

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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	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 <sup>Note4</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	4 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 150 - 6"

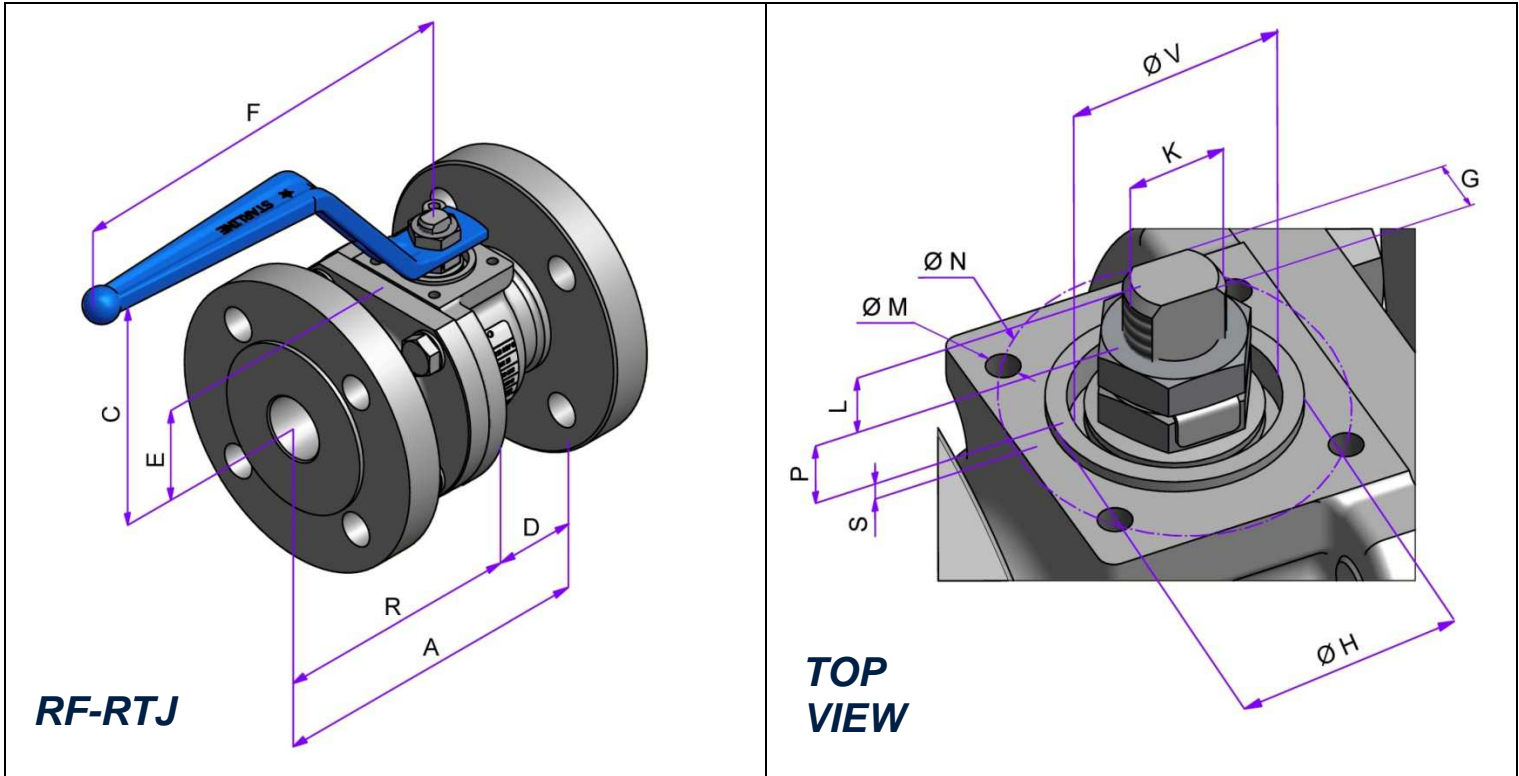
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3" and over

Note 4: Qty 2 for DN 80 - 3" and DN 150 - 6"

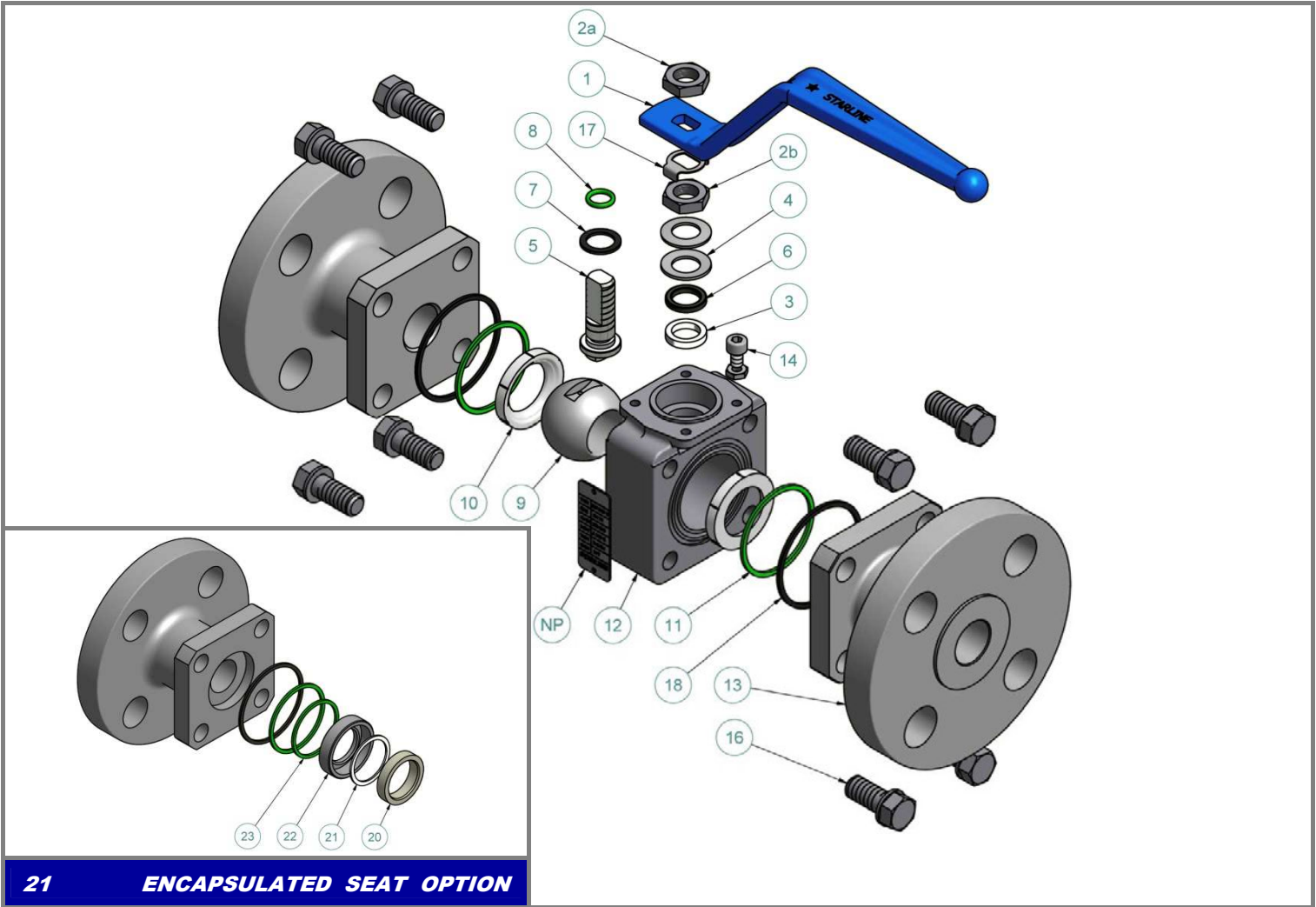
Note 5: Qty 6 from DN 50 - 2" to DN 65 - 2.1/2", Qty 8 for DN 80 - 3",  
Qty 8 for DN 100 - 4", Qty 12 for DN 150 - 6"

Note 6: Qty 0 for DN 65 - 2.1/2" and over



FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	108	62.5	45.5	15	79	27	144	2.5
3/4" x 3/4"	20 x 20	117.5	67.5	50	20	101	33.5	172.5	3.6
1" x 1"	25 x 25	127	74	53	25	105	38	172.5	4.2
1.1/4" x 1.1/4"	32 x 32	140	83.5	56.5	32	112	43.5	218	6.5
1.1/2" x 1.1/2"	40 x 40	165	107	58	40	116	47.5	218	8.8
2" x 2"	50 x 50	178	115	63	50	124	58.5	218	10.4
2.1/2" x 2.1/2"	65 x 65	190.5	118	72.5	65	140	70	420	17.5
3" x 3"	80 x 80	203	126	77	80	150	87.5	420	22.4
4" x 4"	100 x 100	228.5	114.5	114	100	190	112	420	45
6" x 6"	150 x 150	394	224	170	150	263	151	700	105

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	5.5	4.5	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	9.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	12	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14	21.5	1.5	48	M24x2	18	55	70	M8x12	F07
4" x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
6" x 6"	150 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10

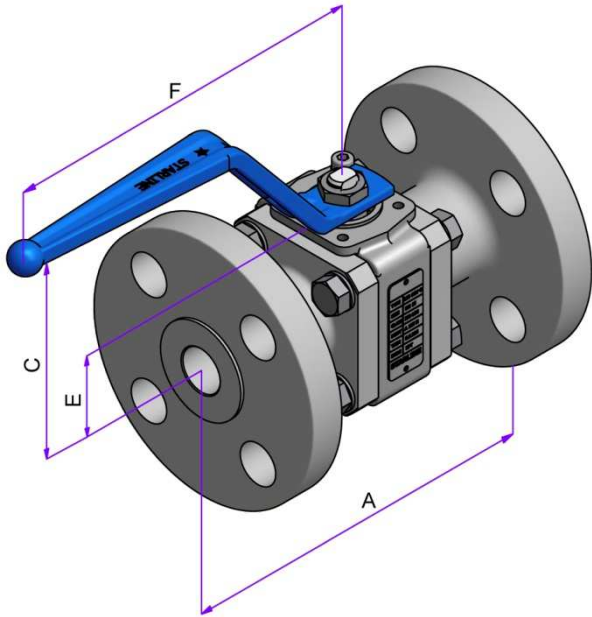


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note1</sup>	Gland packing	AISI 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	RPTFE	RPTFE	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

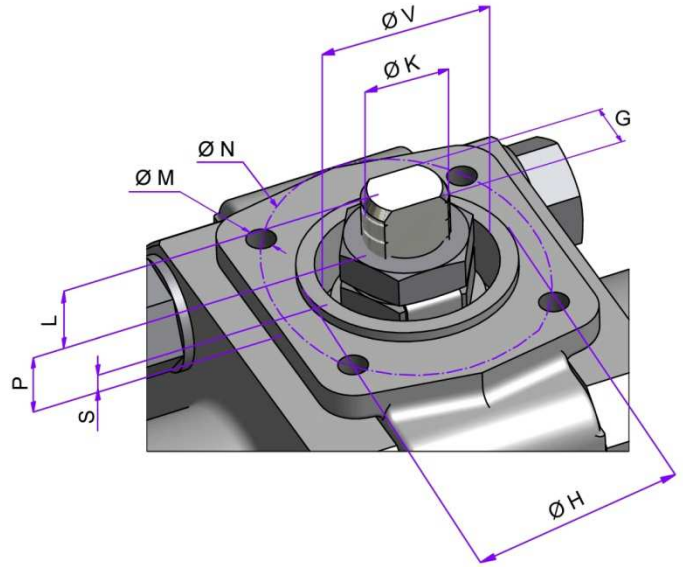
Note 1: Qty 2 for DN 25 - 1”

ENCAPSULATED SEAT OPTION					
20	2	Seats	RPTFE	RPTFE	See seats and seals material table
21	2	Seat Seals	Viton	Viton	See seats and seals material table
22	2	Seats Ring	LF2	316/316L Dual Certified	Special materials
23	2	Ring Seals	Viton	Viton	See seats and seals material table

☐ RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



**RF-RTJ**

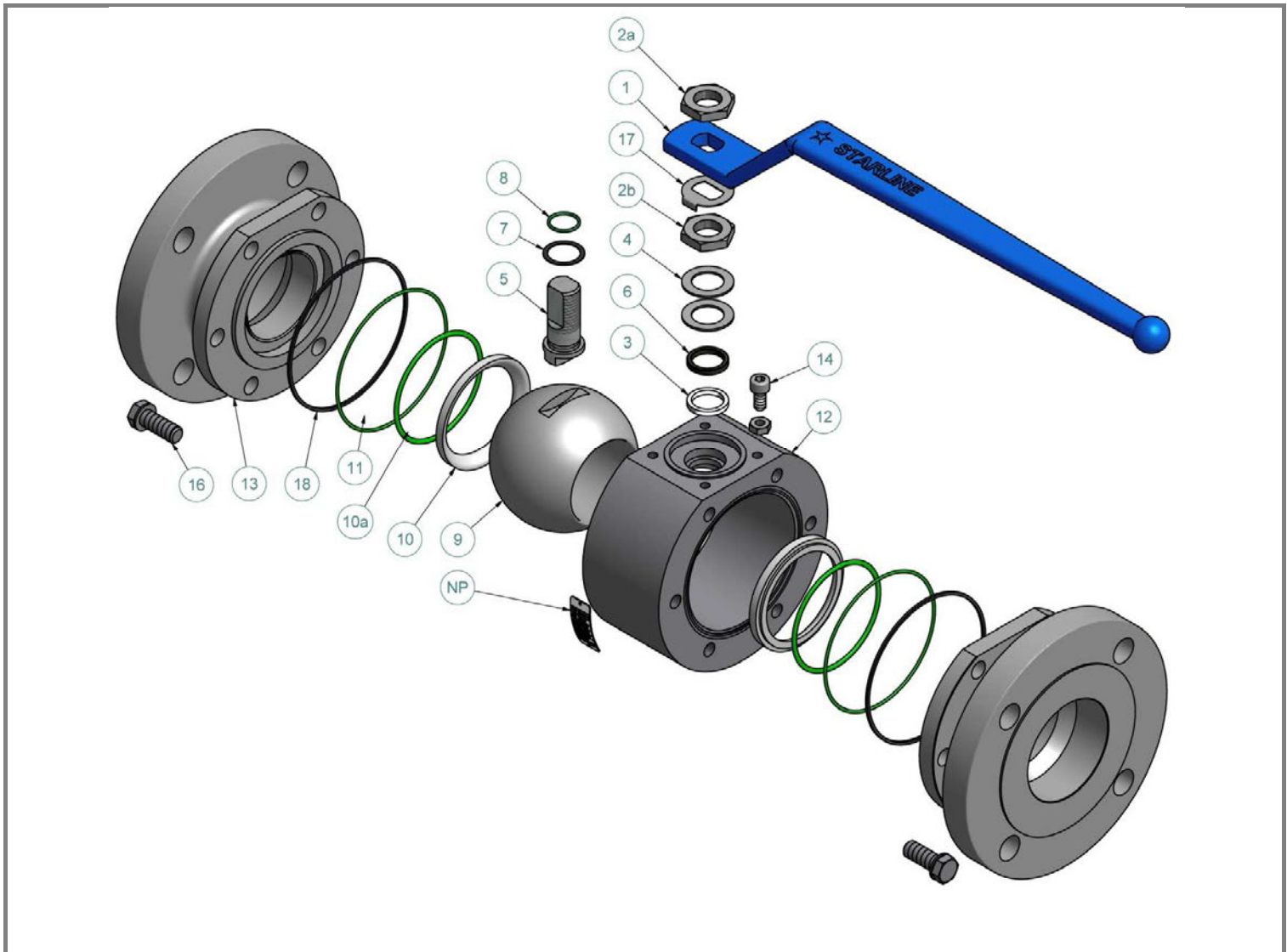


**TOP VIEW**

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	108	/	11.1	79	30.5	144	2	/
3/4"x 1/2"	20 x 15	117.5	/	14.2	81	32.5	144	2.7	/
1"x 3/4"	25 x 20	127	140	20.5	98	39	172.5	3.8	4
1.1/4"x 1"	32 x 25	140	152.5	25.4	100	38	172.5	6.5	7
1.1/2"x 1.1/4"	40 x 32	165	178	31.7	110	43.5	218	7.8	8
2"x 1.1/2"	50 x 40	178	191	38	112	47.5	218	10	10.5

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	3.6	5.4	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 1/2"	20 x 15	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 3/4"	25 x 20	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1"	32 x 25	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/4"	40 x 32	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2"x 1.1/2"	50 x 40	14	14	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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	1 <sup>Note3</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note4</sup>	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note2</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	12 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 80 - 3" to DN 100 - 4"

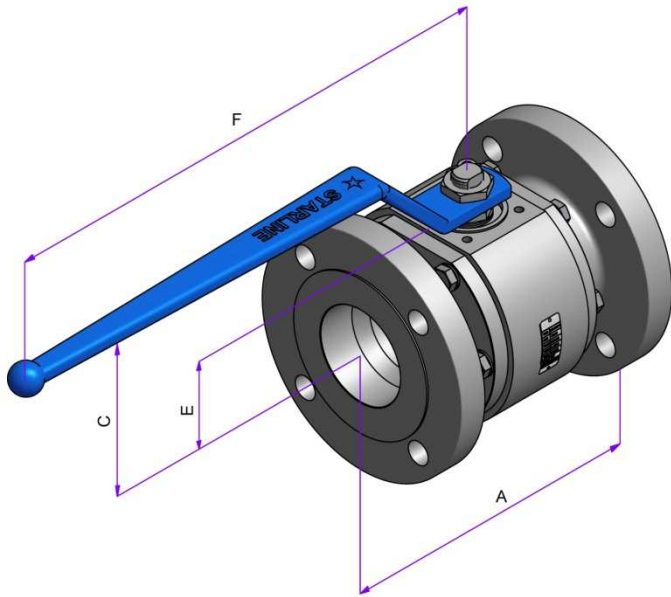
Note 2: Qty 2 for DN 100 - 4"

Note 3: Qty 0 for DN 100 - 4"

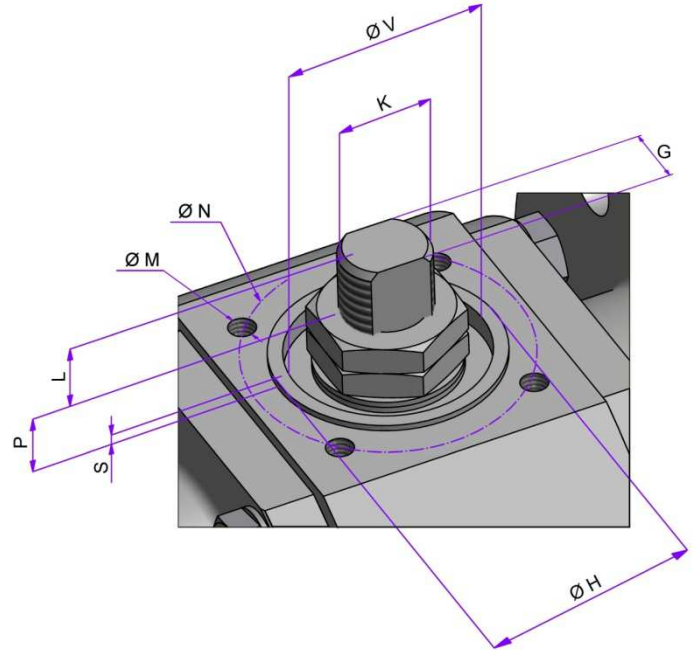
Note 4: Qty 2 for DN 25 - 1"

Note 5: Qty 16 for DN 100 - 4"

Note 6: Qty 0 for DN 80 - 3" and Over



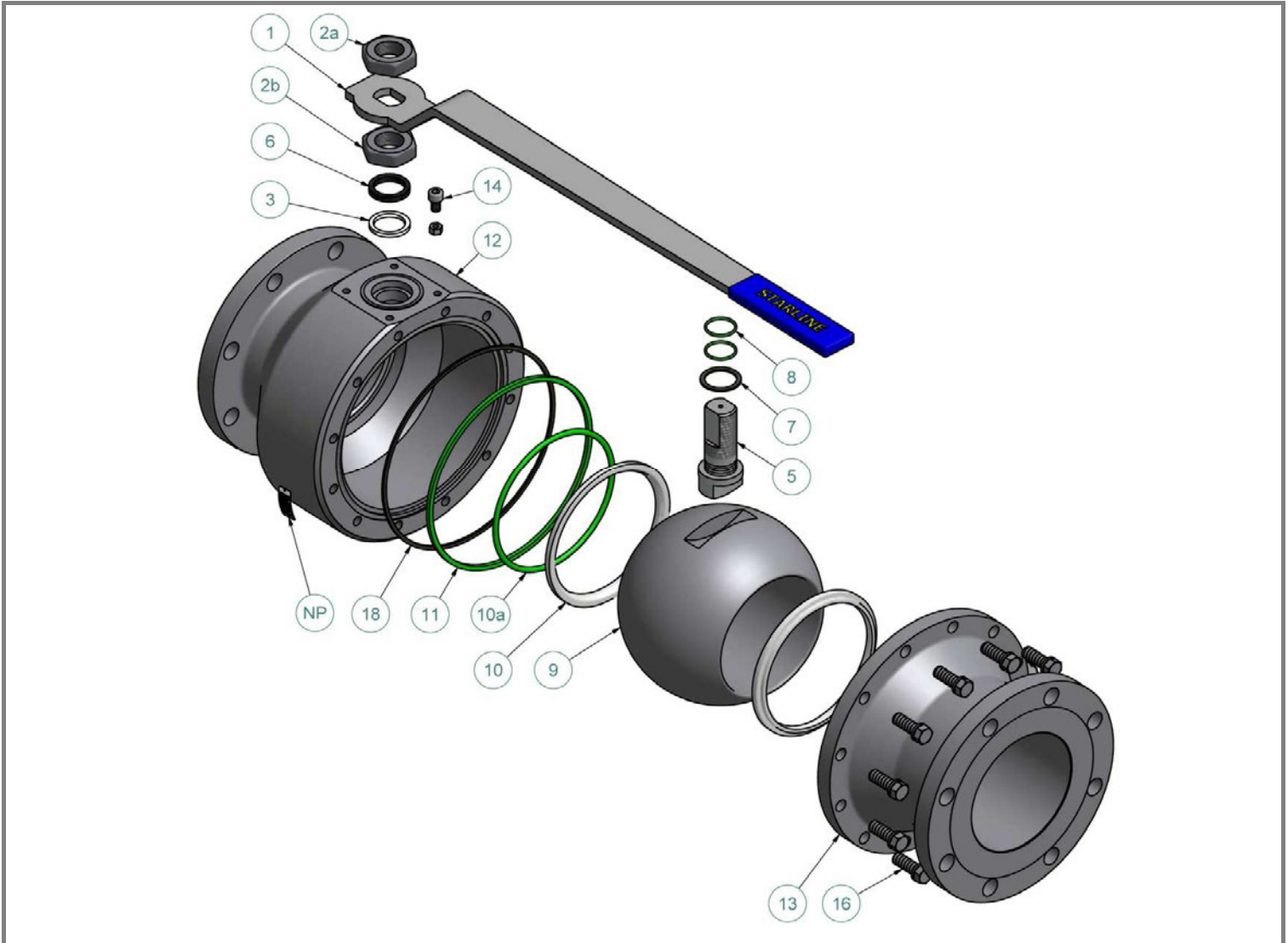
**RF-RTJ**



**TOP VIEW**

REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
2.1/2" x 2"	65 x 50	191	203	49	122	58.7	218	14.5	15
3" x 2.1/2"	80 x 65	203	216	62	136	70	420	20	21
4" x 3"	100 x 80	229	241	76	150	87	420	34	34.5

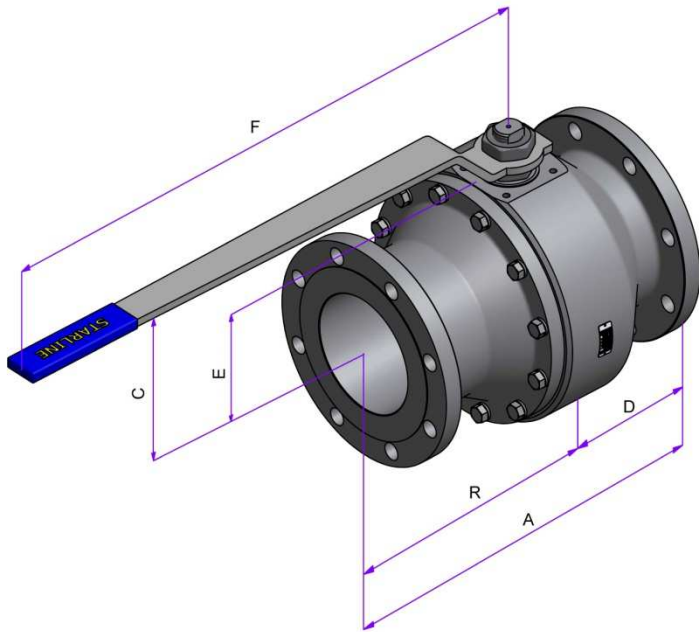
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2"	65 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
3" x 2.1/2"	80 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07
4" x 3"	100 x 80	15	22.5	1.5	48	M24x1.5	18	55	70	M8x12	F07



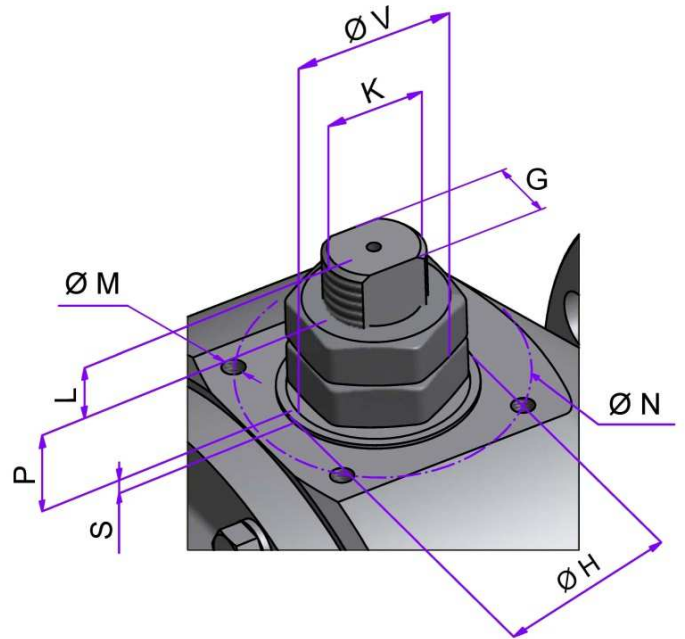
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note1</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	8 <sup>Note2</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note1: Qty 2 for DN 200 - 8”

Note2: Qty 12 for DN 200 - 8”



**RF**



**TOP  
VIEW**

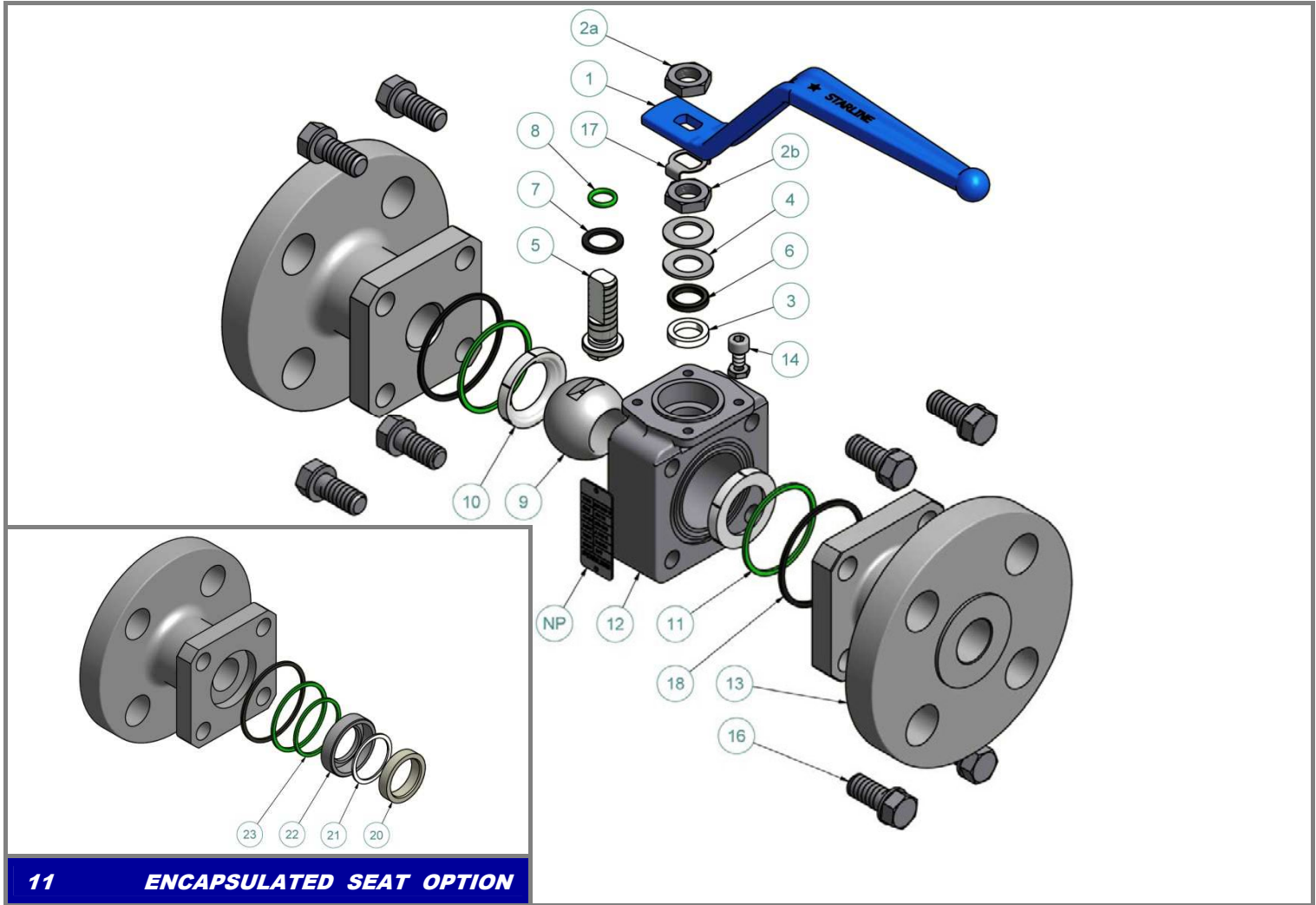
**REDUCED BORE**

VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	RF
6''x 4''	150 x 100	394	197	197	100	190	112.5	420	65
8''x 6''	200 x 150	457	228.5	228.5	150	263	151	700	150

**TOP MOUNTING**

VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6''x 4''	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
8''x 6''	200 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10



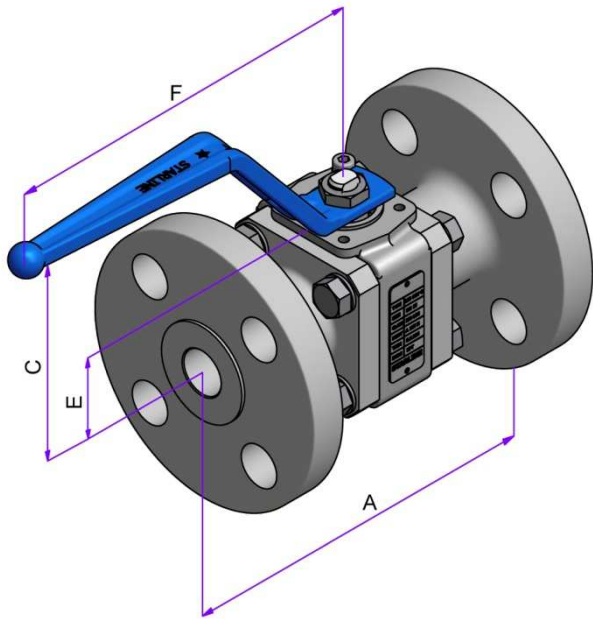


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note 1</sup>	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	RPTFE	RPTFE	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

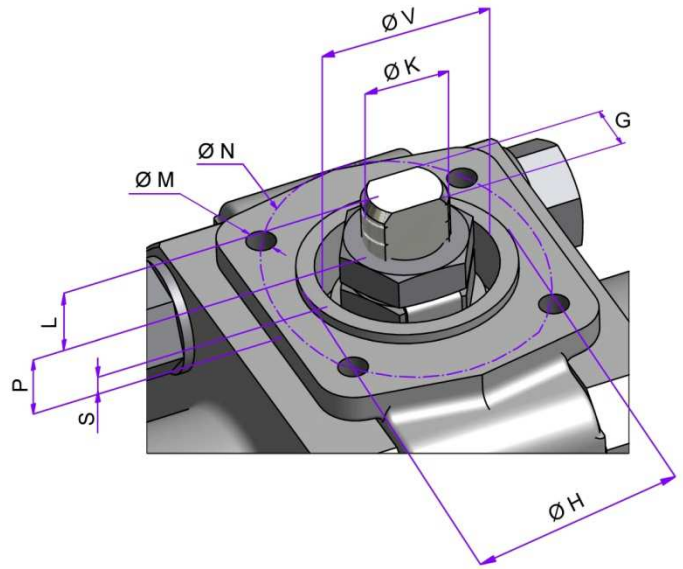
Note 1: Qty 2 for DN 20 - 3/4"

ENCAPSULATED SEAT OPTION					
20	2	Seats	RPTFE	RPTFE	See seats and seals material table
21	2	Seat Seals	Viton	Viton	See seats and seals material table
22	2	Seats Ring	LF2	316/316L Dual Certified	Special materials
23	2	Ring Seals	Viton	Viton	See seats and seals material table

RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



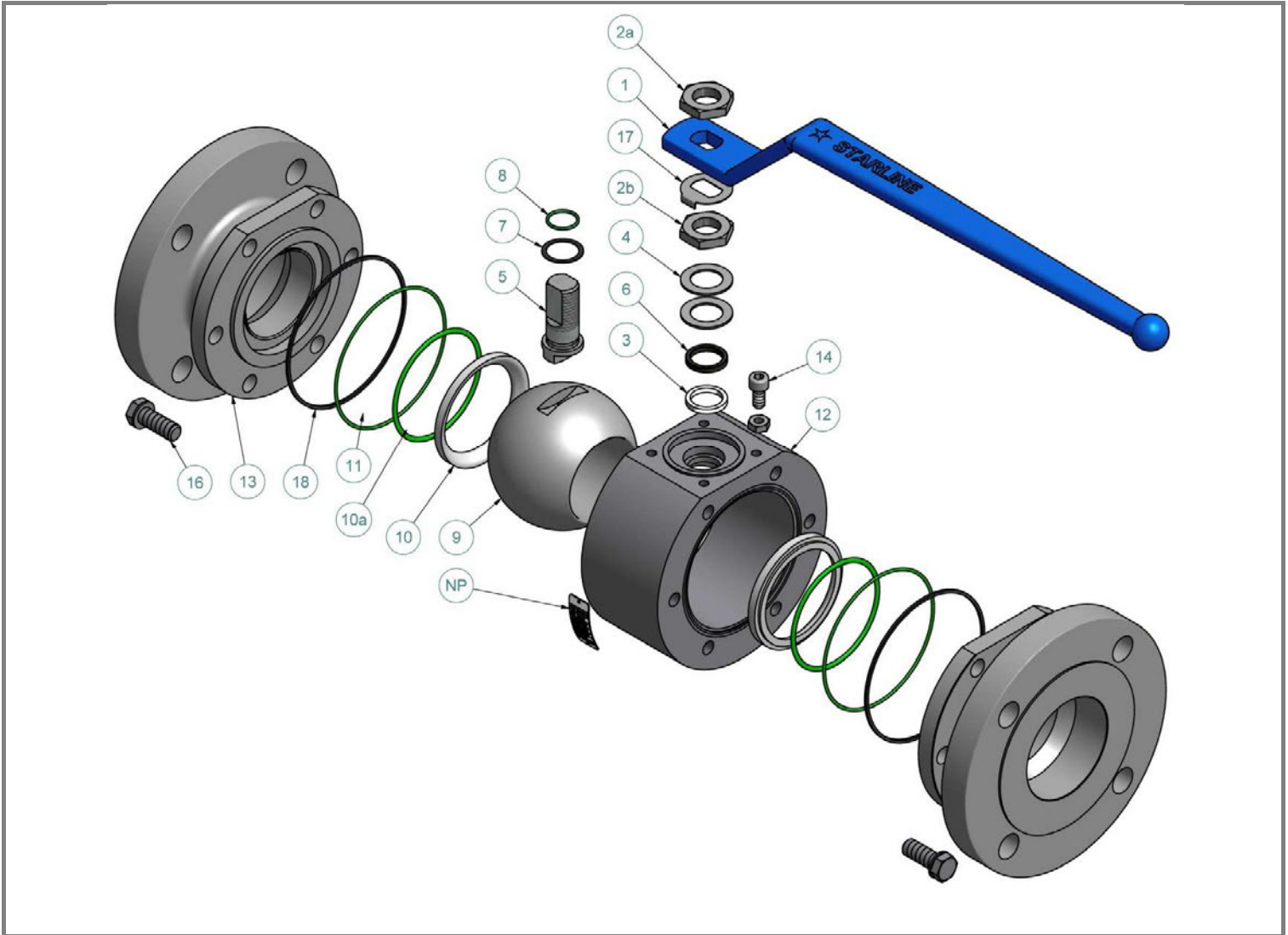
**RF-RTJ**



**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	151.5	14.2	81	32.5	144	2.6	2.6
3/4"x 3/4"	20 x 20	152	165	20.5	98	39	172.5	5	5
1"x 1"	25 x 25	165	178	25.4	100	38	172.5	6.5	6.6
1.1/4"x 1.1/4"	32 x 32	178	191	31.7	110	43.5	218	8.8	9
1.1/2"x 1.1/2"	40 x 40	191	203	38	112	47.5	218	11.8	11.9

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 10	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 3/4"	20 x 15	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1"x 1"	25 x 20	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1.1/4"	32 x 25	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2"x 1.1/2"	40 x 32	14	14	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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note4</sup>	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note2</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	12 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 80 - 3"

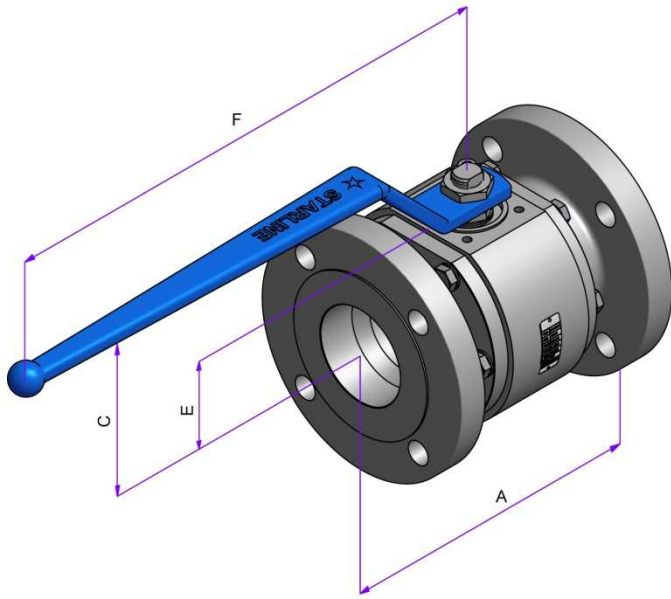
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3"

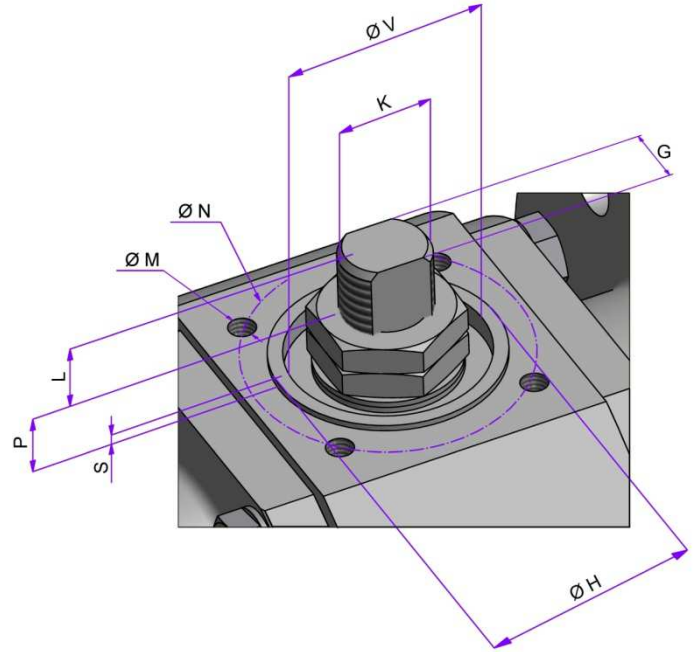
Note 4: Qty 2 for DN 20 - 3/4"

Note 5: Qty 16 for DN 80 - 3"

Note 6: Qty 0 for DN 65 - 2.1/2" and Over



**RF-RTJ**

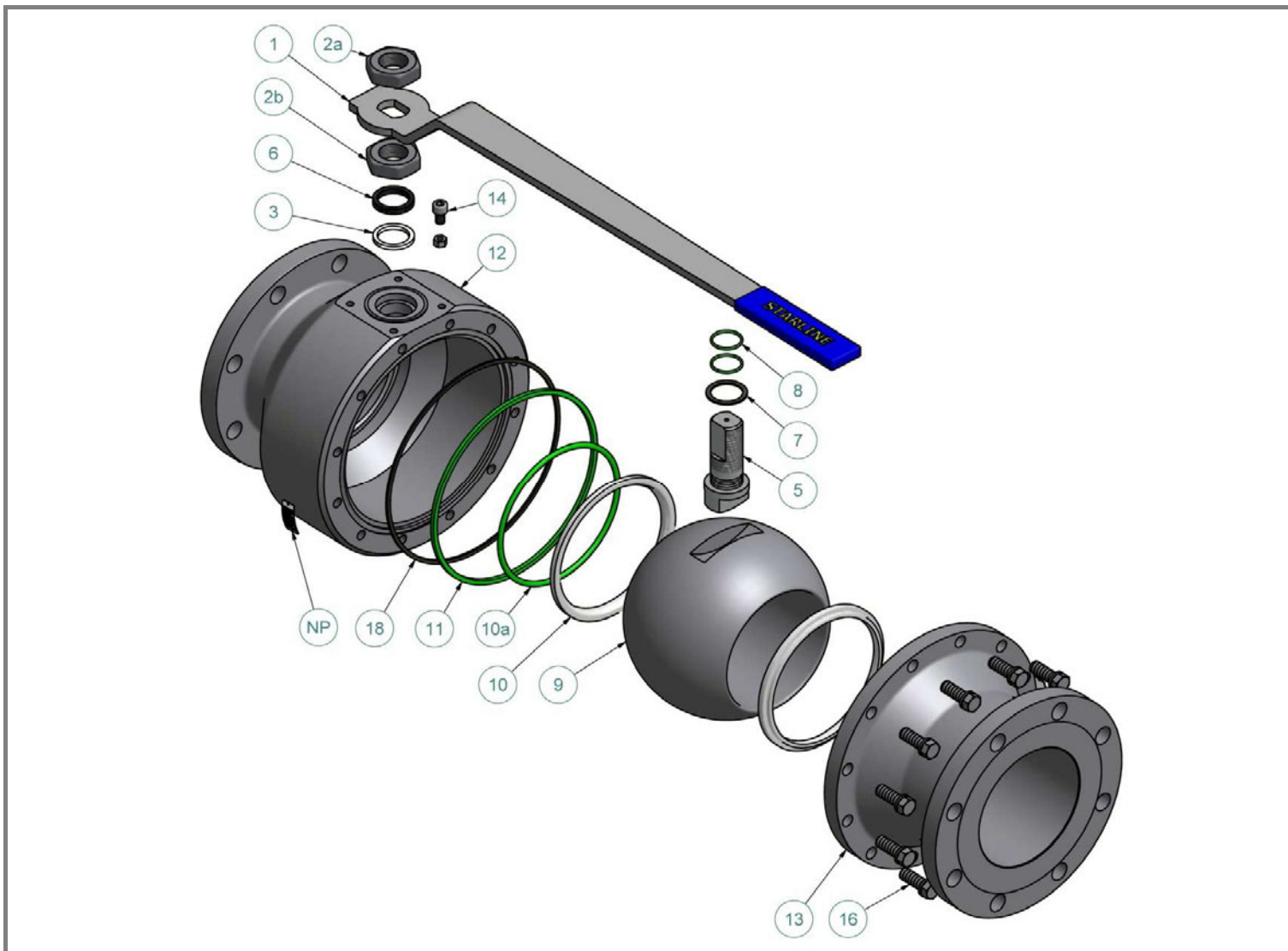


**TOP VIEW**

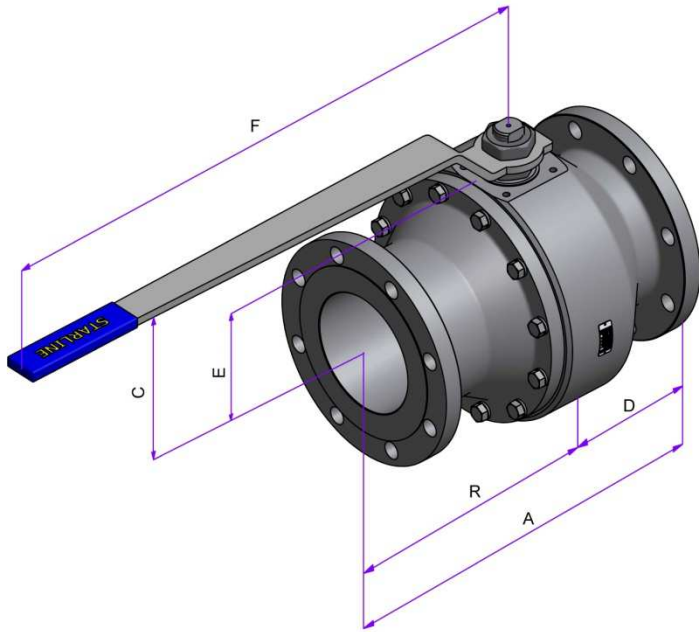
FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
2" x 2"	50 x 50	216	232	49	122	58.7	218	16.4	16.9
2.1/2" x 2.1/2"	65 x 65	241	257	62	136	70	420	28.5	28.8
3" x 3"	80 x 80	283	298	76	150	87	420	37.5	38.1

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2" x 2"	50 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	15	22.5	1.5	48	M24x2	18	55	70	M8x12	F07

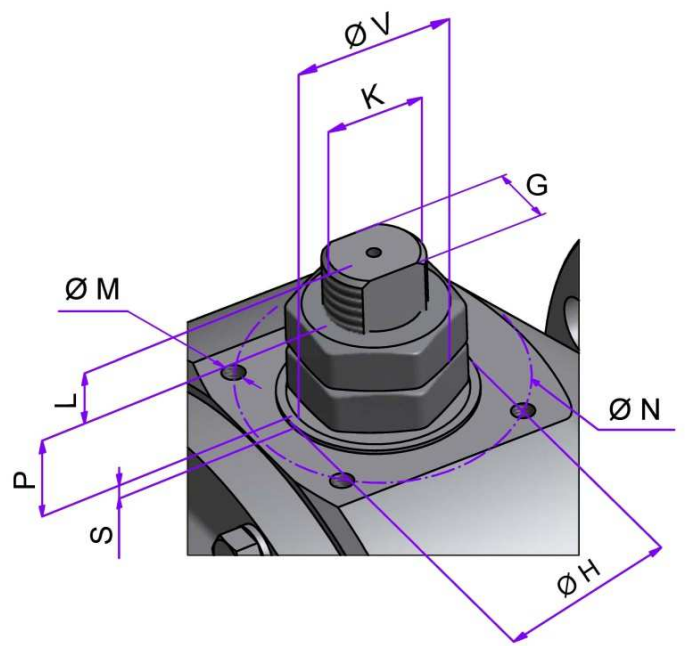




ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
5	1	Antistatic stem	316/316L Dual Certified	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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	10	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE



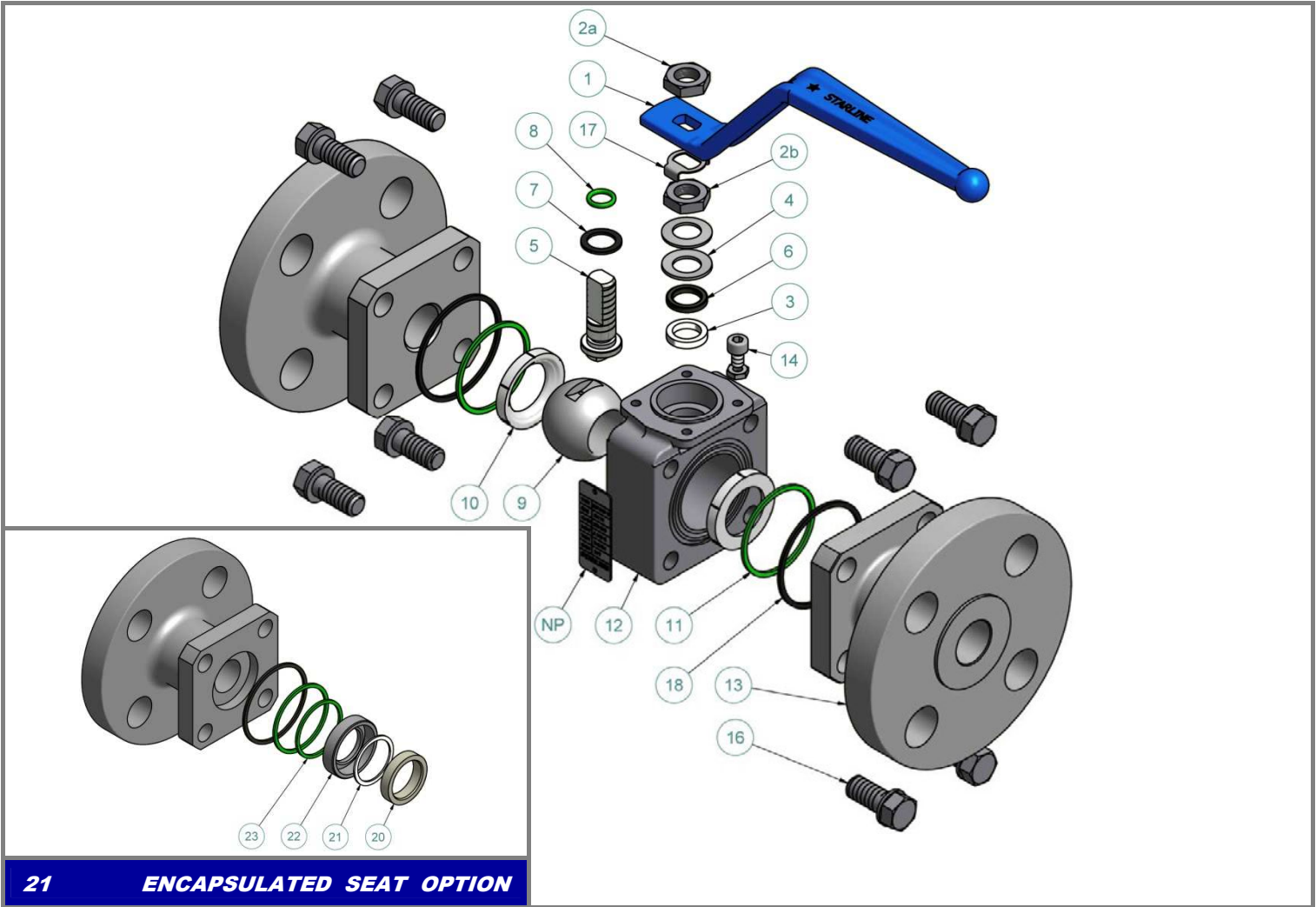
**RF-RTJ**



**TOP VIEW**

FULL BORE													
VALVE SIZE		DIMENSIONS [ mm ]										WEIGHT [Kg]	
NPS	DN	A		R		D		BORE	C	E	F	RF	RTJ
		RF	RTJ	RF	RTJ	RF	RTJ						
4"x 4"	100 x 100	305	321	152.5	160.5	152.5	160.5	100	190	112.5	420	60	62

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
4"x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07

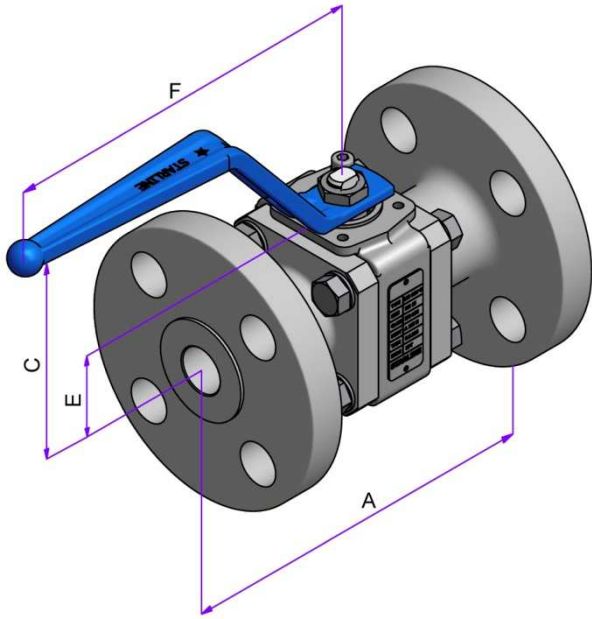


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note 1</sup>	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	RPTFE	RPTFE	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

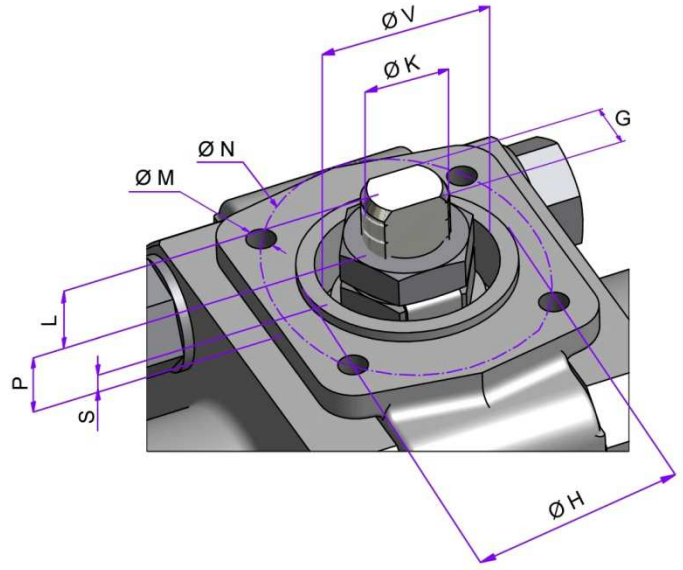
Note 1: Qty 2 for DN 25 - 1”

ENCAPSULATED SEAT OPTION					
20	2	Seats	RPTFE	RPTFE	See seats and seals material table
21	2	Seat Seals	Viton	Viton	See seats and seals material table
22	2	Seats Ring	LF2	316/316L Dual Certified	Special materials
23	2	Ring Seals	Viton	Viton	See seats and seals material table

RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



**RF-RTJ**

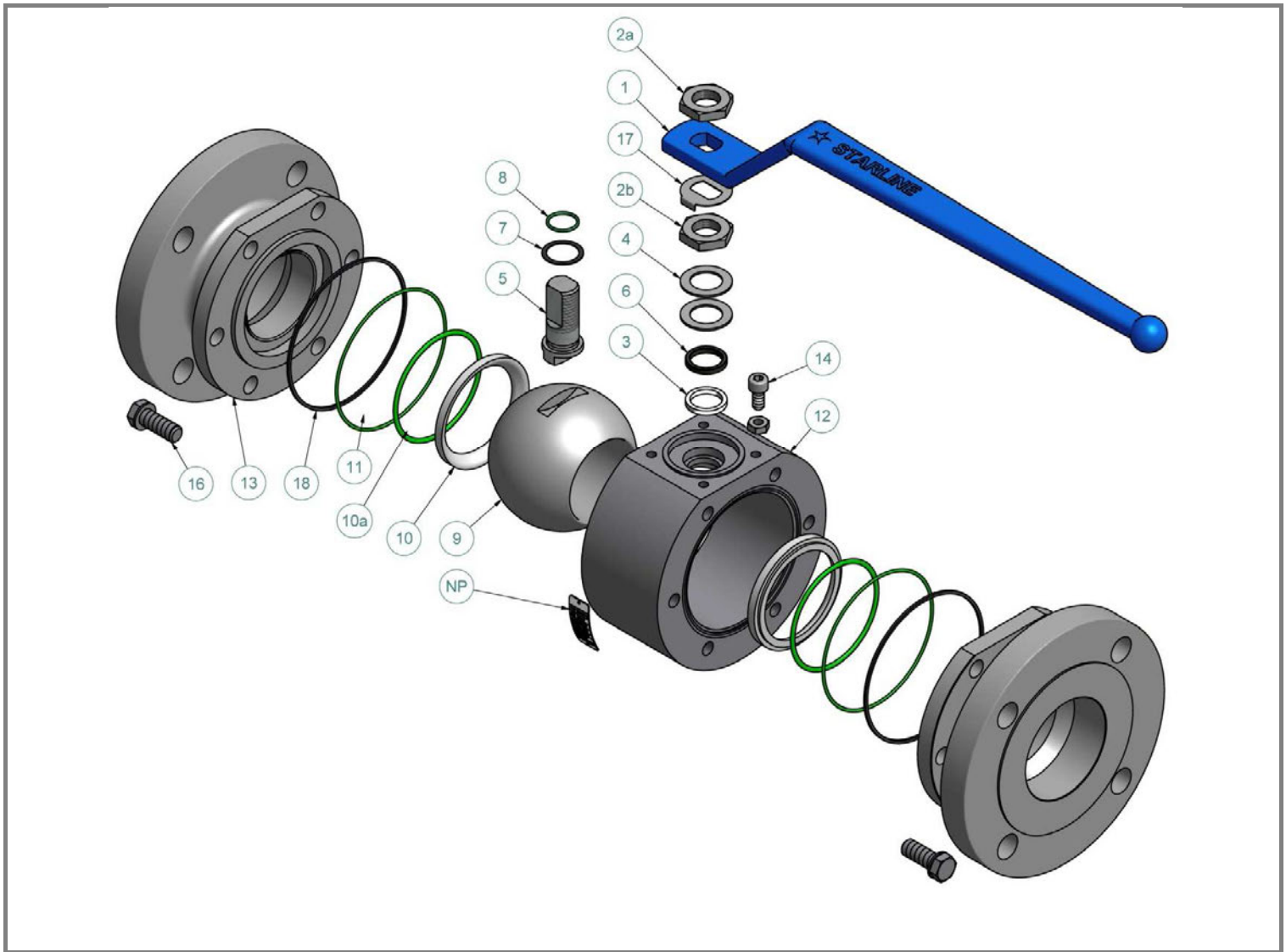


**TOP VIEW**

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	151.5	11.1	79	30.5	144	2	2.1
3/4"x 1/2"	20 x 15	152	165	14.2	81	32.5	144	3.3	3.3
1"x 3/4"	25 x 20	165	178	20.5	98	39	172.5	5.1	5.2
1.1/4"x 1"	32 x 25	178	191	25.4	100	38	172.5	7.0	7.1
1.1/2"x 1.1/4"	40 x 32	191	203	31.7	110	43.5	218	9.3	9.3
2"x 1.1/2"	50 x 40	216	232	38	112	47.5	218	12.3	12.5

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	3.6	5.4	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4"x 1/2"	20 x 15	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
1"x 3/4"	25 x 20	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4"x 1"	32 x 25	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2"x 1.1/4"	40 x 32	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2"x 1.1/2"	50 x 40	14	14	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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note4</sup>	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note2</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	12 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 80 - 3" to DN 100 - 4"

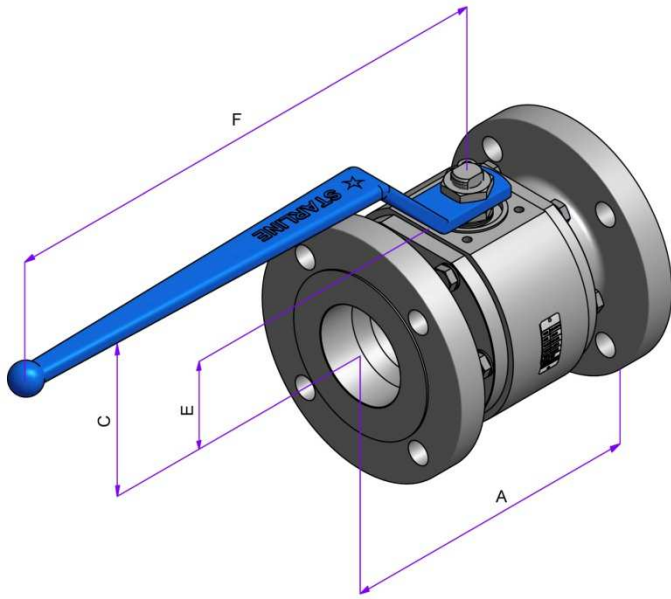
Note 2: Qty 2 for DN 100 - 4"

Note 3: Qty 0 for DN 100 - 4"

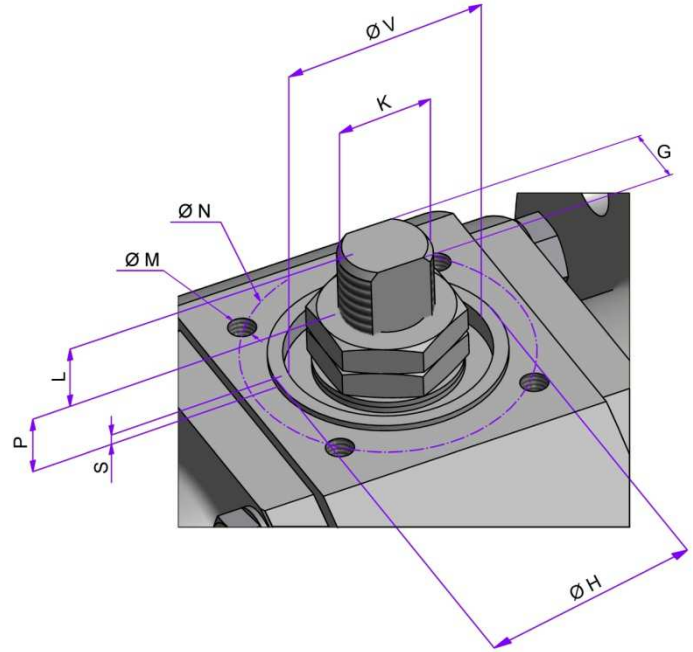
Note 4: Qty 2 for DN 25 - 1"

Note 5: Qty 16 for DN 100 - 4"

Note 6: Qty 0 for DN 80 - 3" and Over



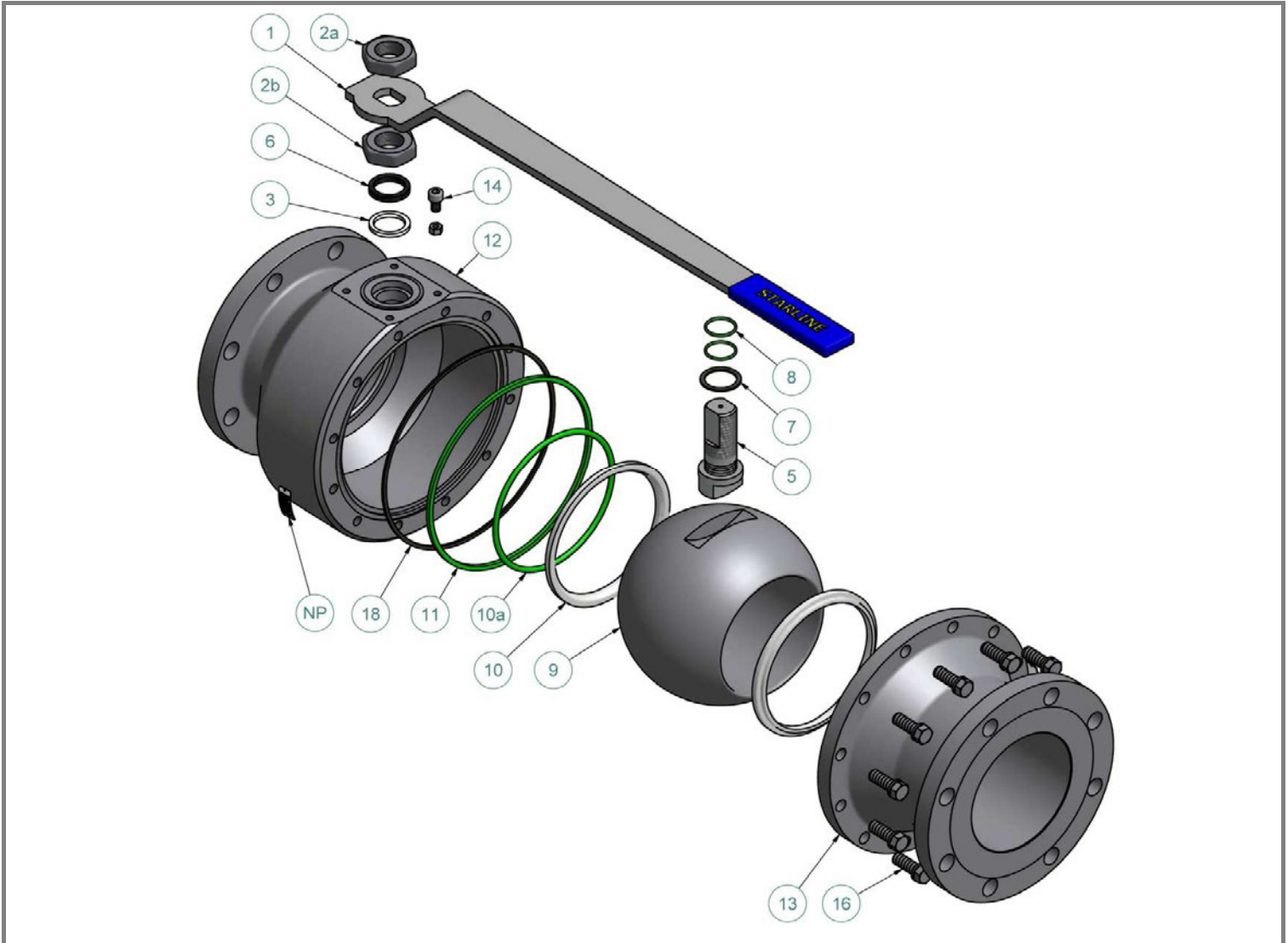
**RF-RTJ**



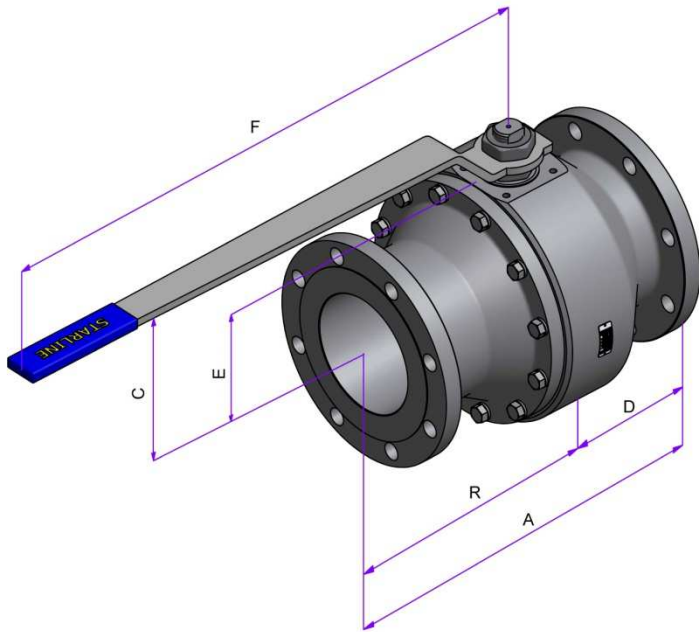
**TOP VIEW**

REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
2.1/2" x 2"	65 x 50	241	257	49	122	58.7	218	19.5	19.8
3" x 2.1/2"	80 x 65	283	298	62	136	70	420	29.5	30.5
4" x 3"	100 x 80	305	321	76	150	87	420	46	47

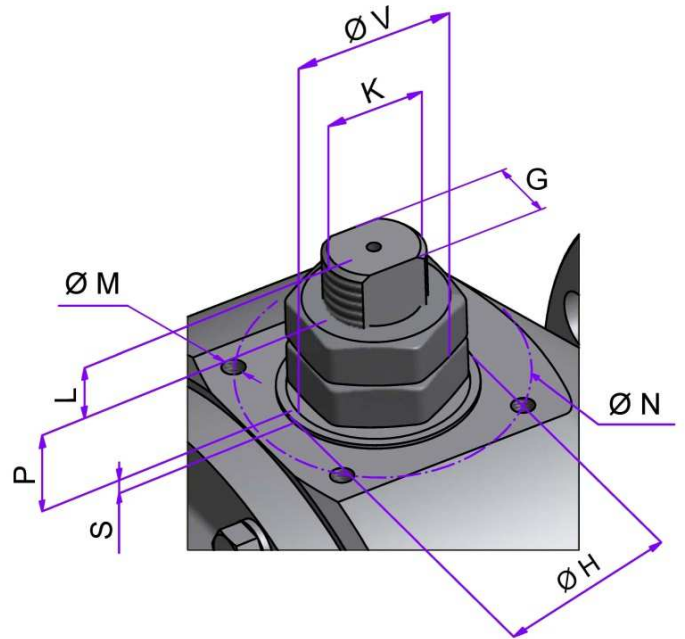
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2"	65 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
3" x 2.1/2"	80 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07
4" x 3"	100 x 80	15	22.5	1.5	48	M24x2	18	55	70	M8x12	F07



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 + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	10	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE



**RF-RTJ**

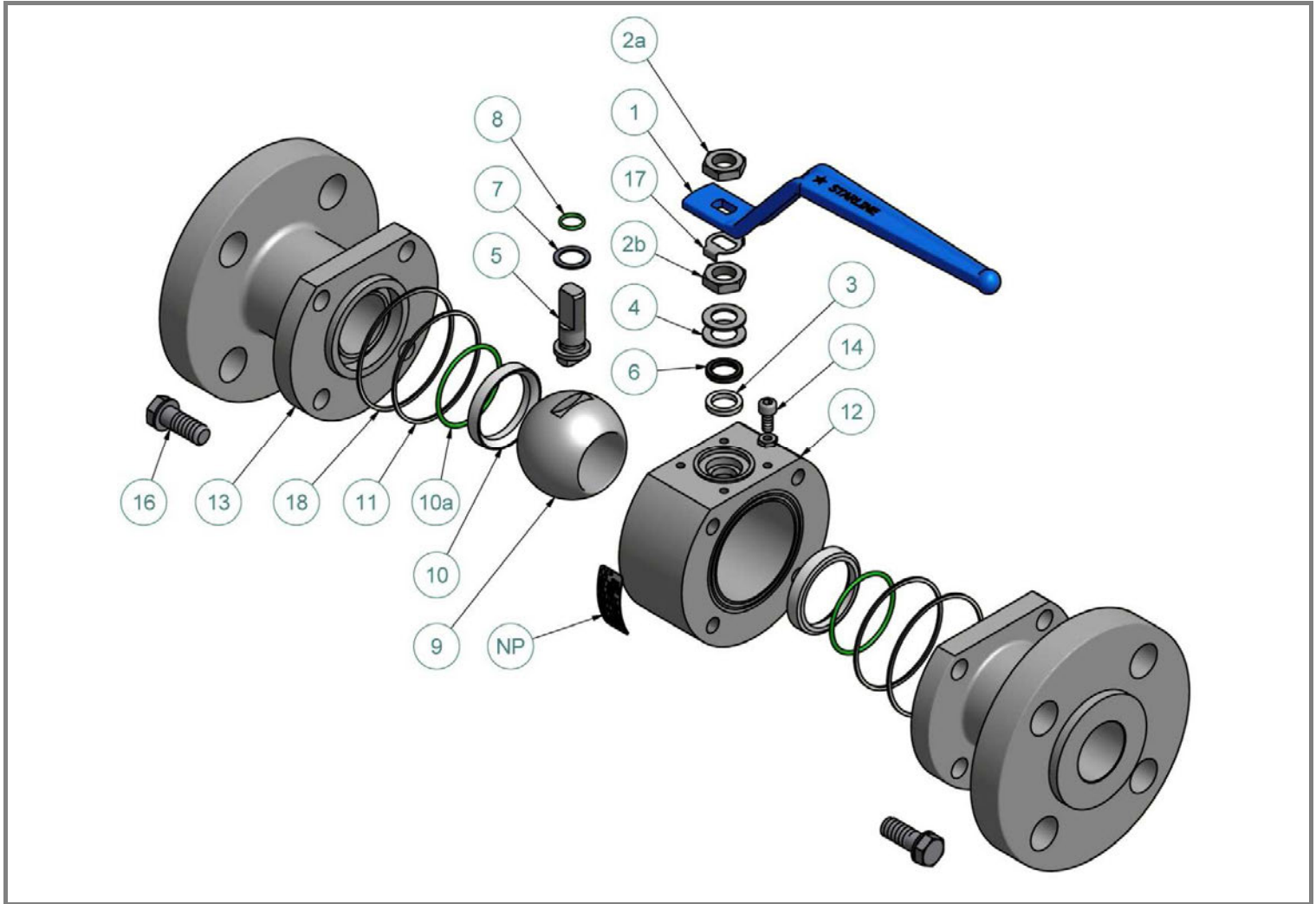


**TOP VIEW**

REDUCED BORE													
VALVE SIZE		DIMENSIONS [ mm ]										WEIGHT [Kg]	
NPS	DN	A		R		D		BORE	C	E	F	RF	RTJ
		RF	RTJ	RF	RTJ	RF	RTJ						
6"x 4"	150 x 100	403	419	201	209	202	210	100	190	112.5	420	83	85

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6"x 4"	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07





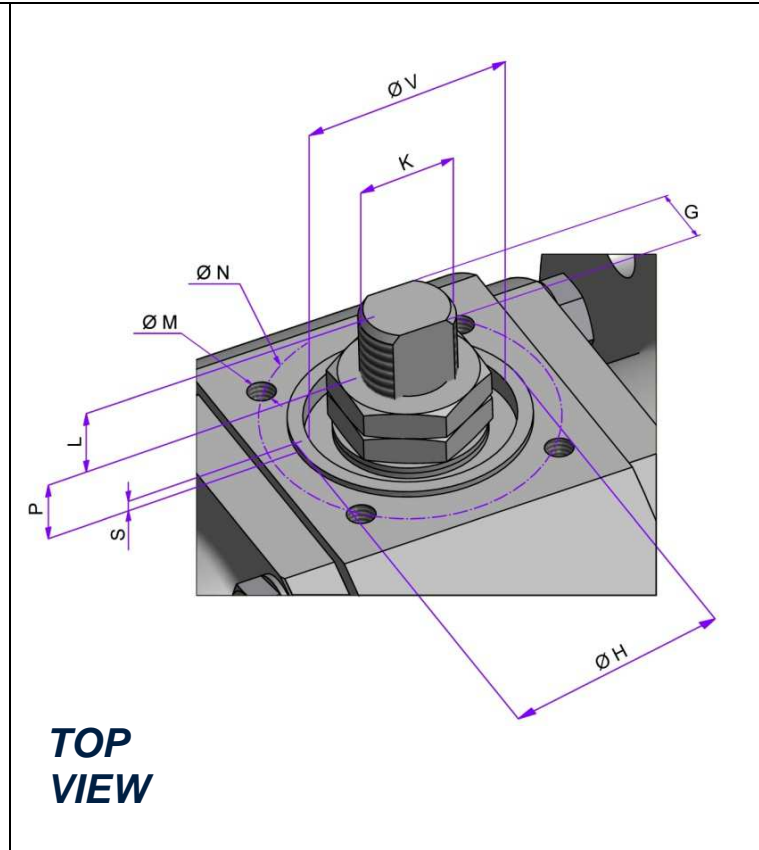
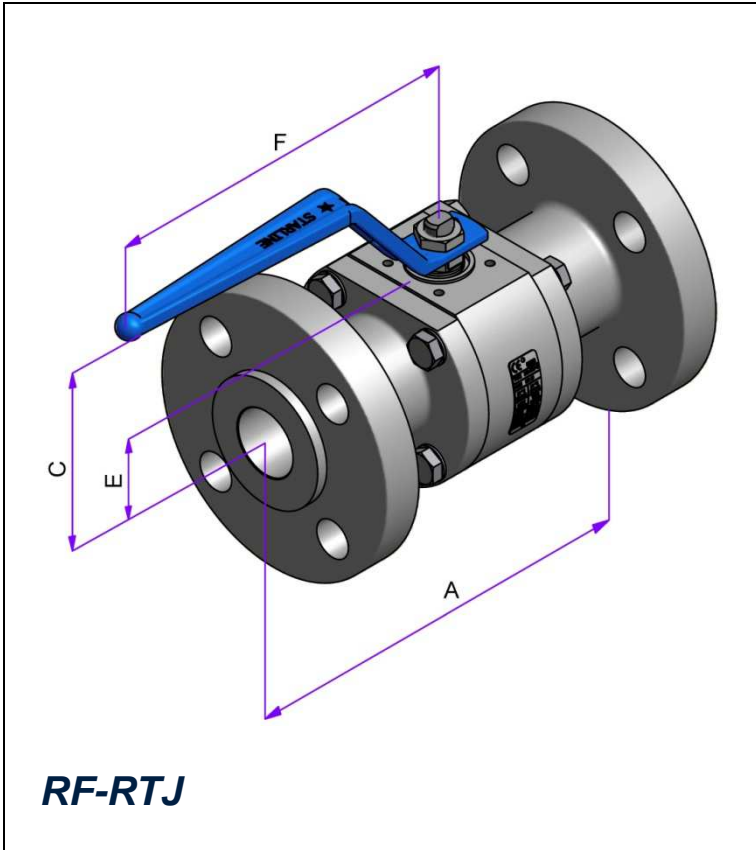
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note2</sup>	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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	VITON	VITON	See Oring table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8 <sup>Note3</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note4</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic for DN 65 - 2.1/2"

Note 2: Qty 2 for DN 20 - 3/4"

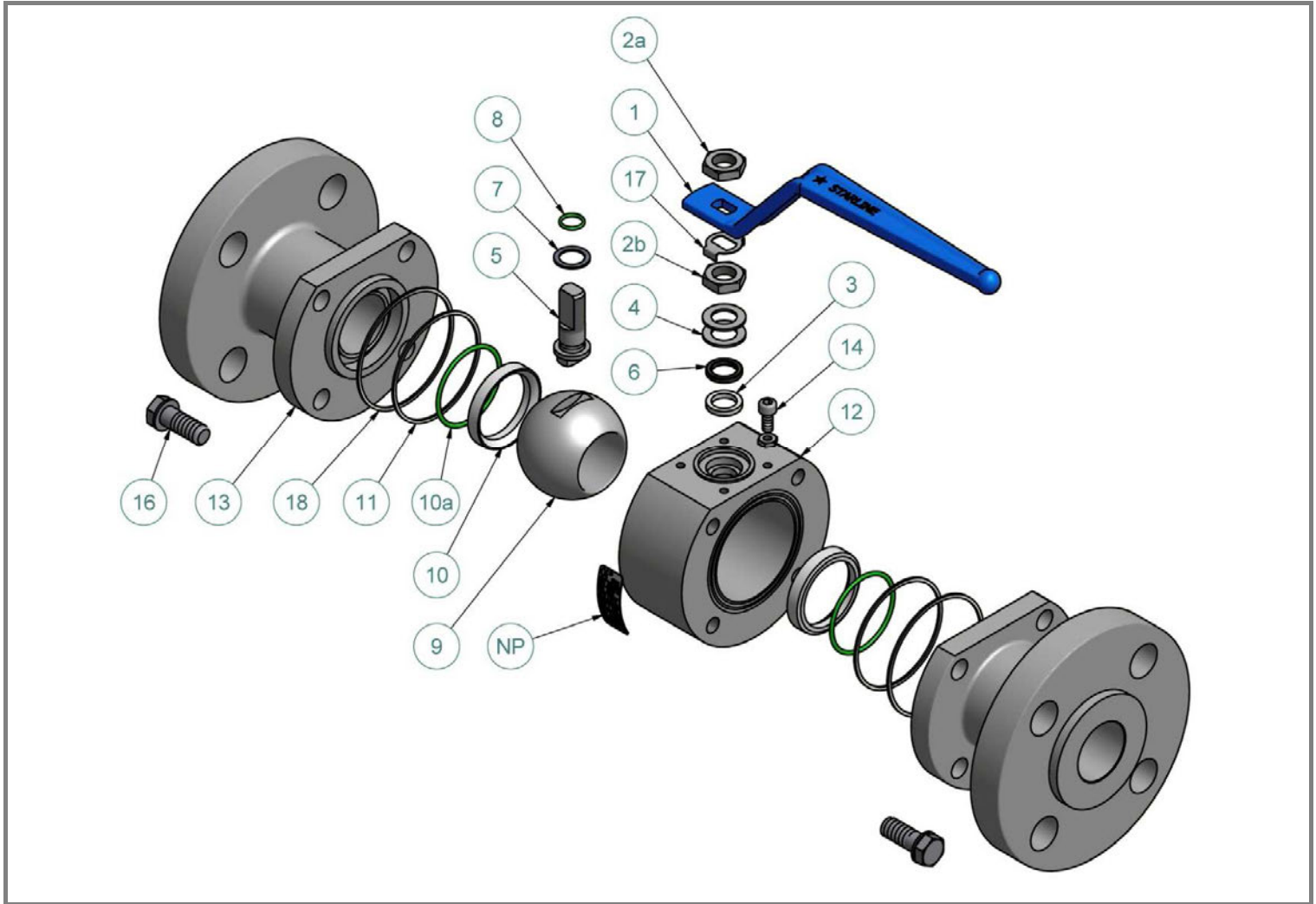
Note 3: Qty 12 from DN 50 - 2" to DN 65 - 2.1/2"

Note 4: Qty 0 for DN 65 - 2.1/2"



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	32.5	144	2.9	3
3/4" x 3/4"	20 x 20	191	191	20.5	98	39	172.5	5.4	5.5
1" x 1"	25 x 25	216	216	25.4	100	38	172.5	7.5	7.6
1.1/4" x 1.1/4"	32 x 32	229	229	31.7	110	43.5	218	10	10.5
1.1/2" x 1.1/2"	40 x 40	241	241	38	112	47.5	218	14	14.5
2" x 2"	50 x 50	292	295	49	122	58.7	218	19.4	19.8
2.1/2" x 2.1/2"	65 x 65	330	333	62	136	70	420	31.5	32

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	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	14	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07



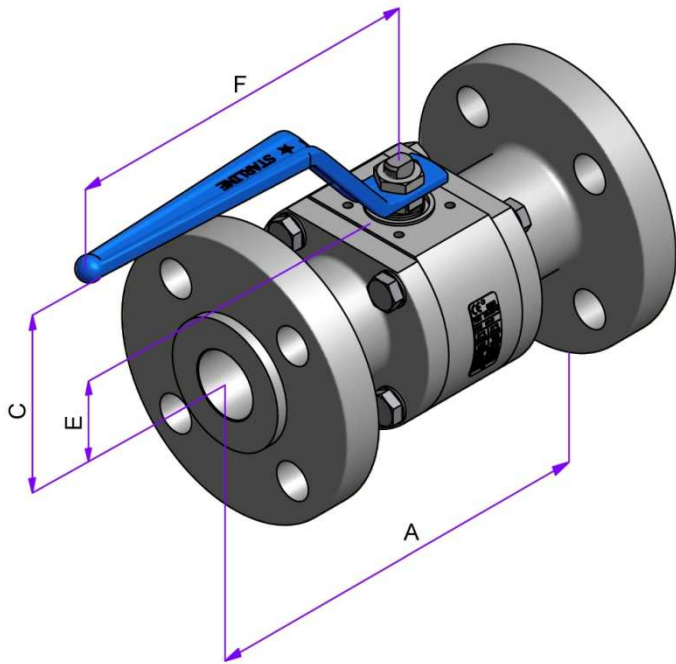
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note2</sup>	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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	VITON	VITON	See Oring table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8 <sup>Note3</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note4</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic for DN 80 - 3"

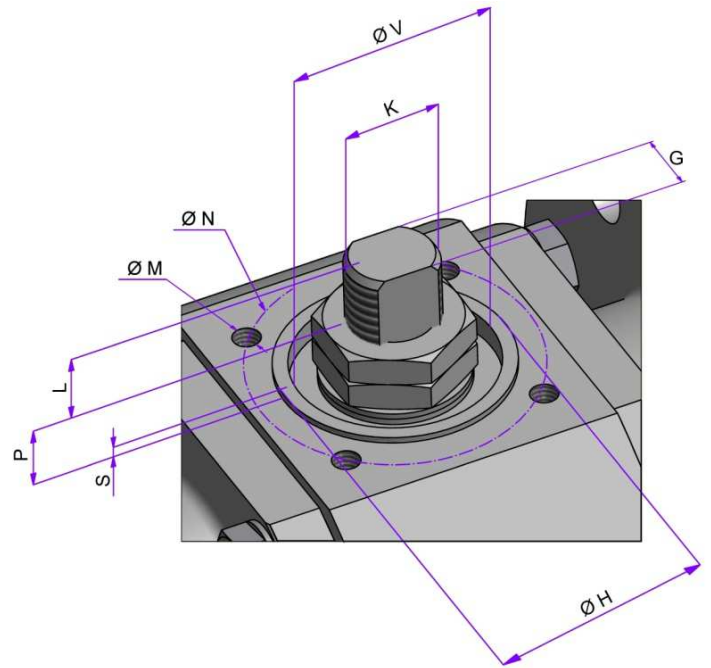
Note 2: Qty 2 for DN 25 - 1"

Note 3: Qty 12 from DN 65 - 2.1/2" to DN 80 - 3"

Note 4: Qty 0 for DN 80 - 3"



**RF-RTJ**

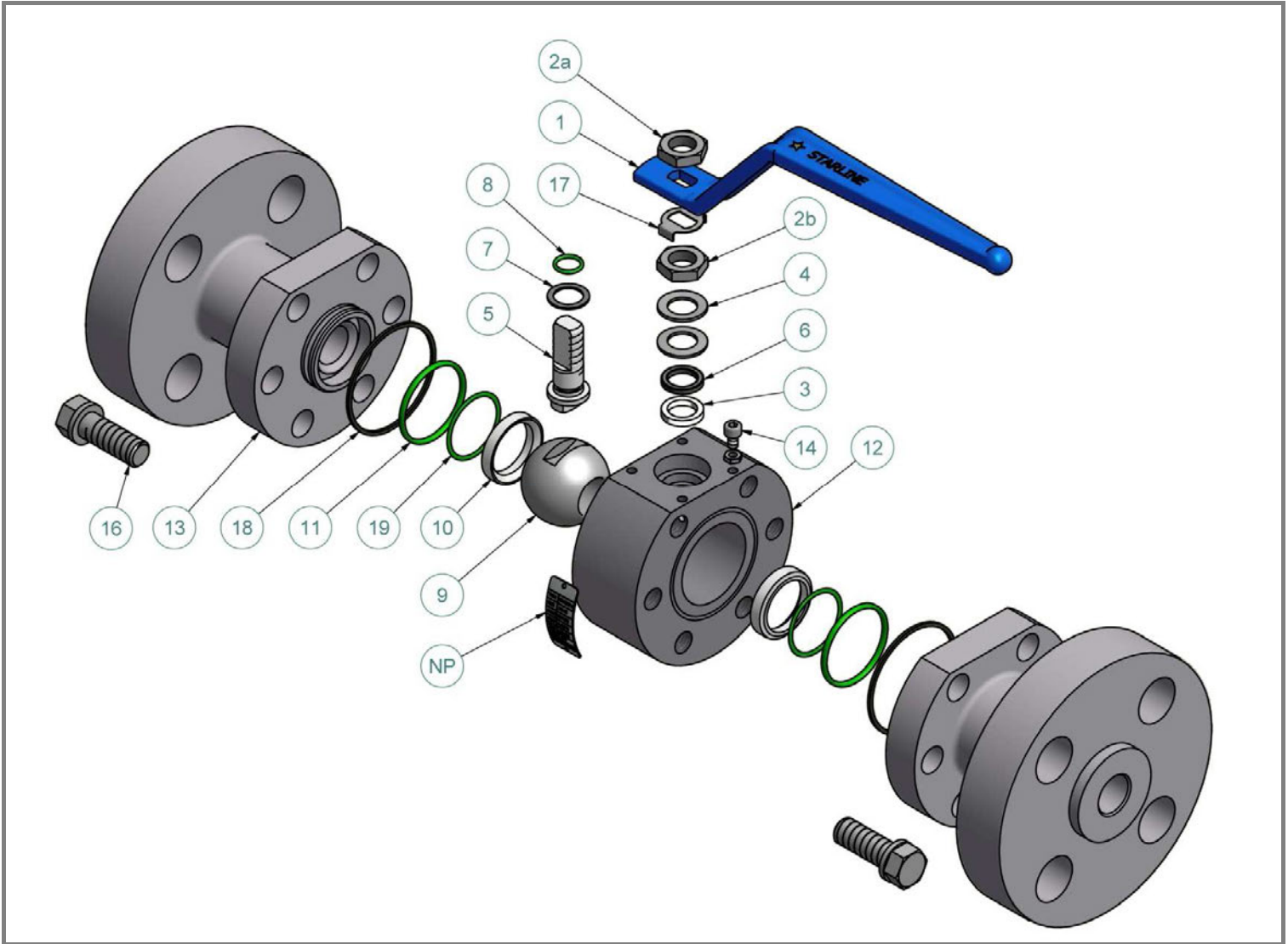


**TOP VIEW**

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	30.5	144	2.3	2.3
3/4" x 1/2"	20 x 15	191	191	14.2	81	32.5	144	3.6	3.7
1" x 3/4"	25 x 20	216	216	20.5	98	39	172.5	5.4	5.4
1.1/4" x 1"	32 x 25	229	229	25.4	100	38	172.5	7.8	7.8
1.1/2" x 1.1/4"	40 x 32	241	241	31.7	110	43.5	218	10.8	11
2" x 1.1/2"	50 x 40	292	295	38	112	47.5	218	16.6	17
2.1/2" x 2"	65 x 50	330	333	49	122	58.7	218	23.5	24
3" x 2.1/2"	80 x 65	356	359	62	136	70	420	33.5	34

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	3.6	5.4	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2" x 1.1/4"	40 x 32	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 1.1/2"	50 x 40	14	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2"	65 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
3" x 2.1/2"	80 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07



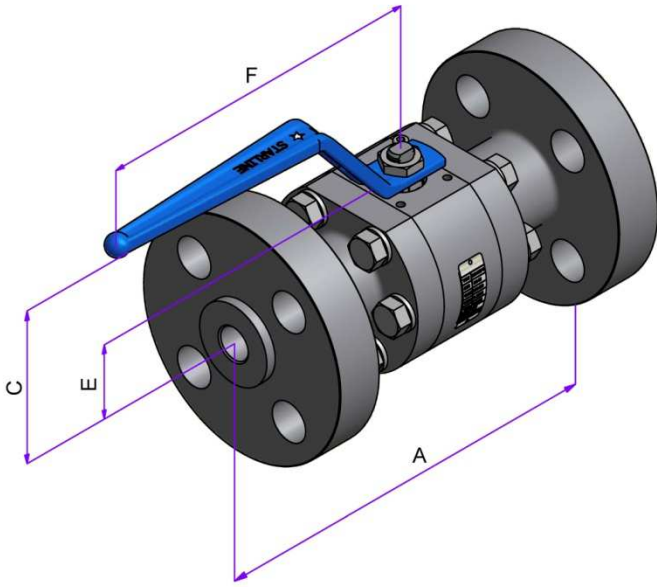


ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note1</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note2</sup>	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	
16	12	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	See seats and seals material table
19	2	Seats gasket	Viton	Viton	See seats and seals material table

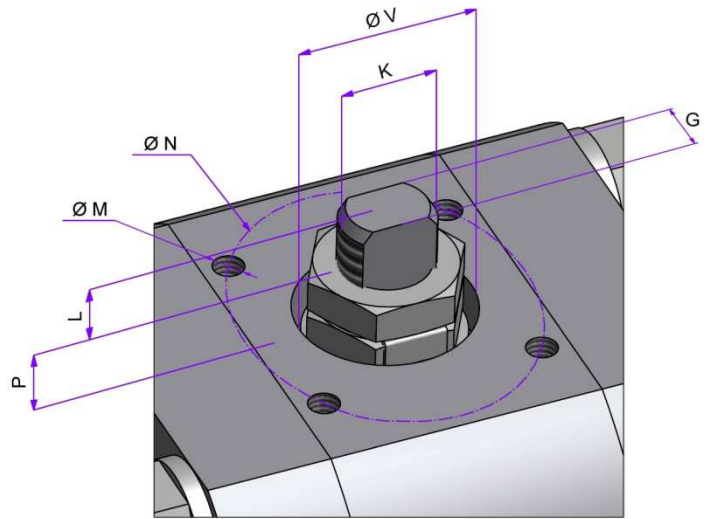
Note 1: Qty 3 for DN25 - 1”

Note 2: Qty 2 for DN20 - 3/4”

☐ RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



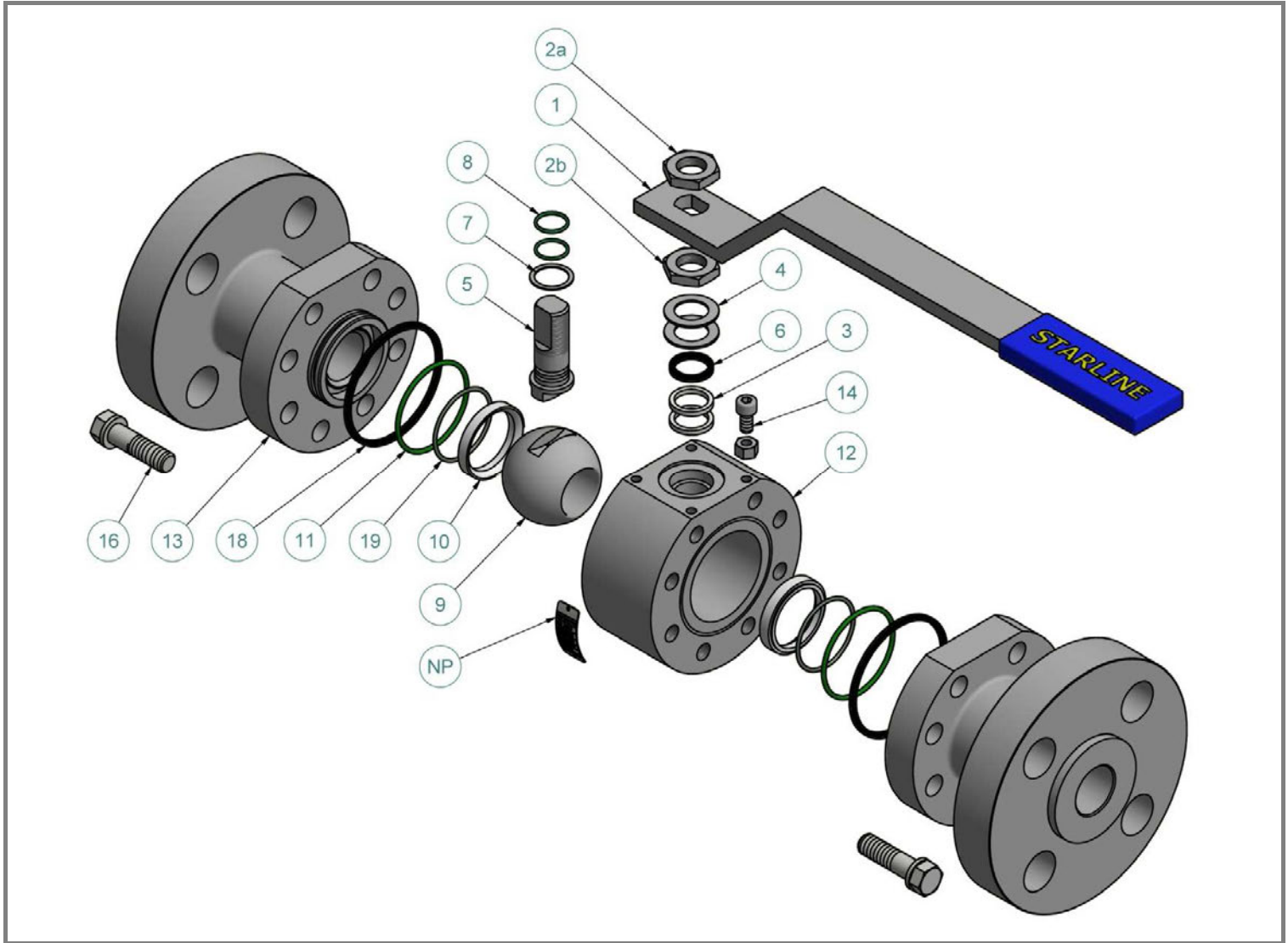
**RF-RTJ**



**TOP VIEW**

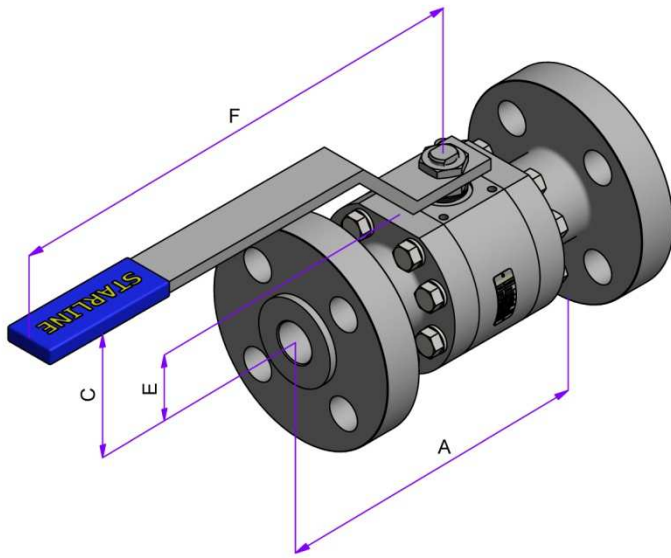
FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1/2" x 1/2"	15 x 15	216	216	11.1	98	30.5	172.5	6.8	7
3/4" x 3/4"	20 x 20	229	229	15.5	106	41	172.5	10	10.3
1" x 1"	25 x 25	254	254	21	113	46	218	15	15.3

TOP MOUNTING									
VALVE SIZE		DIMENSIONS [ mm ]							ISO 5211
NPS	DN	L	P	V	K	G	N	M	
1/2" x 1/2"	15 x 15	5.9	6.7	23	M12x1.25	7.5	36	M5x8	F03
3/4" x 3/4"	20 x 20	5.6	6.4	23	M12x1.25	7.5	42	M5x8	F04
1" x 1"	25 x 25	11.2	8.3	28	M15x1.5	8.9	50	M6x10	F05

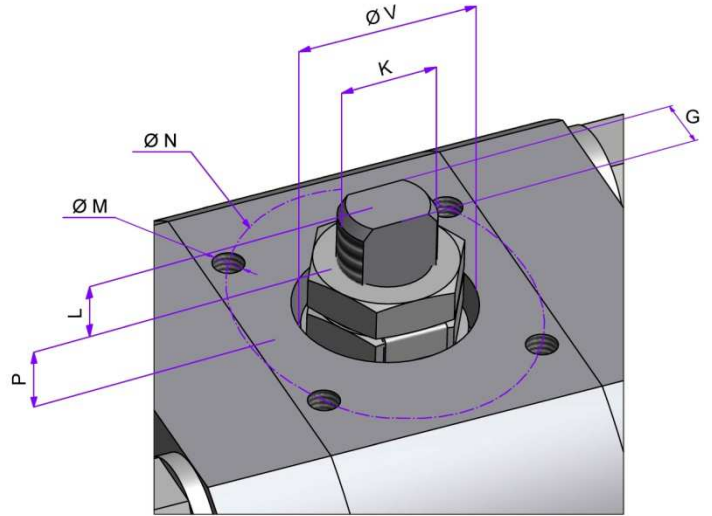


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	2	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
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	2	“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	
16	16 <sup>Note 1</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	2	II° Body seals	Graphite	Graphite	See seats and seals material table
19	2	Seats gasket	Viton	Viton	See seats and seals material table

Note 1: Qty 20 for DN50 - 2"



**RF-RTJ**

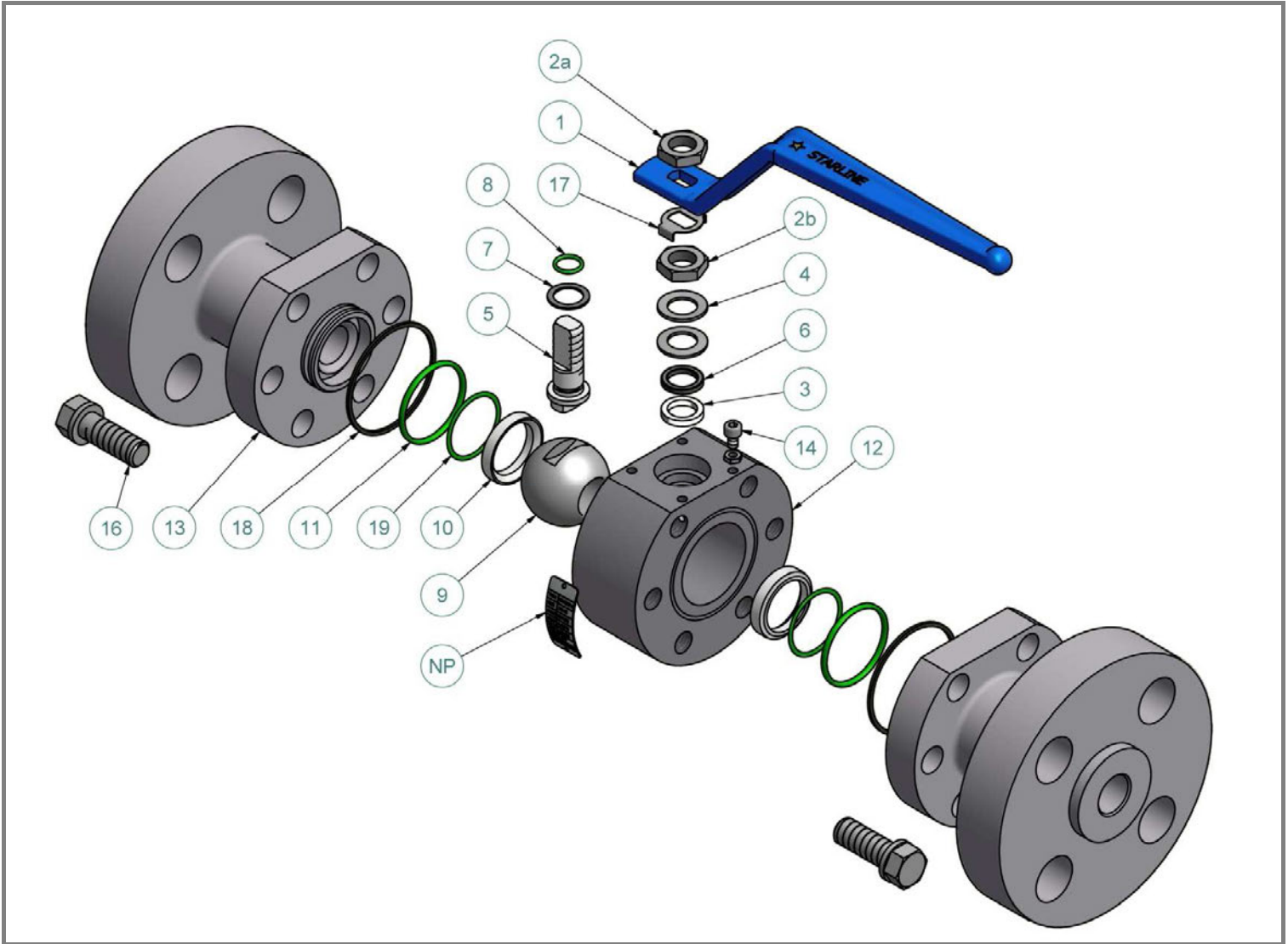


**TOP VIEW**

FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]						WEIGHT [ Kg ]	
NPS	DN	A		BORE	C	E	F	RF	RTJ
		RF	RTJ						
1.1/4" x 1.1/4"	32 x 32	280	280	34	140	60	420	27	27.5
1.1/2" x 1.1/2"	40 x 40	305	305	34	140	60	420	27	27.5
2" x 2"	50 x 50	368	371	43	150	70	420	41	42

TOP MOUNTING									
VALVE SIZE		DIMENSIONS [ mm ]							ISO 5211
NPS	DN	L	P	V	K	G	N	M	
1.1/4" x 1.1/4"	32 x 32	15.2	17.8	42	M22x1.5	16	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	15.2	17.8	42	M22x1.5	16	70	M8x10	F07
2" x 2"	50 x 50	12.3	18.2	40	M22x1.5	16	70	M8x10	F07

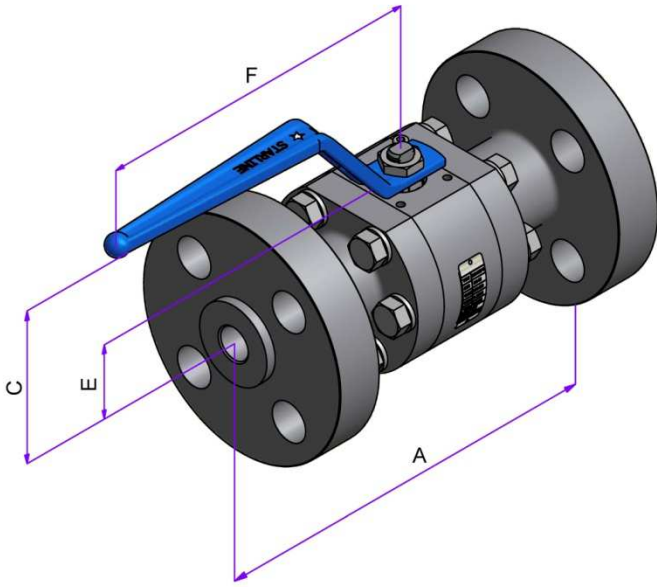




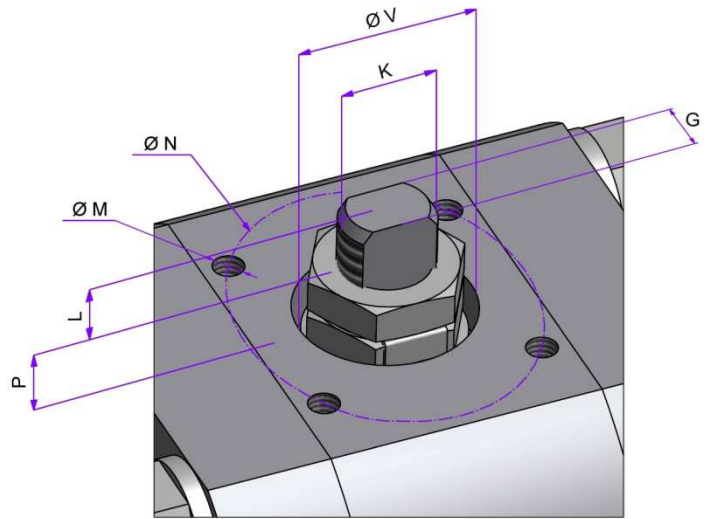
ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note1</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note2</sup>	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	
16	12	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop Washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	See seats and seals material table
19	2	Seats gasket	Viton	Viton	See seats and seals material table

Note 1: Qty 3 for DN25 - 1”

Note 2: Qty 2 for DN20 - 3/4”



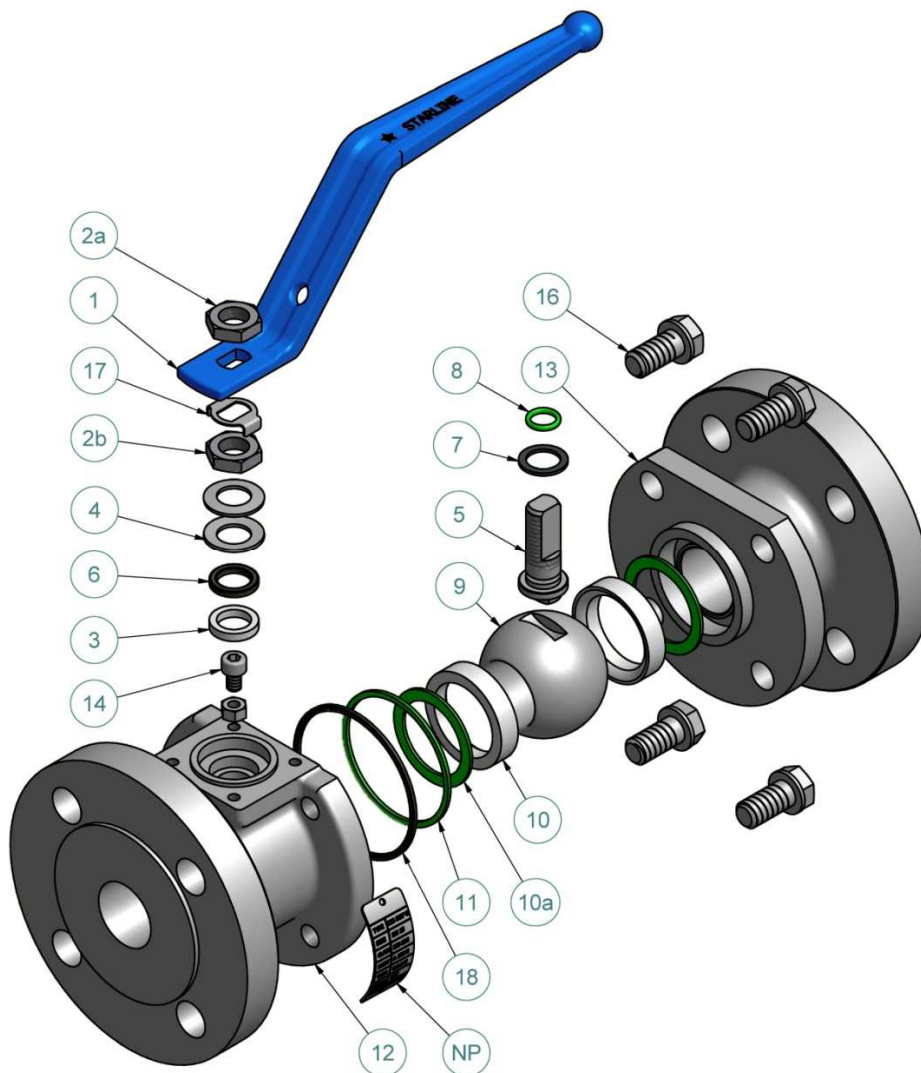
**RF-RTJ**



**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	263	263	11.1	98	30.5	172.5	6.8	7
3/4" x 3/4"	20 x 20	273	273	15.5	106	41	172.5	13	13.2
1" x 1"	25 x 25	308	308	21	113	46	218	18	18.3

TOP MOUNTING									
VALVE SIZE		DIMENSIONS [ mm ]							ISO 5211
NPS	DN	L	P	V	K	G	N	M	
1/2" x 1/2"	15 x 15	5.9	6.7	23	M12x1.25	7.5	36	M5x8	F03
3/4" x 3/4"	20 x 20	5.6	6.4	23	M12x1.25	7.5	42	M5x8	F04
1" x 1"	25 x 25	11.2	8.3	28	M15x1.5	8.9	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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	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 <sup>Note4</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	4 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 150 - 6"

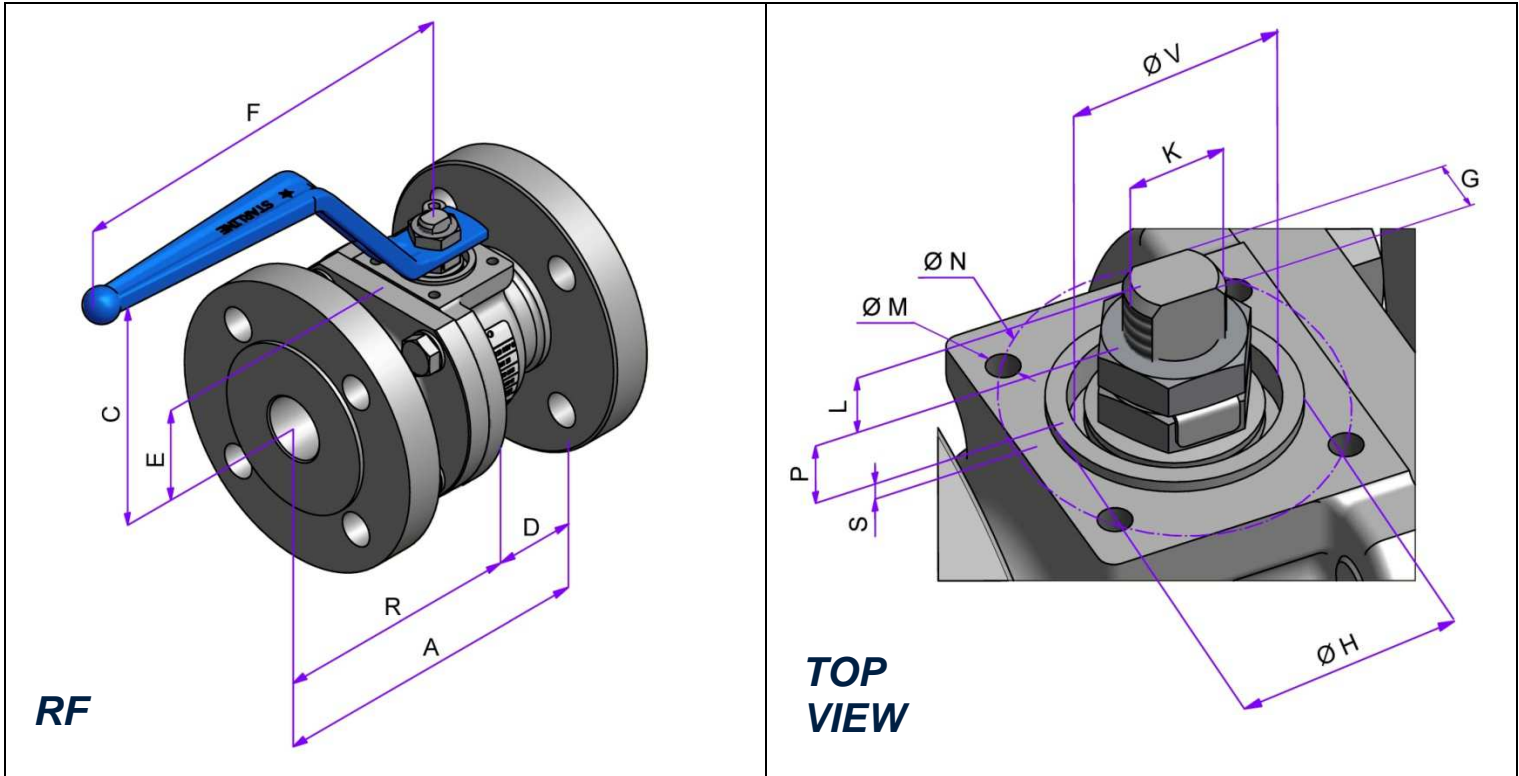
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3" and over

Note 4: Qty 2 for DN 80 - 3" and DN 150 - 6"

Note 5: Qty 6 from DN 50 - 2" to DN 65 - 2.1/2", Qty 8 for DN 80 - 3", Qty 8 for DN 100 - 4" PN 10-16, Qty 10 for DN 100 - 4" PN 25, Qty 12 for DN 150 - 6"

Note 6: Qty 0 for DN 65 - 2.1/2" and over

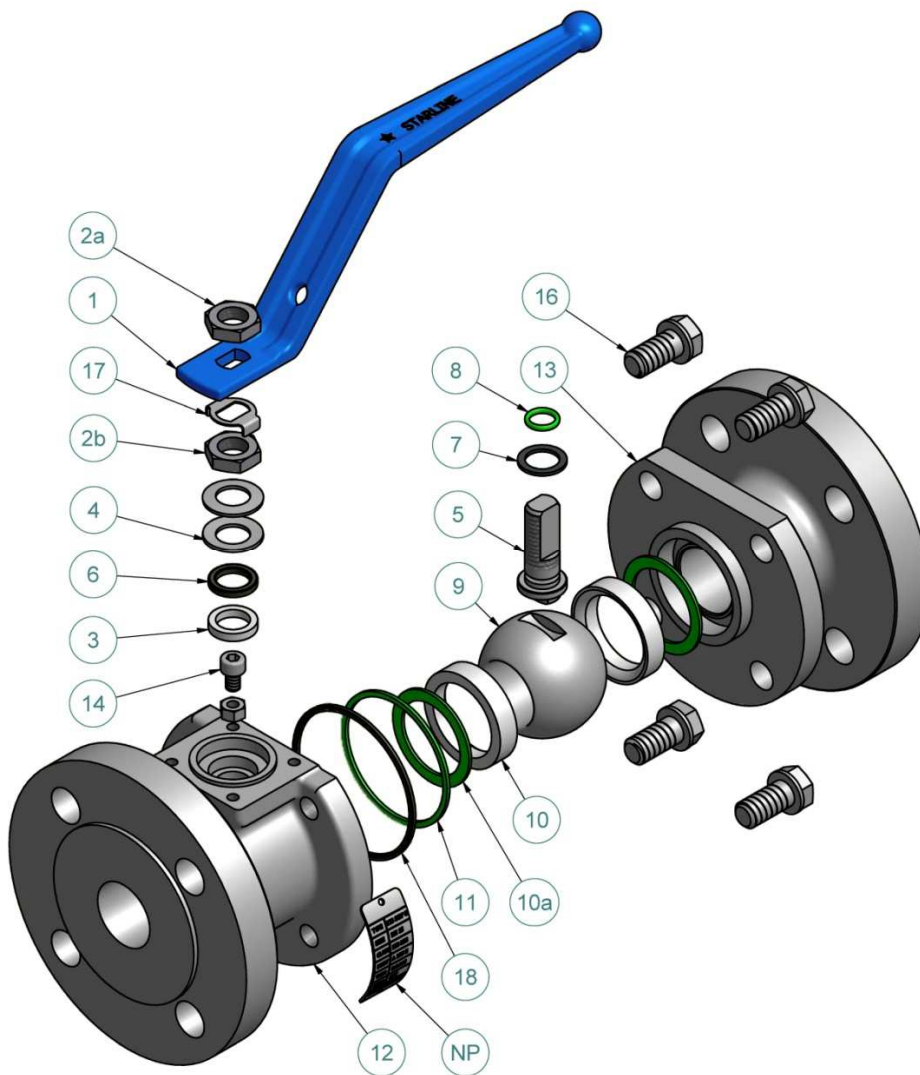


FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 25
1/2" x 1/2"	15 x 15	115	66	49	15	79	27	144	2.5
3/4" x 3/4"	20 x 20	120	70	50	20	101	33.5	172.5	3.5
1" x 1"	25 x 25	125	72	53	25	105	38	172.5	4.1
1.1/4" x 1.1/4"	32 x 32	130	73.5	56.5	32	112	43.5	218	6.6
1.1/2" x 1.1/2"	40 x 40	140	81.5	58.5	40	116	47.5	218	8.9
2" x 2"	50 x 50	150	87	63	50	124	58.5	218	10.6
2.1/2" x 2.1/2"	65 x 65	170	97.5	72.5	65	140	70	420	17.8
3" x 3"	80 x 80	180	103	77	80	150	87.5	420	20.5
4" x 4"	100 x 100	300*	185.5	114.5	100	190	112.5	420	46
6" x 6"	150 x 150	350*	180	170	150	263	151	700	72

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	5.5	4.5	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	9.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	12	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14	21.5	1.5	48	M24x2	18	55	70	M8x12	F07
4" x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
6" x 6"	150 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10

NOTE: \* UNI EN 558 Series 15





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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	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 <sup>Note4</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	4 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 150 - 6"

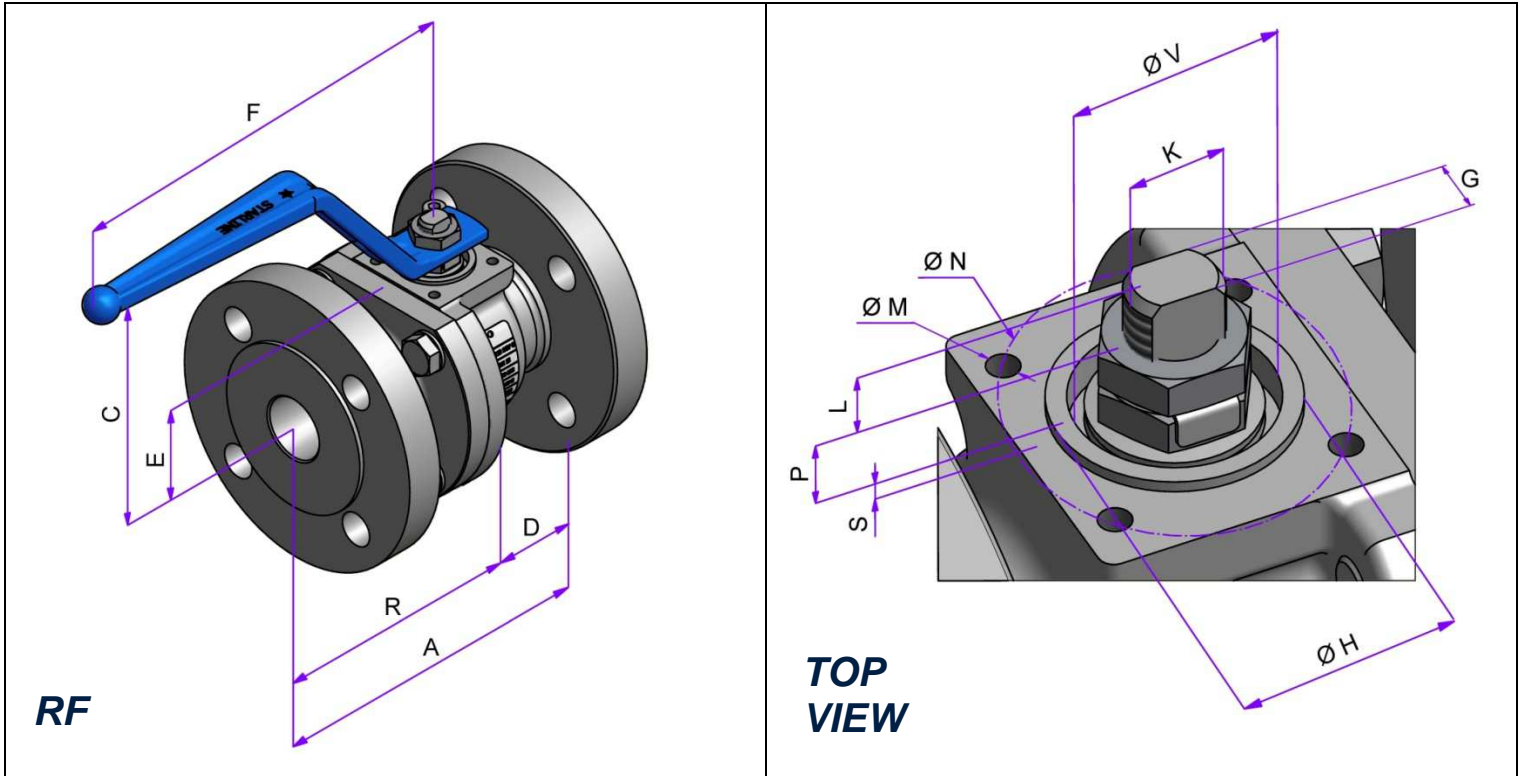
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3" and over

Note 4: Qty 2 for DN 80 - 3" and DN 150 - 6"

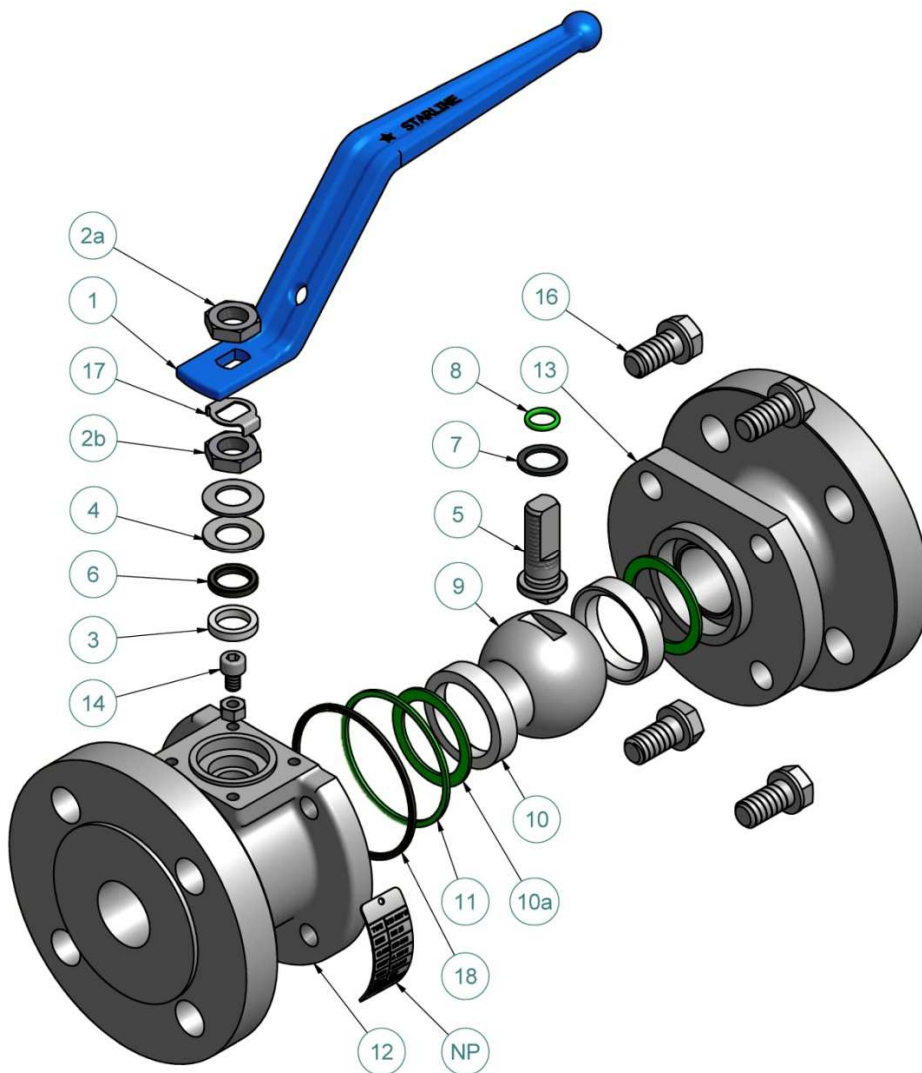
Note 5: Qty 6 from DN 50 - 2" to DN 65 - 2.1/2", Qty 8 for DN 80 - 3", Qty 8 for DN 100 - 4" PN 10-16, Qty 10 for DN 100 - 4" PN 25, Qty 12 for DN 150 - 6"

Note 6: Qty 0 for DN 65 - 2.1/2" and over



FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 25
1/2" x 1/2"	15 x 15	130	81	49	15	79	27	144	2.6
3/4" x 3/4"	20 x 20	150	100	50	20	101	33.5	172.5	4
1" x 1"	25 x 25	160	107	53	25	105	38	172.5	5.8
1.1/4" x 1.1/4"	32 x 32	180	123.5	56.5	32	112	43.5	218	8.1
1.1/2" x 1.1/2"	40 x 40	200	141.5	58.5	40	116	47.5	218	9.6
2" x 2"	50 x 50	230	167	63	50	124	58.5	218	11.9
2.1/2" x 2.1/2"	65 x 65	290	217.5	72.5	65	140	70	420	20.9
3" x 3"	80 x 80	310	233	77	80	150	87.5	420	26.5
4" x 4"	100 x 100	350	235.5	114.5	100	190	112.5	420	50
6" x 6"	150 x 150	480	310	170	150	263	151	700	80

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	5.5	4.5	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	13	12.5	1.5	30	M15X1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	9.5	1.5	30	M15X1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	12	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14	21.5	1.5	48	M24x2	18	55	70	M8x12	F07
4" x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
6" x 6"	150 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10



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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	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 <sup>Note4</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	4 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 100 - 4"

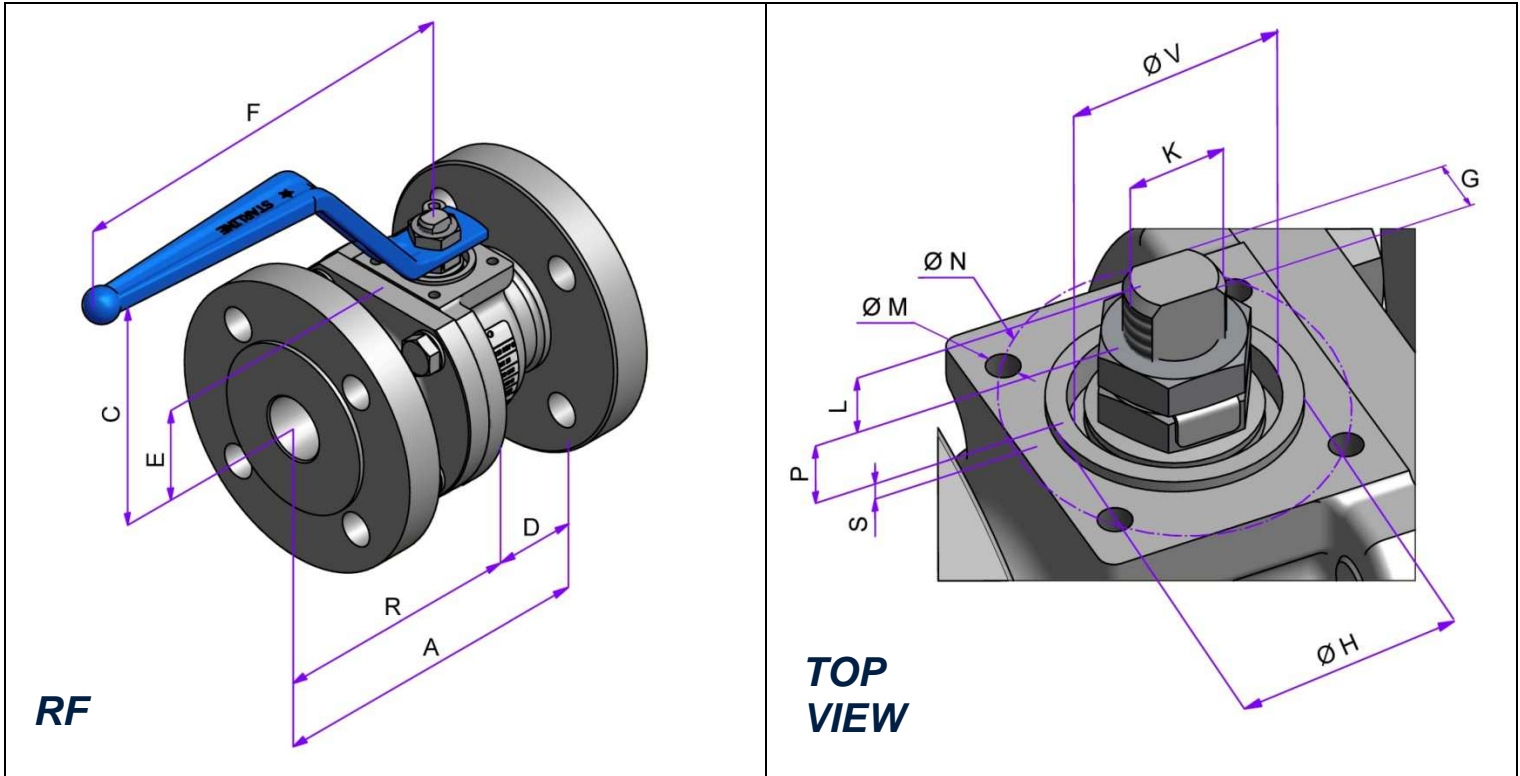
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3" and over

Note 4: Qty 2 for DN 80 - 3"

Note 5: Qty 6 from DN 50 - 2" to DN 65 - 2.1/2", Qty 8 for DN 80 - 3", Qty 10 for DN 100 - 4"

Note 6: Qty 0 for DN 65 - 2.1/2" and over

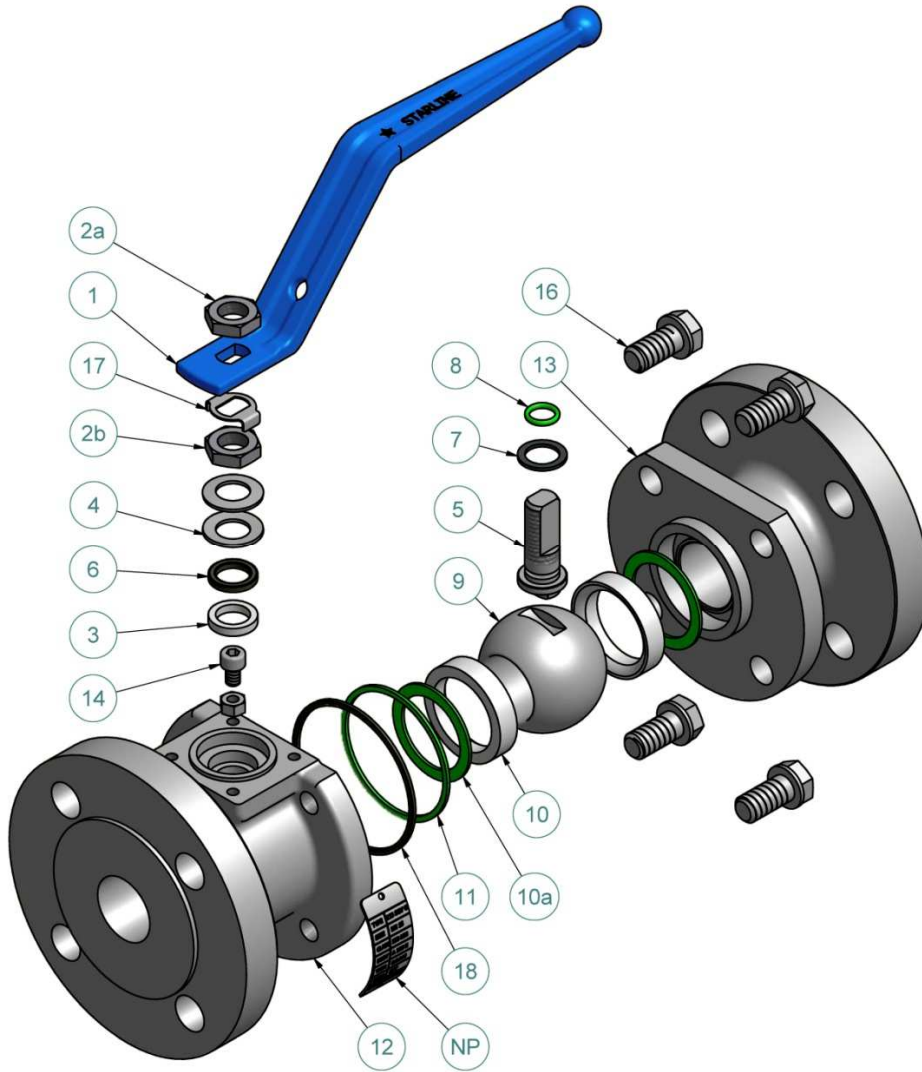


FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 40
1/2" x 1/2"	15 x 15	115	66	49	15	79	27	144	2.5
3/4" x 3/4"	20 x 20	120	70	50	20	101	33.5	172.5	3.5
1" x 1"	25 x 25	125	72	53	25	105	38	172.5	4.1
1.1/4" x 1.1/4"	32 x 32	130	73.5	56.5	32	112	43.5	218	6.6
1.1/2" x 1.1/2"	40 x 40	140	81.5	58.5	40	116	47.5	218	8.9
2" x 2"	50 x 50	150	87	63	50	124	58.5	218	10.6
2.1/2" x 2.1/2"	65 x 65	170	97.5	72.5	65	140	70	420	17.8
3" x 3"	80 x 80	180	103	77	80	150	87.5	420	20.5
4" x 4"	100 x 100	300*	185.5	114.5	100	190	110	420	49

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	5.5	4.5	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	9.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	12	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14	21.5	1.5	48	M24x2	18	55	70	M8x12	F07
4" x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07

NOTE: \* UNI EN 558 Series 15





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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	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 <sup>Note4</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	4 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 65 - 2.1/2" to DN 100 - 4"

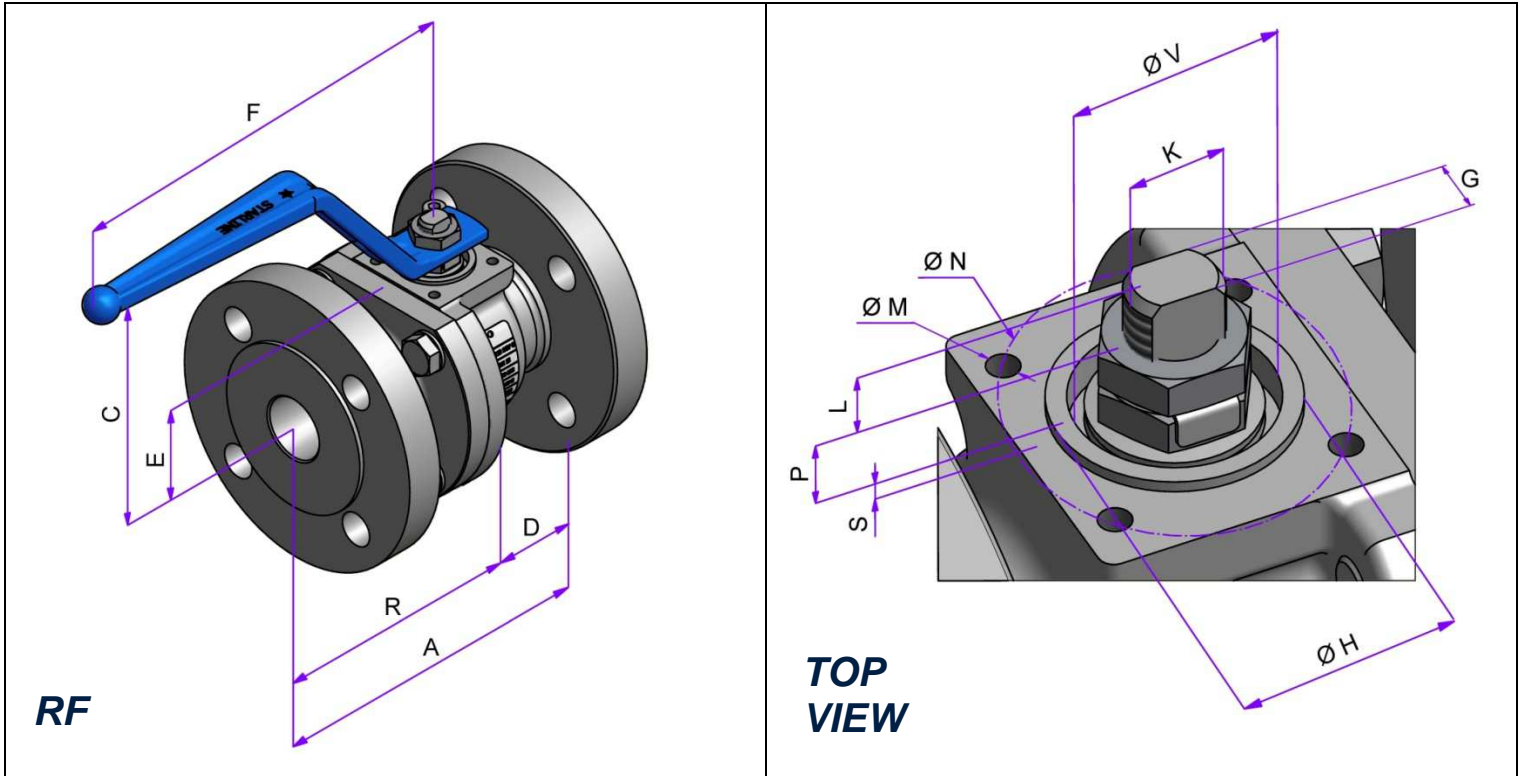
Note 2: Qty 2 for DN 80 - 3"

Note 3: Qty 0 for DN 80 - 3" and over

Note 4: Qty 2 for DN 80 - 3"

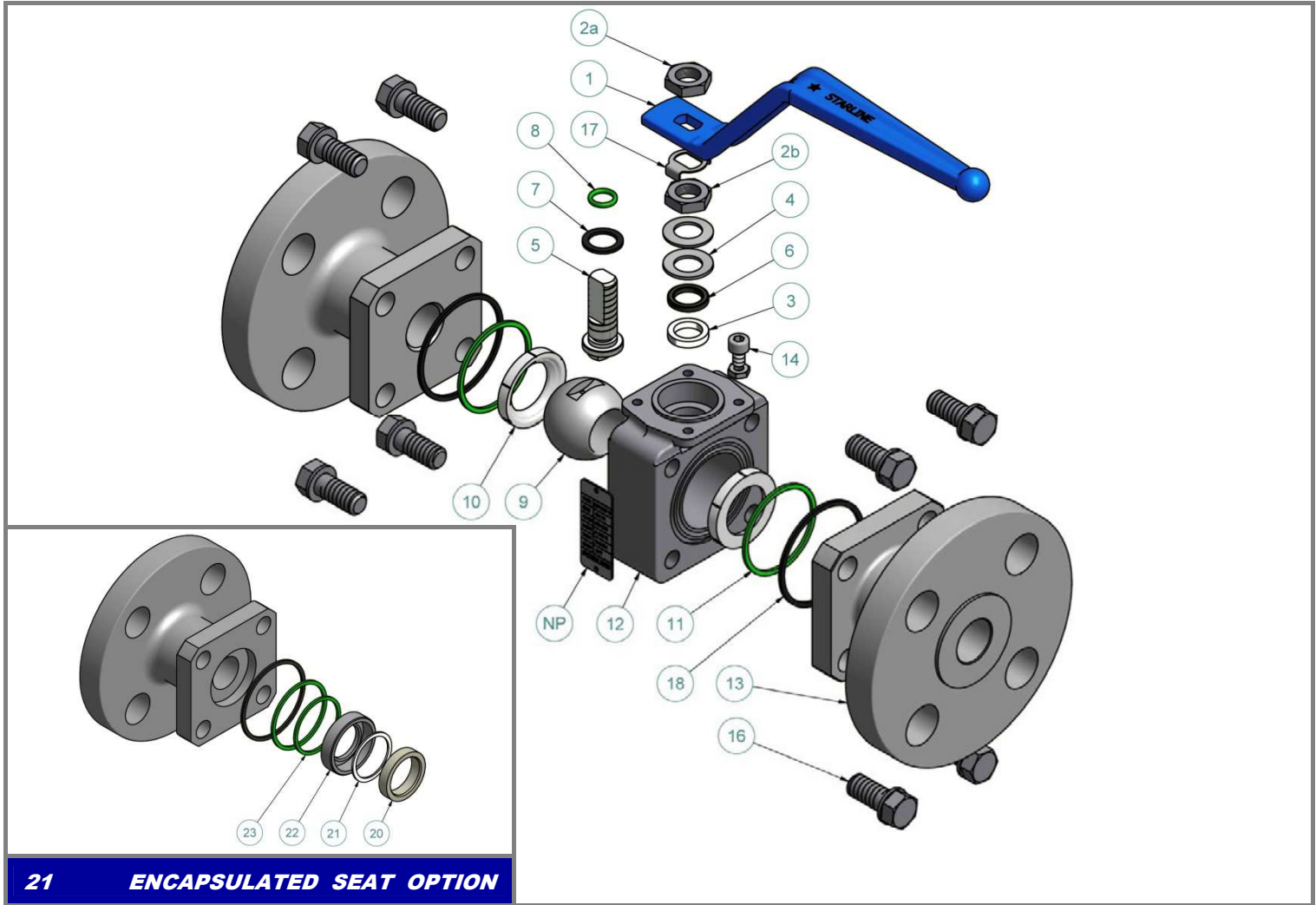
Note 5: Qty 6 from DN 50 - 2" to DN 65 - 2.1/2", Qty 8 for DN 80 - 3", Qty 10 for DN 100 - 4"

Note 6: Qty 0 for DN 65 - 2.1/2" and over



FULL BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 40
1/2" x 1/2"	15 x 15	130	81	49	15	79	27	144	2.6
3/4" x 3/4"	20 x 20	150	100	50	20	101	33.5	172.5	4
1" x 1"	25 x 25	160	107	53	25	105	38	172.5	5.8
1.1/4" x 1.1/4"	32 x 32	180	123.5	56.5	32	112	43.5	218	8.1
1.1/2" x 1.1/2"	40 x 40	200	141.5	58.5	40	116	47.5	218	9.6
2" x 2"	50 x 50	230	167	63	50	124	58.5	218	11.9
2.1/2" x 2.1/2"	65 x 65	290	217.5	72.5	65	140	70	420	20.9
3" x 3"	80 x 80	310	233	77	80	150	87.5	420	26.5
4" x 4"	100 x 100	350	235.5	114.5	100	190	112.5	420	51

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	5.5	4.5	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 3/4"	20 x 20	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1" x 1"	25 x 25	7	11	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1.1/4"	32 x 32	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
1.1/2" x 1.1/2"	40 x 40	13	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 2"	50 x 50	12.5	9.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2.1/2" x 2.1/2"	65 x 65	17	12	1.5	48	M22x1.5	16	55	70	M8x12	F07
3" x 3"	80 x 80	14	21.5	1.5	48	M24x2	18	55	70	M8x12	F07
4" x 4"	100 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07

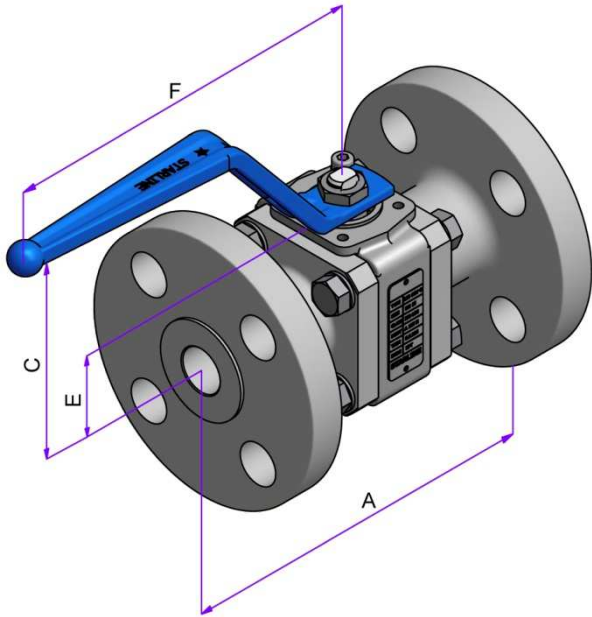


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note 1</sup>	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	RPTFE	RPTFE	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	8	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

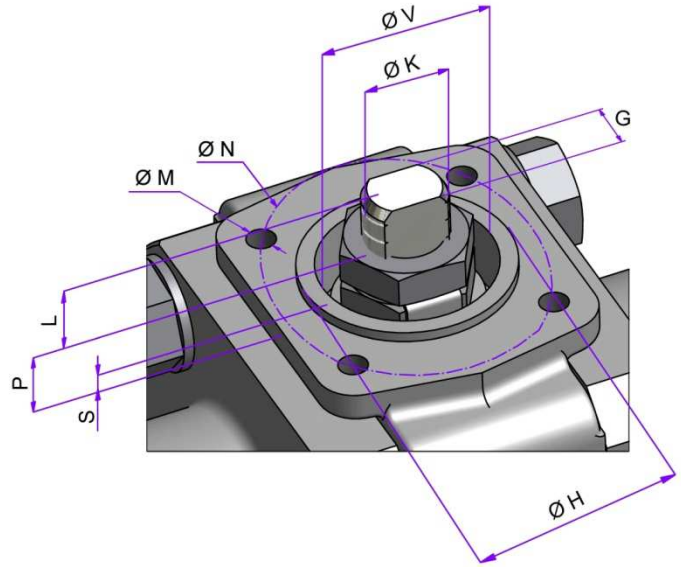
Note 1: Qty 2 for DN 25 - 1"

ENCAPSULATED SEAT OPTION					
20	2	Seats	RPTFE	RPTFE	See seats and seals material table
21	2	Seats Seal	Viton	Viton	See seats and seals material table
22	2	Seats Ring	LF2	316/316L Dual Certified	Special materials
23	2	Ring Seals	Viton	Viton	See seats and seals material table

☐ RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



**RF**



**TOP  
VIEW**

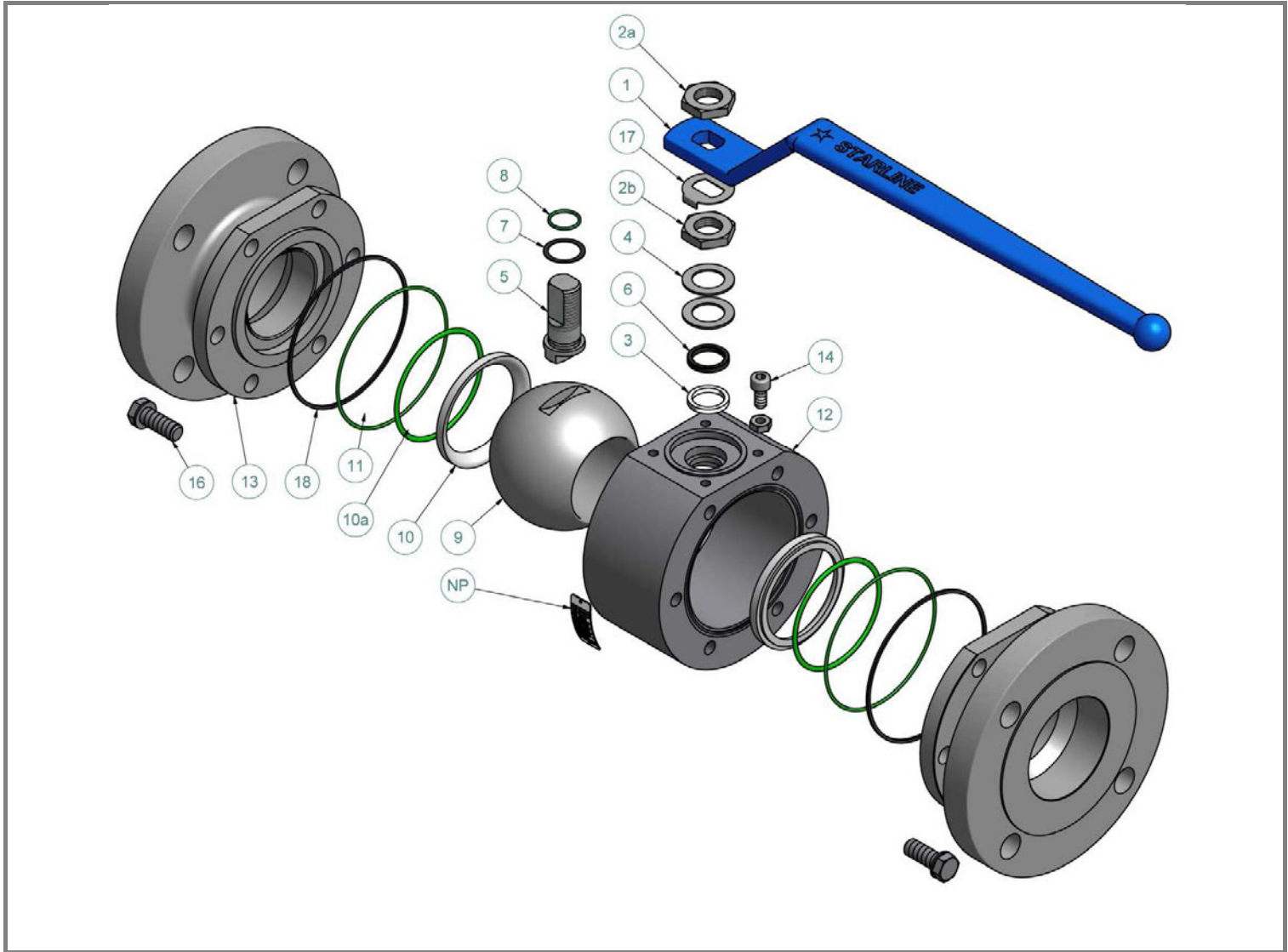
**REDUCED BORE**

VALVE SIZE		DIMENSIONS [ mm ]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	PN 10 ÷ 40
1/2" x 3/8"	15 x 10	130	11.1	79	30.5	144	2.6
3/4" x 1/2"	20 x 15	150	14.2	81	32.5	144	3.5
1" x 3/4"	25 x 20	160	20.5	98	39	172.5	4.8
1.1/4" x 1"	32 x 25	180	25.4	100	38	172.5	7.1
1.1/2" x 1.1/4"	40 x 32	200	31.7	110	43.5	218	9.8
2" x 1.1/2"	50 x 40	230	38	112	47.5	218	18.9

**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	3.6	5.4	1.5	21	M10x1	5.5	25	36	M5x8	F03
3/4" x 1/2"	20 x 15	3.6	5.9	1.5	21	M10x1	5.5	25	36	M5x8	F03
1" x 3/4"	25 x 20	9	5	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/4" x 1"	32 x 25	10	10	1.5	25	M12x1.25	7.5	30	42	M5x8	F04
1.1/2" x 1.1/4"	40 x 32	13	14	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
2" x 1.1/2"	50 x 40	14	14	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 <sup>Note1</sup>	Carbon Steel + Epoxy Coated <sup>Note1</sup>	316
2a	2	Handle nuts	304	304	316
2b					
3	1 <sup>Note2</sup>	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2 <sup>Note3</sup>	Spring washers	316 Treated	316 Treated	
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1 <sup>Note4</sup>	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note2</sup>	“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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	2	I° Body seals	RPTFE	RPTFE	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	
16	12 <sup>Note5</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	1 <sup>Note6</sup>	Stop washer	304	304	316
18	2	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Carbon Steel + Plastic from DN 80 - 3" to DN 100 - 4"

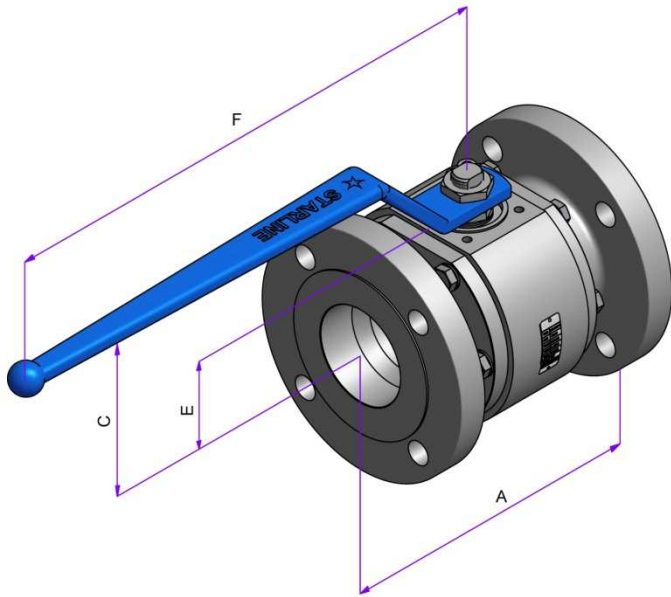
Note 2: Qty 2 for DN 100 - 4"

Note 3: Qty 0 for DN 100 - 4"

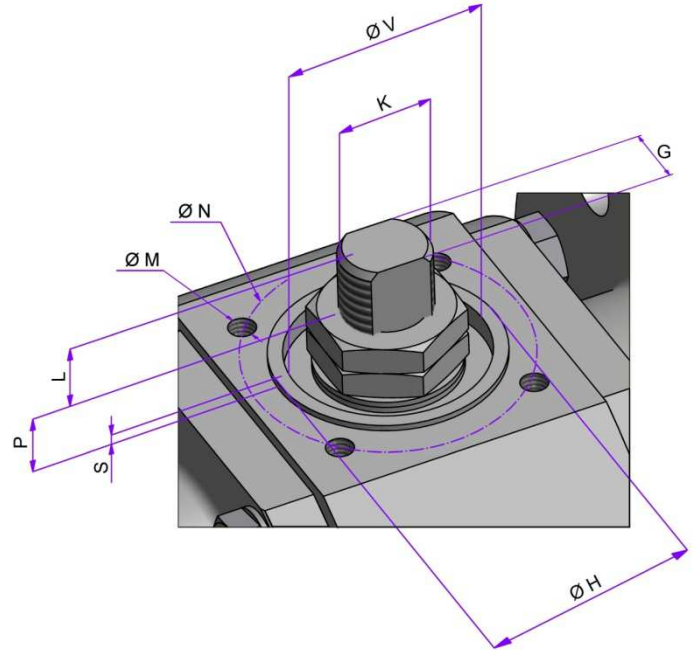
Note 4: Qty 2 for DN 25 - 1"

Note 5: Qty 16 for DN 100 - 4"

Note 6: Qty 0 for DN 80 - 3" and Over



**RF**



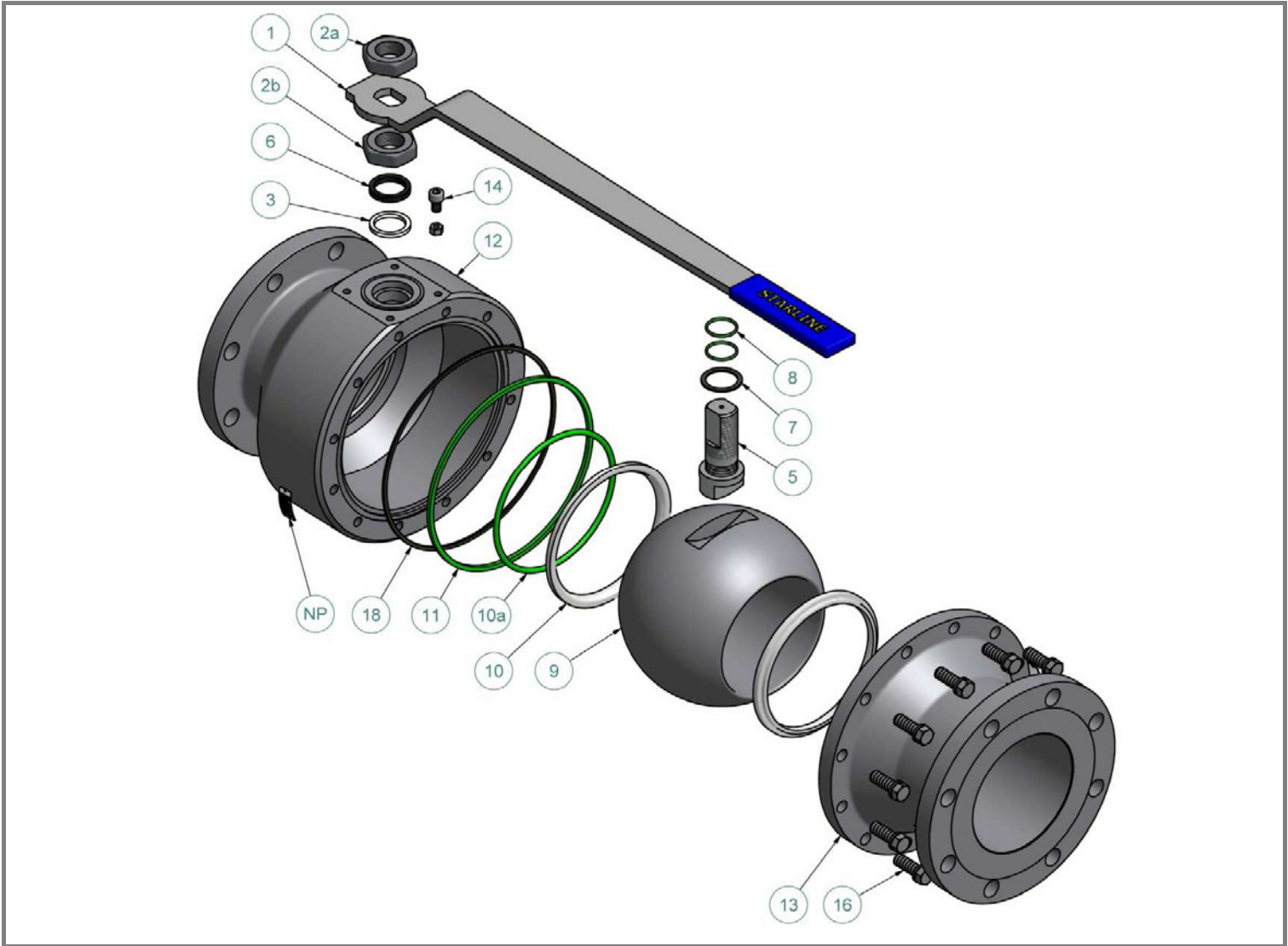
**TOP  
VIEW**

**REDUCED BORE**

VALVE SIZE		DIMENSIONS [ mm ]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	PN 10 ÷ 40
2.1/2" x 2"	65 x 50	290	49	122	58.7	218	18.9
3" x 2.1/2"	80 x 65	310	62	136	70	420	24.5
4" x 3"	100 x 80	350	76	150	87	420	40.5

**TOP MOUNTING**

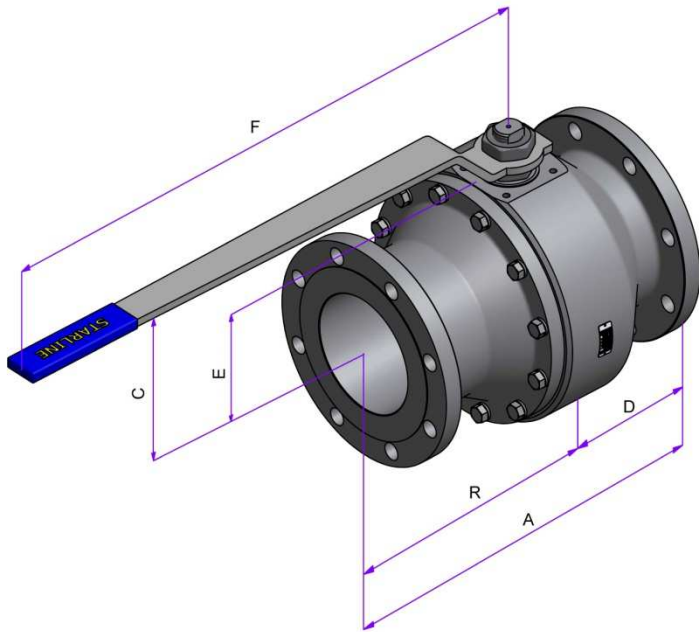
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
2.1/2" x 2"	65 x 50	12.5	12.5	1.5	30	M15x1.5	8.9	35	50	M6x10	F05
3" x 2.1/2"	80 x 65	17	18	1.5	48	M22x1.5	16	55	70	M8x12	F07
4" x 3"	100 x 80	15	22.5	1.5	48	M24x2	18	55	70	M8x12	F07



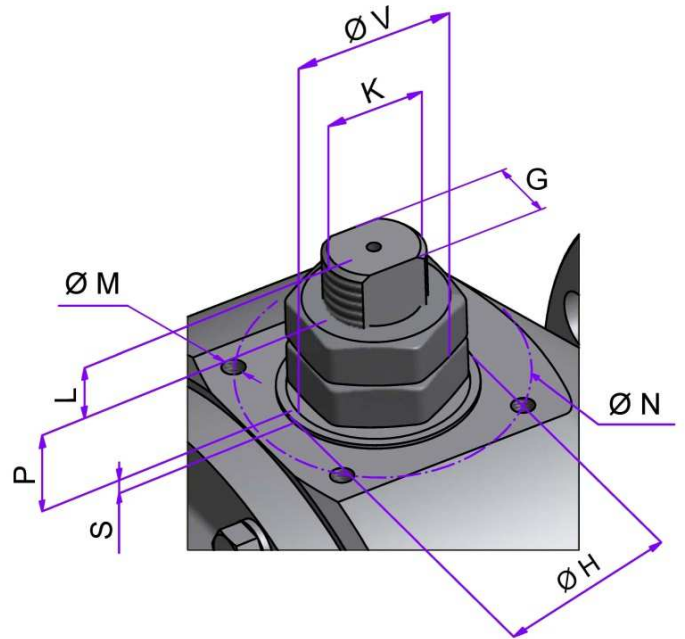
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note1</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	8 <sup>Note2</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Qty 2 for DN 200 - 8"

Note 2: Qty 10 for DN 150 - 6" PN 25, Qty 12 for DN 200 - 8"



**RF**

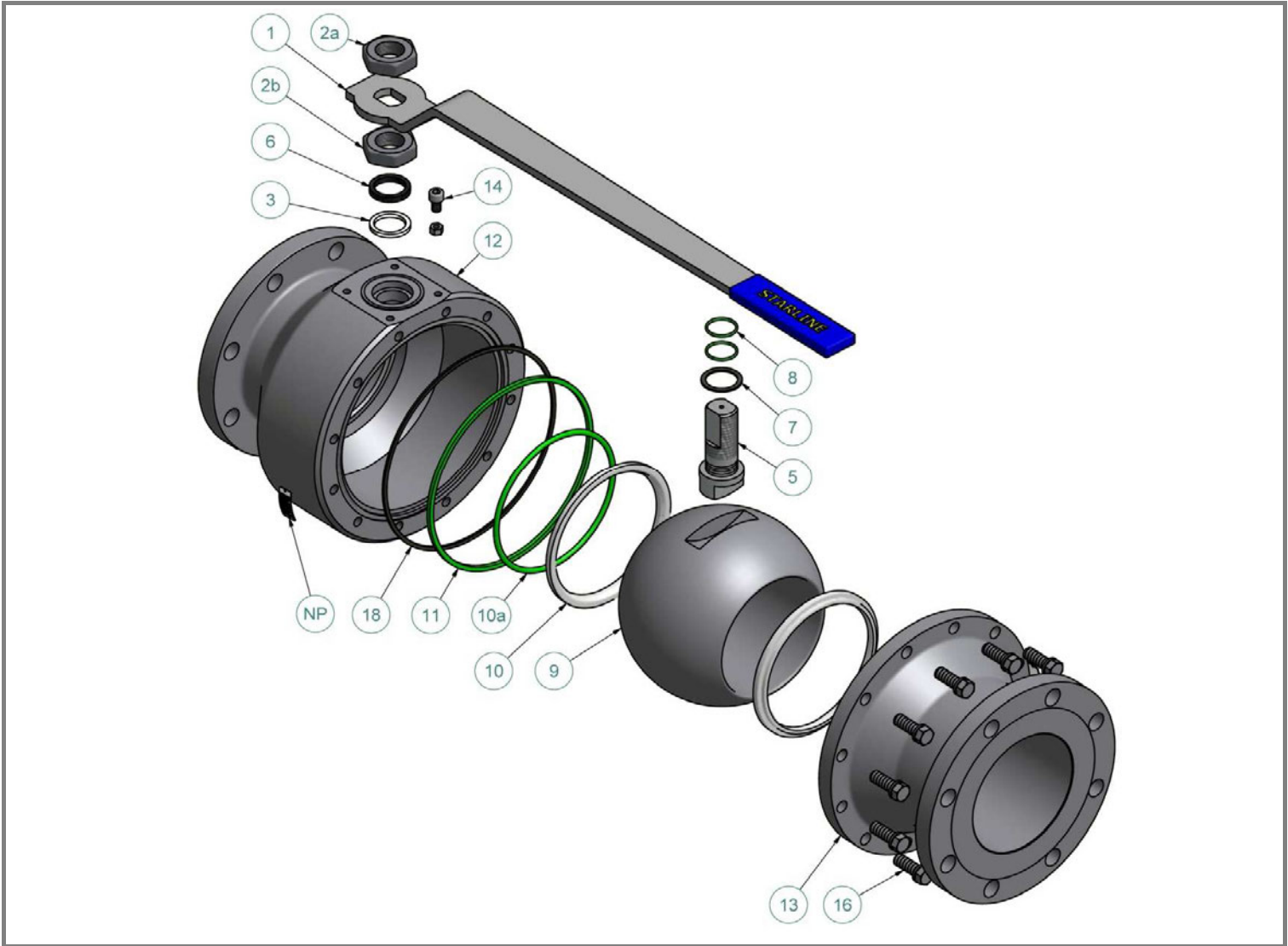


**TOP VIEW**

REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 25
6" x 4"	150 x 100	350	175	175	100	190	112.5	420	57
8" x 6"	200 x 150	400	200	200	150	263	151	700	91

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6" x 4"	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
8" x 6"	200 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10

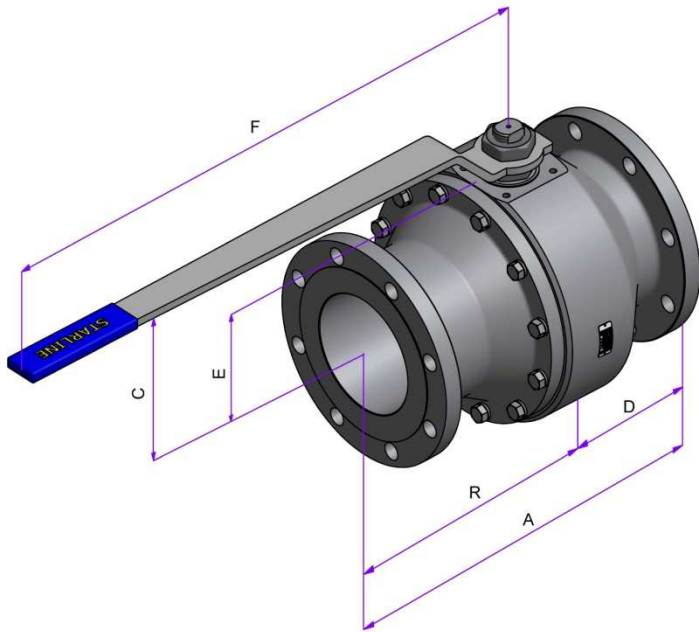




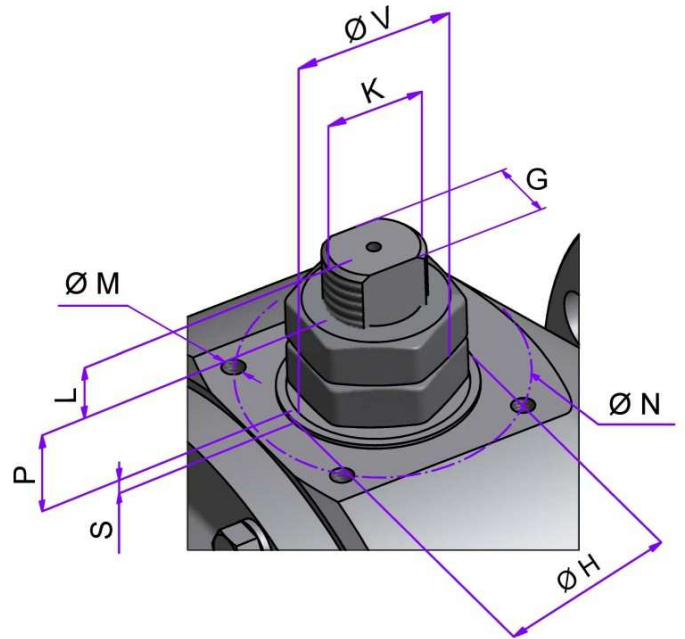
ITEM NO.	Q. TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
5	1	Antistatic stem	316/316L Dual Certified	316/316L Dual Certified	Special materials
6	1	Gland packing	316	316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1 <sup>Note1</sup>	"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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	8 <sup>Note2</sup>	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE

Note 1: Qty 2 for DN 200 - 8"

Note 2: Qty 10 for DN 150 - 6" PN 25, Qty 12 for DN 200 - 8"



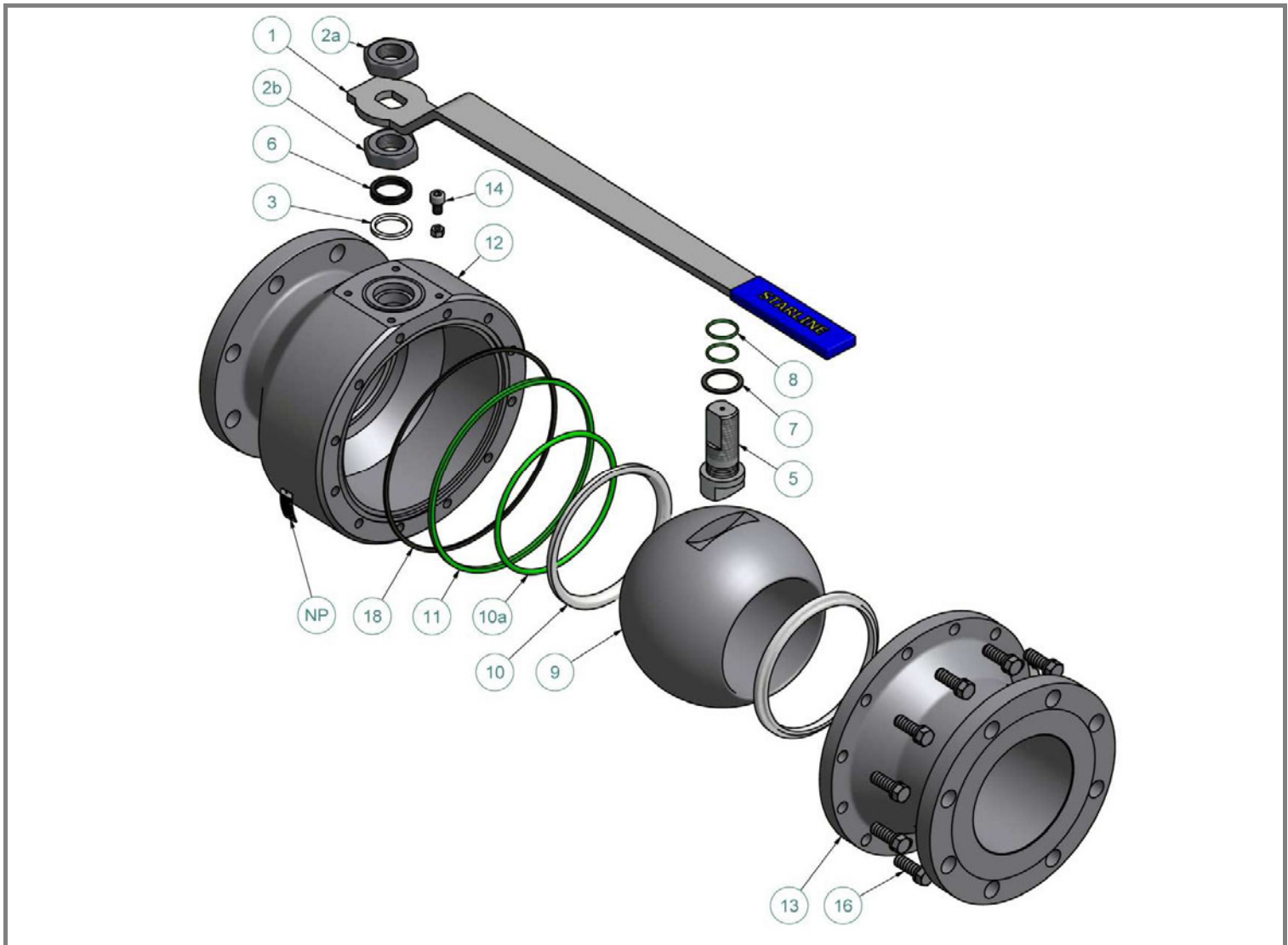
**RF**



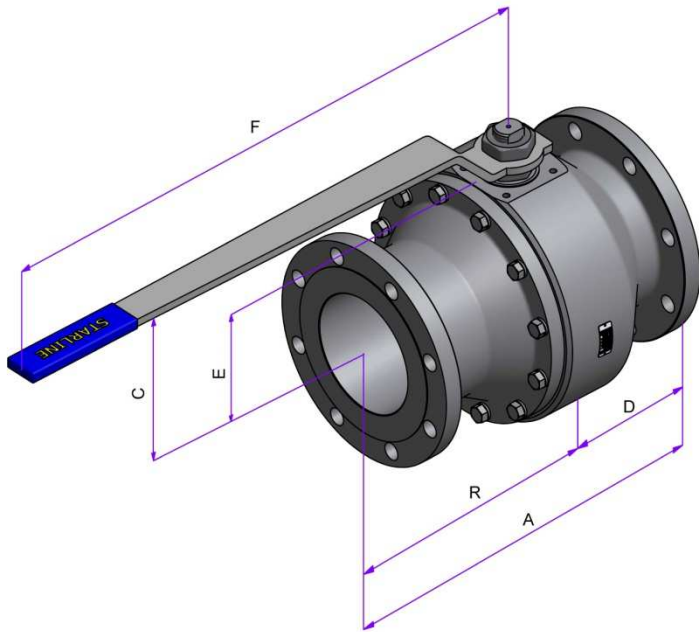
**TOP  
VIEW**

REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 25
6''x 4''	150 x 100	480	305	175	100	190	112.5	420	64
8''x 6''	200 x 150	600	400	200	150	263	151	700	120

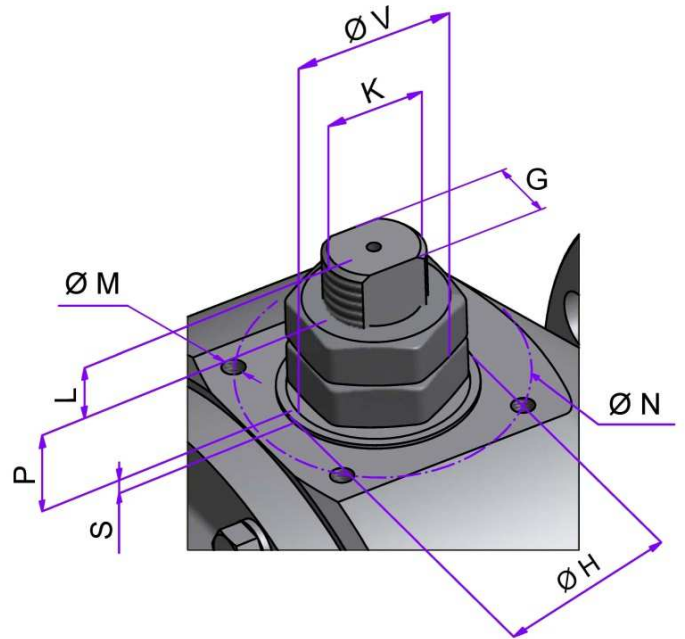
TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6''x 4''	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07
8''x 6''	200 x 150	29	31	1.5	63	M36x2	26	70	102	M10x15	F10



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
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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	10	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE



**RF**

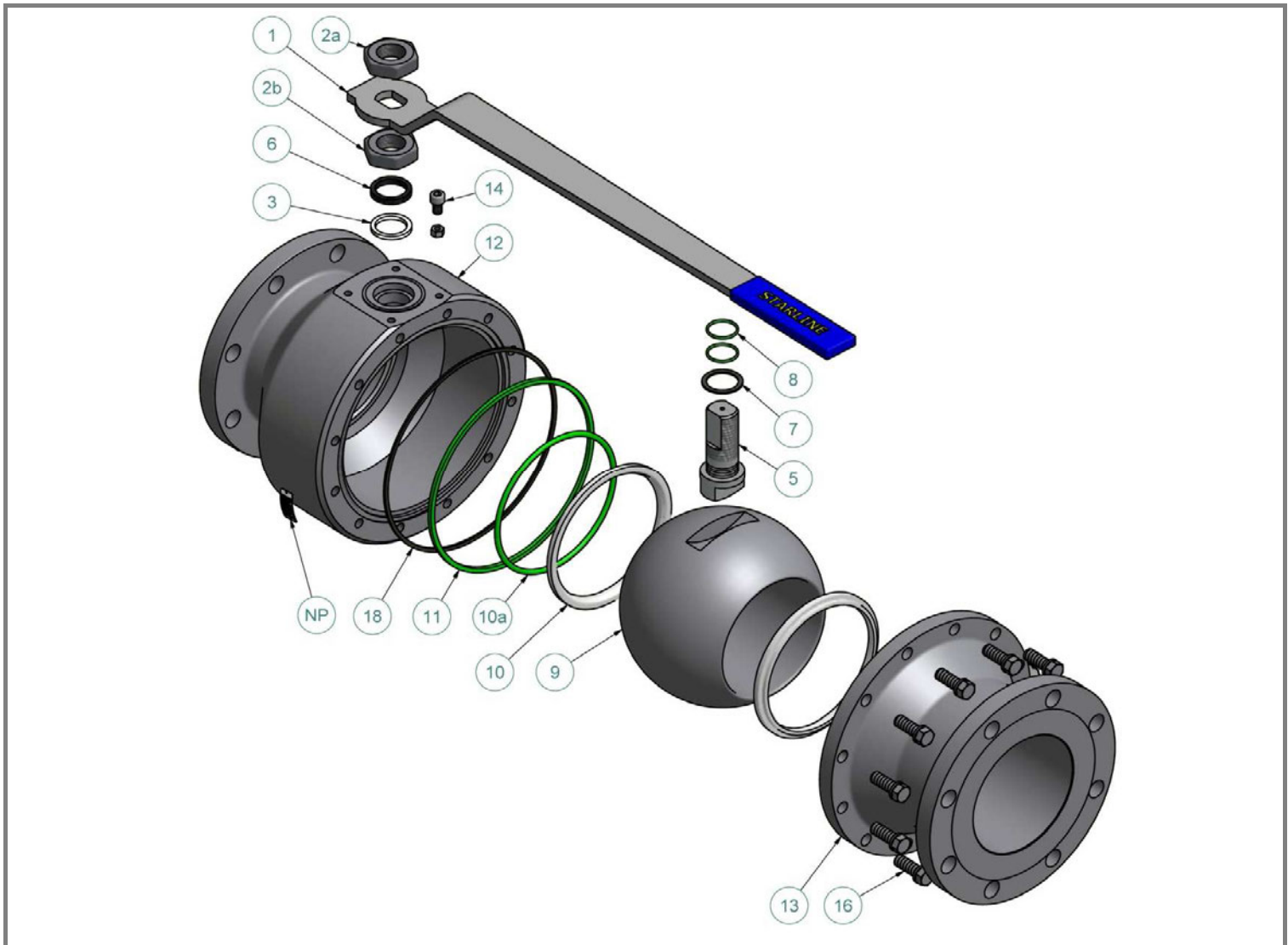


**TOP VIEW**

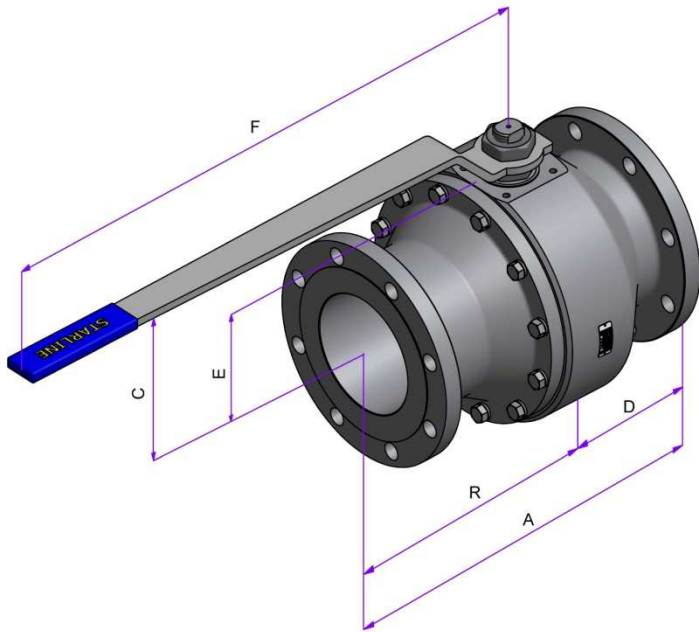
REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 40
6" x 4"	150 x 100	350	175	175	100	190	112.5	420	60

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6" x 4"	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07

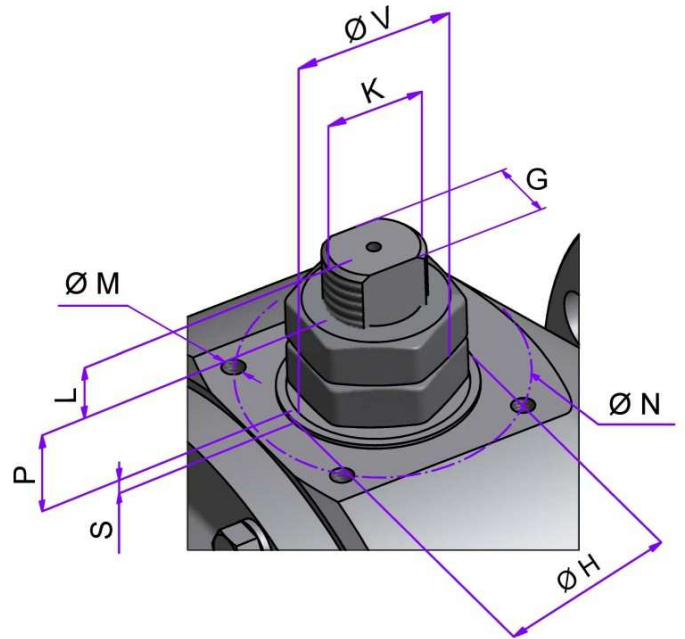




ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Plastic	Carbon Steel + Plastic	316
2a	2	Handle nuts	304	304	316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
5	1	Antistatic stem	316/316L Dual Certified	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	RPTFE	RPTFE	See seats and seals material table
10a	2	Seats gasket	Viton	Viton	See seats and seals material table
11	1	I° Body seals	RPTFE	RPTFE	See seats and seals material table
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	1	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	10	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
18	1	II° Body seals	Graphite	Graphite	Virgin PTFE



**RF**



**TOP VIEW**

REDUCED BORE									
VALVE SIZE		DIMENSIONS [ mm ]							WEIGHT [Kg]
NPS	DN	A	R	D	BORE	C	E	F	PN 10 ÷ 40
6" x 4"	150 x 100	480	305	175	100	190	112.5	420	68

TOP MOUNTING											
VALVE SIZE		DIMENSIONS [ mm ]									ISO 5211
NPS	DN	L	P	S	V	K	G	H	N	M	
6" x 4"	150 x 100	16	15.5	1.5	48	M24x2	18	55	70	M8x12	F07