3-PCS BALL VALVE - PREMIUM

TYPE 1251: STEEL
TYPE 1351: STAINLESS STEEL

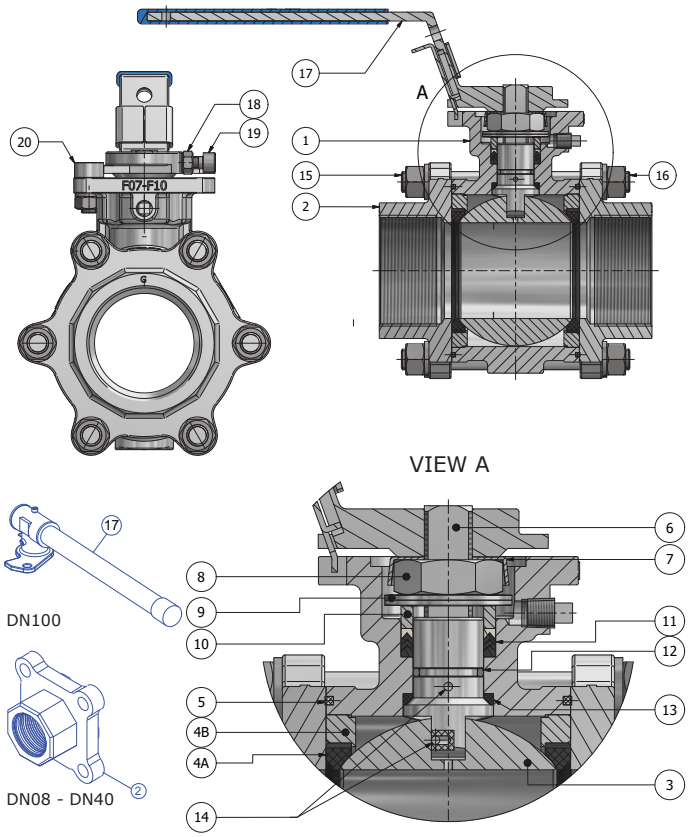
econ®

GENERAL

SIZE/PRESSURE:	1/4" - 1": 102 BAR (1251) 99 BAR (1351)
	1¼" - 1½": 80 BAR
	2": 76 BAR
	2½": 69 BAR
	3" - 4": 51 BAR (1251) 49 BAR (1351)
TEMPERATURE:	-40°C TO 220°C (STAINLESS STEEL)
	-29°C TO 220°C (STEEL)
(PRESSURE AND TEMPERATURE ARE INTERDEPENDENT)	
ISO TOP FLANGE:	ISO 5211
THREAD ENDS:	BSPP - DIN259
BUTT WELD ENDS:	TYPE 1251 - EN 12627
	TYPE 1351 - ISO 1127 LINE 1, SMS 3008

OPTION

EDITION:	FIRE SAFE API 607
TEMPERATURE:	-50°C TO 220°C (WITH STEM EXTENSION)
CONNECTION:	NPT, SCH. 40, ANSI B 16.11, EN 12760
SEAT/PACKING:	PEEK, RPTFE, 50%SS/PTFE, KALREZ® O-RING
APPROVALS:	*FDA (PTFE+GLASFIBER / PTFE)



POS	DESCRIPTION	MATERIAL
1	BODY*	STAINLESS STEEL CF8M
2	CONNECTION *	STAINLESS STEEL CF3M/CF8M (THREAD)
3	BALL**	STAINLESS STEEL CF8M
4A	SEAT PACKING	PTFE WITH 25% CARBON
4B	SEAT HOLDER	AISI 316
5	BODY SEAL RING	PTFE WITH 20% GLASS + 5% CARBON
6	STEM	STAINLESS STEEL AISI 316
7	LOCK NUT CAP	STAINLESS STEEL AISI 304
8	HEX JAM NUT	STAINLESS STEEL AISI 304
9	DISC SPRING	STAINLESS STEEL AISI 301
10	GLAND	STAINLESS STEEL AISI 304
11	STEM PACKING	PTFE WITH 15% GRAPHITE
12	O-RING	VITON 70 GLT
13	PYRAMID SEGMENT	PTFE WITH 25% CARBON
14	ANTI-STATIC DEVICE	STAINLESS STEEL AISI 316
15	STUD	STAINLESS STEEL AISI 304
16	HEX NUT	STAINLESS STEEL AISI 304
17	HANDLE	STAINLESS STEEL CF8
18	HEX NUT	STAINLESS STEEL AISI 304
19	CYL HEAD CAP SCREW	STAINLESS STEEL AISI 304
20	STOP BOLT	STAINLESS STEEL AISI 304

≥DN65FB includes backup for seat ring in stainless steel
* Type 1251 = A216 Gr. WCB
** DN8 - DN50 = AISI 316

DESCRIPTION

- **Solid ball valve for high performance tasks**. All ball valves are pressure tested and can on demand be delivered with material certificate EN10204/3.1. Available as reduced or full bore.
- **Bolt circle diameter and face to face dimensions** of the body is equal to DVC Type 1210, 1310, 1211 and 1311 in all sizes, Worcester and Mecafrance from DN15FB/20RB to DN50FF/65RB. This means that Type 1251/1351 can be mounted between existing end caps.
- **PTFE with 25% carbon** is used for seats and pyramid segment. This material is suitable for high pressure and temperature and is more resistant to wear than traditional PTFE.
- **ISO 5211 top flange** for direct mounting of actuator without the use of bracket and coupling. Can also be fitted with stem extension.
- **Antistatic stem with pyramid segment.** This means a larger contact area together with reinforced stem seat and a surface quality of Ra 0.2 ~ 0.3 um. These advantages provides a very long lifetime.
- **Maintenance free stuffing box** with belleville washers, reinforced V-rings and Viton O-ring provide optimum packing and longer lifetime - also at varying temperatures.
- **Stainless steel butt weld end caps acc. to ISO 1127** standard prolonged to be suitable for orbital welding. From stock we can also deliver butt weld end caps acc. to SMS 3008 and BSPP thread ends.
- **Approvals:** ISO 15848-1 emission test, ATEX, EU1935, SIL 2, Salt spray tested acc. to ISO 9227. Option: FDA

DS-1251/1351-UK-05-2019-REV. C
We reserve the right for changes.

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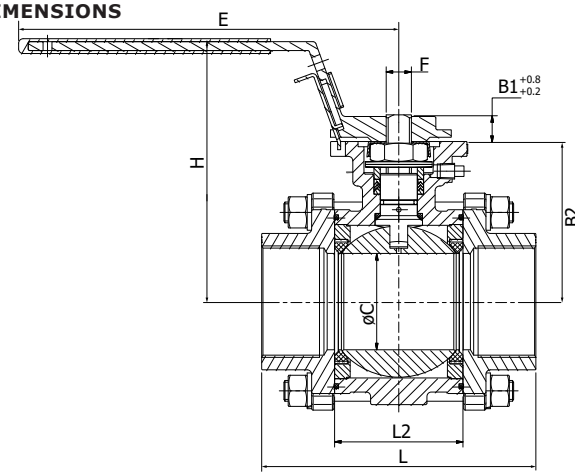
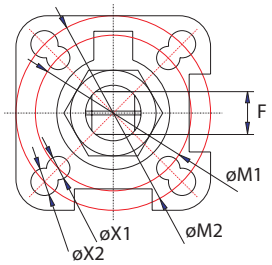
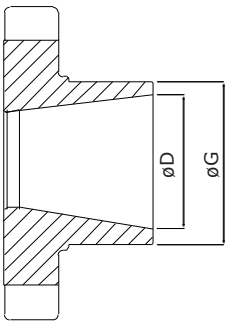
DIMENSIONS



TOP FLANGE



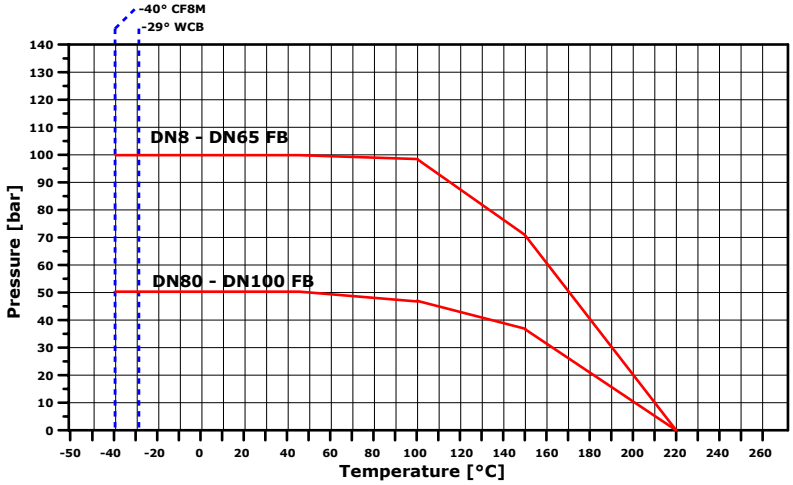
BUTT WELD END



DIMENSION	VALVE WITH HANDLE								ISO TOP FLANGE						STEM	
[MM]	L [MM]			L2	B2	ØC	E	H	ISO 5211	ØM1	ØX1X4	ISO 5211	ØM2	ØX2X4	F	B1
	THREAD	1351 BW/SMS	1251 BW	[MM]	[MM]	[MM]	[MM]	[MM]		[MM]	[MM]		[MM]	[MM]	[MM]	[MM]
DN08FB	71.0	116.0	70.6	25.2	40.0	15.0	140.0	83.0	F03	36	5.5	F04	42	5.5	9.0	9.0
DN10FB	71.0	116.0	70.6	25.2	40.0	15.0	140.0	83.0	F03	36	5.5	F04	42	5.5	9.0	9.0
DN15FB/DN20RB	72.0	116.0	71.6	25.2	40.0	15.0	140.0	83.0	F03	36	5.5	F04	42	5.5	9.0	9.0
DN20FB/DN25RB	97.0	125.0	96.6	32.3	45.0	20.0	140.0	88.0	F03	36	5.5	F04	42	5.5	9.0	9.0
DN25FB/DN32RB	110.0	135.0	109.0	42.3	52.0	25.0	165.0	97.0	F04	42	5.5	F05	50	7.0	11.0	11.0
DN32FB/DN40RB	118.0	146.0	118.0	49.4	57.0	31.8	165.0	103.0	F04	42	5.5	F05	50	7.0	11.0	11.0
DN40FB/DN50RB	130.0	157.0/167.0	129.0	57.2	75.0	38.0	202.0	130.0	F05	70	9.0	F07	50	7,0	14.0	14.0
DN50FB/DN65RB	142.0	202.0	145.0	71.4	84.0	50.0	202.0	139.0	F05	70	9.0	F07	50	7,0	14.0	15.0
DN65FB/DN80RB	185.0	215.0	185.0	86.6	108.0	65.0	257.0	177.0	F07	70	9.0	F10	102	11.0	17.0	18.0
DN80FB/DN100RB	205.0	230.0	205.0	99.0	118.0	76.0	257.0	187.0	F07	70	9.0	F10	102	11.0	17.0	18.0
DN100FB	240.0	260.0	241,0	127.0	140.0	100	405.0	207.5	-	-	-	F10	102	11.0	22.0	22.5

VALVE DATA

DIM		TORQUE*		WEIGHT		KV-VALUE		BUTT WELD ENDS [R=REDUCE BORE] [F=FULL BORE]					
						90° M³/H		TYPE 1251		TYPE 1351		TYPE 1351	
								EN 12627		ISO 1127		SMS3008	
[MM]	[INCH]	FB [NM]	RB [NM]	FB [KG]	RB [KG]	FB	RB	ØG/ØD (MM)		ØG/ØD (MM)		ØG/ØD (MM)	
DN08	1/4"	9	-	0.89	-	6.9	-	14 / 11.5 (1.25)	F	13.5/10.3 (1.6)	F	-	-
DN10	3/8"	9	-	0.88	-	6.9	-	17.2/12.6 (2.3)	F	17.2/14.0 (1.6)	F	12.0/10.0 (1.0)	F
DN15	1/2"	9	9	0.82	0.84	12.7	6.9	21.7 / 15 (3.35)	R/F	21.3/18.1 (1.6)	R/F	18.0/16.0 (1.0)	F
DN20	3/4"	12	9	1.29	0.85	29.2	12.7	27.2/20.5 (3.35)	R/F	26.9/23.7 (1.6)	R/F	25.0/22.6 (1.2)	R/F
DN25	1"	17	12	2.01	1.41	48.2	29.2	34/25.7 (4.15)	R/F	33.7/29.7 (2.0)	R/F	32.0/29.6 (1.2)	R
DN32	1 1/4"	26	17	2.76	2.17	73.1	48.2	42.7/34.4 (4.15)	R/F	42.4/38.4 (2.0)	R/F	33.7/31.3 (1.2)	R
DN40	1 1/2"	35	26	4.21	2.87	107.5	73.1	48.6/40.3 (4.15)	R/F	48.3/44.3 (2.0)	R/F	38.0/35.6 (1.2)	R
DN50	2"	49	35	5.83	4.49	215.0	107.5	60.5/51.3 (4.6)	R/F	60.3/55.1 (2.6)	R/F	51.0/48.6 (1.2)	R
DN65	2 1/2"	68	49	11.00	6.94	275.2	215.0	76.3/67.1 (4.6)	R/F	76.1/70.9 (2.6)	R/F	63.5/60.3 (1.6)	R
DN80	3"	101	68	14.78	12.64	498.8	275.2	88.9/80.0 (4.45)	R/F	88.9/83.7 (2.6)	R/F	76.1/72.9 (1.6)	R
DN100	4"	124	101	23.30	16.00	877.2	498.8	116/103.1 (6.45)	R/F	114.3/109.1 (2.6)	R/F	101.6/97.6 (2.0)	R

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

PRESSURE/TEMPERATURE