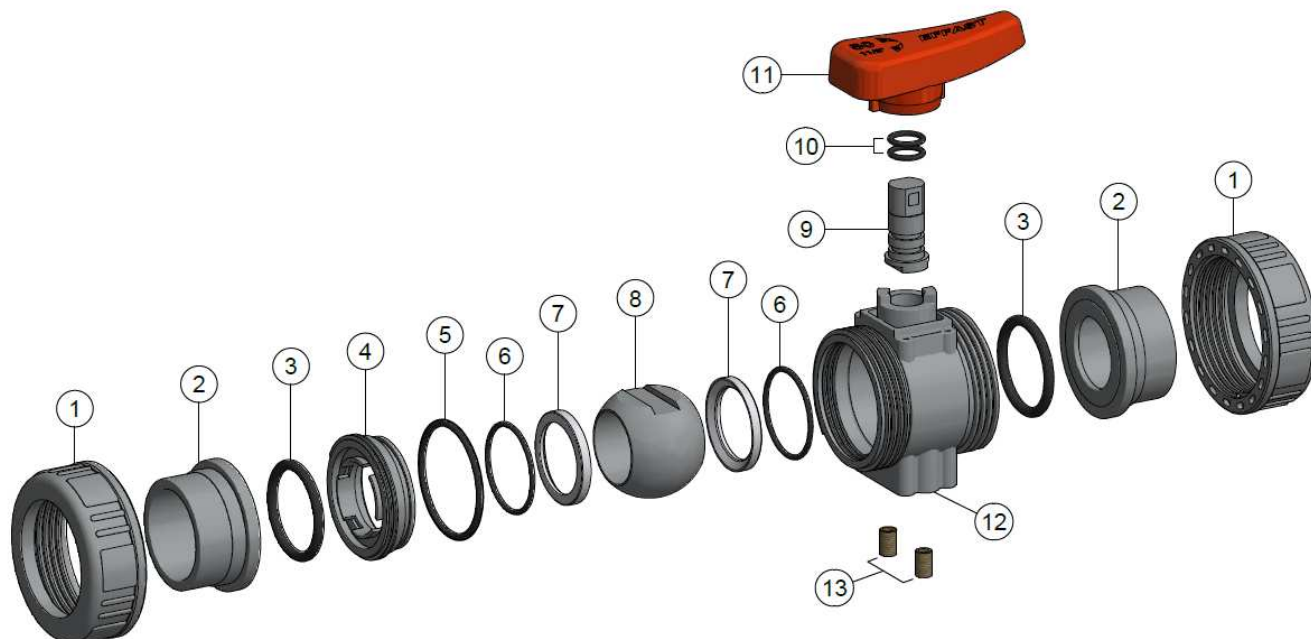
1) From DN 15 to DN 50 / Da DN 15 a DN 50



ABS Double union ball valves BK1

ABS Valvole a sfera radiali BK1

Components / Componenti



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

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

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

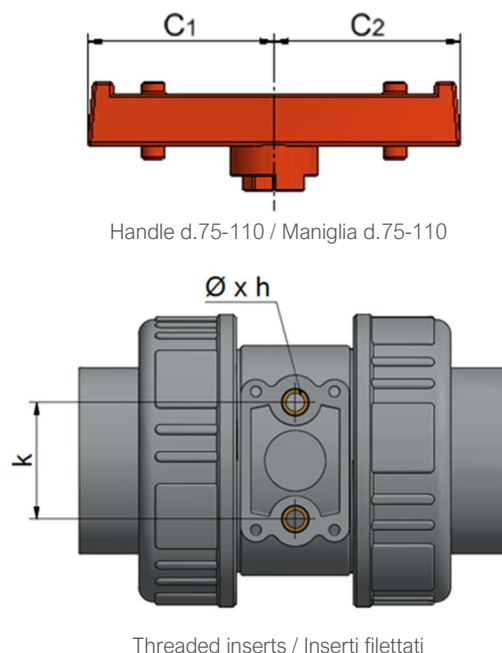
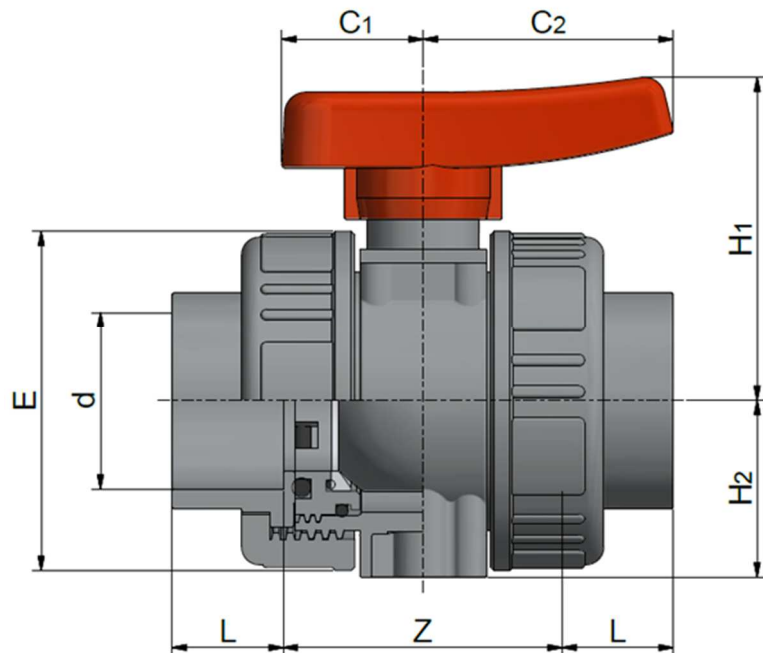
ABS Double union ball valves BK1

ABS Valvole a sfera radiali BK1

BS SOLVENT WELDED SOCKETS MANICOTTI BS PER INCOLLAGGIO

Rev. Feb 2020

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



Code EPDM	Code FKM	d	DN	L	Z	H1	H2	C1	C2	E	k	Ø x h	PN	Weight (g)
BAABK1A0160	BAABK1A016V	3/8"	15	14,5	51	50	25	22	42	49	18	M4 x 8	16	175
BAABK1A0200	BAABK1A020V	1/2"	15	16	48	50	25	22	42	49	18	M4 x 8	16	175
BAABK1A0250	BAABK1A025V	3/4"	20	19	54	58	31	24	49	60	21,5	M4 x 8	16	287
BAABK1A0320	BAABK1A032V	1"	25	22	62	69	35	26	59	69	28	M4 x 8	16	338
BAABK1A0400	BAABK1A040V	1"1/4	32	26	69	76	41	32	65	80	30	M5 x 10	16	550
BAABK1A0500	BAABK1A050V	1"1/2	40	31	81	92	50	40	71	96	38	M6 x 14	16	800
BAABK1A0630	BAABK1A063V	2"	50	39	94	104	62	45	79	116	45	M6 x 14	16	1315
BAABK1A0750	BAABK1A075V	2"1/2	80	44	141	145	84	84,5	84,5	167	-	-	16	3568
BAABK1A0900	BAABK1A090V	3"	80	51	140	145	84	84,5	84,5	167	-	-	16	3568
BAABK1A1100	BAABK1A110V	4"	100	61	162	170	105	102	102	209	-	-	16	6140



NSF and WRAS certifications: only for valves with EPDM seals. Certifications and approvals are related to items declared on Official Listing or certificates. /
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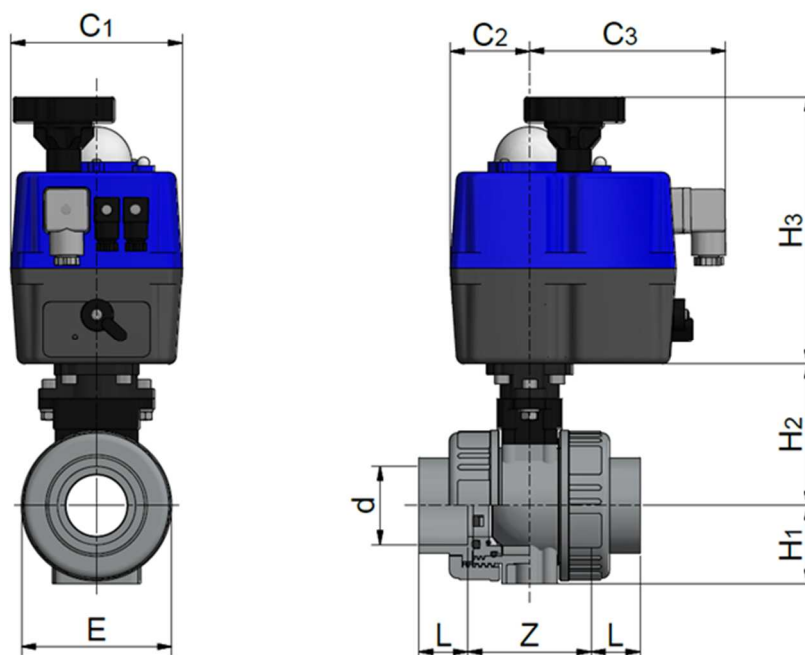
ABS Actuated industrial ball valves BK1

ABS Valvole a sfera industria attuate BK1

ELECTRICALLY ACTUATED 12 V - BS SOLVENT WELDED SOCKETS
A COMANDO ELETTRICO 12 V - MANICOTTI BS PER INCOLLAGGIO

Rev. Dec 2019

- Seals: EPDM or FKM / *Guarnizioni: EPDM o FKM*
- Ball seats: PTFE / *Tenute della sfera: PTFE*



Code EPDM	Code FKM	d	DN	L	Z	E	C1	C2	C3	H1	H2	H3	PN	Weight (g)
BAAEBK1JA0200	BAAEBK1JA020V	3/8"	15	16	48	49	110	51	130	25	58	169	16	2465
BAAEBK1JA0250	BAAEBK1JA025V	1/2"	20	19	54	60	110	51	130	31	65	169	16	2568
BAAEBK1JA0320	BAAEBK1JA032V	3/4"	25	22	62	69	110	51	130	35	74,5	169	16	2615
BAAEBK1JA0400	BAAEBK1JA040V	1"	32	26	69	80	110	51	130	41	82	169	16	2816
BAAEBK1JA0500	BAAEBK1JA050V	1"1/4	40	31	81	96	110	51	130	50	90	169	16	3145
BAAEBK1JA0630	BAAEBK1JA063V	1"1/2	50	39	94	116	110	51	130	62	102,5	169	16	3137
BAAEBK1JA0750	BAAEBK1JA075V	2"	65	44	141	167	110	51	130	84	117,5	196	16	6389
BAAEBK1JA0900	BAAEBK1JA090V	2"1/2	80	51	140	167	110	51	130	84	117,5	196	16	6305
BAAEBK1JA1100	BAAEBK1JA110V	3"	100	61	162	209	110	51	130	105	139,5	196	16	9073



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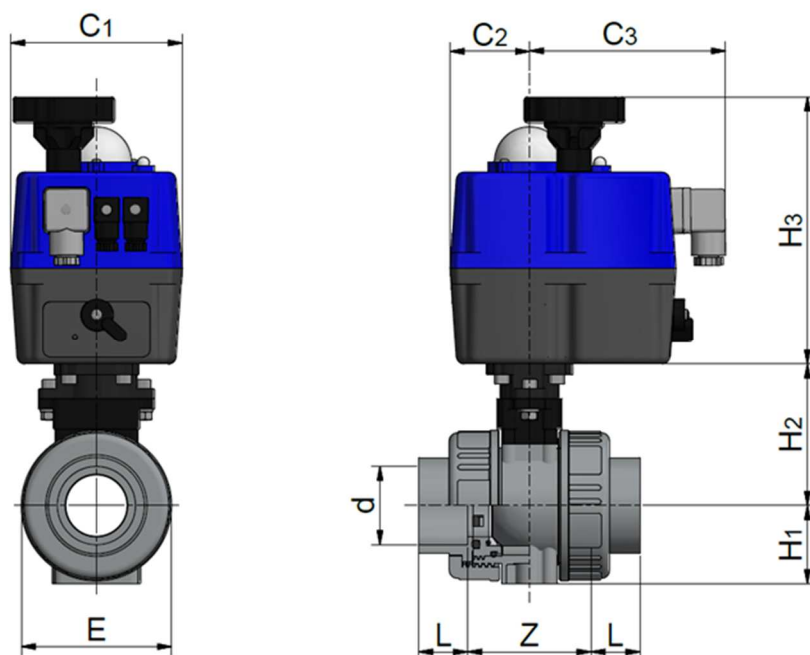
ABS Actuated industrial ball valves BK1

ABS Valvole a sfera industria attuate BK1

ELECTRICALLY ACTUATED 24-240 V AC / 24-135 V DC - BS SOLVENT WELDED SOCKETS
A COMANDO ELETTRICO 24-240 V AC / 24-135 V DC - MANICOTTI BS PER INCOLLAGGIO

Rev. Sep 2020

- Seals: EPDM or FKM / *Guarnizioni: EPDM o FKM*
- Ball seats: PTFE / *Tenute della sfera: PTFE*



Code EPDM	Code FKM	d	DN	L	Z	E	C1	C2	C3	H1	H2	H3	PN	Weight (g)
BAAEBK1YA0200	BAAEBK1YA020V	3/8"	15	16	48	49	110	51	130	25	58	169	16	2465
BAAEBK1YA0250	BAAEBK1YA025V	1/2"	20	19	54	60	110	51	130	31	65	169	16	2568
BAAEBK1YA0320	BAAEBK1YA032V	3/4"	25	22	62	69	110	51	130	35	74,5	169	16	2615
BAAEBK1YA0400	BAAEBK1YA040V	1"	32	26	69	80	110	51	130	41	82	169	16	2816
BAAEBK1YA0500	BAAEBK1YA050V	1"1/4	40	31	81	96	110	51	130	50	90	169	16	3145
BAAEBK1YA0630	BAAEBK1YA063V	1"1/2	50	39	94	116	110	51	130	62	102,5	169	16	3137
BAAEBK1YA0750	BAAEBK1YA075V	2"	65	44	141	167	110	51	130	84	117,5	196	16	6389
BAAEBK1YA0900	BAAEBK1YA090V	2"1/2	80	51	140	167	110	51	130	84	117,5	196	16	6305
BAAEBK1YA1100	BAAEBK1YA110V	3"	100	61	162	209	110	51	130	105	139,5	196	16	9073



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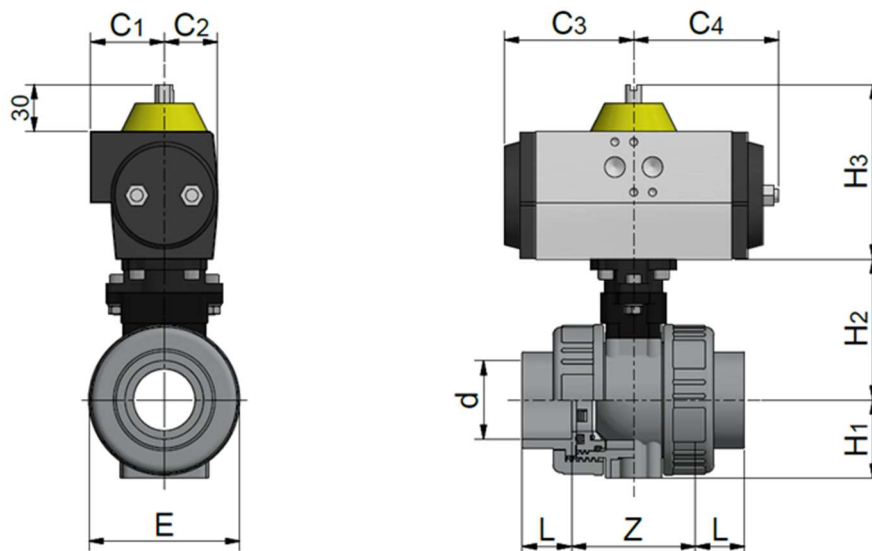
ABS Actuated industrial ball valves BK1

ABS Valvole a sfera industria attuate BK1

PNEUMATICALLY ACTUATED – DOUBLE ACTING - BS SOLVENT WELDED SOCKETS
COMANDO PNEUMATICO – DOPPIO EFFETTO - MANICOTTI BS PER INCOLLAGGIO

Rev. Dec 2019

- Seals: EPDM or FKM / *Guarnizioni: EPDM o FKM*
- Ball seats: PTFE / *Tenute della sfera: PTFE*



Code EPDM ¹	d	DN	L	Z	E	C1	C2	C3	C4	H1	H2	H3	PN	Weight (g)
BAAPBK1016D	3/8"	15	14,5	51	49	40	27	59,5	59,5	25	58	71	16	1575
BAAPBK1020D	1/2"	15	16	48	49	40	27	59,5	59,5	25	58	71	16	1575
BAAPBK1025D	3/4"	20	19	54	60	40	27	59,5	59,5	31	65	71	16	1678
BAAPBK1032D	1"	25	22	62	69	40	27	59,5	59,5	35	74,5	71	16	1725
BAAPBK1040D	1"1/4	32	26	69	80	40	27	59,5	59,5	41	82	71	16	1926
BAAPBK1050D	1"1/2	40	31	81	96	40	27	59,5	59,5	50	90	71	16	2255
BAAPBK1063D	2"	50	39	94	116	40	27	59,5	59,5	62	102,5	71	16	2247
BAAPBK1075D	2"1/2	65	44	141	167	47	34	98,5	108,5	84	117,5	81	16	6169
BAAPBK1090D	3"	80	51	140	167	47	34	98,5	108,5	84	117,5	81	16	6085
BAAPBK1110D	4"	100	61	162	209	54	42	88,5	97,5	105	139,5	98	16	8853

1) FKM code / *Codice FKM*: BAAPBK1***DV



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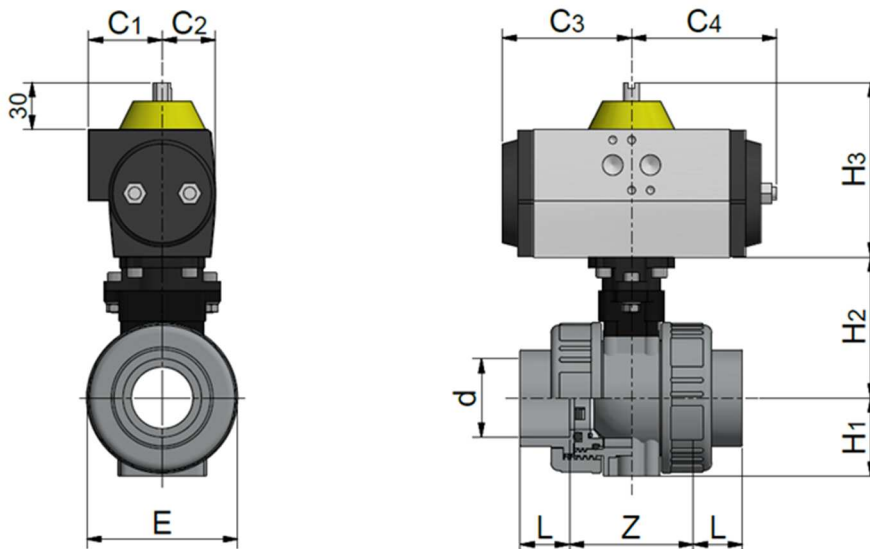
ABS Actuated industrial ball valves BK1

ABS Valvole a sfera industria attuate BK1

PNEUMATICALLY ACTUATED – DOUBLE ACTING - BS SOLVENT WELDED SOCKETS
COMANDO PNEUMATICO – DOPPIO EFFETTO - MANICOTTI BS PER INCOLLAGGIO

Rev. Dec 2019

- Seals: EPDM or FKM / *Guarnizioni: EPDM o FKM*
- Ball seats: PTFE / *Tenute della sfera: PTFE*



Code EPDM ¹	d	DN	L	Z	E	C1	C2	C3	C4	H1	H2	H3	PN	Weight (g)
BAAPBK1016S	3/8"	15	14,5	51	49	40	27	59,5	59,5	25	58	71	16	1655
BAAPBK1020S	1/2"	15	16	48	49	40	27	59,5	59,5	25	58	71	16	1655
BAAPBK1025S	3/4"	20	19	54	60	40	27	59,5	59,5	31	65	71	16	1758
BAAPBK1032S	1"	25	22	62	69	40	27	59,5	59,5	35	74,5	71	16	1805
BAAPBK1040S	1"1/4	32	26	69	80	41	29	80	98	41	82	71	16	2376
BAAPBK1050S	1"1/2	40	31	81	96	47	34	82,5	92,5	50	90	71	16	3035
BAAPBK1063S	2"	50	39	94	116	47	34	98,5	108,5	62	102,5	71	16	3757
BAAPBK1075S	2"1/2	65	44	141	167	62	52	115	126	84	117,5	81	16	8869
BAAPBK1090S	3"	80	51	140	167	62	52	115	126	84	117,5	81	16	8785
BAAPBK1110S	4"	100	61	162	209	62	52	115	126	105	139,5	98	16	11553

1) FKM code / *Codice FKM*: BAAPBK1***SV



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