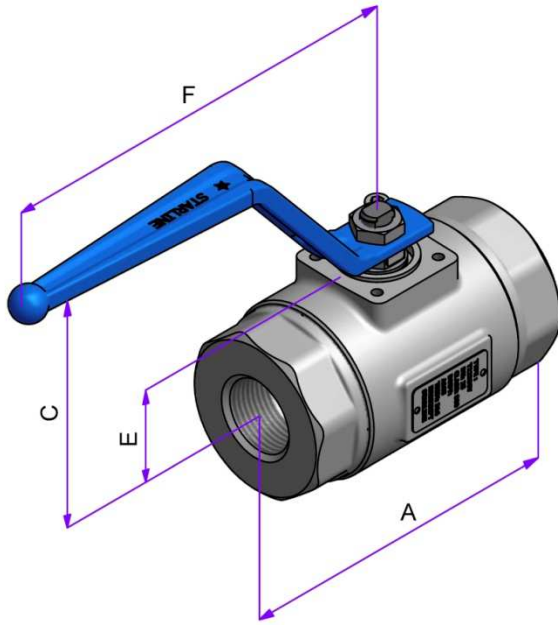
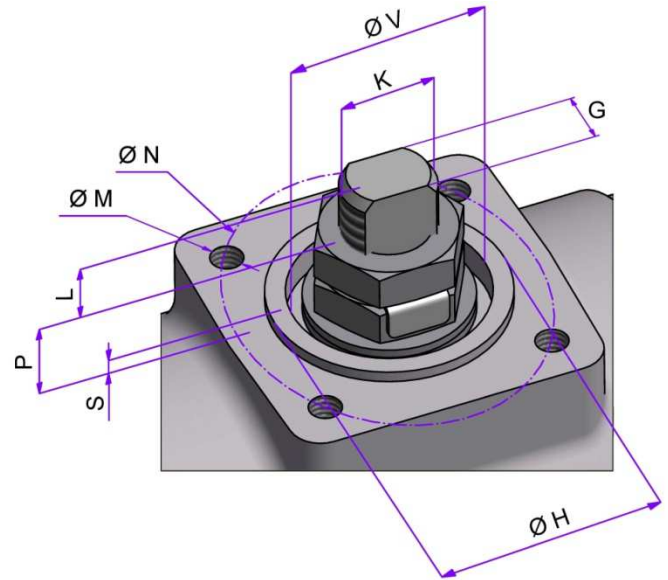


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



NPT-BSPP-BSPT



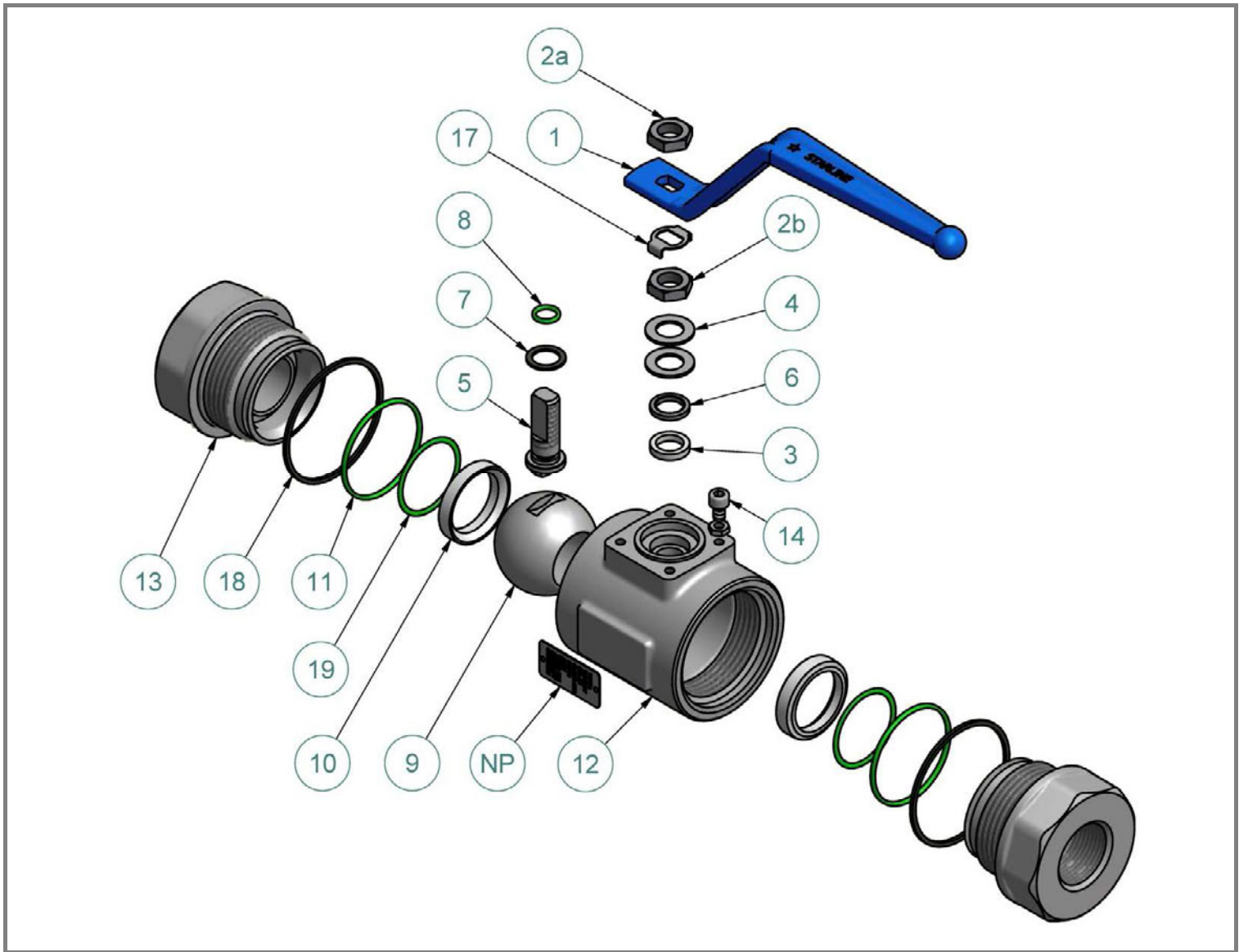
TOP VIEW

FULL BORE

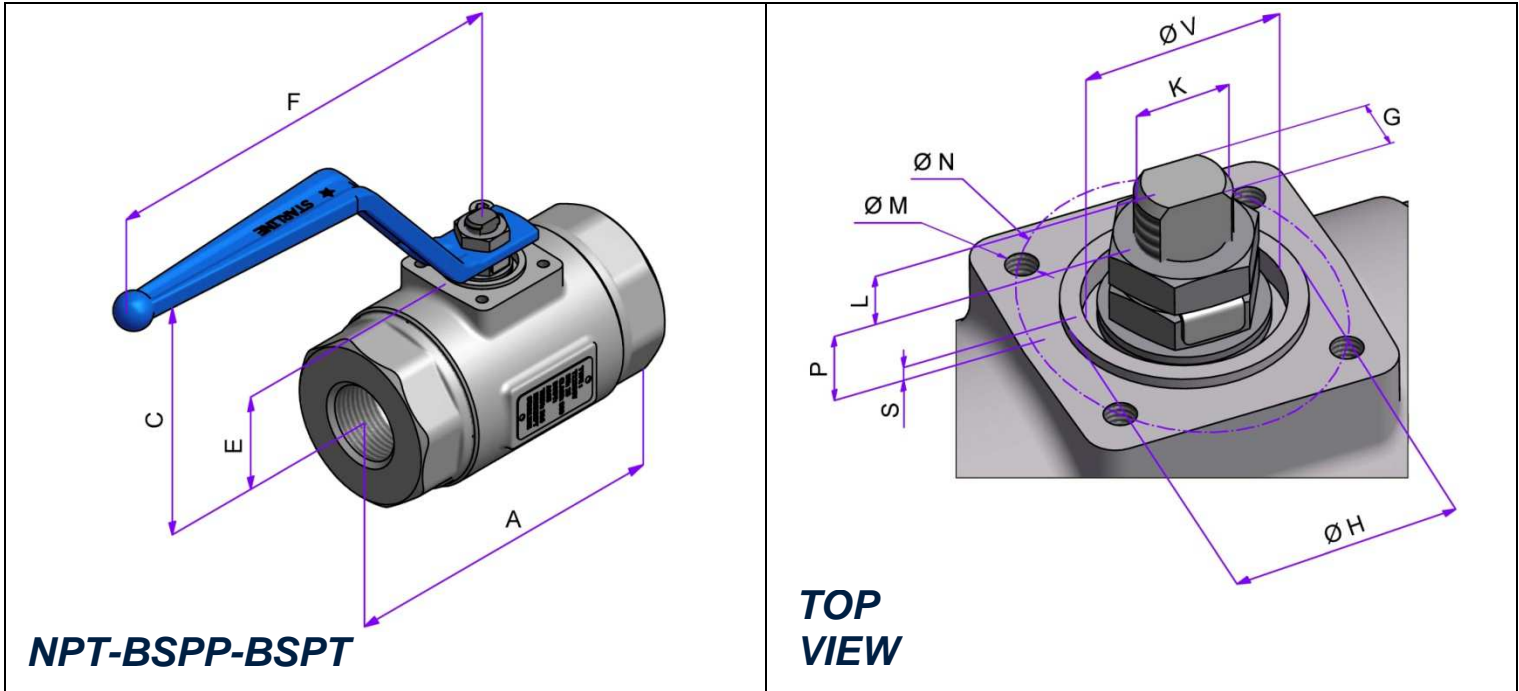
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
1/4" x 1/4"	08 x 08	85	11.1	79	26	144	1
3/8" x 3/8"	10 x 10	85	11.1	79	26	144	1
1/2" x 1/2"	15 x 15	98.5	14.2	81	28.5	144	1.2
3/4" x 3/4"	20 x 20	108	21	96	33.5	172.5	2
1" x 1"	25 x 25	118	25.4	101	38	172.5	2.7

TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/4" x 1/4"	08 x 08	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/8" x 3/8"	10 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04

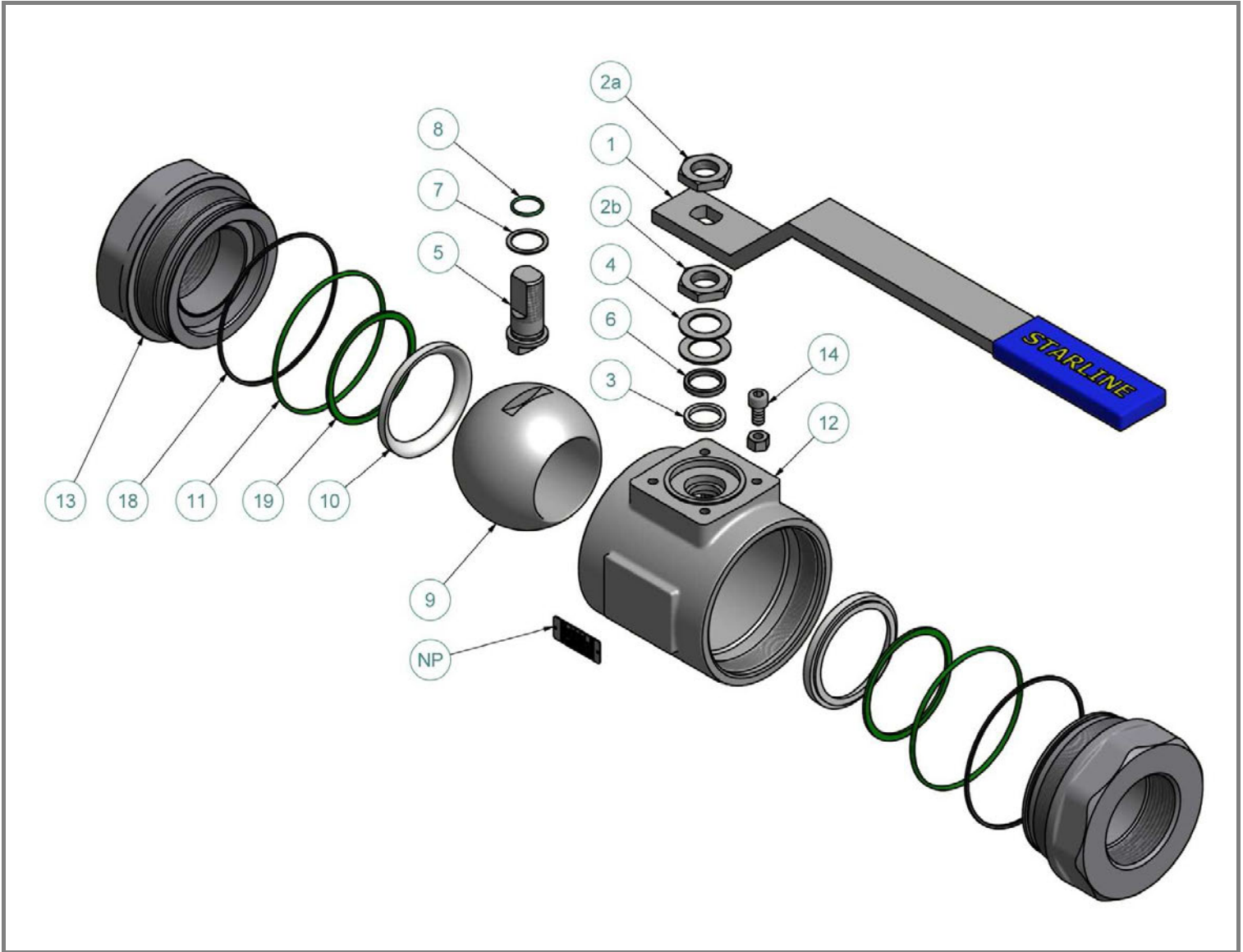


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
1.1/4" x 1.1/4"	32 x 32	137	31.7	110	43.5	218	3.8
1.1/2" x 1.1/2"	40 x 40	150	38	114	47.5	218	5.3
2" x 2"	50 x 50	159	49	122	58.5	218	8.5

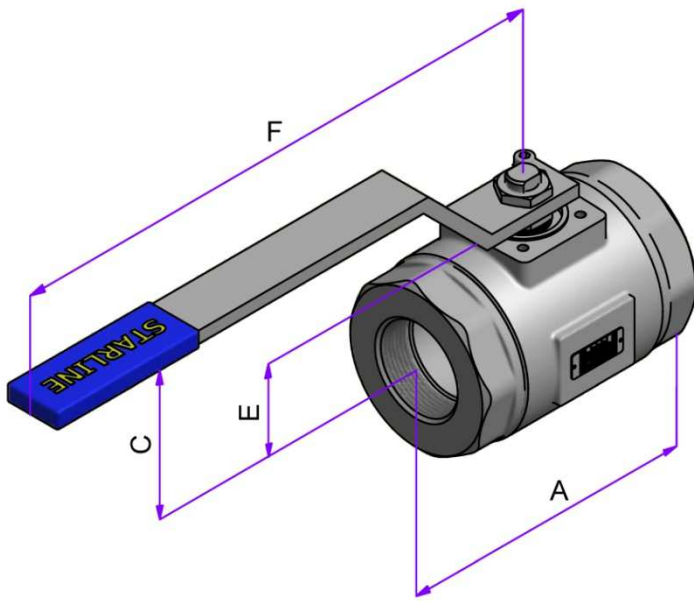
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1.1/4" x 1.1/4"	32 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



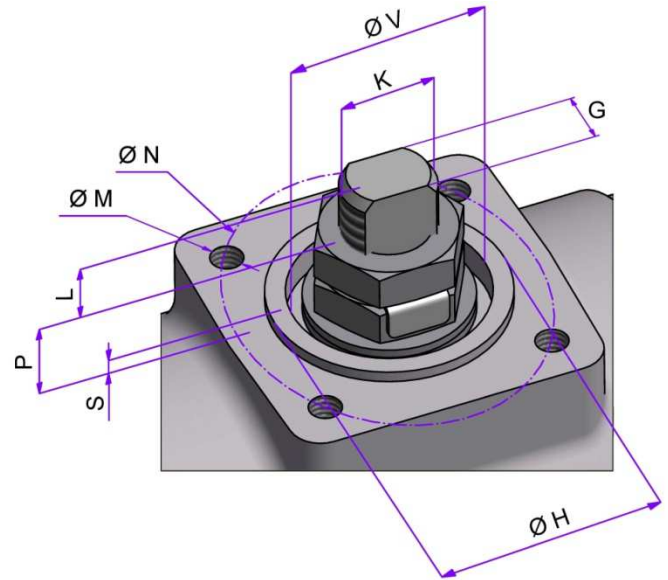
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 80 - 3"

Note 2: Qty 2 for DN 80 - 3"



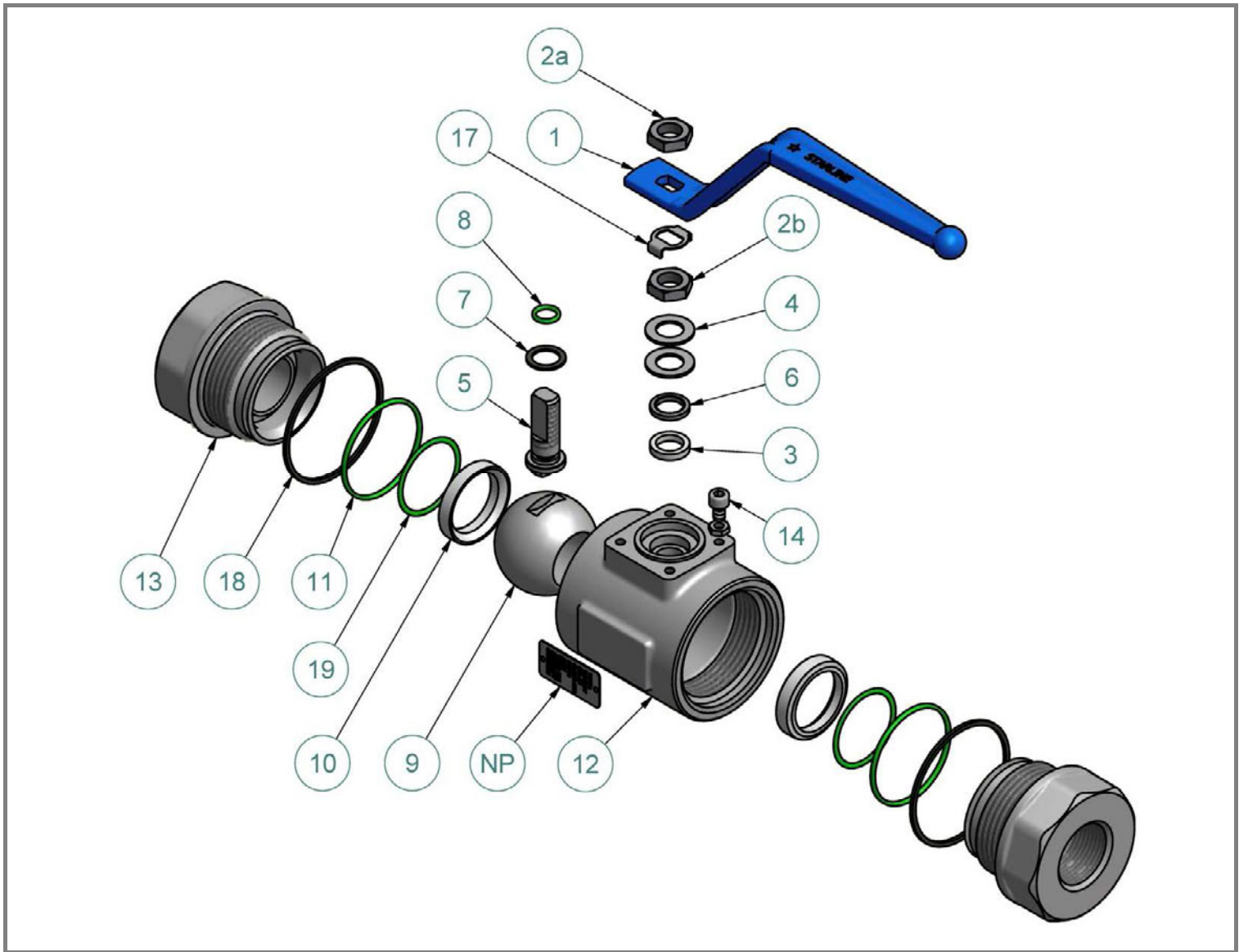
NPT-BSPP-BSPT



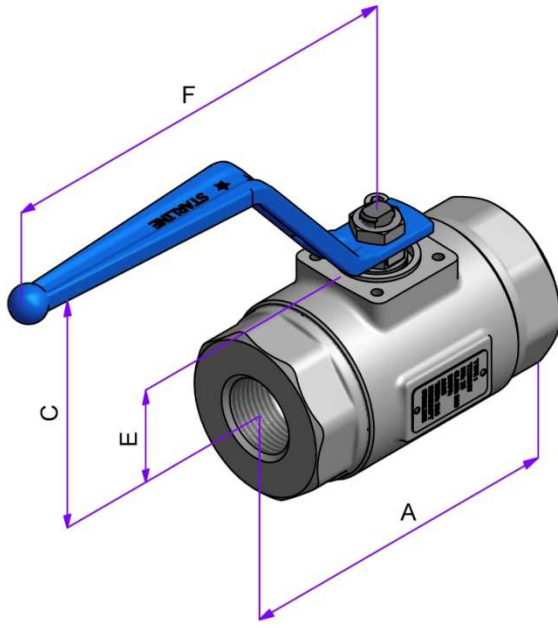
TOP VIEW

FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
2.1/2" x 2.1/2"	65 x 65	184	63.5	140	70	420	14
3" x 3"	80 x 80	222	76	162	88	420	23

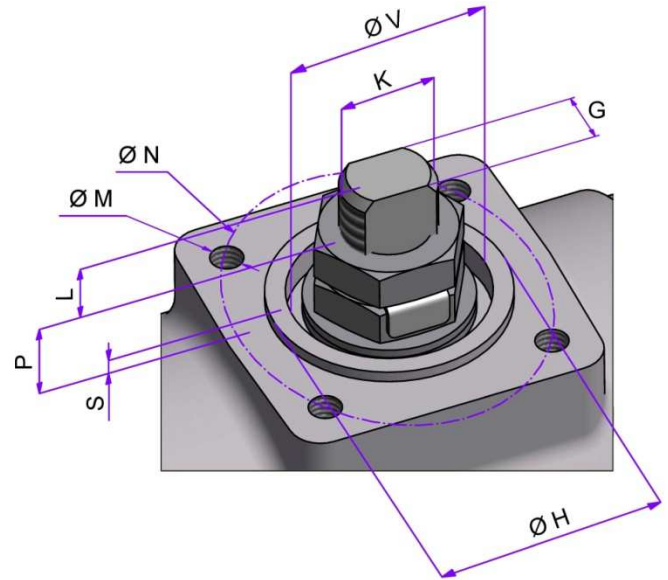
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2.1/2"	65 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



NPT-BSPP-BSPT



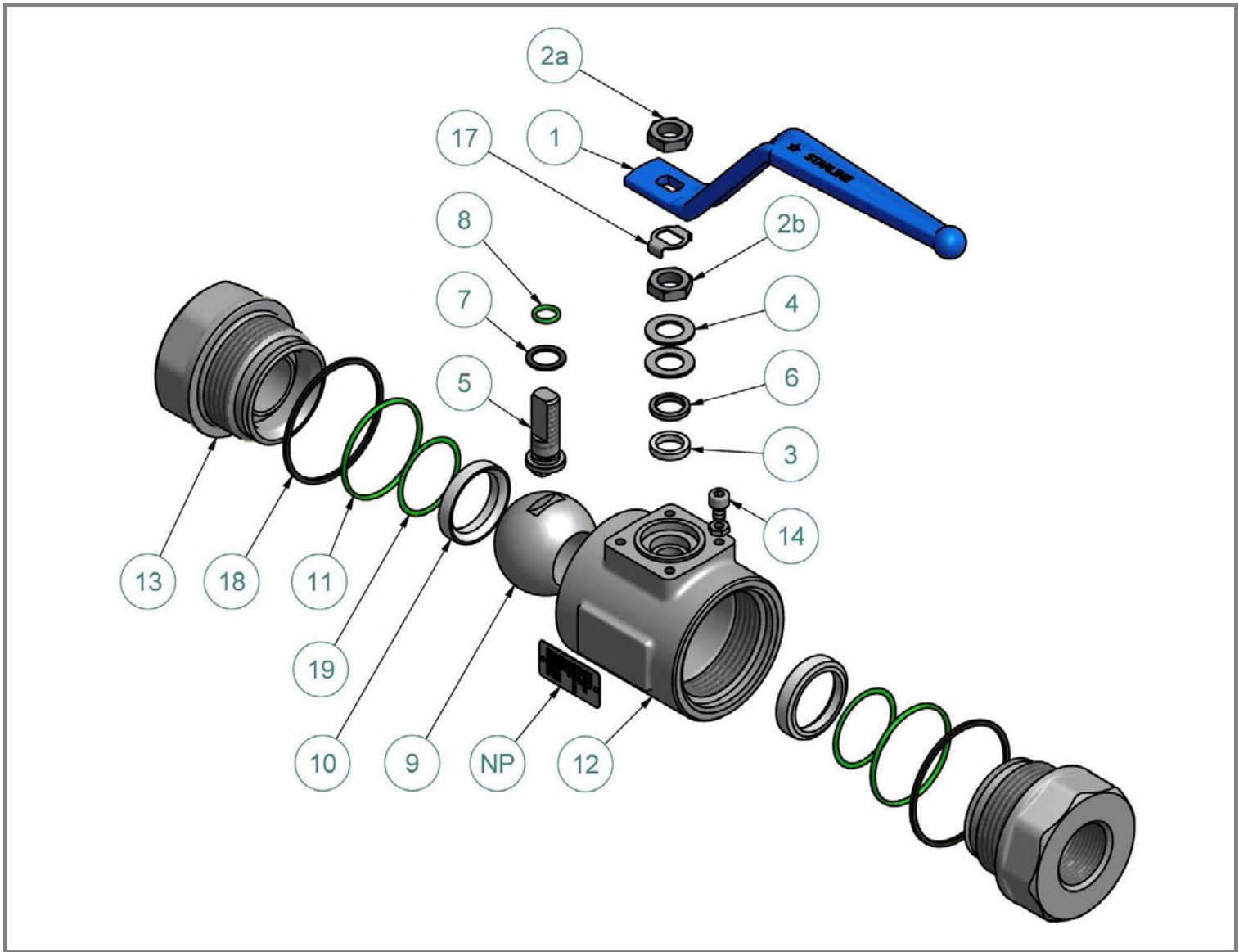
TOP VIEW

REDUCED BORE

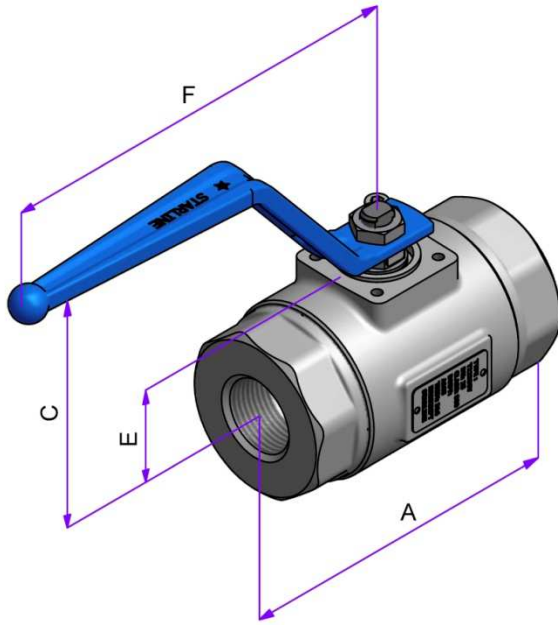
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
1/2" x 3/8"	15 x 10	85	11.1	79	26	144	0.9
3/4" x 1/2"	20 x 15	98.5	14.2	81	28.5	144	1.1
1" x 3/4"	25 x 20	108	21	96	33.5	172.5	1.9
1.1/4" x 1"	32 x 25	118	25.4	101	38	172.5	2.6

TOP MOUNTING

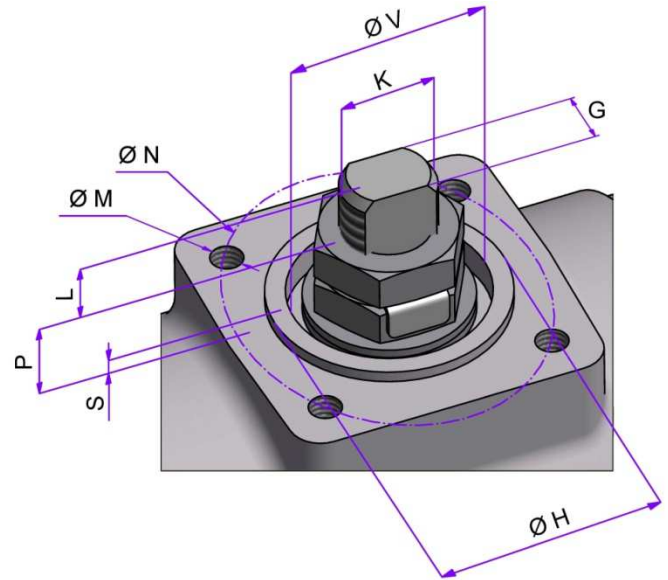
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



NPT-BSPP-BSPT



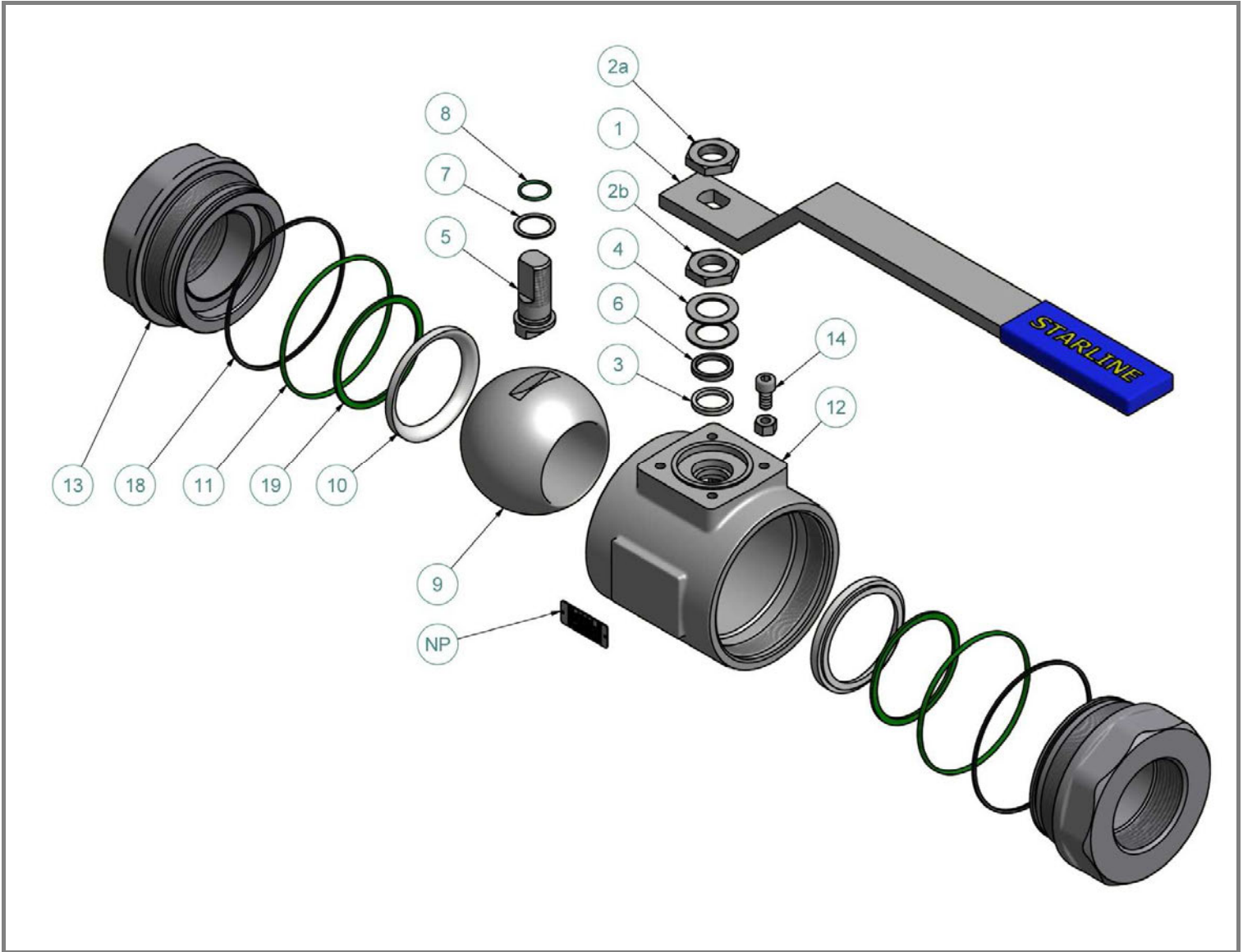
TOP VIEW

REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
1.1/2" x 1.1/4"	40 x 32	137	31.7	110	43.5	218	3.7
2" x 1.1/2"	50 x 40	150	38	114	47.5	218	5
2.1/2" x 2"	65 x 50	159	49	122	58.5	218	7.5

TOP MOUNTING

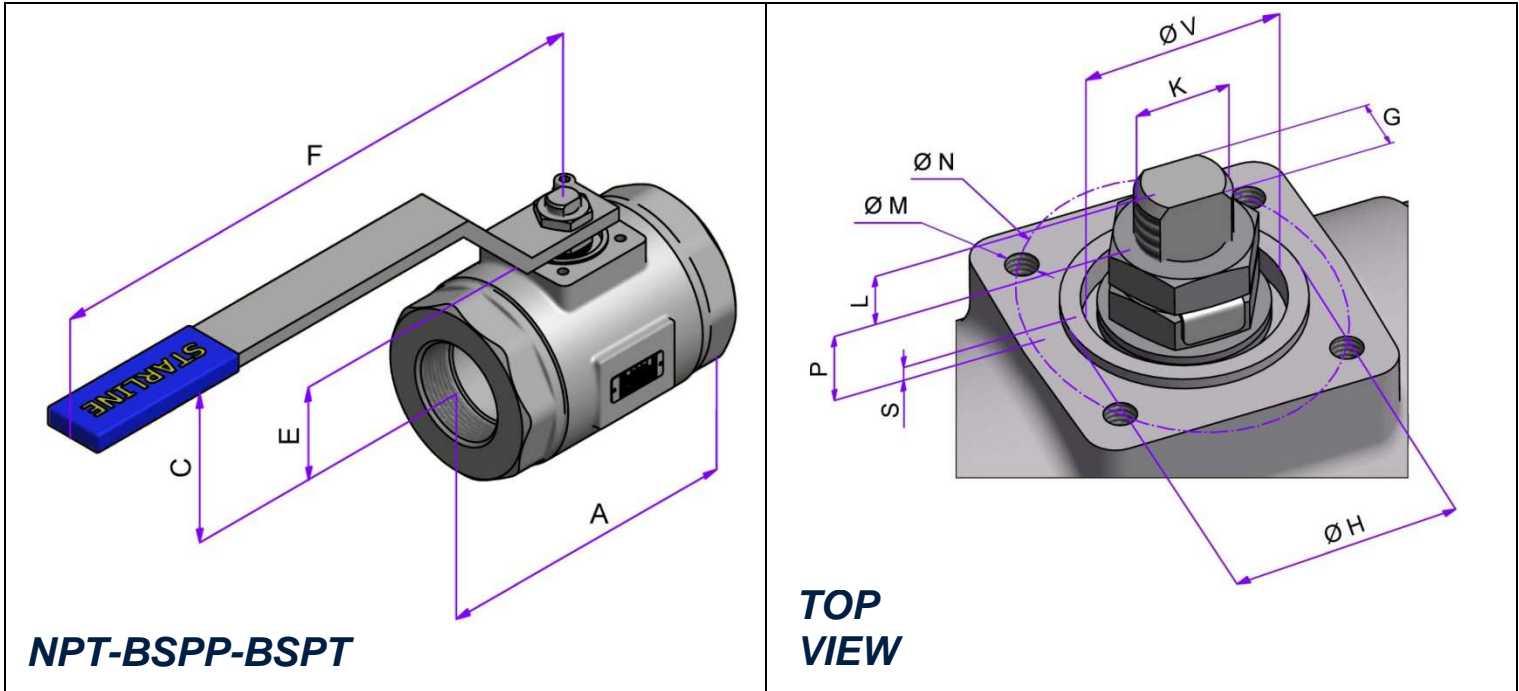
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1.1/2" x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

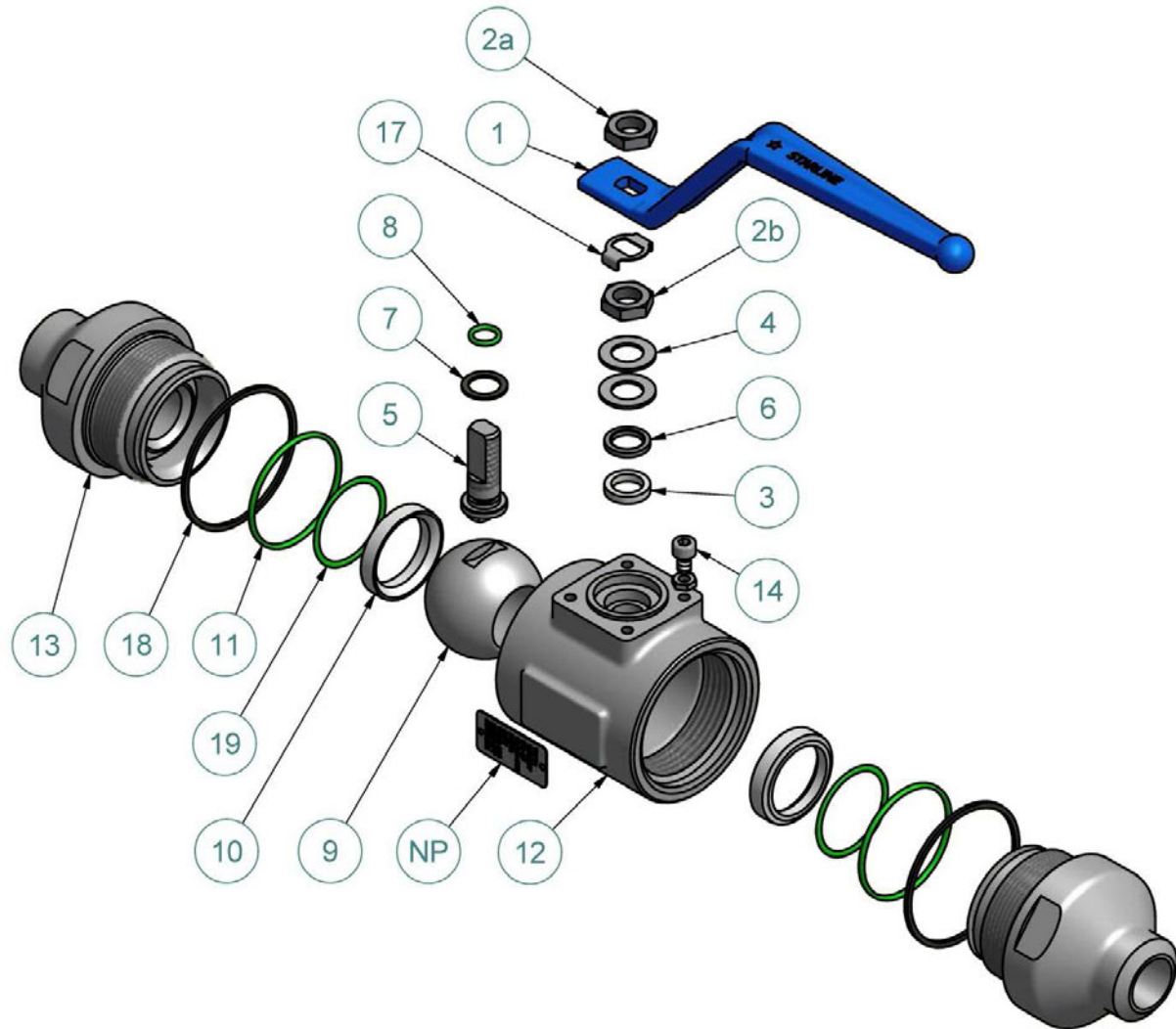
Note 1: Qty 0 for DN 100 - 4"

Note 2: Qty 2 for DN 100 - 4"

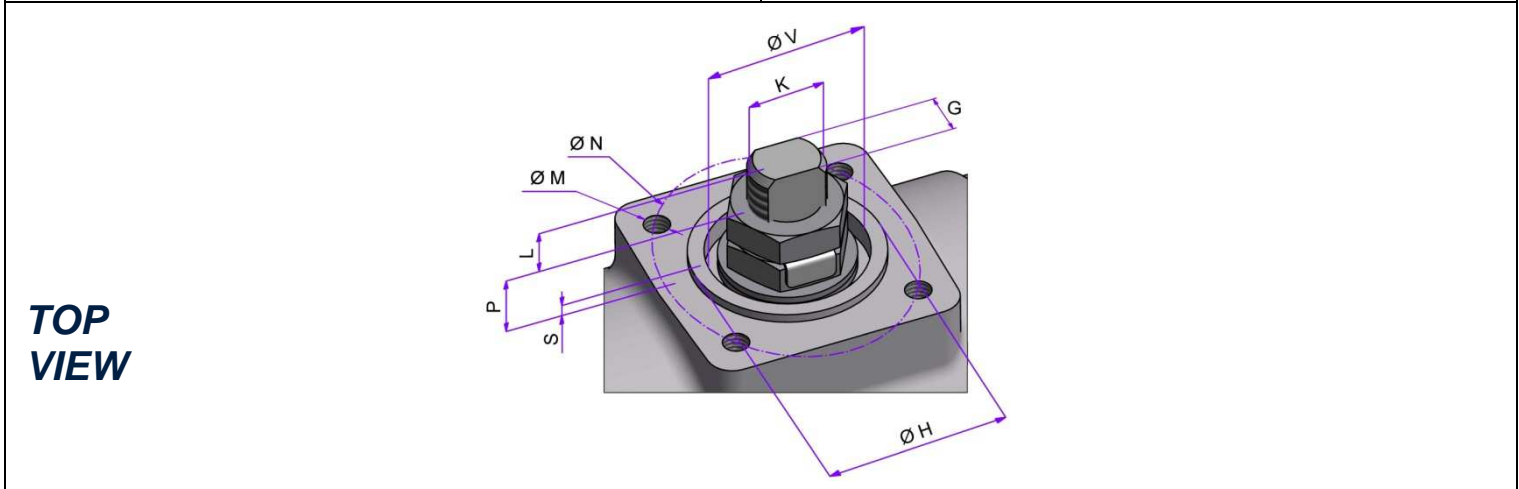
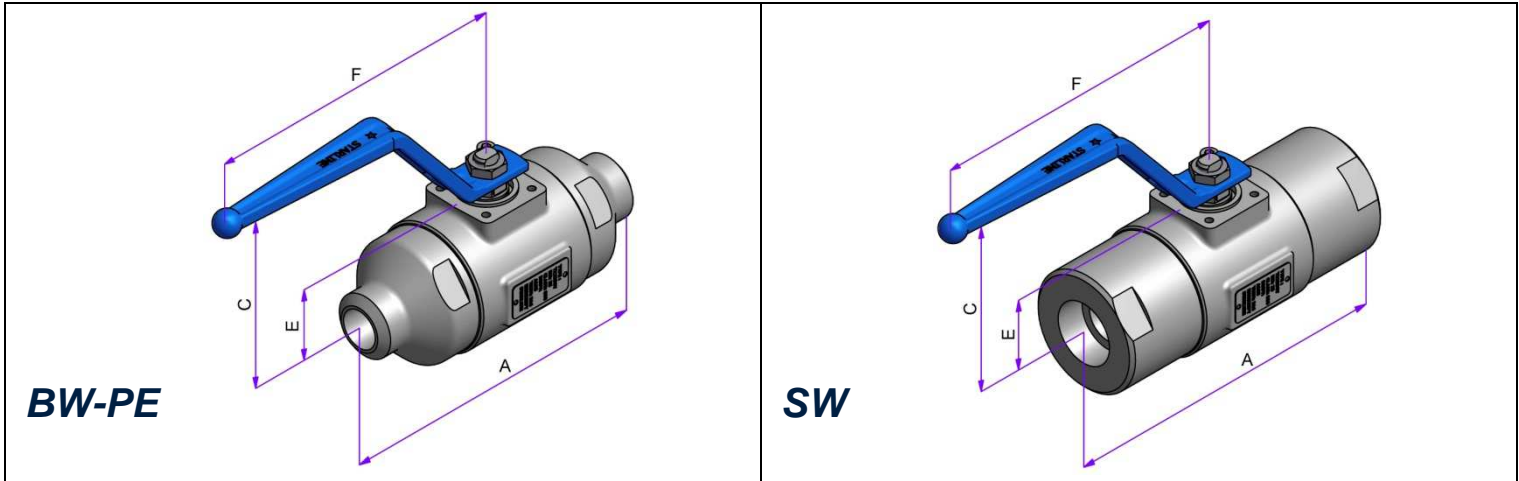


REDUCED BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT-BSPP-BSPT
		NPT-BSPP-BSPT					
3''x 2.1/2''	80 x 65	184	63.5	140	70	420	12.7
4''x 3''	100 x 80	222	76	162	88	420	21.5

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
3''x 2.1/2''	80 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
4''x 3''	100 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07

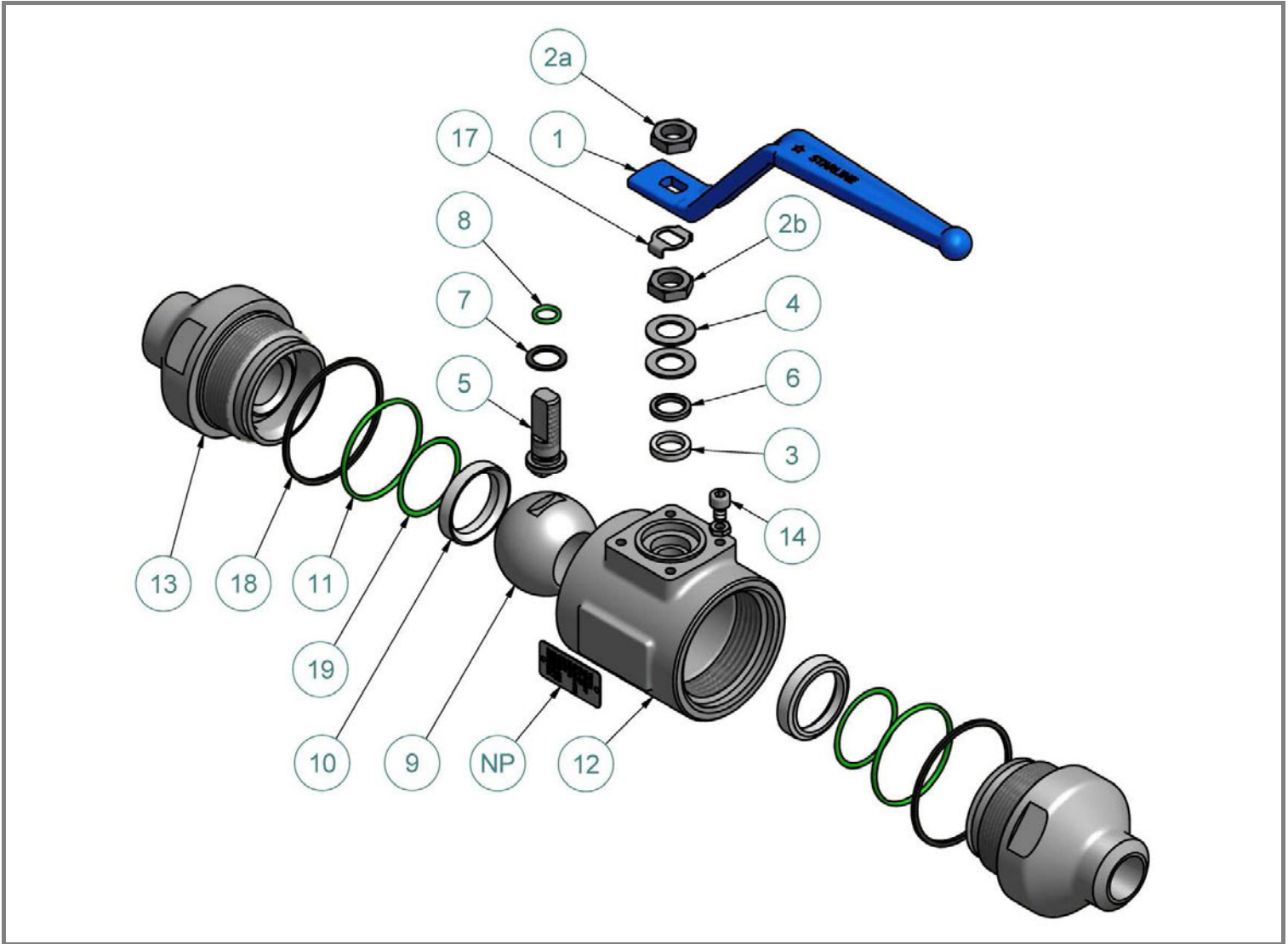


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

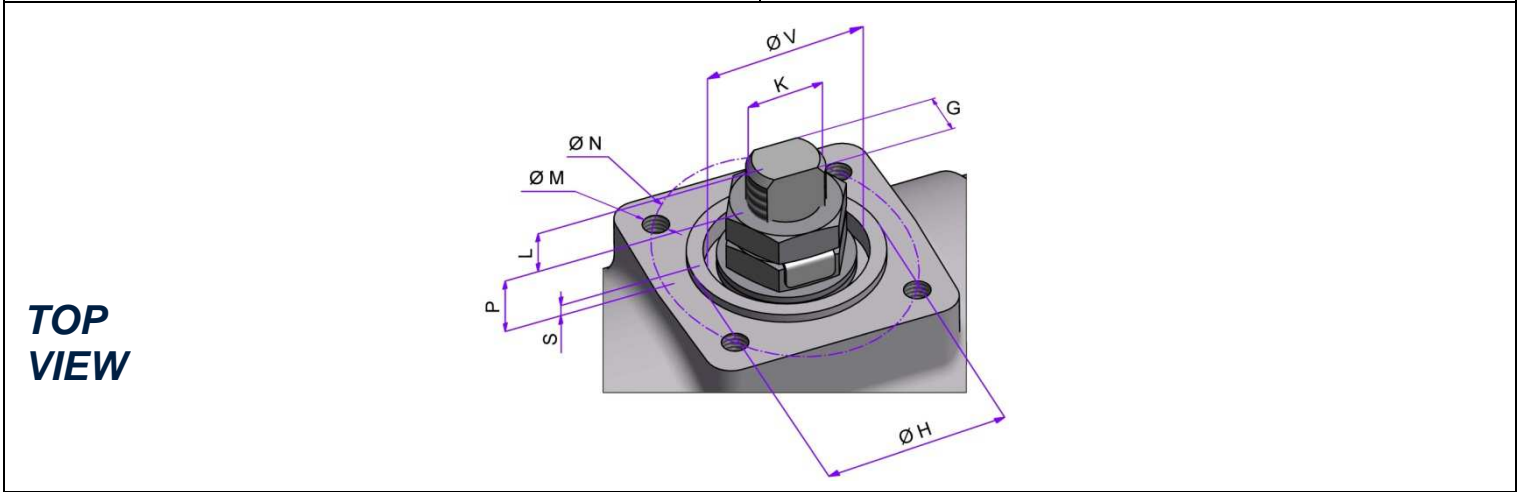
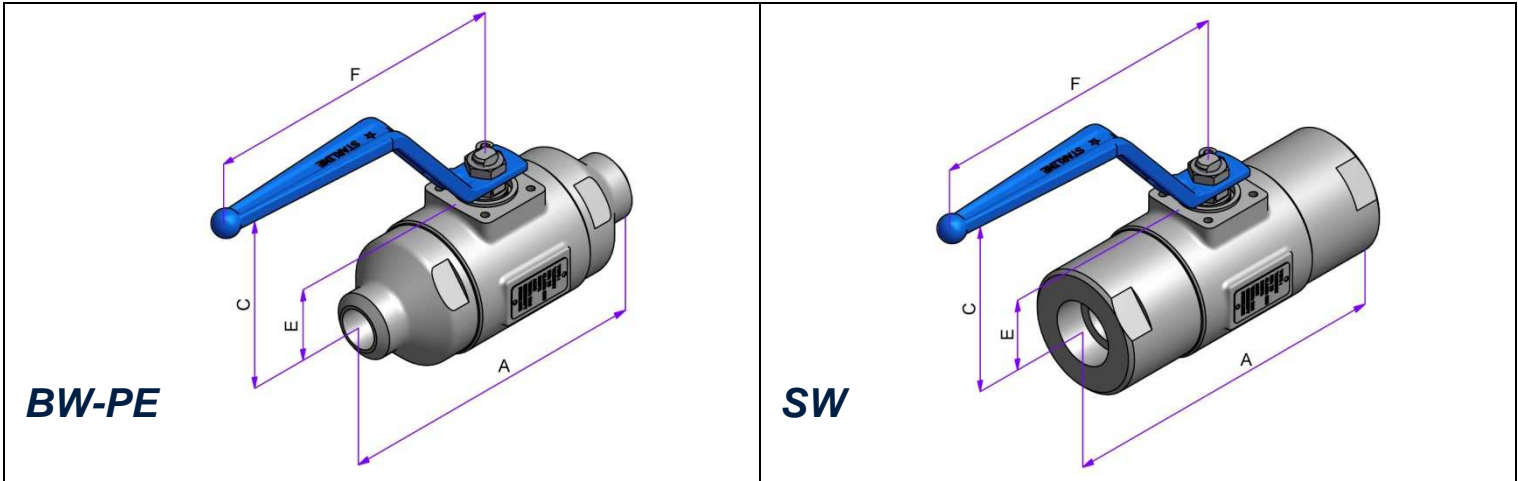


FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1/4" x 1/4"	08 x 08	127	127	11.1	79	26	144	1.4	1.4
3/8" x 3/8"	10 x 10	127	127	11.1	79	26	144	1.4	1.4
1/2" x 1/2"	15 x 15	140	140	14.2	81	28.5	144	1.6	1.6
3/4" x 3/4"	20 x 20	152.5	152.5	21	96	33.5	172.5	2.4	2.4
1" x 1"	25 x 25	165	165	25.4	101	38	172.5	3.8	3.8

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/4" x 1/4"	08 x 08	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/8" x 3/8"	10 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04

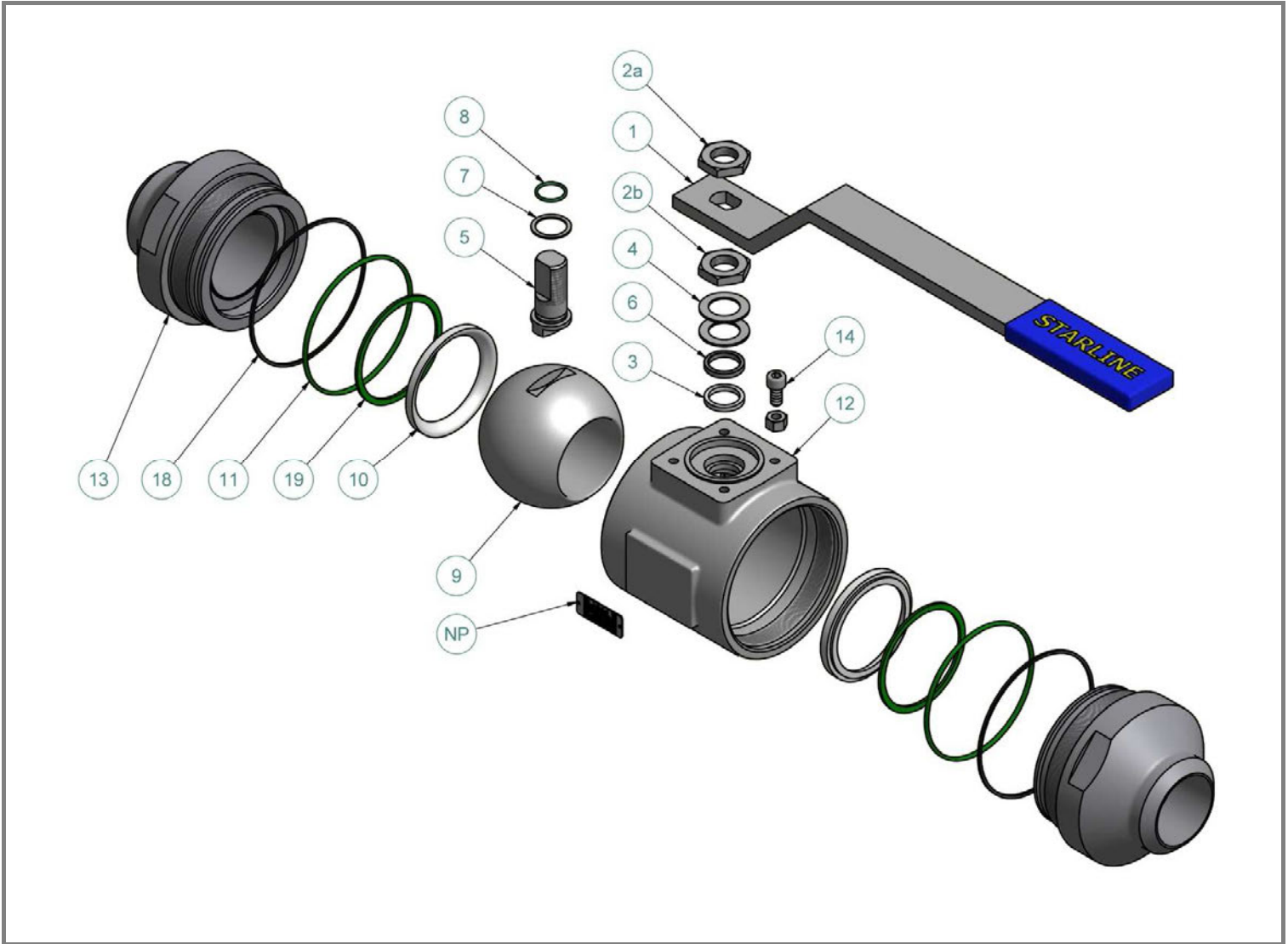


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1.1/4" x 1.1/4"	32 x 32	178	178	31.7	110	43.5	218	4.9	4.9
1.1/2" x 1.1/2"	40 x 40	190.5	190.5	38	114	47.5	218	6.7	6.7
2" x 2"	50 x 50	216	216	49	122	58.5	218	11.5	11.5

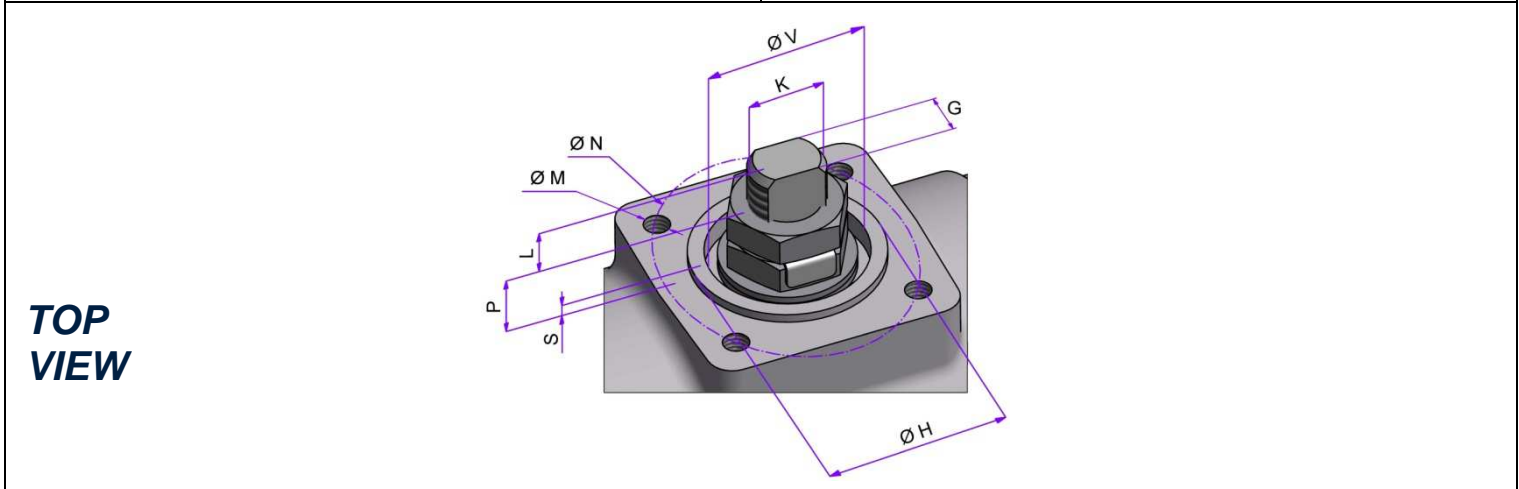
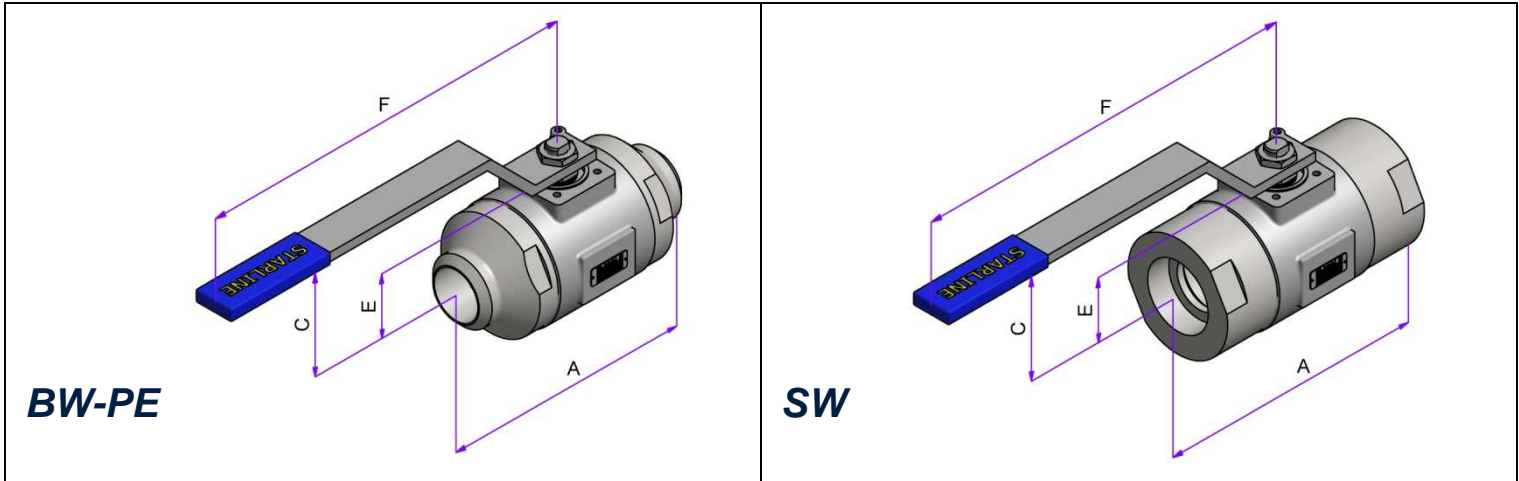
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1.1/4" x 1.1/4"	32 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

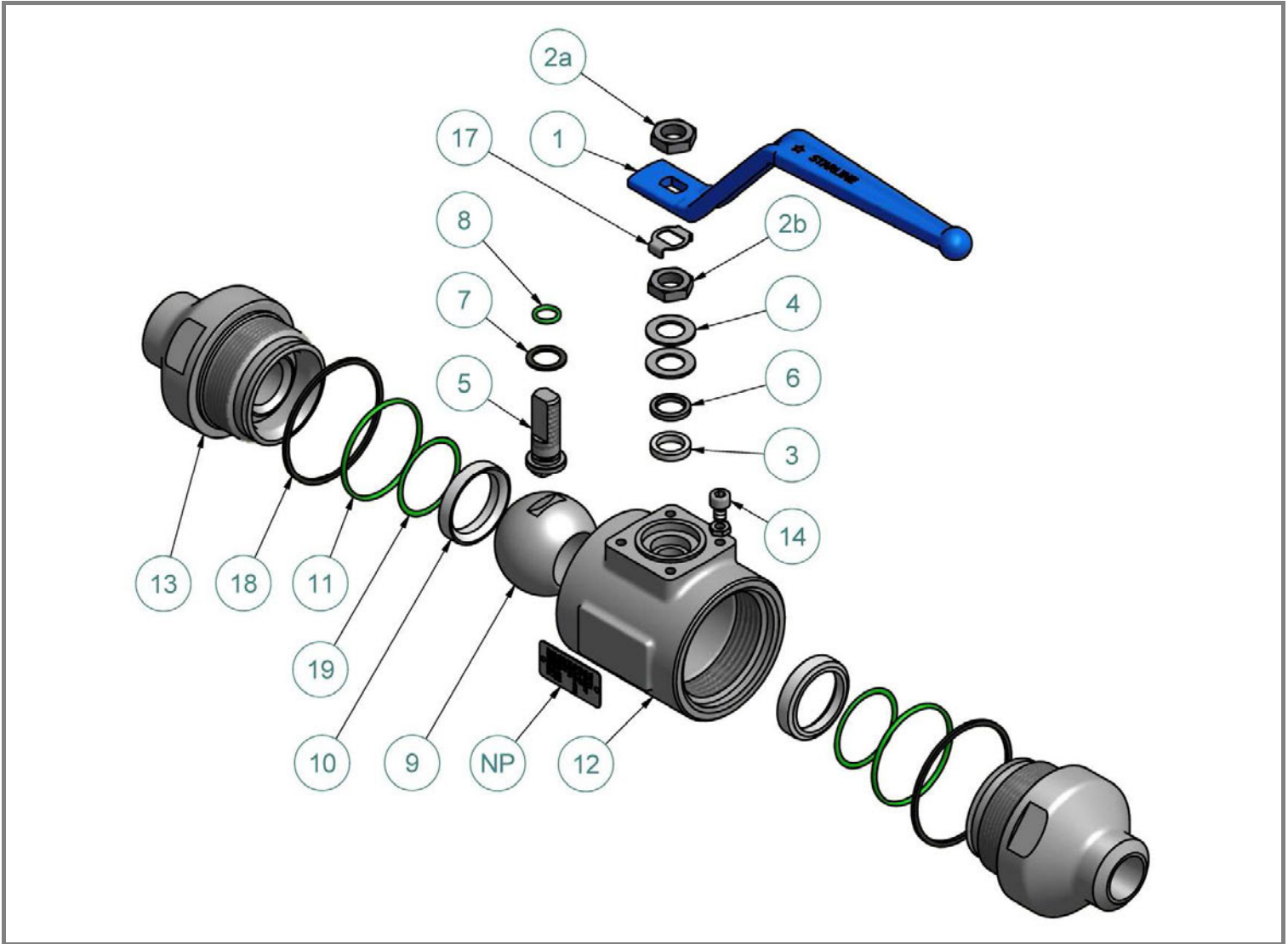
Note 1: Qty 0 for DN 80 - 3"

Note 2: Qty 2 for DN 80 - 3"

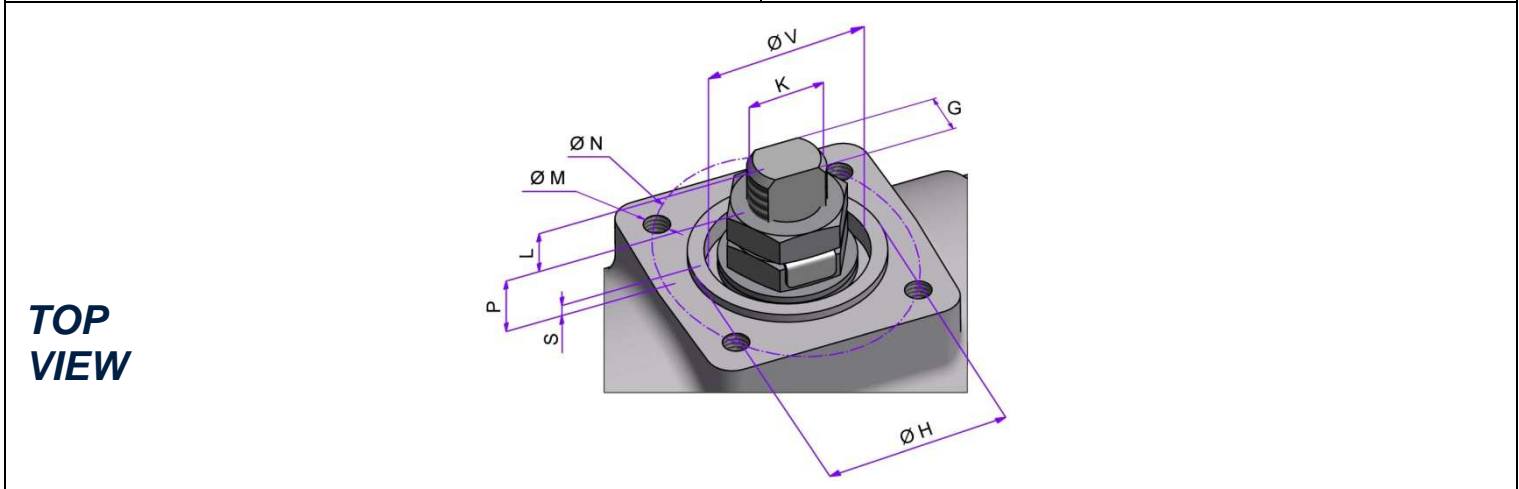
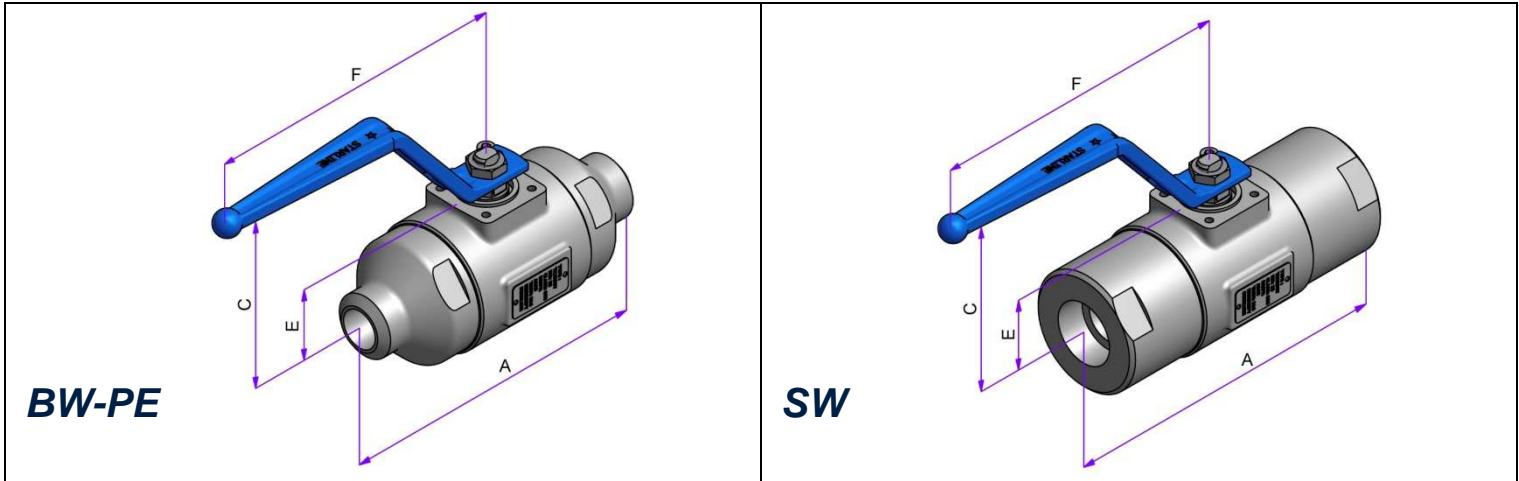


FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
2.1/2" x 2.1/2"	65 x 65	241	241	63.5	140	70	420	18.3	18.3
3" x 3"	80 x 80	282.5	282.5	76	162	88	420	29.3	29.3

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2.1/2"	65 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07

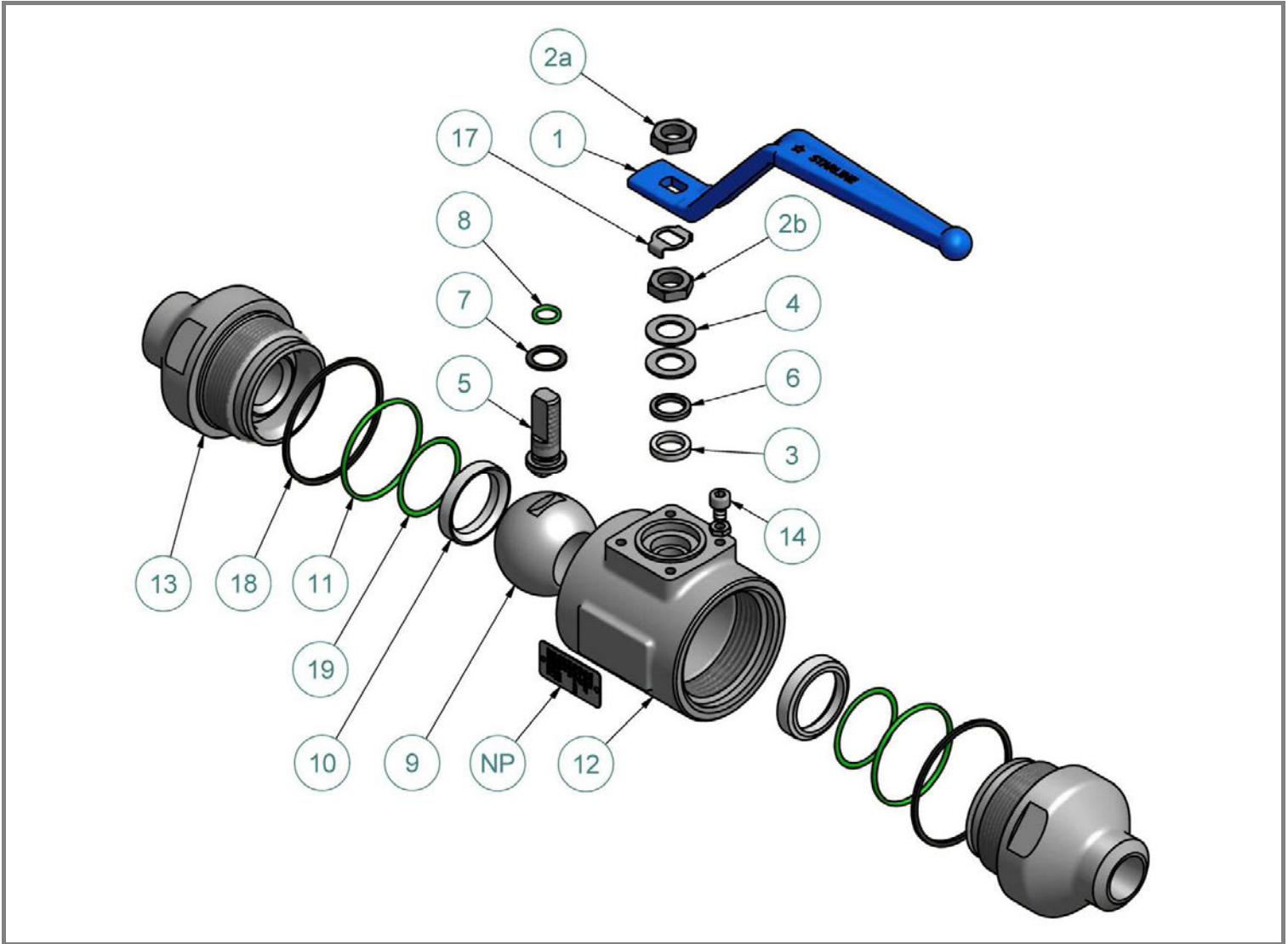


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

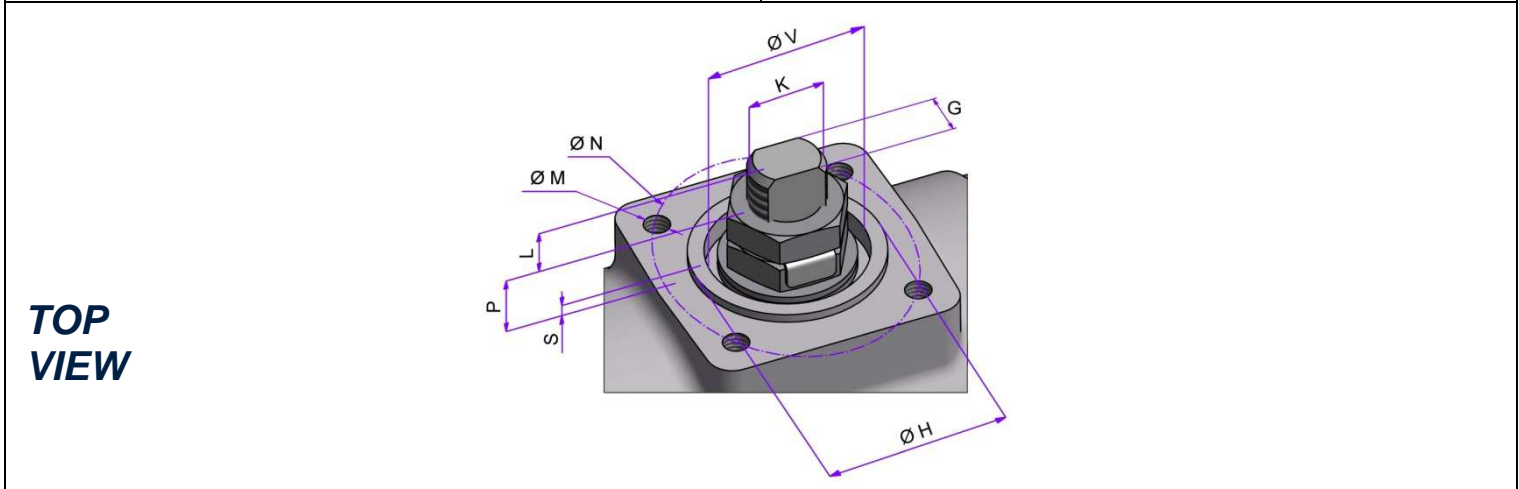
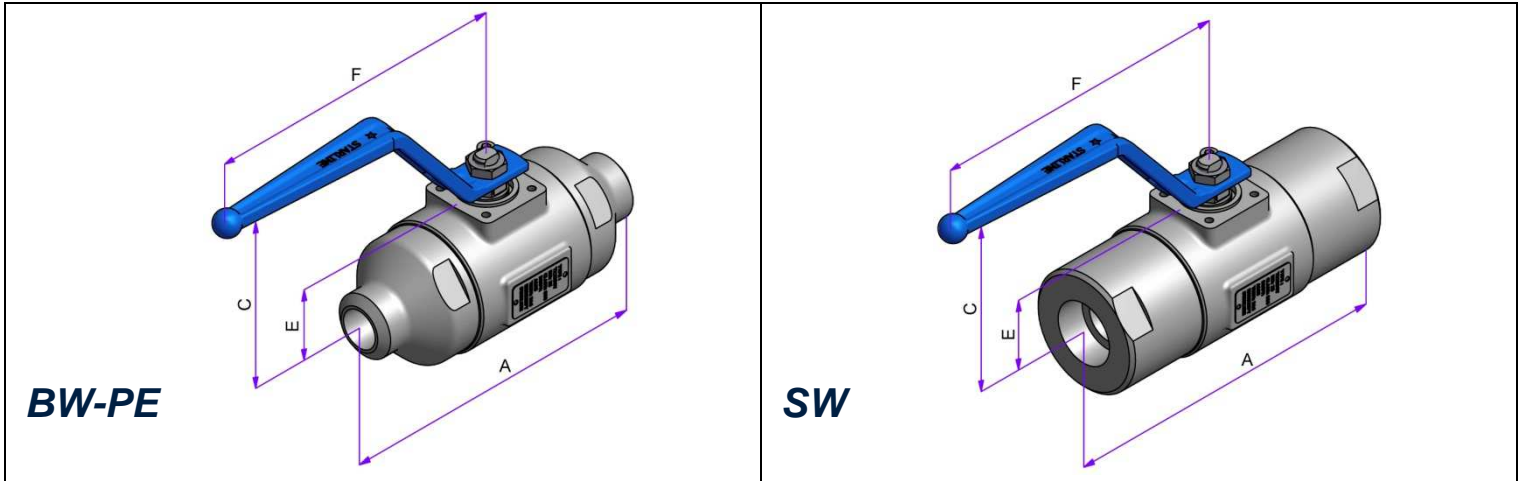


REDUCED BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1/2" x 3/8"	15 x 10	127	127	11.1	79	26	144	1.3	1.3
3/4" x 1/2"	20 x 15	140	140	14.2	81	28.5	144	1.5	1.5
1" x 3/4"	25 x 20	152.5	152.5	21	96	33.5	172.5	2.3	2.3
1.1/4" x 1"	32 x 25	165	165	25.4	101	38	172.5	3.6	3.6

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04

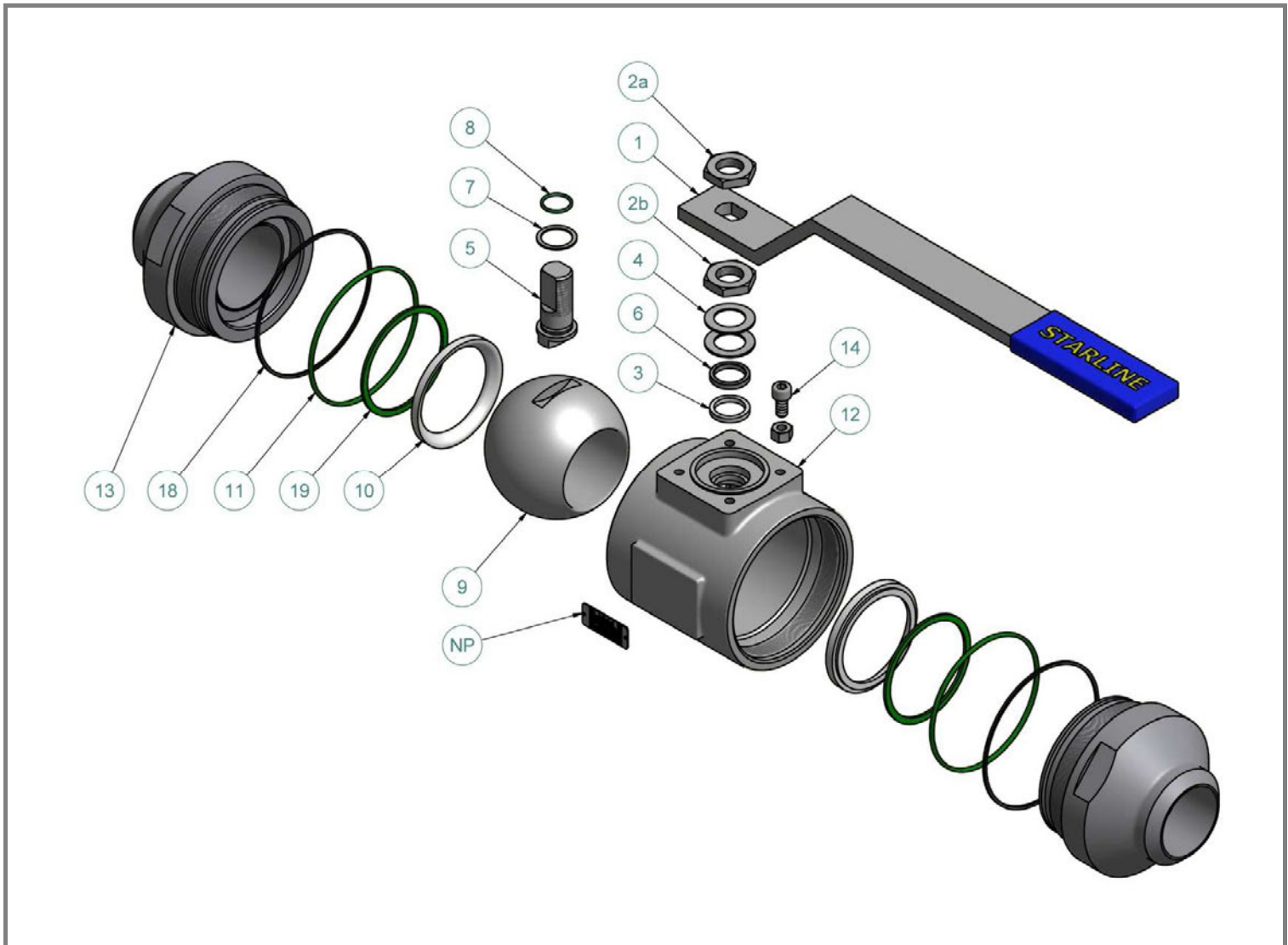


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



REDUCED BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1.1/2" x 1.1/4"	40 x 32	178	178	31.7	110	43.5	218	4.7	4.7
2" x 1.1/2"	50 x 40	190.5	190.5	38	114	47.5	218	6.2	6.2
2.1/2" x 2"	65 x 50	216	216	49	122	58.5	218	10	10

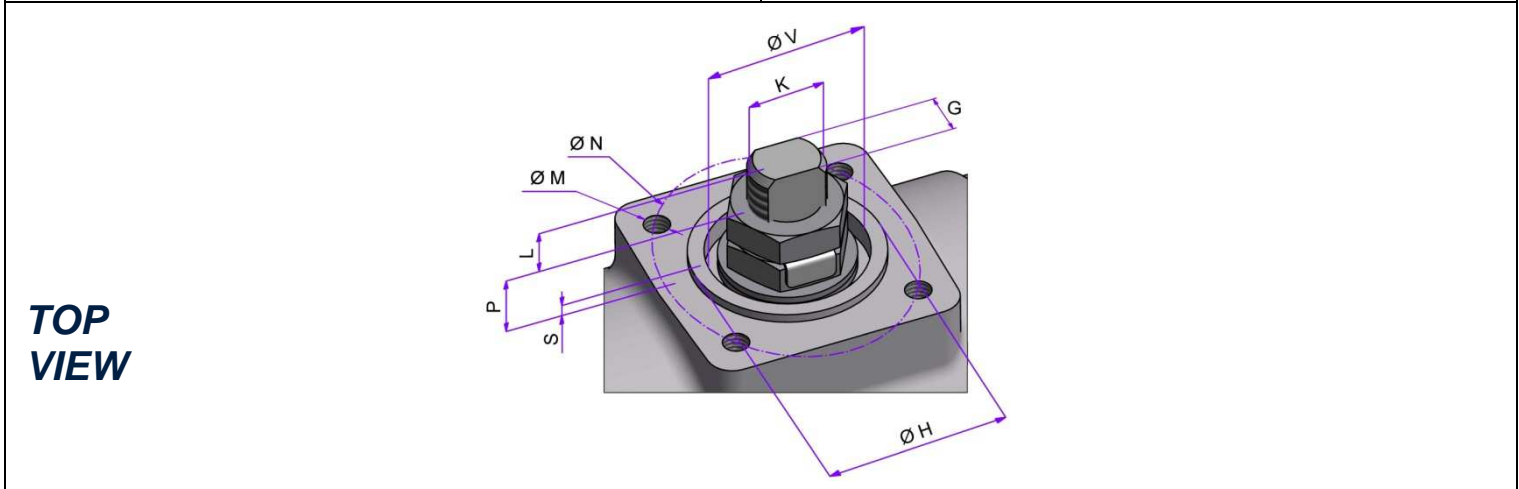
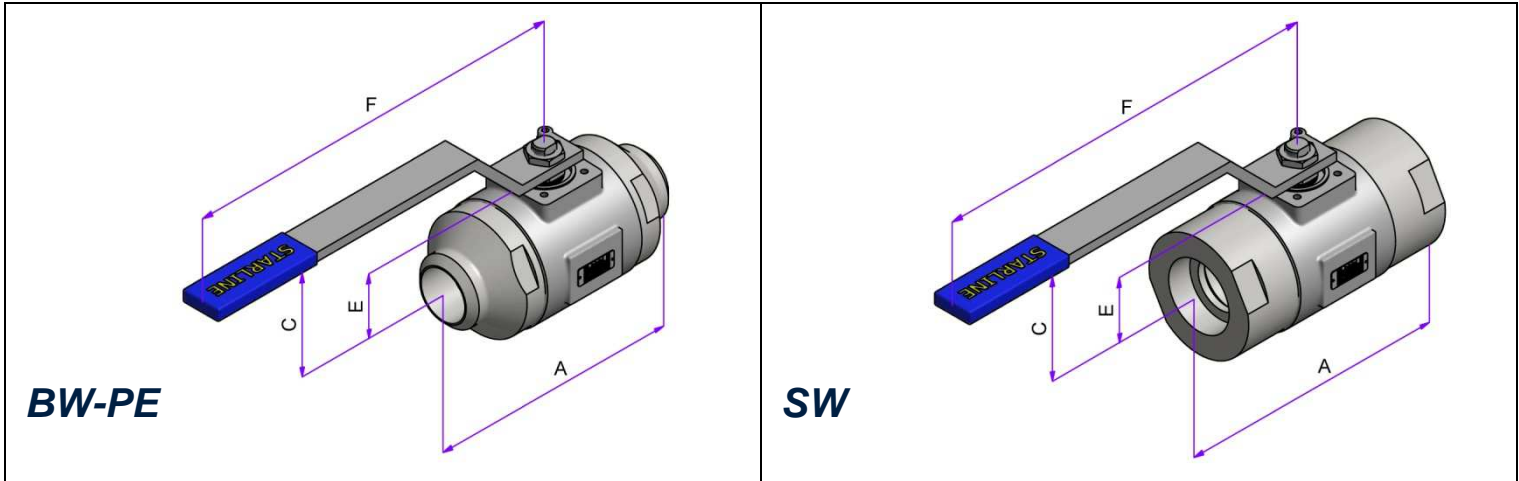
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1.1/2" x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

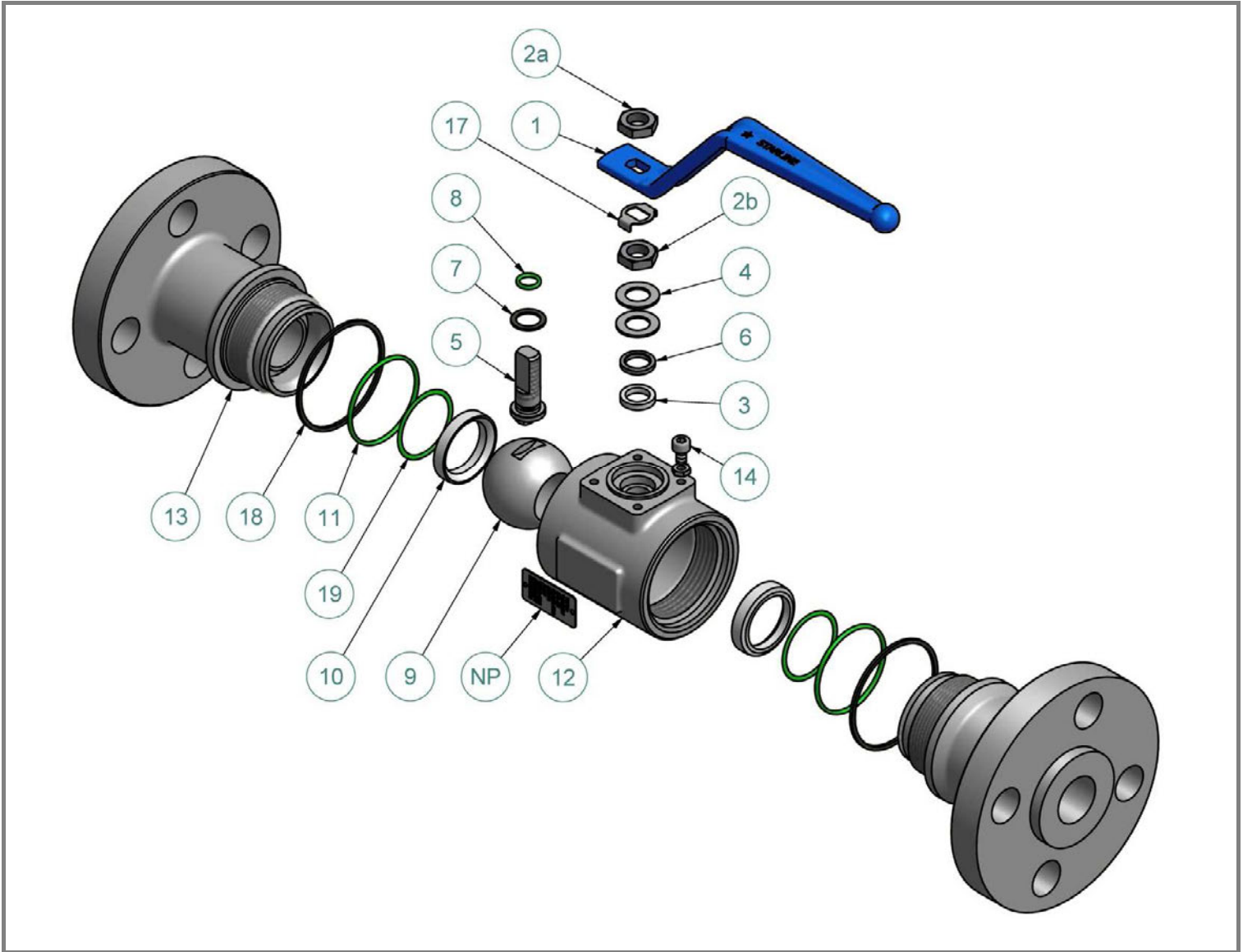
Note 1: Qty 0 for DN 100 - 4"

Note 2: Qty 2 for DN 100 - 4"

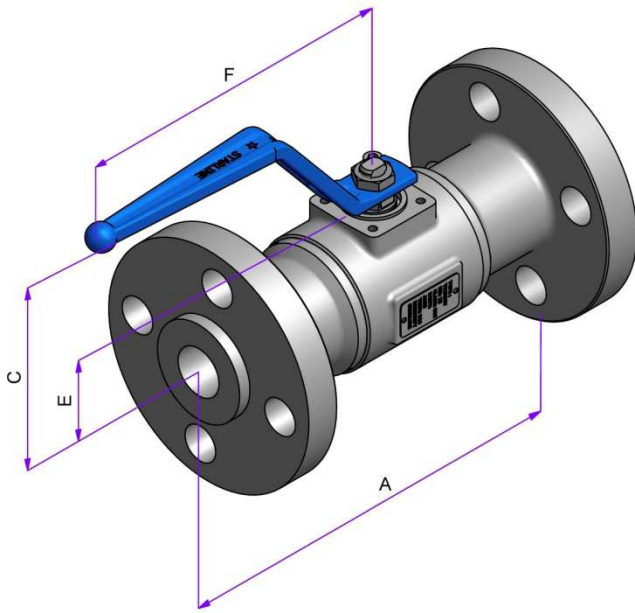


REDUCED BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
3''x 2.1/2''	80 x 65	241	241	63.5	140	70	420	17	17
4''x 3''	100 x 80	282.5	282.5	76	162	88	420	27.5	27.5

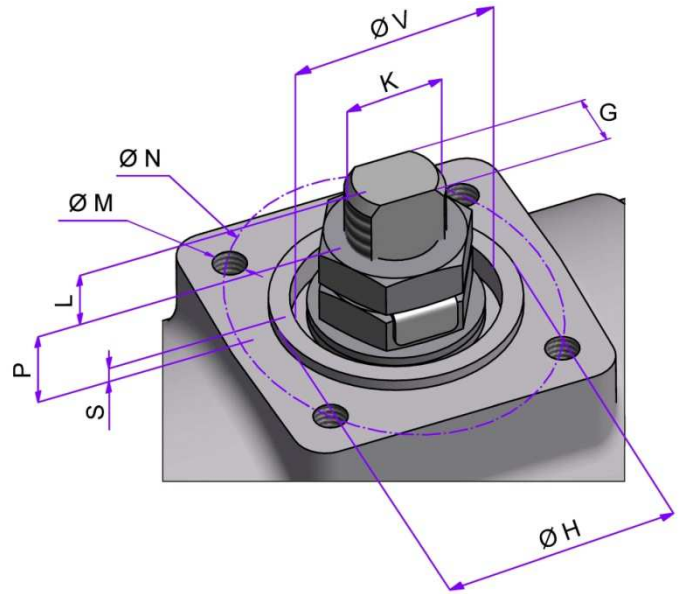
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
3''x 2.1/2''	80 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
4''x 3''	100 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF



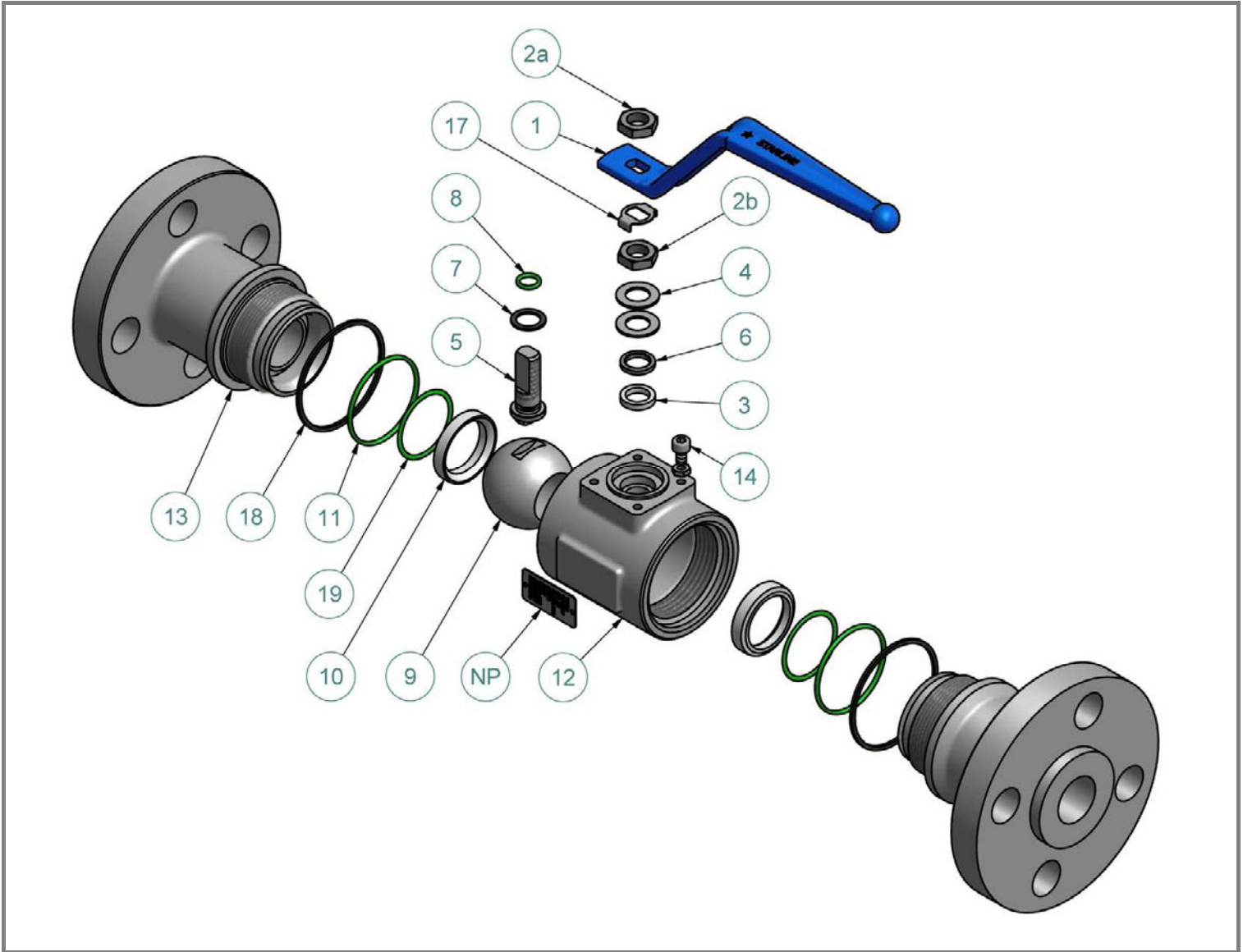
**TOP
VIEW**

FULL BORE

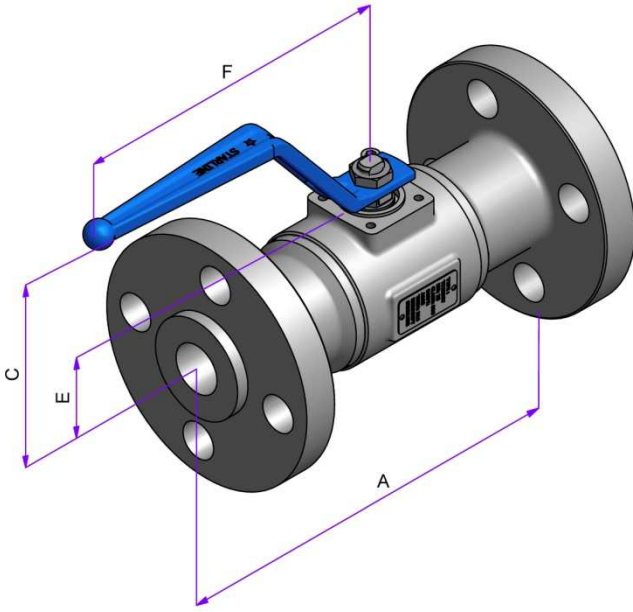
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2"x 1/2"	15 x 15	108	14.2	81	28.5	144	2.8
1"x 1"	25 x 25	127	25.4	101	38	172.5	4.9
1.1/2"x 1.1/2"	40 x 40	165	38	114	47.5	218	8.9
2"x 2"	50 x 50	178	49	122	58.5	218	13.9

TOP MOUNTING

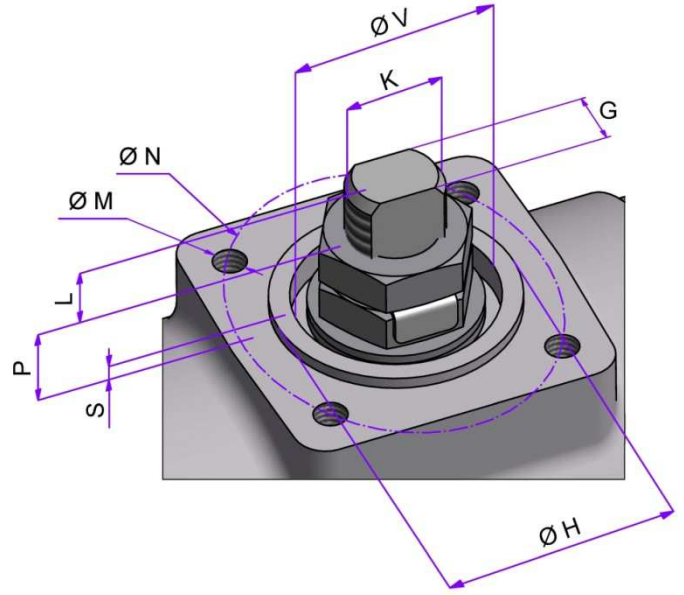
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2"x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/2"	40 x 40	12	15.3	1.5	30	M15X1.5	8.9	35	50	M6x10	F05
2"x 2"	50 x 50	12	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF



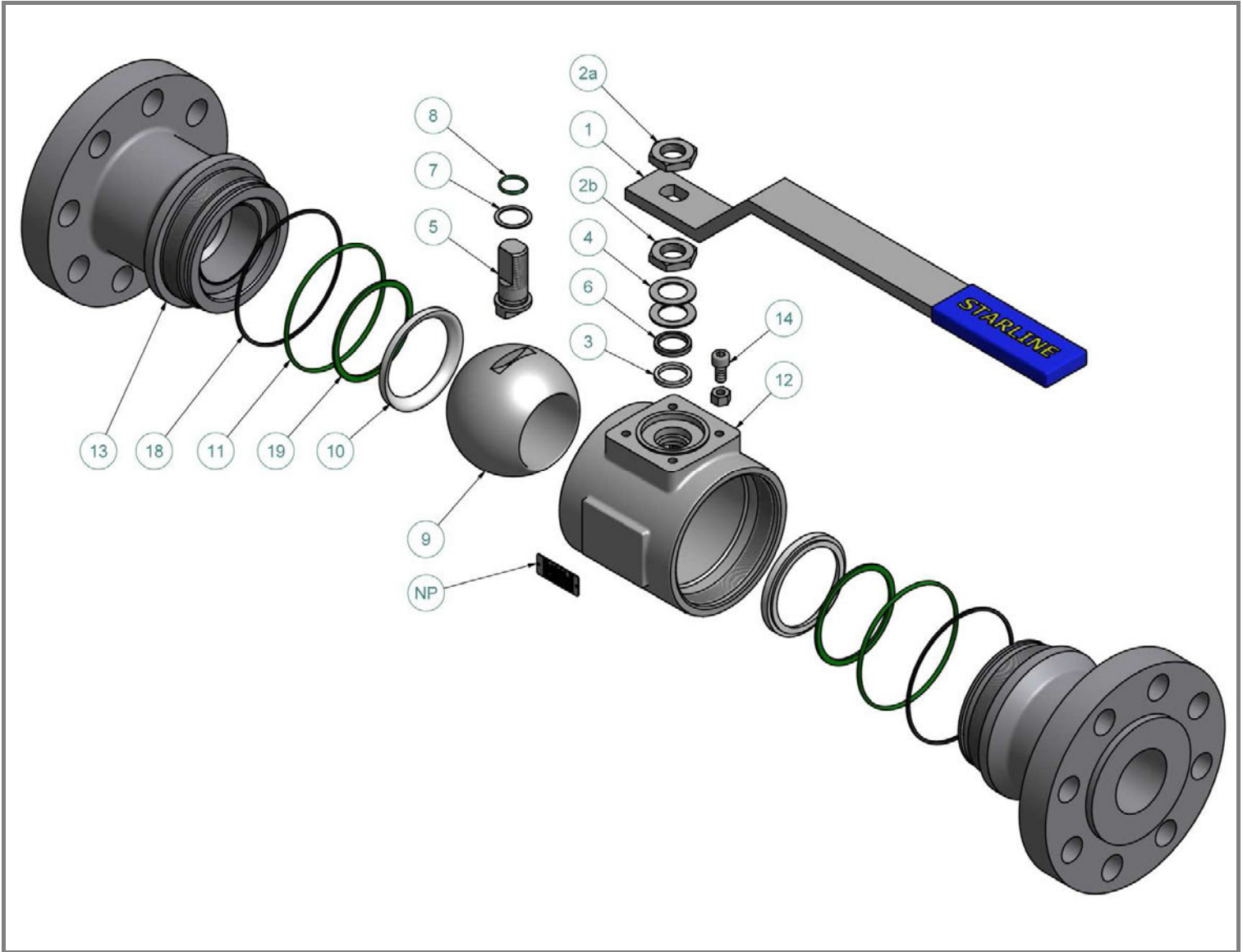
**TOP
VIEW**

REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 3/8"	15 x 10	108	11.1	79	26	144	2.6
3/4" x 1/2"	20 x 15	117.5	14.2	81	28.5	144	3.1
1" x 3/4"	25 x 20	127	21	96	33.5	172.5	4.2
1.1/4" x 1"	32 x 25	140	25.4	101	38	172.5	5.4
1.1/2" x 1.1/4"	40 x 32	165	31.7	110	43.5	218	7.4
2" x 1.1/2"	50 x 40	178	38	114	47.5	218	10.7
2.1/2" x 2"	65 x 50	191	49	122	58.5	218	14.7

TOP MOUNTING

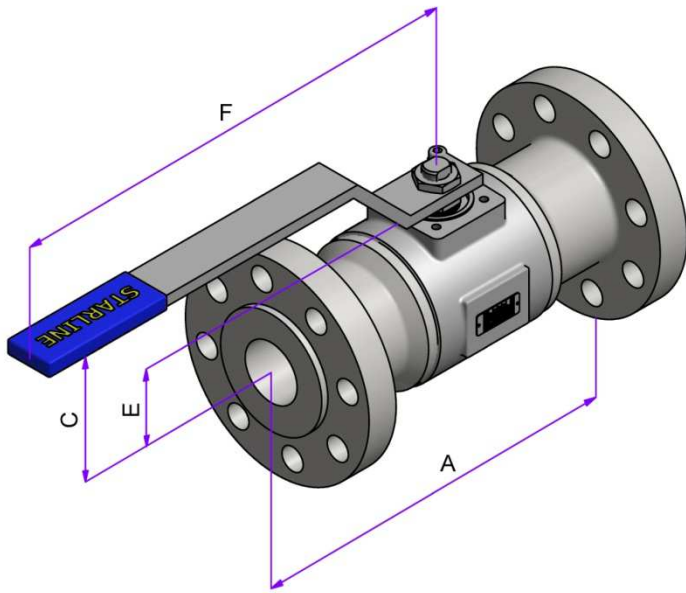
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9.1	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2" x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



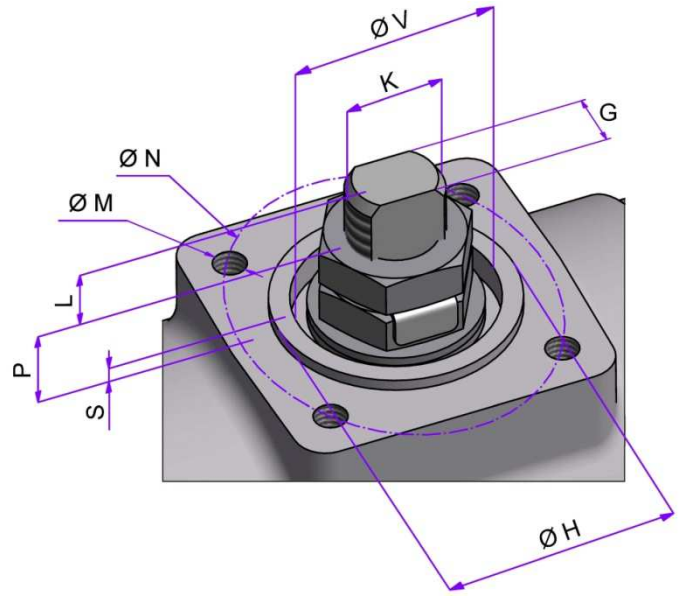
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 100 - 4"

Note 2: Qty 2 for DN 100 - 4"



RF



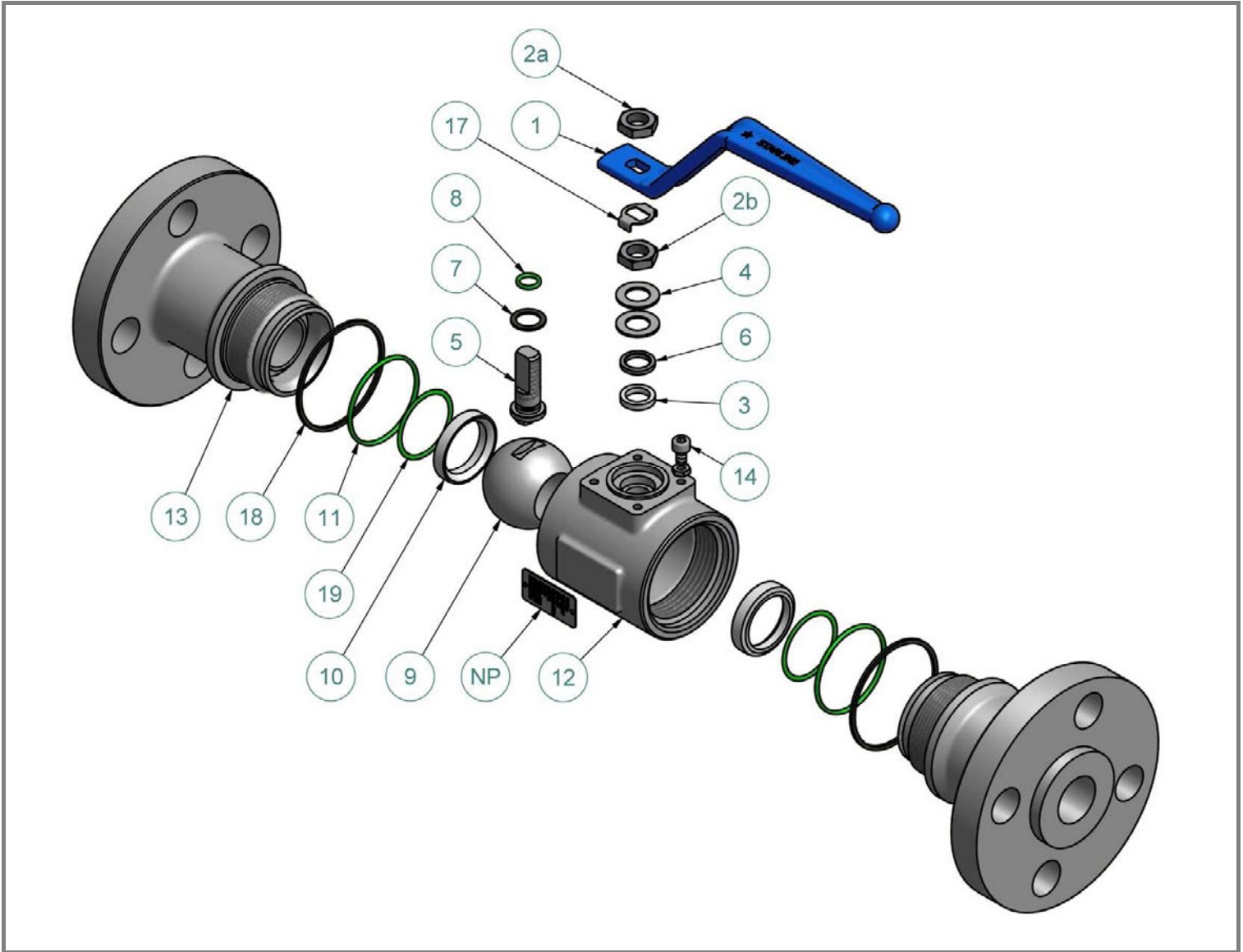
**TOP
VIEW**

REDUCED BORE

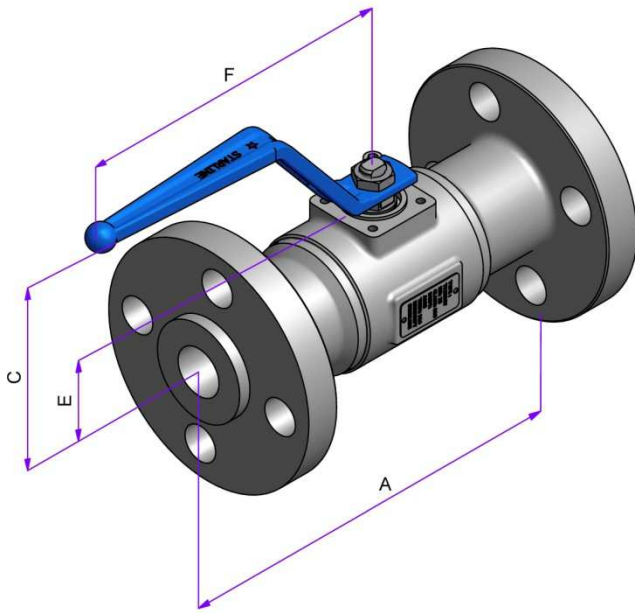
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
3''x 2.1/2''	80 x 65	203	63.5	140	70	420	21.6
4''x 3''	100 x 80	228.5	76	162	88	420	35

TOP MOUNTING

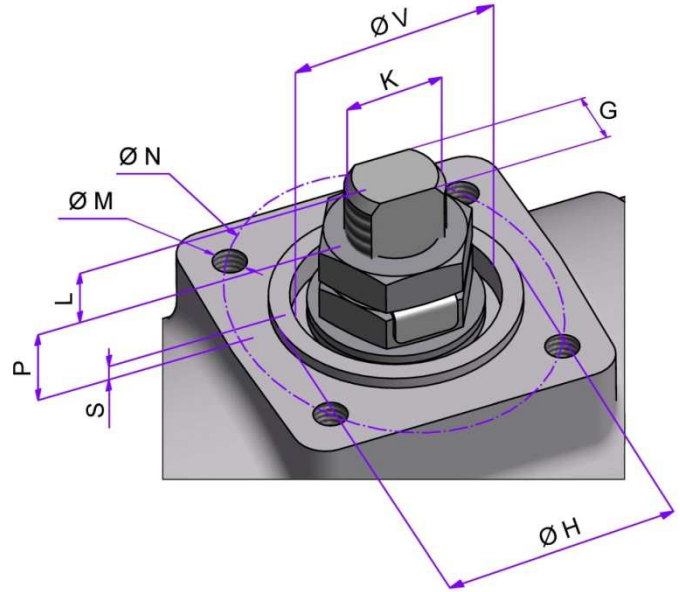
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
3''x 2.1/2''	80 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
4''x 3''	100 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



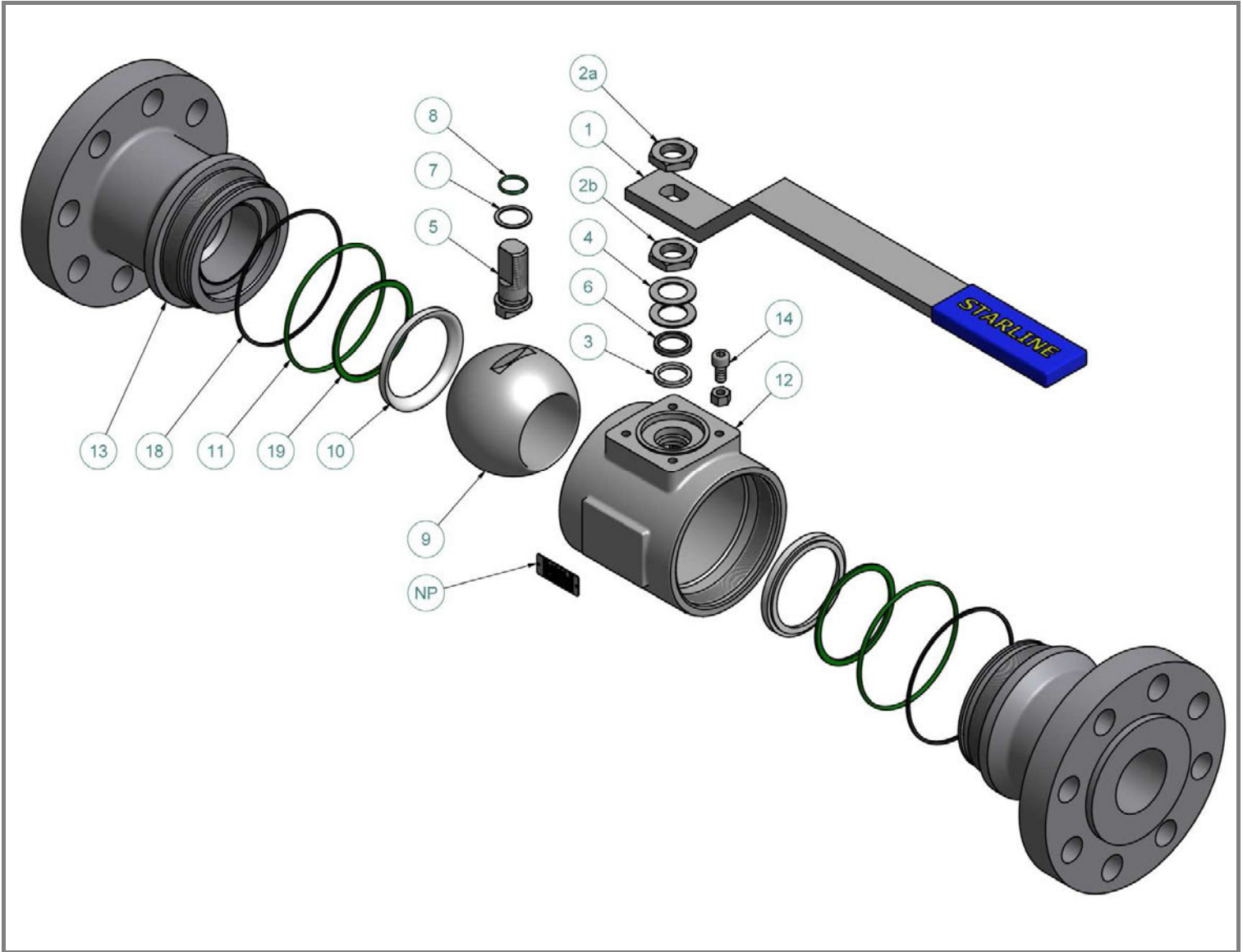
RF-RTJ



TOP VIEW

FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 1/2"	15 x 15	140	151	14.2	81	28.5	144	3.3	3.3
3/4" x 3/4"	20 x 20	152.5	165	21	96	33.5	172.5	4.9	4.9
1" x 1"	25 x 25	165	178	25.4	101	38	172.5	6.5	6.5
1.1/4" x 1.1/4"	32 x 32	178	191	31.7	110	43.5	218	9.5	9.5
1.1/2" x 1.1/2"	40 x 40	191	203	38	114	47.5	218	12.5	12.5
2" x 2"	50 x 50	216	231.5	49	122	58.5	218	17.5	17.5

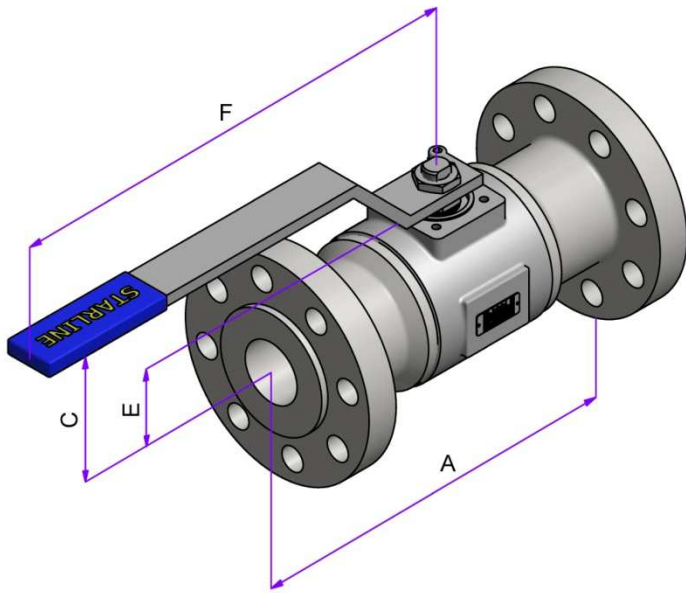
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.1	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



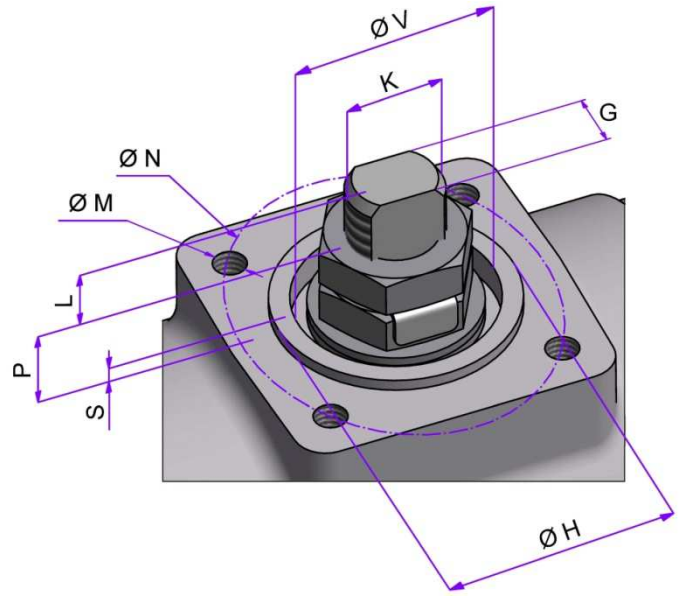
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 80 - 3"

Note 2: Qty 2 for DN 80 - 3"



RF-RTJ



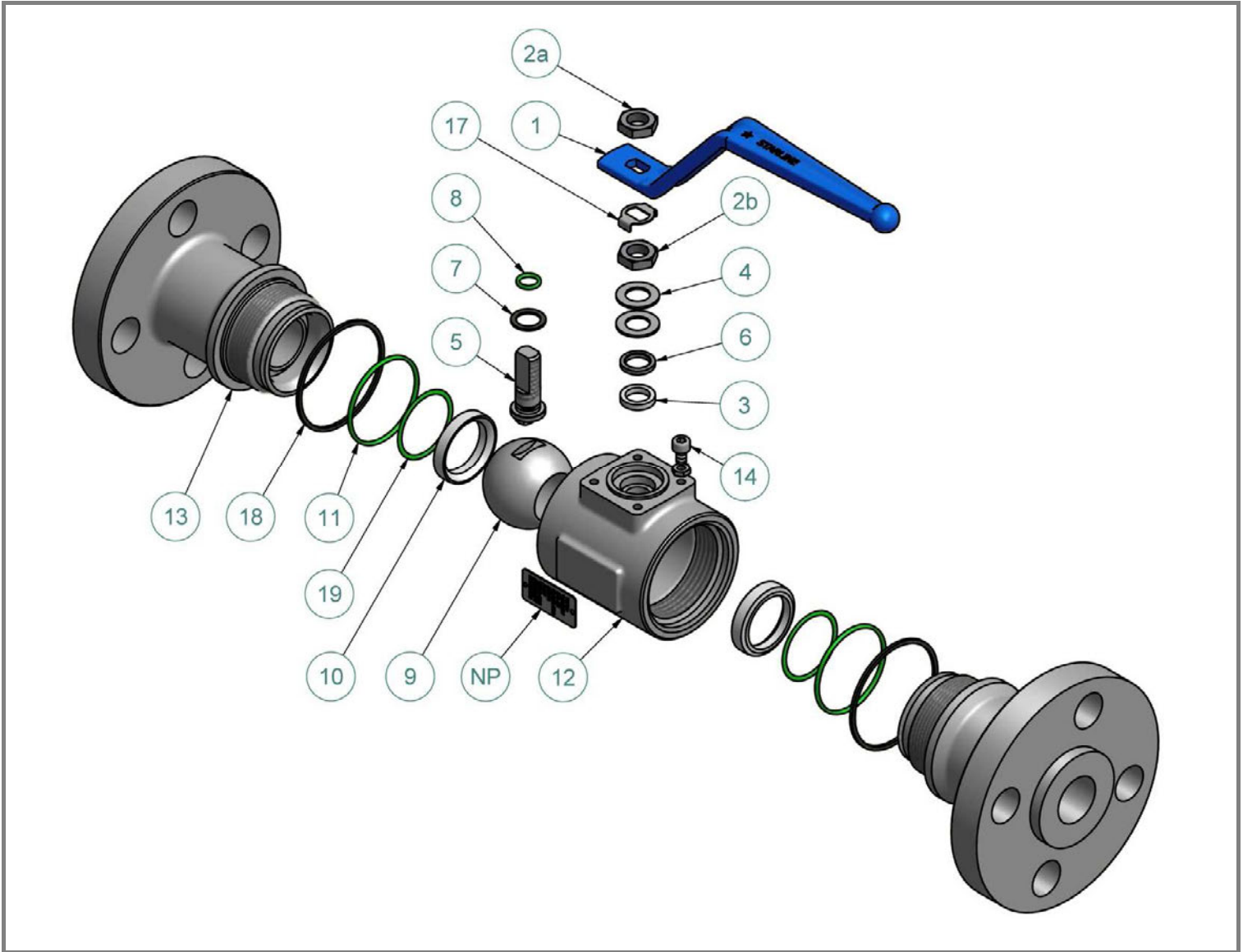
TOP VIEW

FULL BORE

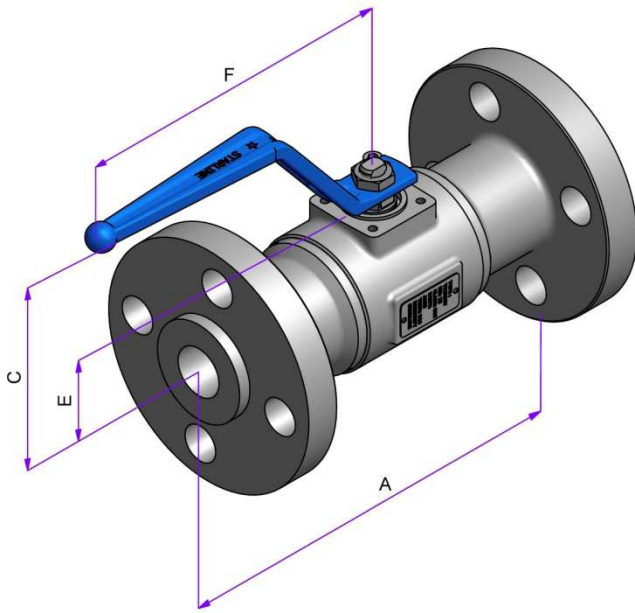
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
2.1/2" x 2.1/2"	65 x 65	241	257	63.5	140	70	420	25.5	25.5
3" x 3"	80 x 80	282.5	298.2	76	162	88	420	43.5	43.5

TOP MOUNTING

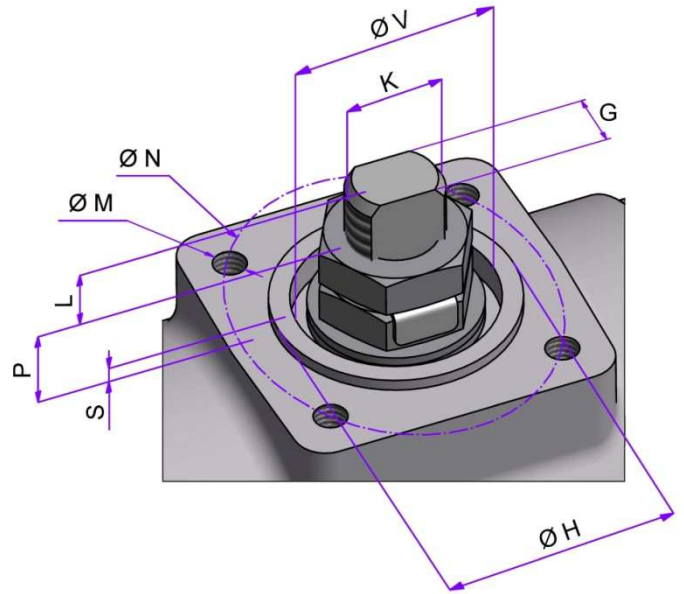
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2.1/2"	65 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF-RTJ



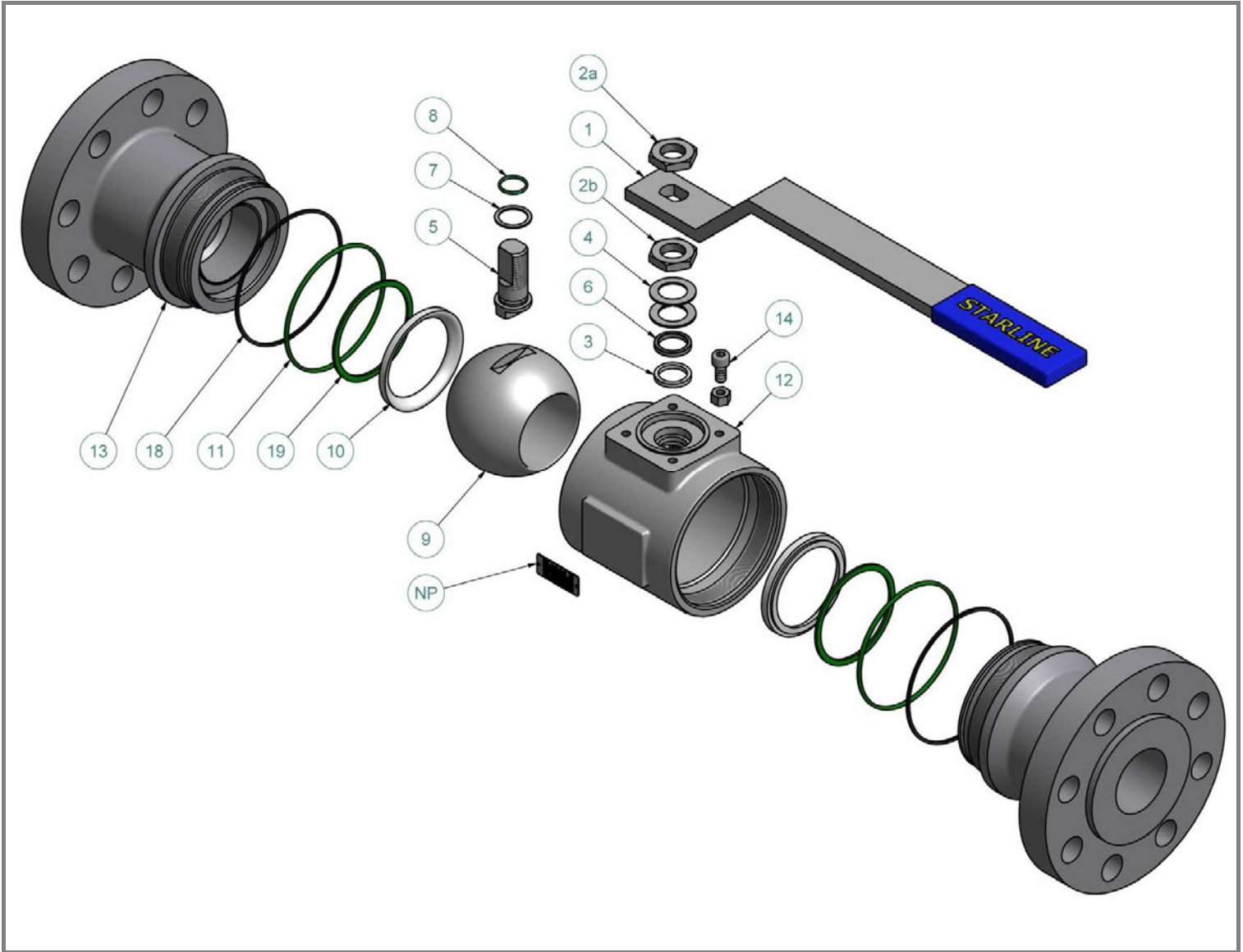
TOP VIEW

REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2"x 3/8"	15 x 10	140	151	11.1	79	26	144	3.1	3.1
3/4"x 1/2"	20 x 15	152.5	165	14.2	81	28.5	144	4	4
1"x 3/4"	25 x 20	165	178	21	96	33.5	172.5	5.8	5.8
1.1/4"x 1"	32 x 25	178	191	25.4	101	38	172.5	8.4	8.4
1.1/2"x 1.1/4"	40 x 32	191	203	31.7	110	43.5	218	11	11
2"x 1.1/2"	50 x 40	216	231.5	38	114	47.5	218	14.3	14.3
2.1/2"x 2"	65 x 50	241	257	49	122	58.5	218	20	20

TOP MOUNTING

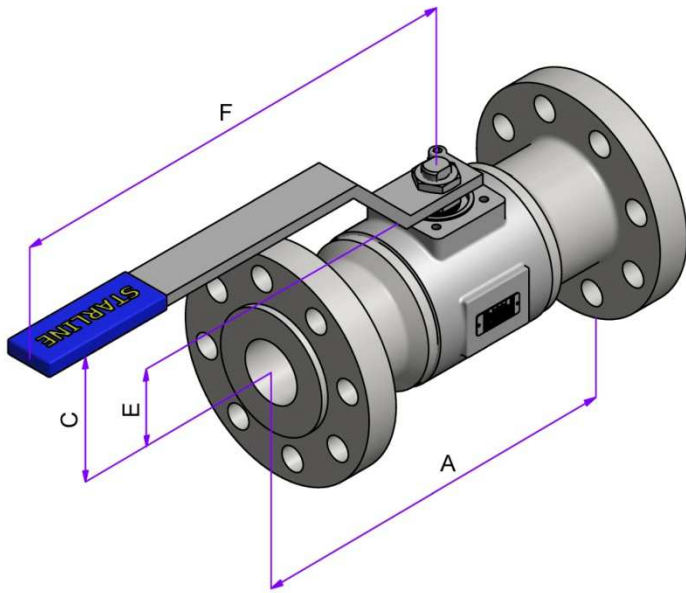
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2"x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 3/4"	25 x 20	9.1	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2"x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2"x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



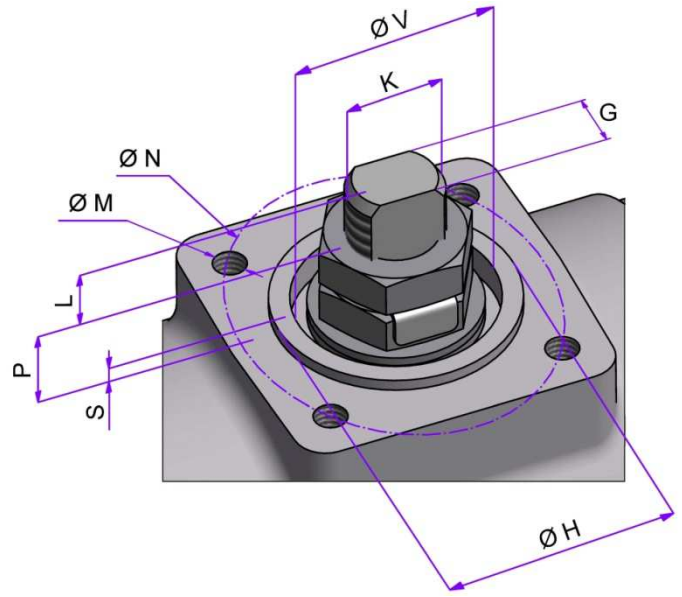
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 100 - 4"

Note 2: Qty 2 for DN 100 - 4"



RF-RTJ



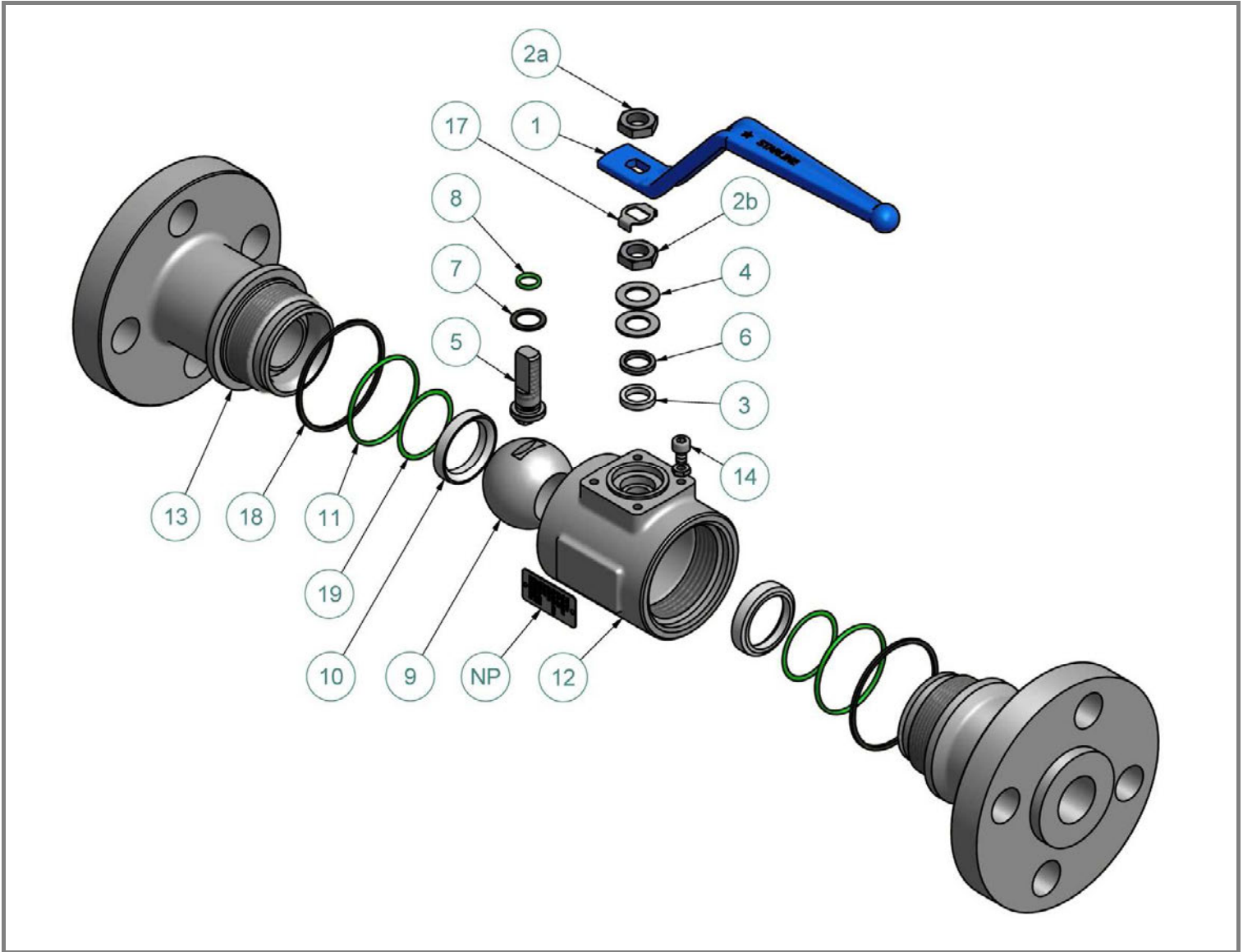
TOP VIEW

REDUCED BORE

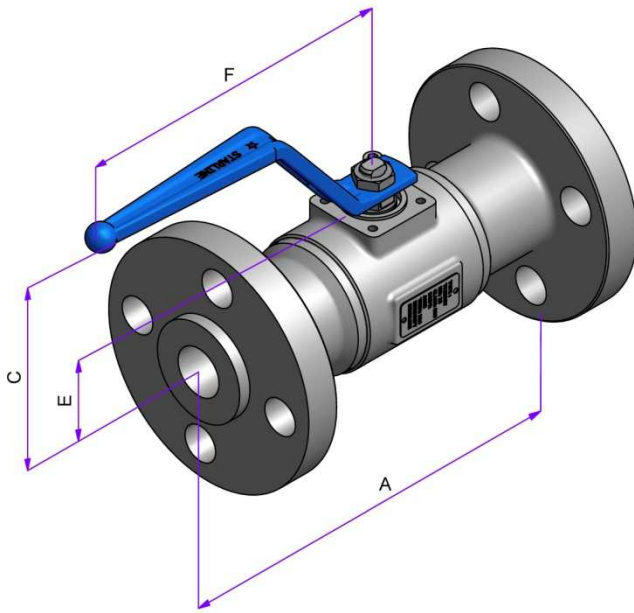
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
3''x 2.1/2''	80 x 65	282.5	298.2	63.5	140	70	420	34	34
4''x 3''	100 x 80	305	320.5	76	162	88	420	44	44

TOP MOUNTING

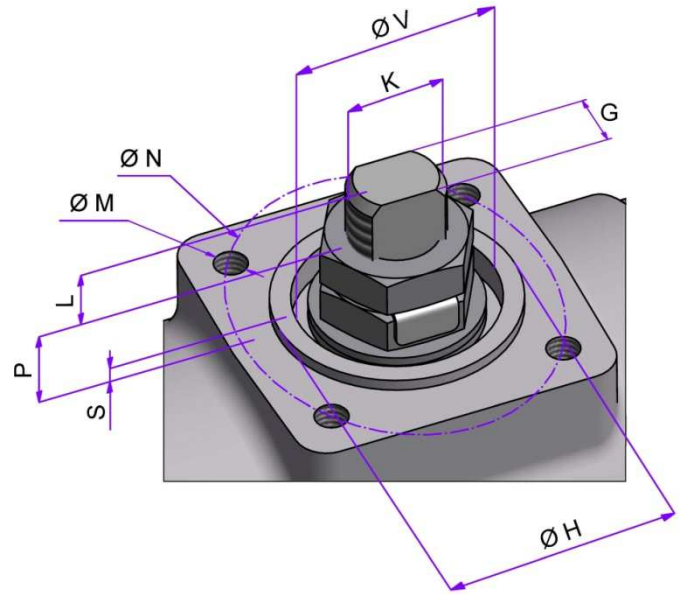
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
3''x 2.1/2''	80 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
4''x 3''	100 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF-RTJ



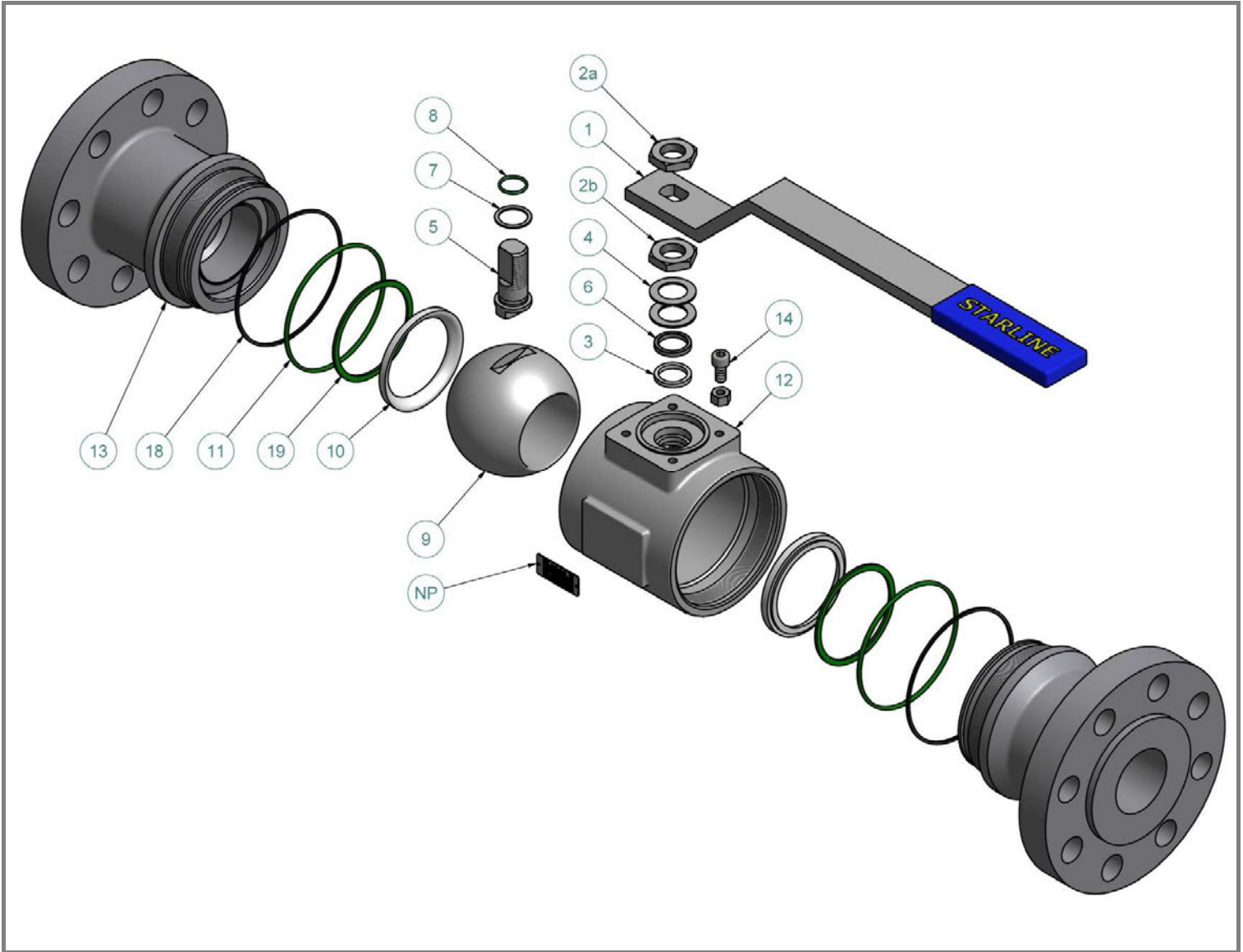
TOP VIEW

FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 1/2"	15 x 15	165	163.5	14.2	81	28.5	144	4	4
3/4" x 3/4"	20 x 20	190.5	190.5	21	96	33.5	172.5	5.6	5.6
1" x 1"	25 x 25	216	216	25.4	101	38	172.5	7.3	7.3
1.1/4" x 1.1/4"	32 x 32	228.5	228.5	31.7	110	43.5	218	10.3	10.3
1.1/2" x 1.1/2"	40 x 40	241	241	38	114	47.5	218	14.5	14.5
2" x 2"	50 x 50	292	295	49	122	58.5	218	19.5	19.5

TOP MOUNTING

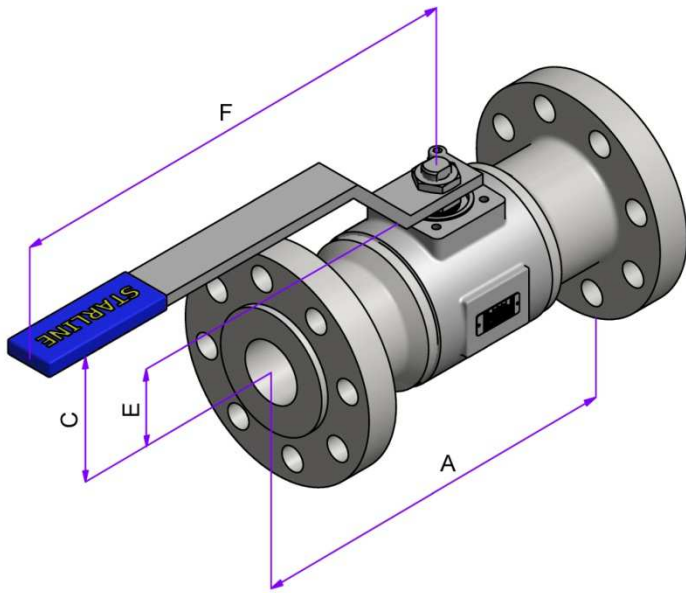
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



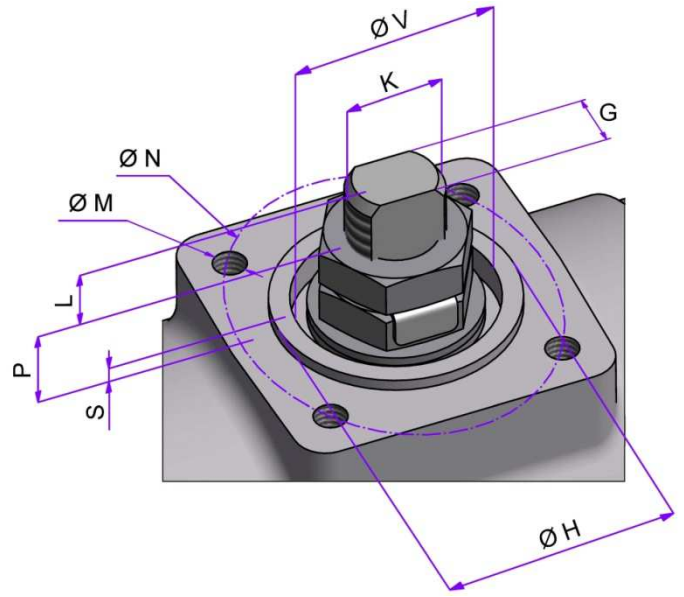
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 80 - 3"

Note 2: Qty 2 for DN 80 - 3"



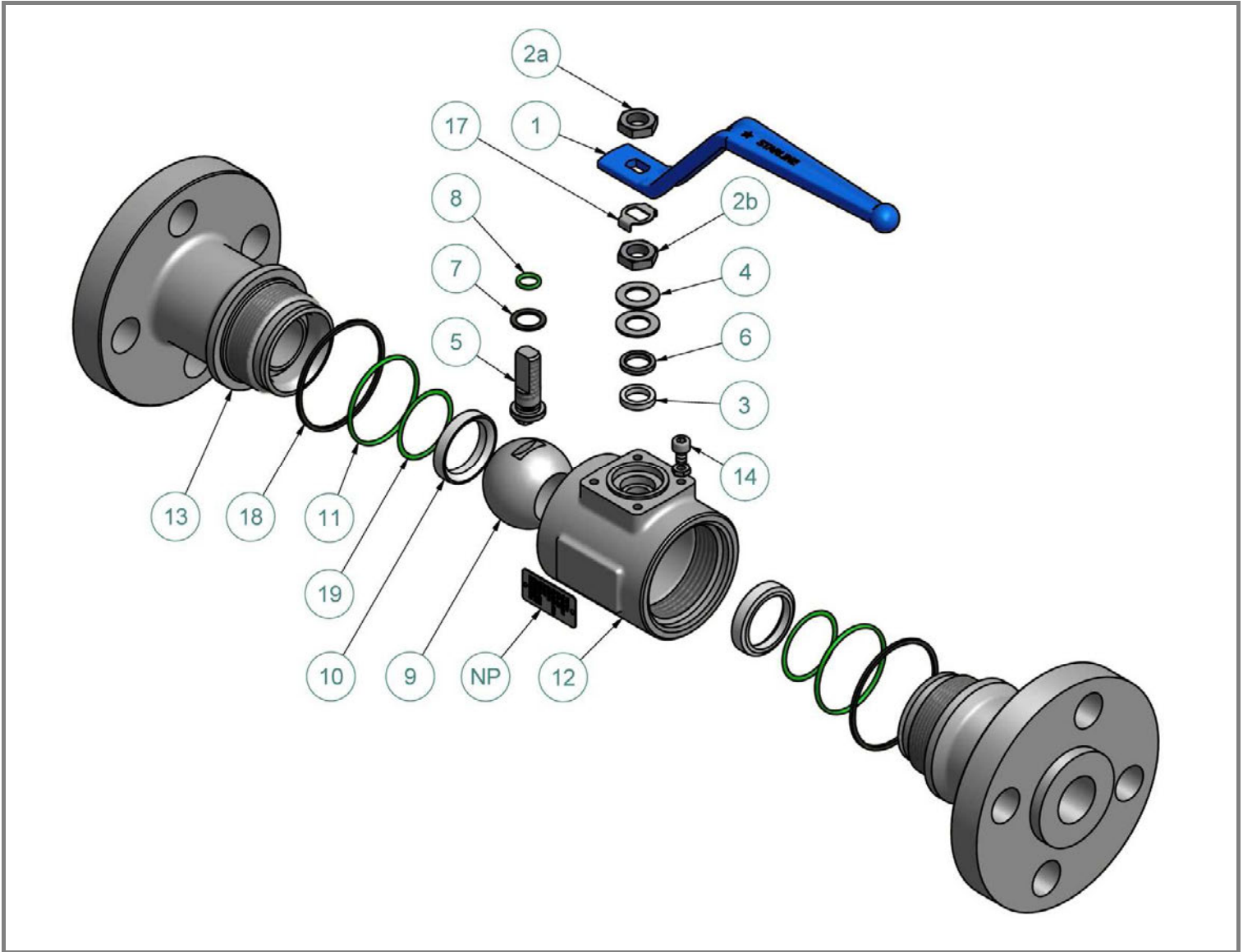
RF-RTJ



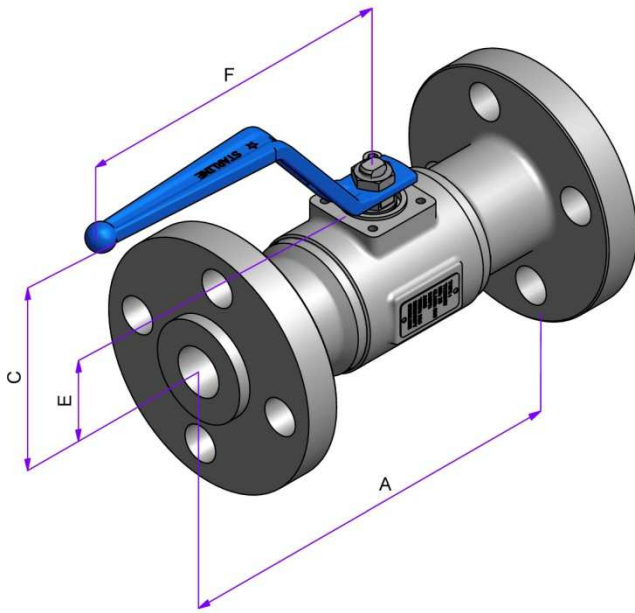
TOP VIEW

FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
2.1/2" x 2.1/2"	65 x 65	330	333	63.5	140	70	420	28.5	28.5
3" x 3"	80 x 80	355.6	358.6	76	162	88	420	49.5	49.5

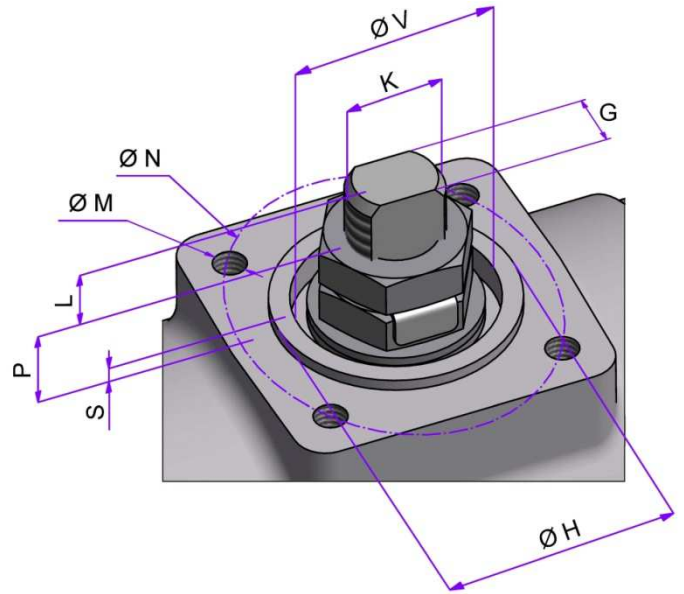
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2.1/2"	65 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF-RTJ



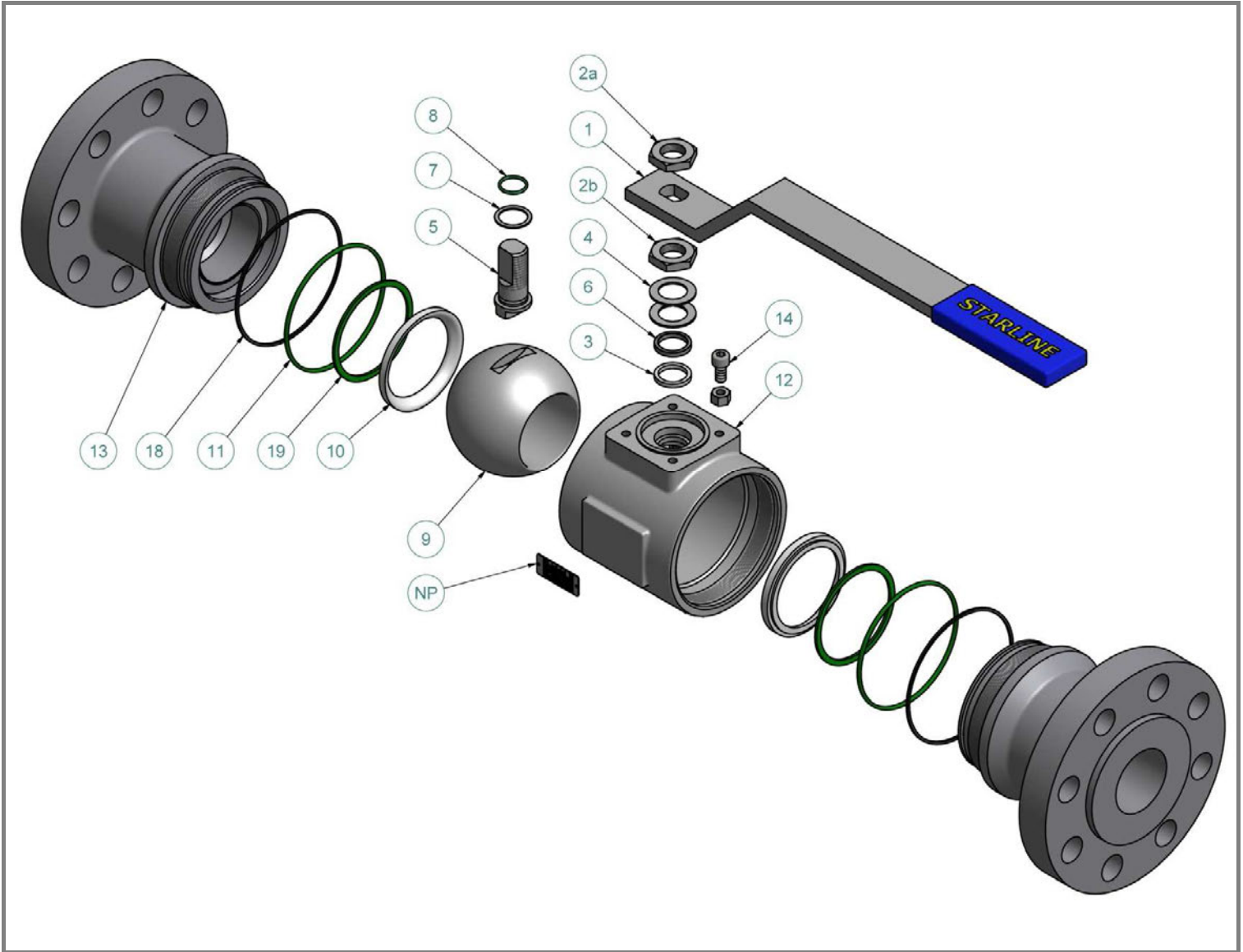
TOP VIEW

REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2"x 3/8"	15 x 10	165	163.5	11.1	79	26	144	3.8	3.8
3/4"x 1/2"	20 x 15	190.5	190.5	14.2	81	28.5	144	4.8	4.8
1"x 3/4"	25 x 20	216	216	21	96	33.5	172.5	6.6	6.6
1.1/4"x 1"	32 x 25	228.5	228.5	25.4	101	38	172.5	9.2	9.2
1.1/2"x 1.1/4"	40 x 32	241	241	31.7	110	43.5	218	13	13
2"x 1.1/2"	50 x 40	292	295	38	114	47.5	218	16.3	16.3
2.1/2"x 2"	65 x 50	330	333	49	122	58.5	218	23	23

TOP MOUNTING

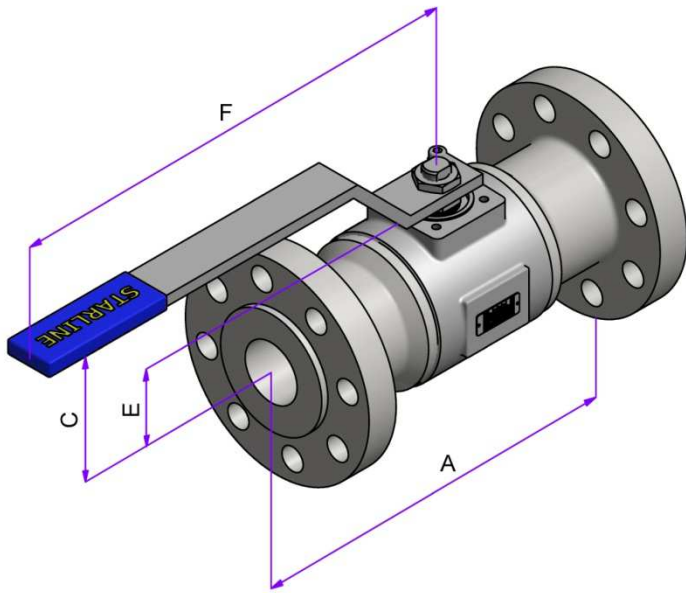
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2"x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 3/4"	25 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2"x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2"x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



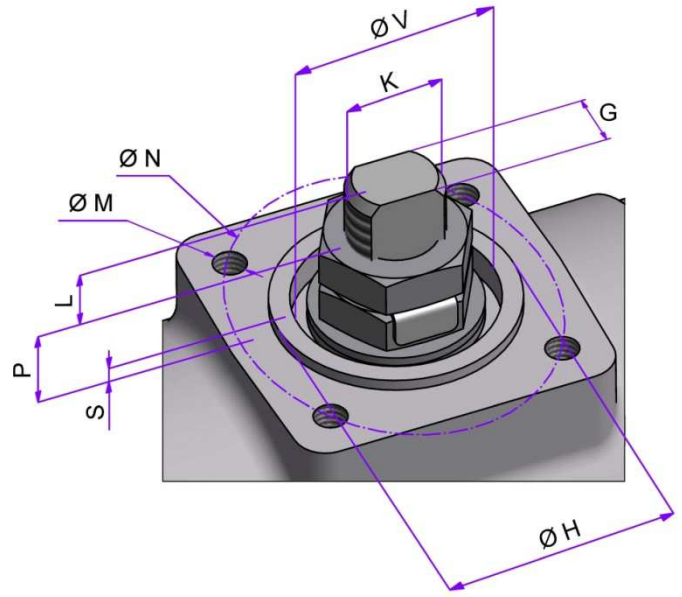
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 ^{Note1}	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 ^{Note2}	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table

Note 1: Qty 0 for DN 100 - 4"

Note 2: Qty 2 for DN 100 - 4"



RF-RTJ



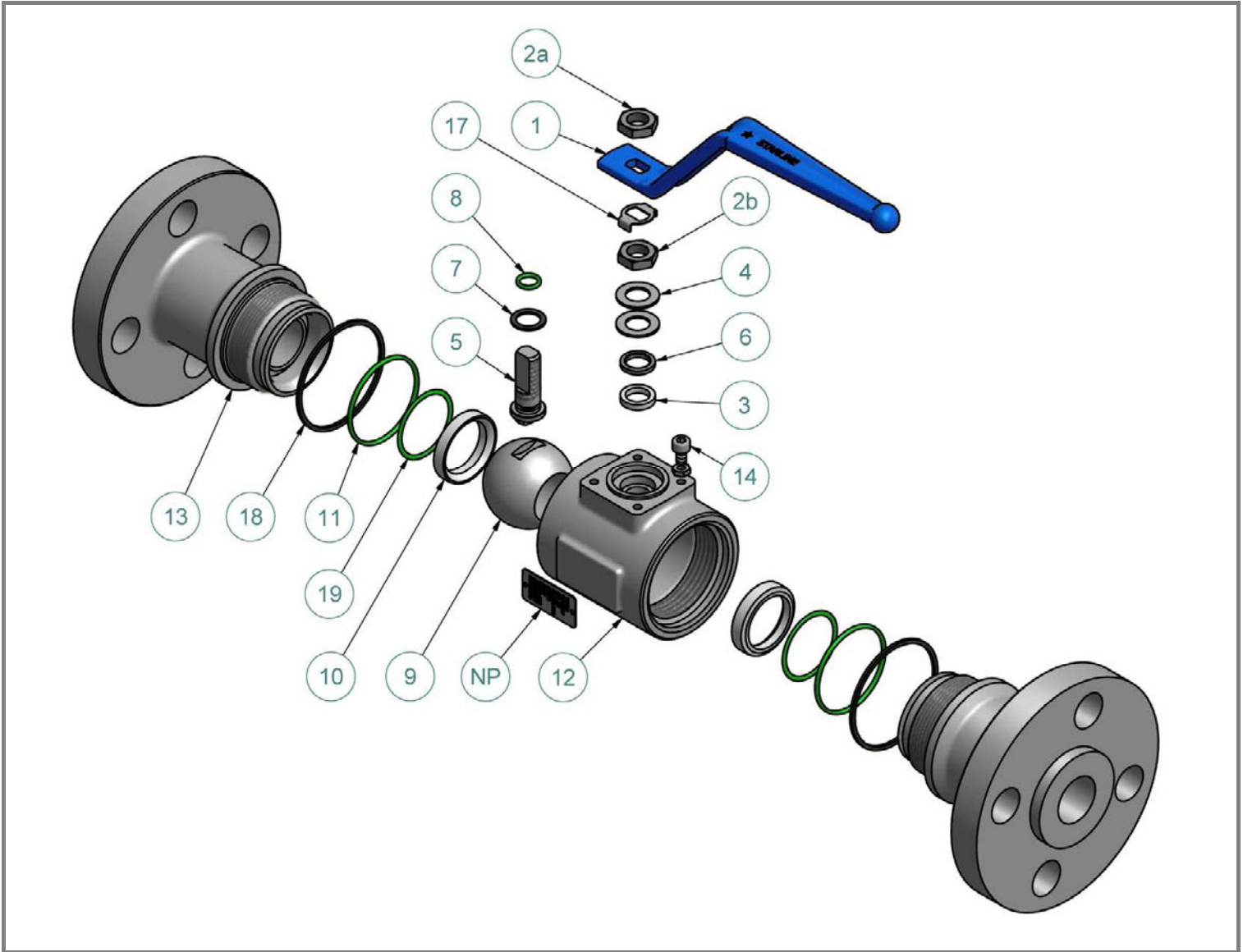
TOP VIEW

REDUCED BORE

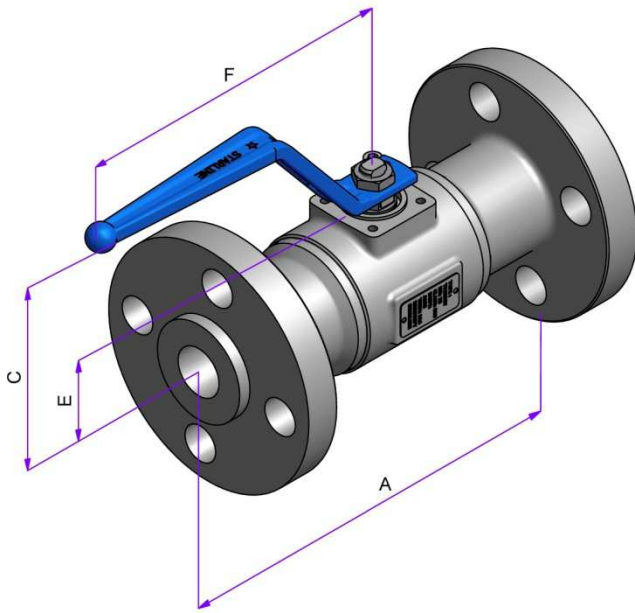
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
3''x 2.1/2''	80 x 65	355.6	358.6	63.5	140	70	420	41	41
4''x 3''	100 x 80	432	435	76	162	88	420	60	60

TOP MOUNTING

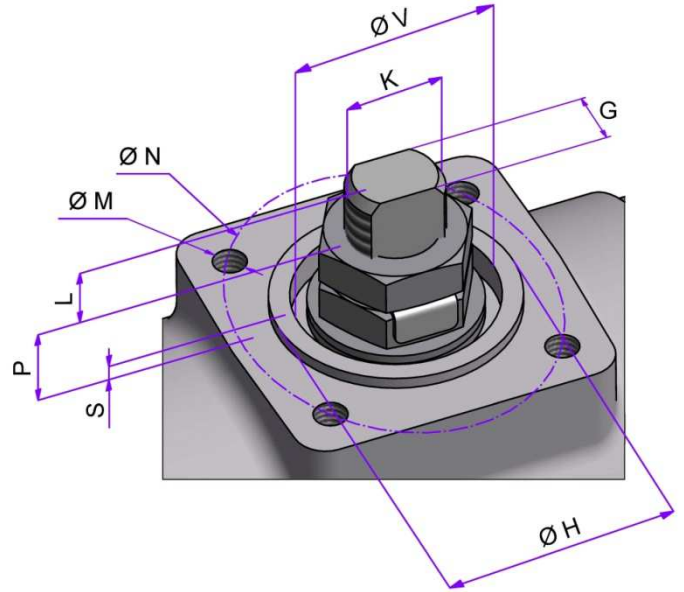
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
3''x 2.1/2''	80 x 65	16.5	15	1.5	48	M22x1.5	16	55	70	M8x12	F07
4''x 3''	100 x 80	14.5	22.7	1.5	48	M24x2	18	55	70	M8x12	F07



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



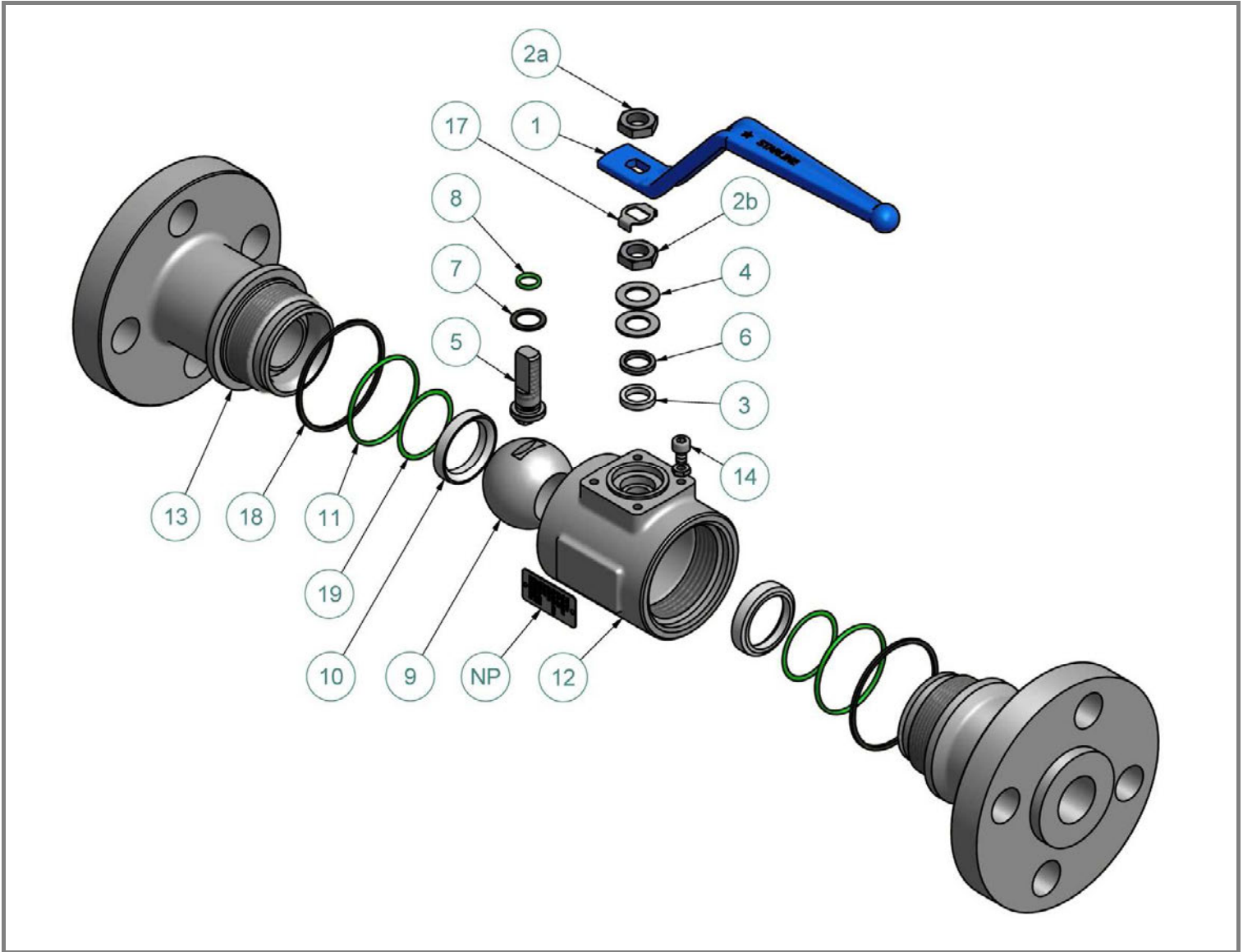
RF-RTJ



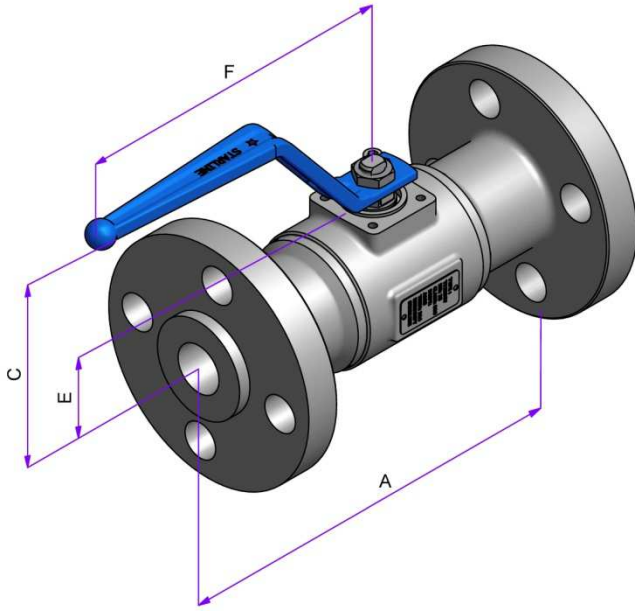
TOP VIEW

FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 1/2"	15 x 15	216	216	14.2	81	28.5	144	5.6	5.6
3/4" x 3/4"	20 x 20	229	229	21	96	33.5	172.5	8.4	8.4
1" x 1"	25 x 25	254	254	25.4	101	38	172.5	10.9	10.9
1.1/4" x 1.1/4"	32 x 32	279.5	279.5	31.7	110	43.5	218	13	13
1.1/2" x 1.1/2"	40 x 40	305	305	38	114	47.5	218	19	19
2" x 2"	50 x 50	368.5	371.5	49	122	58.5	218	31	31

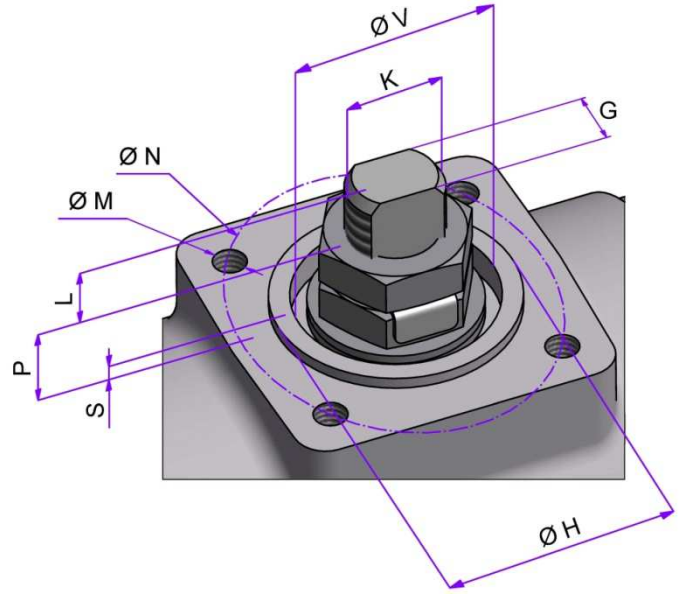
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.2	1037	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF-RTJ



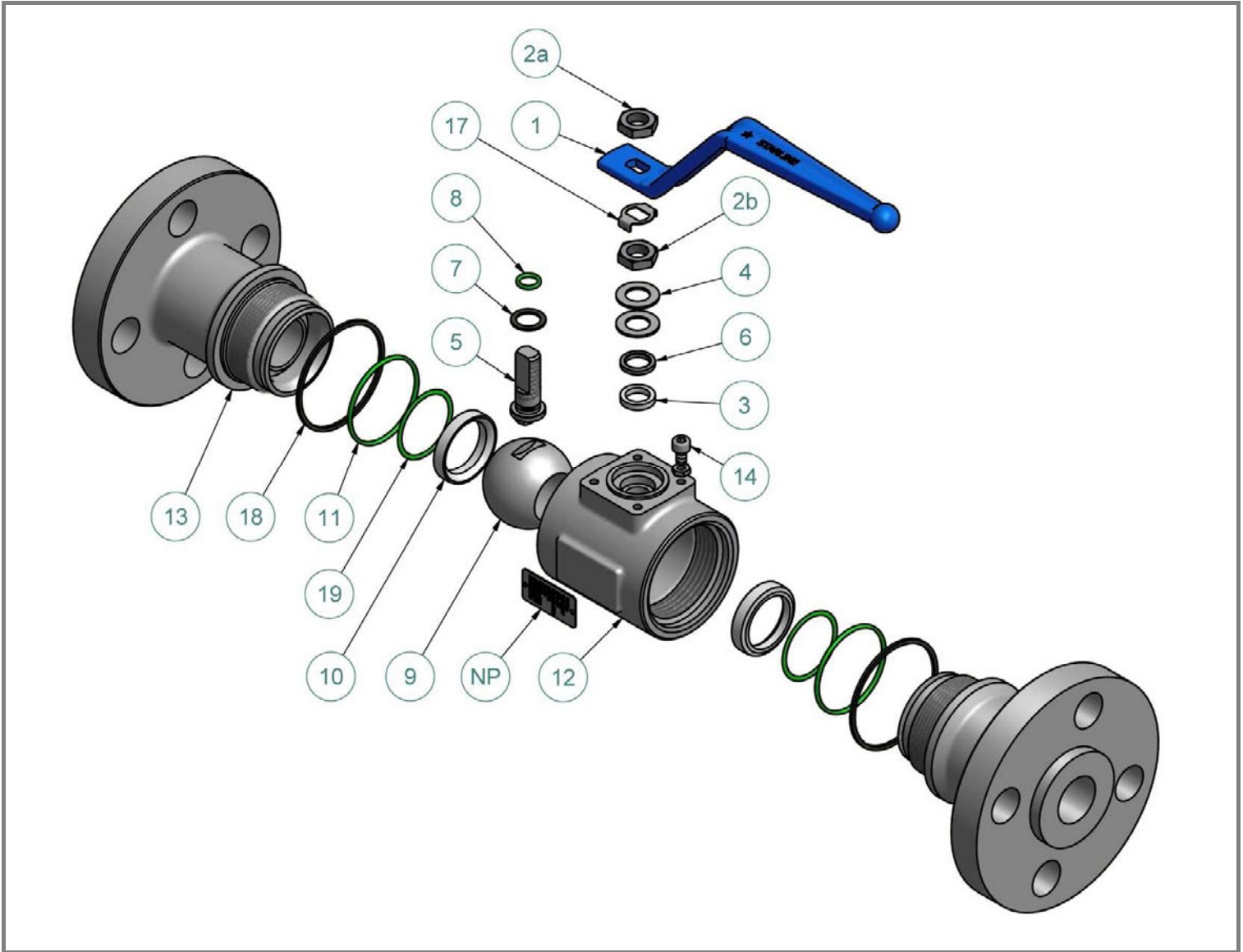
TOP VIEW

REDUCED BORE

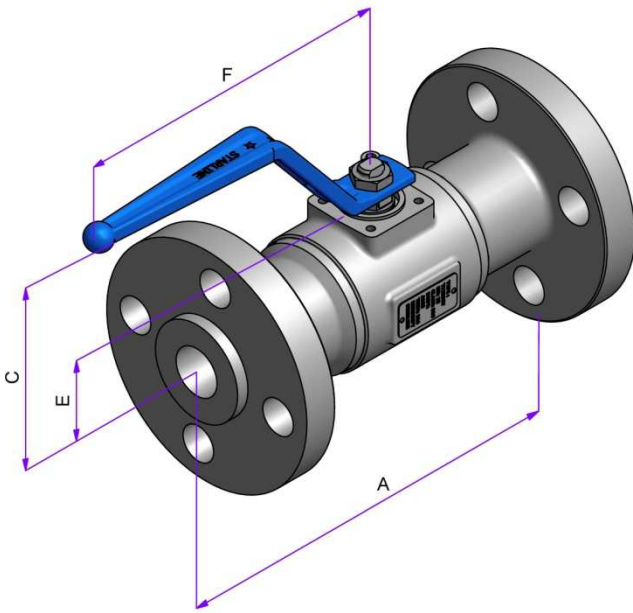
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2"x 3/8"	15 x 10	216	216	11.1	79	26	144	5.4	5.4
3/4"x 1/2"	20 x 15	229	229	14.2	81	28.5	144	7.6	7.6
1"x 3/4"	25 x 20	254	254	21	96	33.5	172.5	10.2	10.2
1.1/4"x 1"	32 x 25	279.5	279.5	25.4	101	38	172.5	11	11
1.1/2"x 1.1/4"	40 x 32	305	305	31.7	110	43.5	218	17.5	17.5
2"x 1.1/2"	50 x 40	368.5	371.5	38	114	47.5	218	27.8	27.8
2.1/2"x 2"	65 x 50	419	422	49	122	58.5	218	40	40

TOP MOUNTING

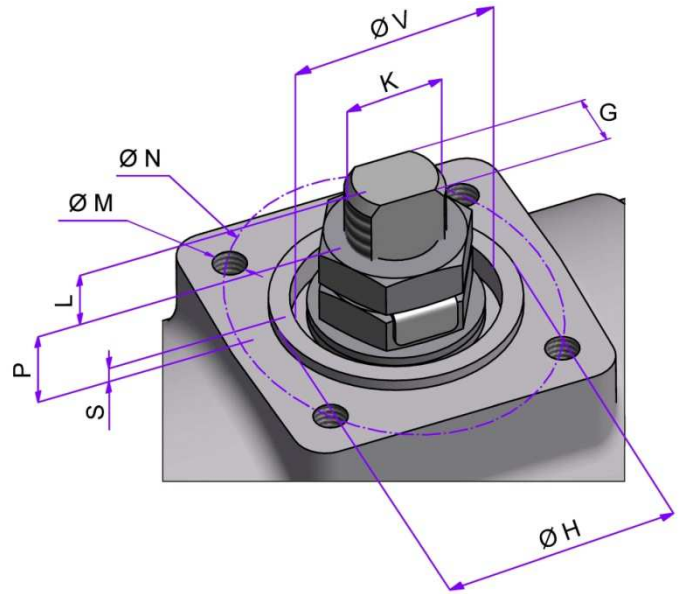
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2"x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 3/4"	25 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/4"	40 x 32	12	14.6	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2"x 1.1/2"	50 x 40	12	15.3	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2"x 2"	65 x 50	11	12.9	1.5	30	M15x1.5	8.9	35	50	M6x10	F05



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



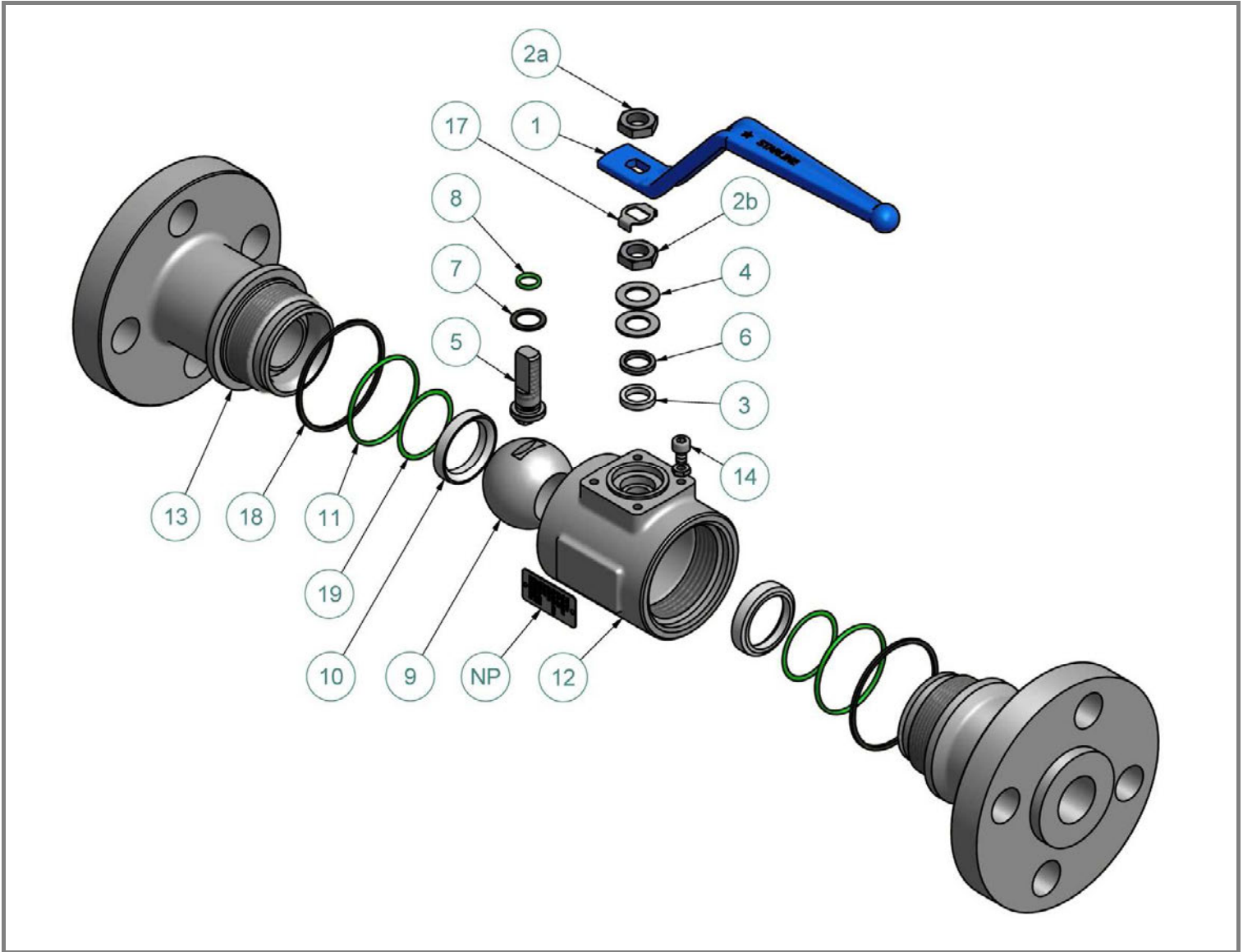
RF-RTJ



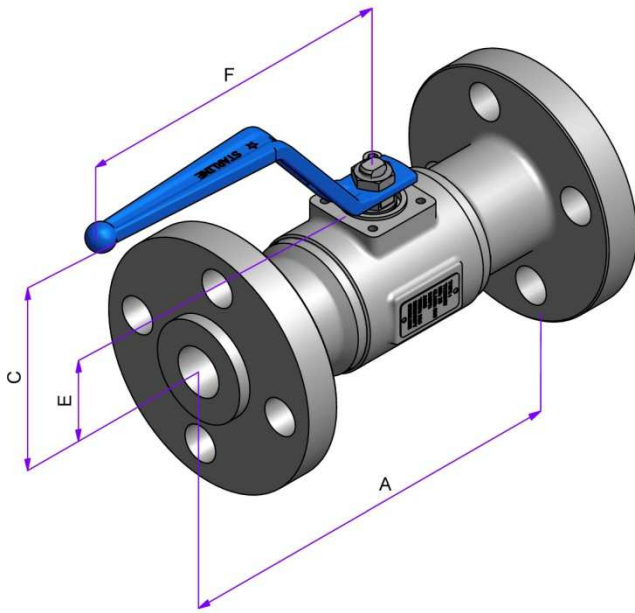
TOP VIEW

FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 1/2"	15 x 15	216	216	14.2	81	28.5	144	5.6	5.6
3/4" x 3/4"	20 x 20	229	229	21	96	33.5	172.5	8.4	8.4
1" x 1"	25 x 25	254	254	25.4	101	38	172.5	10.9	10.9

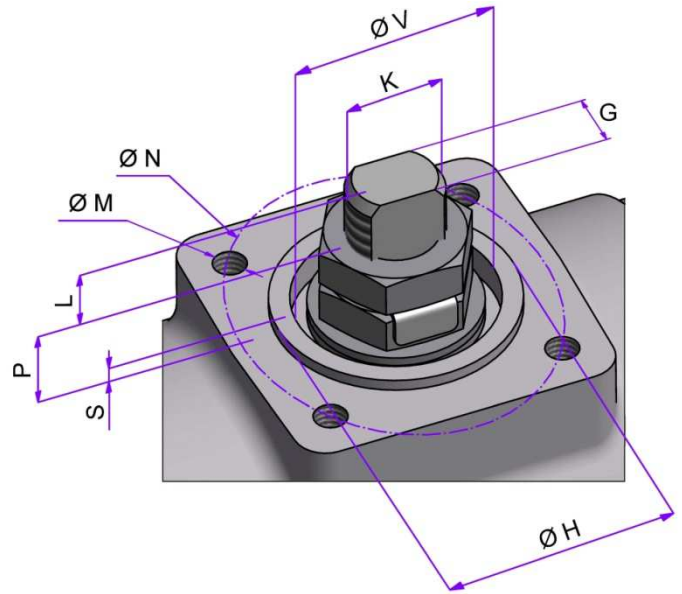
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 1/2"	15 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seats and seals material table
9	1	Ball	316/316L Dual Certified	316/316L Dual Certified	Special materials
10	2	Seats	Nylon Devlon V	Nylon Devlon V	See seats and seals material table
11	2	I° Body seals	Viton	Viton	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	2	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE
19	2	Seat seals	Viton	Viton	See seats and seals material table



RF-RTJ



TOP VIEW

REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 3/8"	15 x 10	216	216	11.1	79	26	144	5.4	5.4
3/4" x 1/2"	20 x 15	229	229	14.2	81	28.5	144	7.6	7.6
1" x 3/4"	25 x 20	254	254	21	96	33.5	172.5	10.2	10.2
1.1/4" x 1"	32 x 25	279.5	279.5	25.4	101	38	172.5	11	11

TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
1/2" x 3/8"	15 x 10	3.4	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.5	10	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9.2	10.3	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	8.1	11.2	1.5	25	M12x1.25	7.5	30	42	M5x8	F04