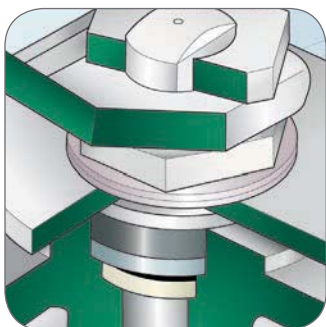


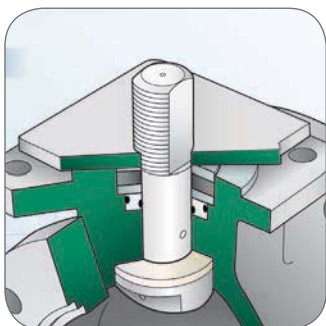


EXECUTION



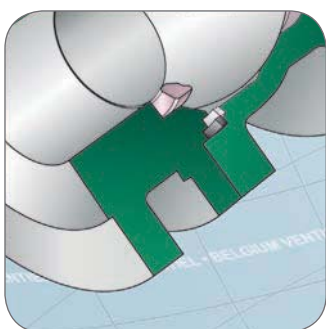
High pressed graphite stem packing between double glands

- Double nut locking with disc springs
- Non-contamination execution
- Heavy industrial stopper plate with locking device
- Centring point on top of stem
- Galvanised steel or stainless steel lever
- Double D oversized stem
- Triple stem packing
- Low friction finishing stem



Stem seats : primary PTFE seat, secondary graphite seat

- Double antistatic execution (ATEX certified)
- Anti blow-out stem (TA-luft certified)
- ISO-mounting flange - DIN 3337
- Complete machined ISO-top and flanges
- PTFE stem packing with double O-rings
- Pressure relieve hole in sleeve
- Separate PTFE trust
- Double cavity relieve seats



Body seats : primary PTFE seat, secondary graphite seat

- Separate chambered body seals
- Complete inside machined body and minimum dead spaces
- Double sealed body & stem
- Machined integral full bore
- Solid internal machined ball
- Chambered cavity relieve ball seats
- Fire safe metal/metal ball seats
- Maximum overlapping ball seats

DESIGN

ANSI B16.5, ANSI B16.10, API 607, API 6FA, API 6D

BS 5351, BS 5159, BS 5146, BS 6755/2

DIN 2505, DIN 3202, DIN 3840, DIN 2501, DIN 7121, DIN 3337, DIN 2526, DIN 3357

ISO 5208, ISO 5211, ISO 7121, ISO 5752, ISO 10497, ISO 7268, ISO 2081, ISO 4520, ISO 9227

EN 12516, EN 1759, EN 1983, EN 13828, EN 19, EN 12351, EN 558, EN 10204 (DIN 50.049-3.1B), EN 1092, EN 736, EN 12570, EN 1503, EN 6708, EN 1775

CERTIFICATES



PED 97/23/EC (TÜV Süd Industrie Service - CE0036)
Pressure Equipment Directive
According to Module H (full quality assurance)

TA Luft approved (TÜV Süddeutschland)
Technische Anleitung zur Reinhaltung der Luft
According to TA Luft (27.02.86) punkt 3.1.8.4



ADR approved (Apragaz)
International Carriage of Dangerous Goods by Road
According to KB 09.03.2003, Class 3, 4, 5, 6, 8 and 9

Fire Safe approved (TÜV Süddeutschland)
According to BS 6755/2 - API 6FA - ISO 10497



GAS approved (KVBG/ARGB)
Resistance to high temperature (RHT)
According to EN 1775

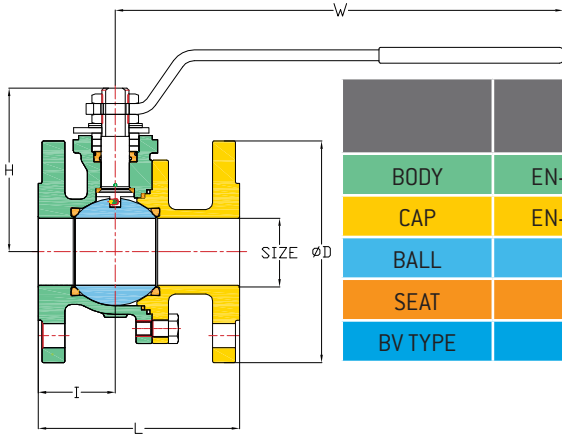
ATEX approved (TÜV Süd Product Service)
Equipment for use in potentially explosive atmospheres
According to Council Directive 94/9/EC, article 8(1)b)ii)
Non-electric devices and components group II



To maintain a high quality standard of BV4, the product is casted in a certified foundry (AD - Merkblatt WO / TRD 100) and assembled in our European facilities.

BV 4 - DIN

MATERIAL



	CAST IRON	CARBON STEEL	STAINLESS STEEL
BODY	EN-GJL-250 (GG25)	DIN 1.0619	DIN 1.4408
CAP	EN-GJL-250 (GG25)	DIN 1.0619	DIN 1.4408
BALL	DIN 1.4308	DIN 1.4408	DIN 1.4408
SEAT	PTFE	PTFE	PTFE
BV TYPE	BV4-2163T	BV4-4466T	BV4-6666T

DIMENSIONS

DIN 10/16/40 – F4 – F5

SIZE	D	D	D	I	H	W	L
DN 15	95,0	95,0	95,0	49,0	52,0	131,0	115,0
DN 20	105,0	105,0	105,0	52,0	56,0	131,0	120,0
DN 25	115,0	115,0	115,0	53,0	73,0	174,0	125,0
DN 32	140,0	140,0	140,0	55,0	76,0	174,0	130,0
DN 40	150,0	150,0	150,0	51,0	107,0	250,0	140,0
DN 50	165,0	165,0	165,0	58,0	122,0	321,0	150,0
DN 65	185,0	185,0	185,0	61,0	133,0	321,0	170,0
DN 80	200,0	200,0	200,0	75,5	152,0	381,0	180,0
DN 100	220,0	220,0	235,0	80,0	165,0	381,0	190,0
DN 125	250,0	250,0	U/R	149,0	187,0	382,0	325,0
DN 150	285,0	285,0	300,0	157,0	305,0	700,0	350,0
DN 200	340,0	340,0	375,0	190,0	348,0	700,0	400,0
DN 250	395,0	405,0	450,0	225,0	367,0	1100,0	450,0
DN 300	445,0	460,0	515,0	250,0	403,0	1100,0	500,0
	PN 10	PN 16	PN 40	PN 10 / 16 / 40			

Dimensions in mm / U/R = Upon request / Larger sizes in process and on request

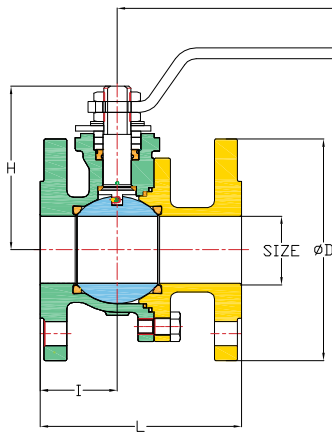
DIN 10/16/40 – F1

SIZE	D	D	D	I	H	W	L
DN 15	95,0	95,0	95,0	49,0	52,0	131,0	130,0
DN 20	105,0	105,0	105,0	52,0	56,0	131,0	150,0
DN 25	115,0	115,0	115,0	53,0	73,0	174,0	160,0
DN 32	140,0	140,0	140,0	55,0	76,0	174,0	180,0
DN 40	150,0	150,0	150,0	51,0	107,0	250,0	200,0
DN 50	165,0	165,0	165,0	58,0	122,0	321,0	230,0
DN 65	185,0	185,0	U/R	61,0	133,0	321,0	290,0
DN 80	200,0	200,0	U/R	75,5	152,0	381,0	310,0
DN 100	220,0	220,0	U/R	80,0	165,0	381,0	350,0
	PN 10	PN 16	PN 40	PN 10 / 16 / 40			

Dimensions in mm / U/R = Upon request / Larger sizes in process and on request

BV 4 - ANSI

MATERIAL



	CARBON STEEL	STAINLESS STEEL
BODY	A216 WCB	A351 CF8M
CAP	A216 WCB	A351 CF8M
BALL	A351 CF8M	A351 CF8M
SEAT	PTFE	PTFE
BV TYPE	BV4-4466T	BV4-6666T

DIMENSIONS

ANSI 150

SIZE	D	I	H	W	L
1/2"	90,0	46,0	50,7	131,0	108,0
3/4"	100,0	50,0	52,5	131,0	117,0
1"	110,0	57,0	70,0	174,0	127,0
1 1/2"	130,0	60,0	107,0	250,0	165,0
2"	150,0	65,0	122,0	321,0	178,0
3"	190,0	78,0	151,0	382,0	203,0
4"	230,0	80,0	165,0	381,0	229,0
6"	280,0	157,0	288,0	700,0	394,0
8"	345,0	190,0	332,0	700,0	457,0
10"	406,4	225,0	367,0	1100,0	534,0
12"	482,6	250,0	403,0	1100,0	610,0

Dimensions in mm / Larger sizes in process and on request

ANSI 300

SIZE	D	I	H	W	L
1/2"	95,0	61,5	52,0	131,0	140,0
3/4"	117,5	61,5	56,0	131,0	152,0
1"	125,0	70,5	72,0	174,0	165,0
1 1/2"	155,0	78,5	107,0	250,0	190,0
2"	165,0	86,0	122,0	321,0	216,0
3"	210,0	81,0	151,0	381,0	283,0
4"	255,0	88,5	165,0	381,0	305,0
6"	320,0	172,0	245,0	700,0	403,0
10"	444,5	225,0	1100,0	1100,0	568,0
12"	520,7	250,0	1100,0	1100,0	648,0

Dimensions in mm / Larger sizes in process and on request

BV 4

MATERIAL

BV4 BALL VALVE is widely used throughout the world in various industries such as chemical, petrochemical, food & beverage, pulp and paper, pharmaceutical and a variety of other industrial-product and processing plants. In these applications the mostly common requested material is steel and stainless steel. BV4 standard types are as such based on these two materials.

Type of sealing is depending on industrial process, herewith an overview of possible ball seats material for BV4



MATERIAL	COMPOSITION	
Virgin PTFE	PolyTetraFluoro-Ethylene	A synthetic fluoropolymer with numerous applications due to its outstanding resistance to chemical attack by most chemicals and solvents as well as its high temperature resistance and electrical isolating properties. This self lubricating compound is used as standard sealing material in our ball valves.
RTFE	PTFE + glassfiber	Glassfilling slightly increases PTFE's very low coefficient of friction, but considerably increases wear- and pressure-resistance.
CTFE	PTFE + carbon/graphite	Carbon is one of the best fillers for chemical use. It features high heat-conductibility and high wear- and pressure-resistance.
MPTFE	PTFE + SS metal core	When high pressure is the property to beat, the metal core provides a solution. The core is surrounded by virgin PTFE.
PEEK	PolyEtherEther-Ketone	PEEK is a semicrystalline thermoplastic with very interesting mechanical properties. It is highly resistant to thermal degradation and pressure thus providing a solution in high demanding processes.

MATERIAL & CODES

Description and explanation BV4	
Type	B V 4 = Split body ball valve produced by BELVEN NV
DIN D = Flange connection - DIN 2501 1 0 = Flange connection - DIN 2501/DIN 2526 form C - PN10 1 6 = Flange connection - DIN 2501/DIN 2526 form C - PN16 4 0 = Flange connection - DIN 2501/DIN 2526 form C - PN40 4 = Face to face dimension - DIN 3202-F4, F18, EN 558-1-14/15 5 = Face to face dimension - DIN 3202-F5, F18, EN 558-1-14/15
ANSI A = Flange connection - ANSI B16.5 1 5 0 = Face to face dimension - ANSI B16.10 - A-150 3 0 0 = Face to face dimension - ANSI B16.10 - A-300
Body 2 1 = Cast iron: GG-25 4 4 = Cast carbon steel: DIN 1.0619, A216-WCB 6 6 = Cast stainless steel: DIN 1.4408, A351-CF8M
Ball 6 3 = Stainless steel: DIN 1.4308, AISI F304 6 6 = Stainless steel: DIN 1.4408, AISI F316
Seats T = PTFE C = CTFE R = RTFE M = MPTFE P = PEEK G = Gasexecution and certified KVBG/ARGB
Bore F B = Integral full bore
Execution F S = Fire safe execution, non contamination
Operation B S = Bare shaft L E = Lever O L = Oval lever G B = Gearbox operated D A = Pneumatic double acting S A = Pneumatic single acting S A M = Pneumatic single acting + MOD E L = Electric operated