

3-PCS PREMIUM BALL VALVE - DIRECT MOUNTING

TYPE DVC1211: STEEL
TYPE DVC1311: STAINLESS STEEL

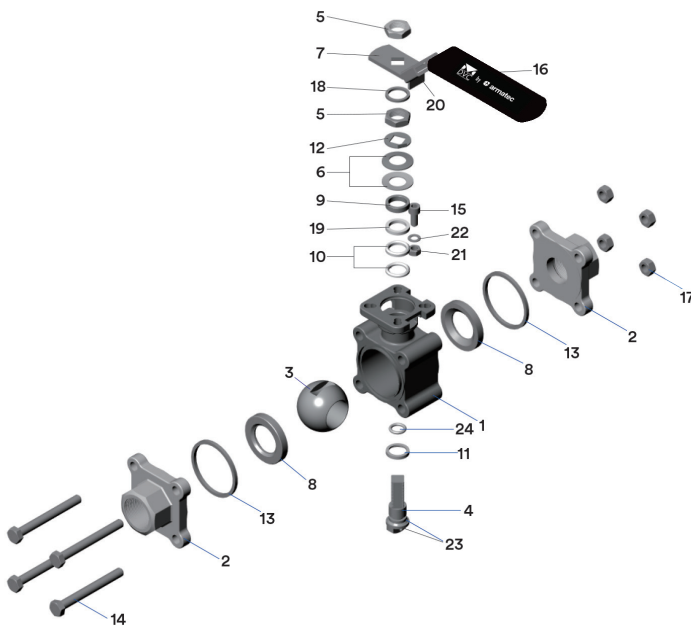


armatec



GENERAL

SIZE/PRESSURE:	1/4"FB / 1/2"RB - 1"FB / 1 1/4"RB = 125 BAR 1 1/4"FB / 1 1/2"RB - 2"FB / 2 1/2"RB = 100 BAR 2 1/2"FB / 3"RB - 4"FB / 4"RB = 64 BAR
TEMPERATUR:	-28°C TIL 245°C (STEEL - TYPE 1211) -38°C TIL 245°C (STAINLESS - TYPE 1311)
ISO TOP FLANGE:	EN ISO 5211
THREAD ENDS:	BSPP - EN ISO 228-1
BUTT WELD ENDS:	TYPE 1211 - EN 12627 TYPE 1311 - DIN 2463 / EN ISO 1127 LINE 1 - DIN 11850-2 (FB) - SMS 3008
BALL SURFACE HARDENING:	300HV
OPTION	
EDITION:	FIRE SAFE DESIGN
CONNECTION:	VARIOUS. BSPT, NPT, ANSI B 2.1, JISPT, ASME-BPE, SCH. 10 OG 40, INDSTIKSENDER ANSI B 16.11
SEAT/PACKING:	PEEK, 50%SS/PTFE, DELRIN, CAVITY FILLER RPTFE, PTFE, UHMWPE
STEM:	17-4 PH (FOR EXCEEDED MAST)
BALL HARDENING:	1200HV



POS	DESCRIPTION	MATERIAL
1	BODY *	STAINLESS STEEL CF8M
2	CONNECTION *	STAINLESS STEEL CF3M/CF8M (THREAD)
3	BALL	STAINLESS STEEL AISI 316
4	STEM	STAINLESS STEEL AISI 316
5	STEM NUT	STAINLESS STEEL AISI 304
6	BELLEVILLE WASHER	STAINLESS STEEL AISI 301
7	HANDLE WITH SPRING LOCK	STAINLESS STEEL AISI 304
8	SEAT PACKING	PTFE WITH 25% CARBON
9	GLAND	STAINLESS STEEL AISI 304
10	JOINT GASKET	PTFE 1211:MG1241 / 1311: +25% CARBON
11	CONIC PACKING RING	PTFE WITH 25% CARBON
12	LOCK SADDLE	STAINLESS STEEL AISI 304
13	BODY GASKET	PTFE TFM1600
14	BOLT	STAINLESS STEEL AISI 304
15	STOP BOLT	STAINLESS STEEL AISI 304
16	HANDLE SLEEVE	VINYL
17	NUT	STAINLESS STEEL AISI 304
18	WASHER	STAINLESS STEEL AISI 304
19	STEM PACKING	PTFE WITH 25% CARBON
20	LOCKING DEVICE	STAINLESS STEEL AISI 304
21	NUT	STAINLESS STEEL AISI 304
22	WASHER	STAINLESS STEEL AISI 304
23	ANTI-STATIC DEVICE	STAINLESS STEEL AISI 316
24	O-RING	FPM

≥DN65FB includes backup for seat ring in stainless steel

* Type 1211 A216 Gr. WCB

DESCRIPTION

- Solid ball valve for high performance tasks.** All ball valves are pressure tested. Can on demand be delivered with certificate 3.1/EN10204. Full or reduce bore.
- PTFE with 25% carbon filled** are used for seats and pyramid segment. This material is very suitable for high pressure and temperature and it's even more resistant to wear than traditional PTFE.
- Antistatic stem with dynamic stuffing box.** The unique inclined surface at the bottom of the stem, on which the conic packing ring lies, provides optimal sealing, low torque and long service life.
- Approvals:** EC1935 on stainless steel, ATEX, SIL3, FDA, ADI

SUITABLE FOR



INDUSTRY



MARINE



HEATING SYSTEM



COOLING SYSTEM



WATERWORKS



STEAM



BIOGAS

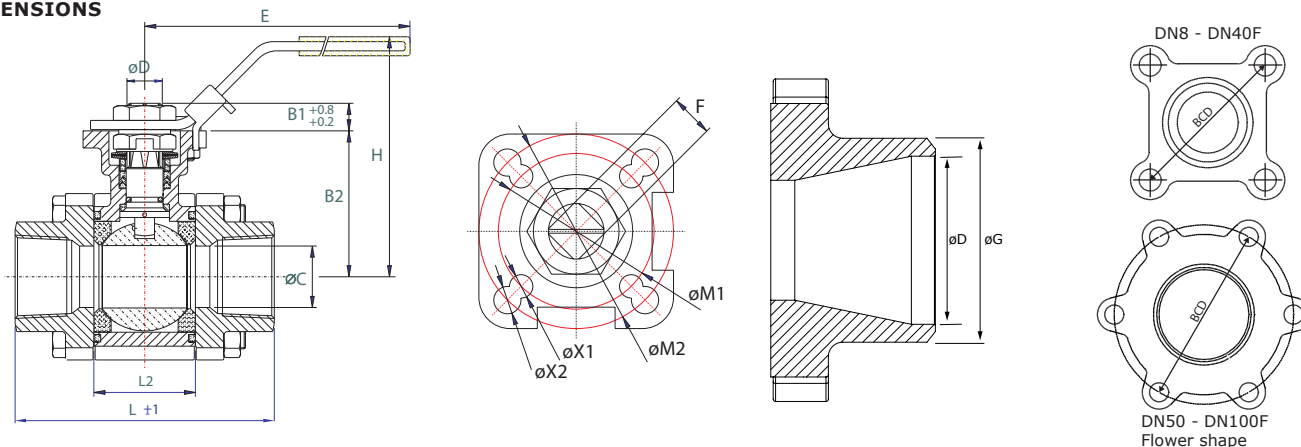


FOOD



WASTE WATER

DIMENSIONS



DIMENSION	VALVE WITH HANDLE									ISO TOP FLANGE					STEM	
[MM]	L [MM]			L2	B2	ØC	E	H	BCD	ISO 5211	ØM1	ØM2	ØX1X4	ØX2X4	F	B1
	THREAD	ISO*	SMS	[MM]	[MM]	[MM]	[MM]	[MM]			[MM]	[MM]	[MM]	[MM]	[MM]	[MM]
DN08FB	75.0	75.0	75.0	24.5	42.6	11.5	139	77.0	54.0	F03/F04	36	42	6.0	6	9	7.6
DN10FB/DN15RB	75.0	75.0	75.0	24.5	42.6	12.6	139	77.0	54.0	F03/F04	36	42	6.0	6	9	7.6
DN15FB/DN20RB	72.5	75.0	75.0	24.5	42.6	15.0	139	77.0	54.0	F03/F04	36	42	6.0	6	9	7.6
DN20FB/DN25RB	85.4	90.0	90.0	31.4	46.8	20.0	139	82.0	62.7	F03/F04	36	42	6.0	6	9	8.6
DN25FB/DN32RB	105.3	110.0	110.0	41.3	59.3	25.0	165	98.5	71.6	F04/F05	42	50	6.0	7	11	10.4
DN32FB/DN40RB	111.0	115.0	115.0	48.4	62.6	32.0	165	102.0	80.9	F04/F05	42	50	6.0	7	11	10.4
DN40FB/DN50RB	127.3	130.0	130.0	56.3	79.0	38.0	215	128.0	94.2	F05/F07	50	70	7.5	9	14	13.4
DN50FB/DN65RB	142.8	142.8	142.8	71.4	87.7	50.0	215	137.0	114.0	F05/F07	50	70	7.5	9	14	13.4
DN65FB/DN80RB	185.0	185.0	185.0	86.6	108.7	65.0	300	167.0	139.0	F07/F10	70	102	10.0	12	17	16.8
DN80FB/DN100RB	205.0	205.0	205.0	99.0	117.7	80.0	370	176.0	160.0	F07/F10	70	102	10.0	12	17	17.8
DN 100FB	240.0	240.0	240.0	127.0	133.7	100.0	370	192.0	193.0	F07/F10	70	102	10.0	12	17	16.8

*) Steel version DVC1211 = EN12627

DIM		TORQUE*	MAST**	WEIGHT***	KV-VALUE	BUTT WELD ENDS [R=REDUCE BORE] [F=FULL BORE]							
[MM]	[INCH]	FB/RB [NM]	FB/RB [NM]	FB/RB [KG]	90° M³/H	TYPE 1211		TYPE 1311		TYPE 1311		TYPE 1311	
					FB/RB	EN 12627	ISO 1127	SMS 3008	DIN 11850-2				
						ØG/ØD (MM)	ØG/ØD (MM)	ØG/ØD (MM)	ØG/ØD (MM)				
DN08	1/4"	9/-	33/-	0.89/-	6/-	14/11.5 (1.25)	F	13.5/10.3 (1.6)	F	-	-	-	-
DN10	3/8"	9/-	33/-	0.88/-	7/-	17.2/12.6 (2.3)	F	17.2/14.0 (1.6)	F	12.0/10.0 (1.0)	F	13.0/10.0(1.5)	F
DN15	1/2"	9/9	33/33	0.82/0.83	13/7	21.7/15 (3.35)	R/F	21.3/18.1 (1.6)	R/F	18.0/16.0 (1.0)	R/F	19.0/16.0 (1.5)	F
DN20	3/4"	12/9	33/33	1.29/0.84	34/13	27.2/20.5 (3.35)	R/F	26.9/23.7 (1.6)	R/F	25.0/22.6 (1.2)	R/F	23.0/20.0 (1.5)	F
DN25	1"	17/12	60/33	2.01/1.50	60/34	34/25.7 (4.15)	R/F	33.7/29.7 (2.0)	R/F	32.0/29.6 (1.2)	R	29.0/26.0 (1.5)	F
DN32	1 1/4"	26/17	60/60	2.76/2.17	95/60	42.7/34.4 (4.15)	R/F	42.4/38.4 (2.0)	R/F	33.7/31.3 (1.2)	R	35.0/32.0 (1.5)	F
DN40	1 1/2"	35/26	125/60	4.21/4.27	215/95	48.6/40.3 (4.15)	R/F	48.3/44.3 (2.0)	R/F	38.0/35.6 (1.2)	R	41.0/38.0 (1.5)	F
DN50	2"	36/35	125/125	5.83/5.30	370/215	60.5/51.3 (4.6)	R/F	60.3/55.1 (2.6)	R/F	51.0/48.6 (1.2)	R	53.0/50.0 (1.5)	F
DN65	2 1/2"	68/36	223/125	12.0/6.51	602/370	76.3/67.1 (4.6)	R/F	76.1/70.9 (2.6)	R/F	63.5/60.3 (1.6)	R	70.0/66.0 (2.0)	F
DN80	3"	88/68	223/223	16.2/12.0	946/602	88.9/80 (4.45)	R/F	88.9/83.7 (2.6)	R/F	76.1/72.9 (1.6)	R	85.0/81.0 (2.0)	F
DN100	4"	114/88	223/223	25.8/16.2	1720/946	116/103.1 (6.45)	R/F	114.3/109.1 (2.6)	R/F	101.6/97.6 (2.0)	R	104.0/100.0 (2.0)	F

*) Torque figures include 30% safety factor. (TEST: 0bar diff. pressure, ambient temperature, non-lubricating)

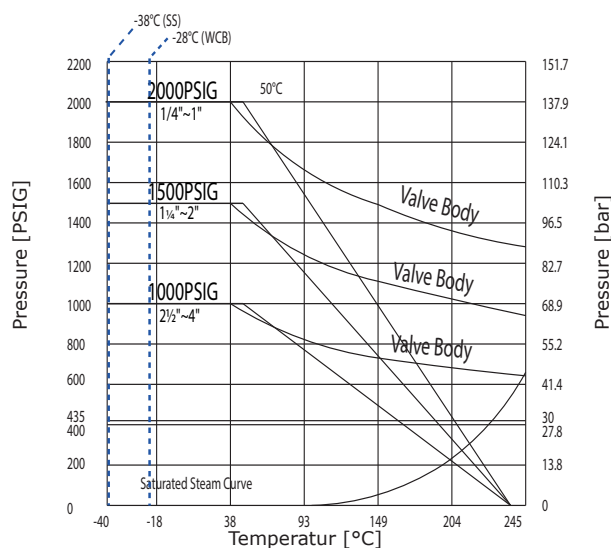
Torque is based on standard seats packing PTFE with 25% carbon.

Torque on request: Seat packing PTFE TFM1600, PEEK, PTFE with 50% SS, DELRIN, PTFE with 15% glass fibre.

**) Max Allowed stem torque

**) Weight is based on flower shaped (DN50-100F) welding ends ISO 1127.

PRESSURE/TEMPERATURE



Helium leakage test

performed by German laboratory

Two tests have been executed with vacuum inside valve – spray with helium on the outside:

- 1 x closed position, tightness on seats (flow direction)
- 1 x half open position, tightness on stem and body sealings

Test result leakage rate: 10^{-7} mbar * l * s⁻¹

Further details can be seen on the test certificate.