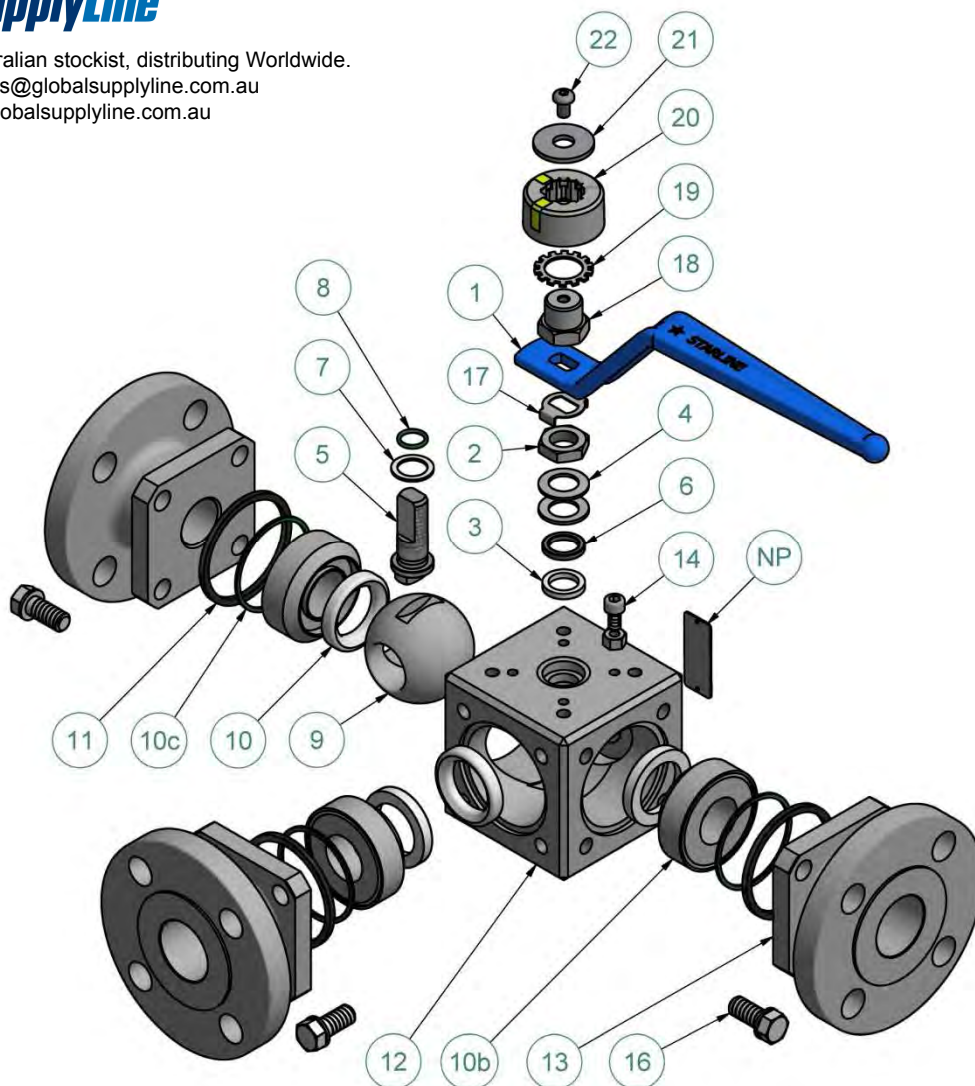


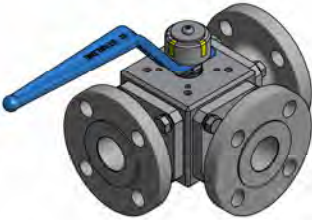
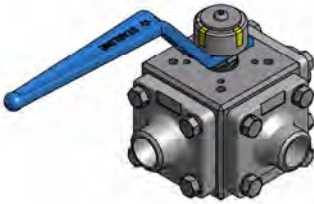
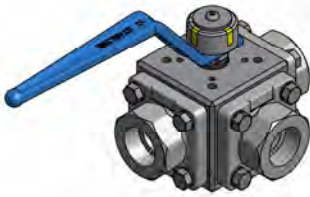


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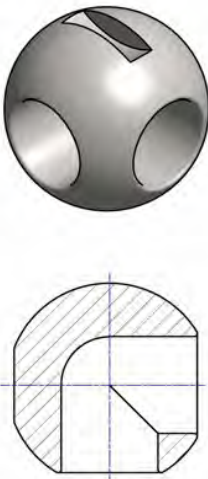
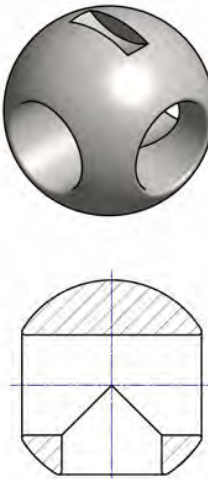
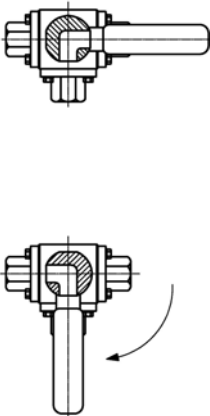
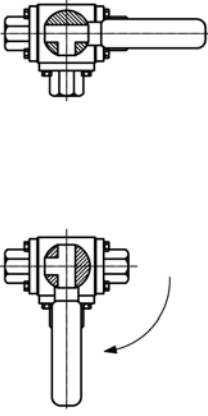


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2	1	Packing nut	304	304	316
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	316 Treated	316 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	****	“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	4	Seats	RPTFE	RPTFE	See seats and seals material table
10 b	3	Seats ring	LF2	316/316L Dual Certified	Special materials
10 c	3	Seat seals	Viton	Viton	See seats and seals material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	3	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	****	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	****	Stop Washer	304	304	316
18	1	Handle nut	304	304	316
19	1	Lock Washer	304	304	316
20	1	Position Indicator	Plastic	Plastic	
21	1	Washer	304	304	316
22	1	Screw	304	304	316

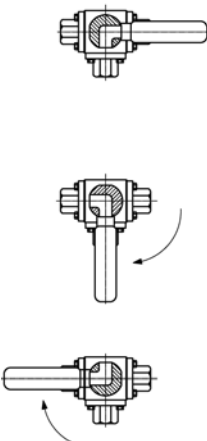
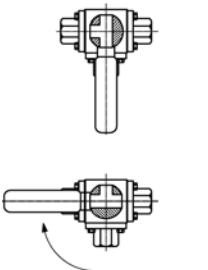
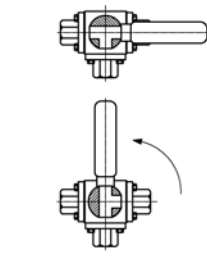
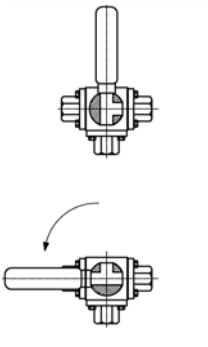
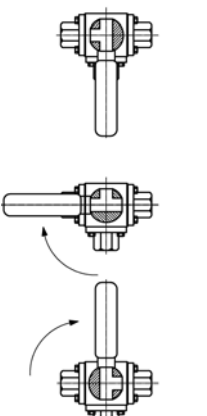
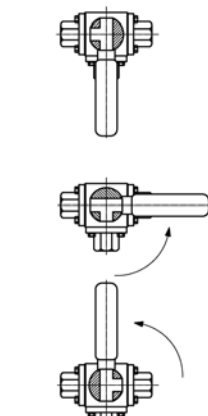
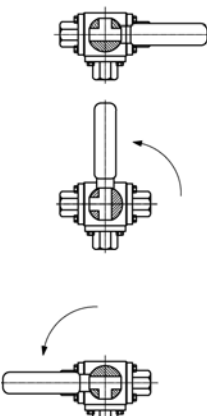
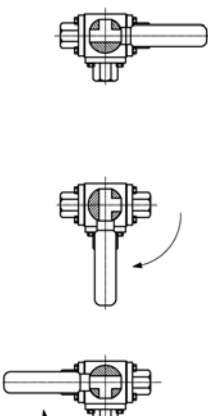
AVAILABLE CONNECTIONS

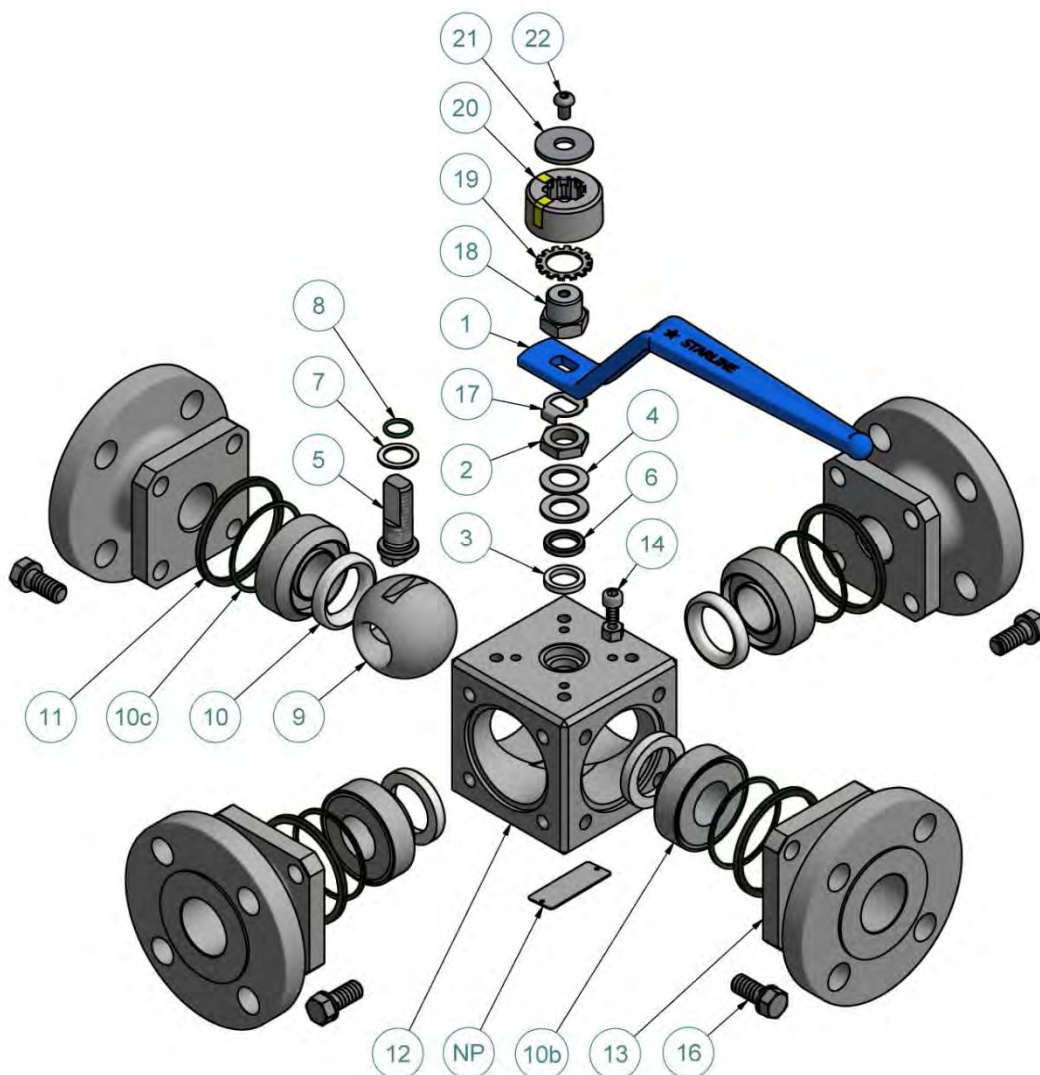
			
Flanged ASME - DIN	Screwed NPT - BSPP - BSPT	Welded BW	Welded SW

STANDARD CONFIGURATION

L-PORT	T-PORT
	
L2 - 90°	T5 - 90°
	

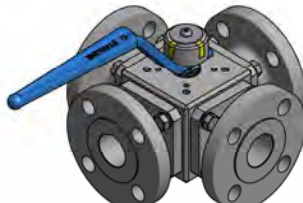
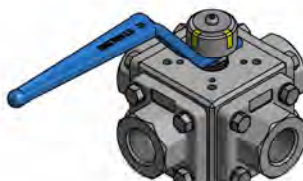
OTHER AVAILABLE CONFIGURATIONS

L1 - 180° <i>Nota1</i>	T4 - 90°	T3 - 90°	T6 - 90°
			
T1 - 180° <i>Nota1</i>	T2 - 180° <i>Nota1</i>	T7 - 180° <i>Nota1</i>	T9 - 180° <i>Nota1</i>
			

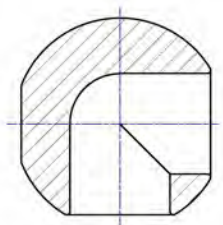
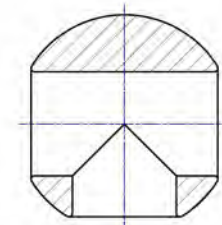
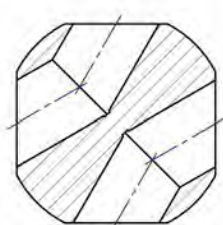
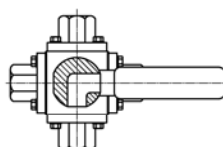
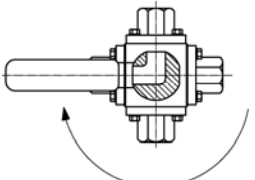
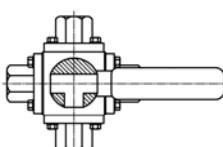
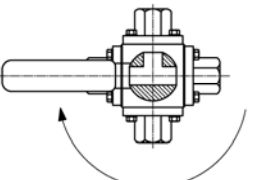
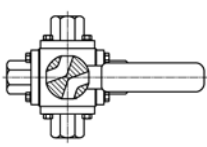
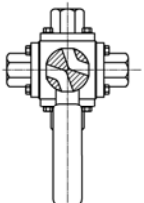


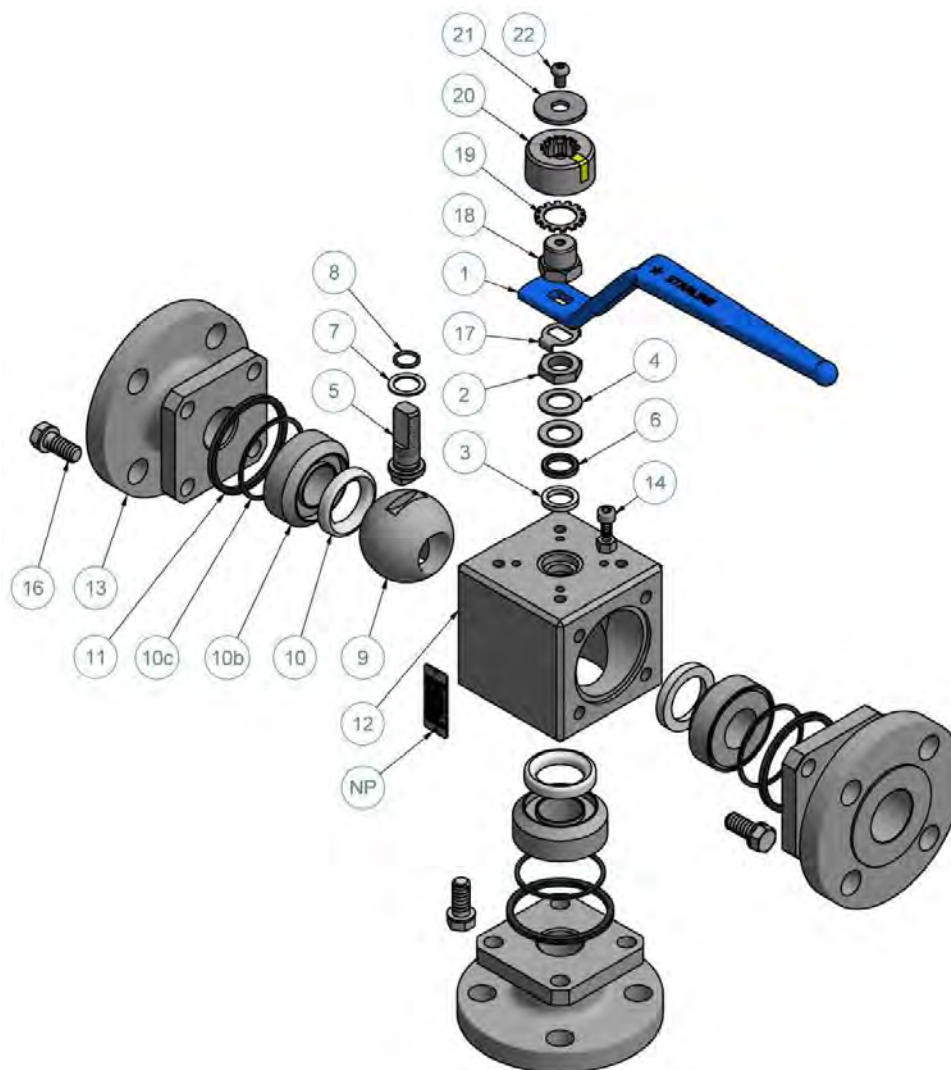
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	316	316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	316
2	1	Packing nut	304	304	316
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	316 Treated	316 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	****	“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	4	Seats	RPTFE	RPTFE	See seats and seals material table
10 b	4	Seats ring	LF2	316/316L Dual Certified	Special materials
10 c	4	Seat seals	Viton	Viton	See seats and seals material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	4	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	****	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	****	Stop Washer	304	304	316
18	1	Handle nut	304	304	316
19	1	Lock Washer	304	304	316
20	1	Position Indicator	Plastic	Plastic	
21	1	Washer	304	304	316
22	1	Screw	304	304	316

AVAILABLE CONNECTIONS

			
Flanged ASME - DIN	Screwed NPT - BSPP - BSPT	Welded BW	Welded SW

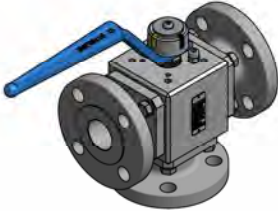
CONFIGURATIONS

 	 	 
L-PORT L7 - 180° Nota1	T-PORT T8 - 180° Nota1	X-PORT X - 90°
 	 	 



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
2	1	Packing nut	304	304	316
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	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	****	“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	4	Seats	RPTFE	RPTFE	See seats and seals material table
10 b	3	Seats ring	LF2	316/316L Dual Certified	Special materials
10 c	3	Seat seals	Viton	Viton	See seats and seals material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	316/316L Dual Certified	Special materials
13	3	End connections	LF2	316/316L Dual Certified	Special materials
14	1	Stop-pin	316	316	
16	****	Bolts	A320 L7 + Zinc Plated	A193 B8	Special materials
17	****	Stop Washer	304	304	316
18	1	Handle nut	304	304	316
19	1	Lock Washer	304	304	316
20	1	Position Indicator	Plastic	Plastic	
21	1	Washer	304	304	316
22	1	Screw	304	304	316

AVAILABLE CONNECTIONS

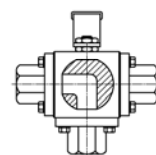
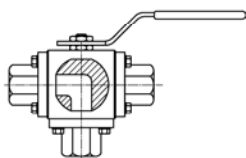
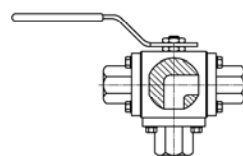
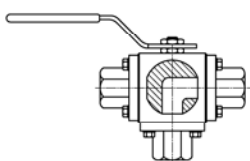
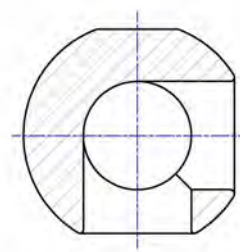
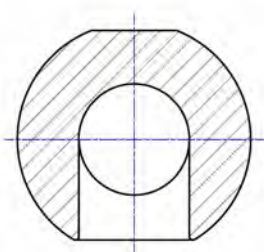
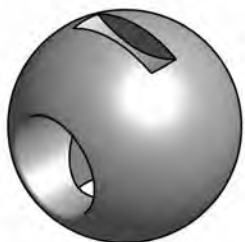
			
Flanged ASME - DIN	Screwed NPT - BSPP - BSPT	Welded BW	Welded SW

CONFIGURATIONS

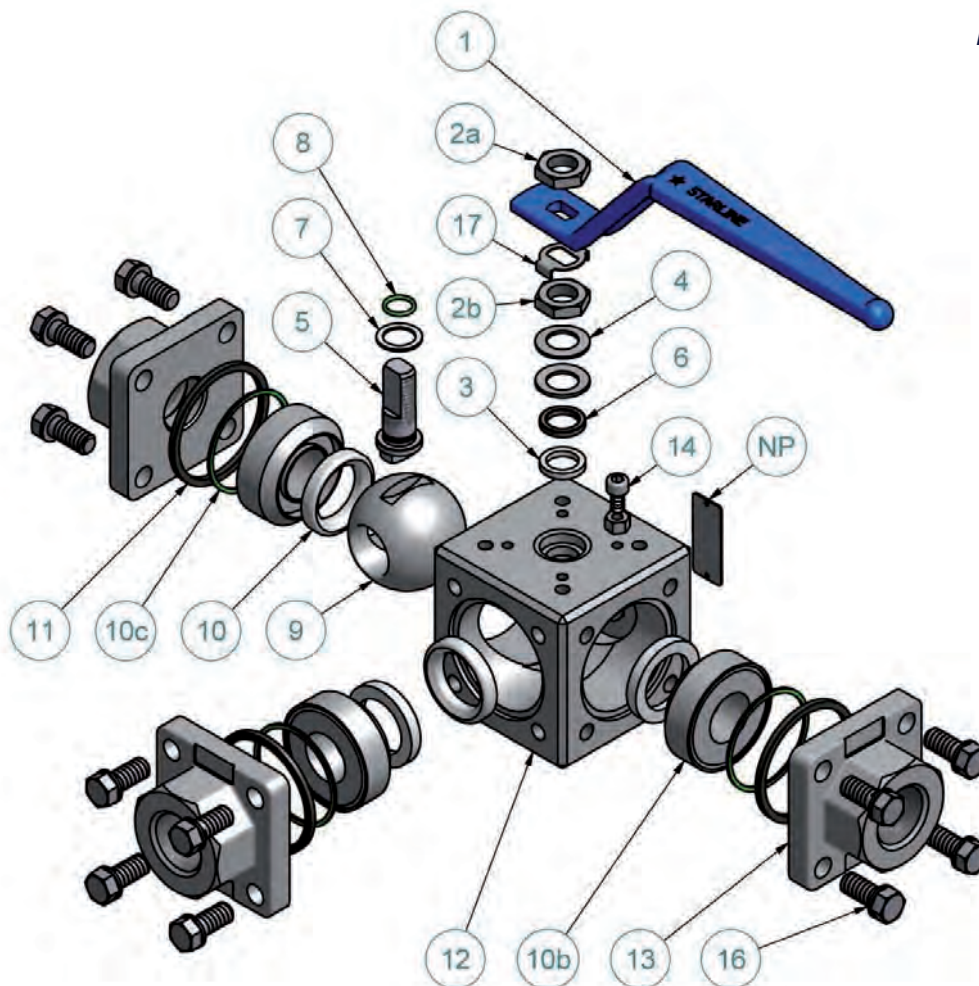
VERTICAL L-PORT

L4 - 180° Nota1

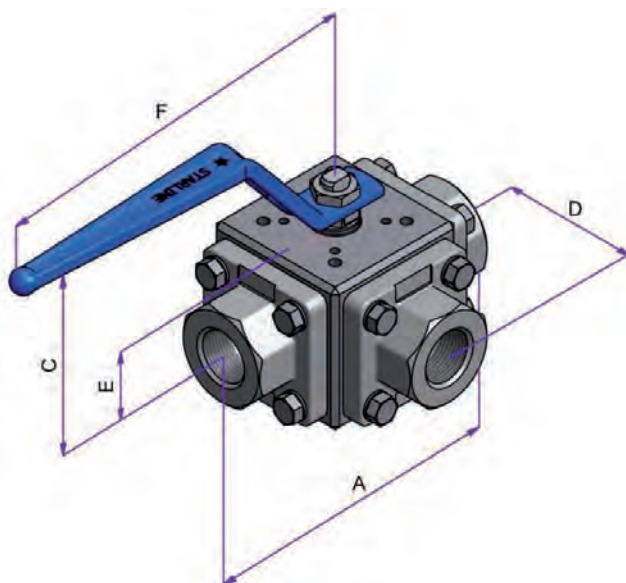
L5 - 90°



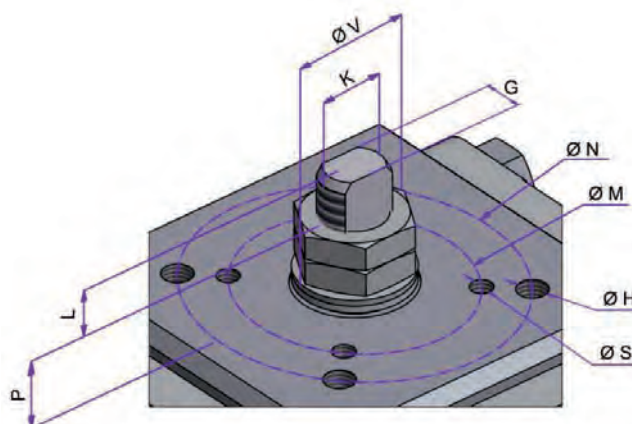
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT

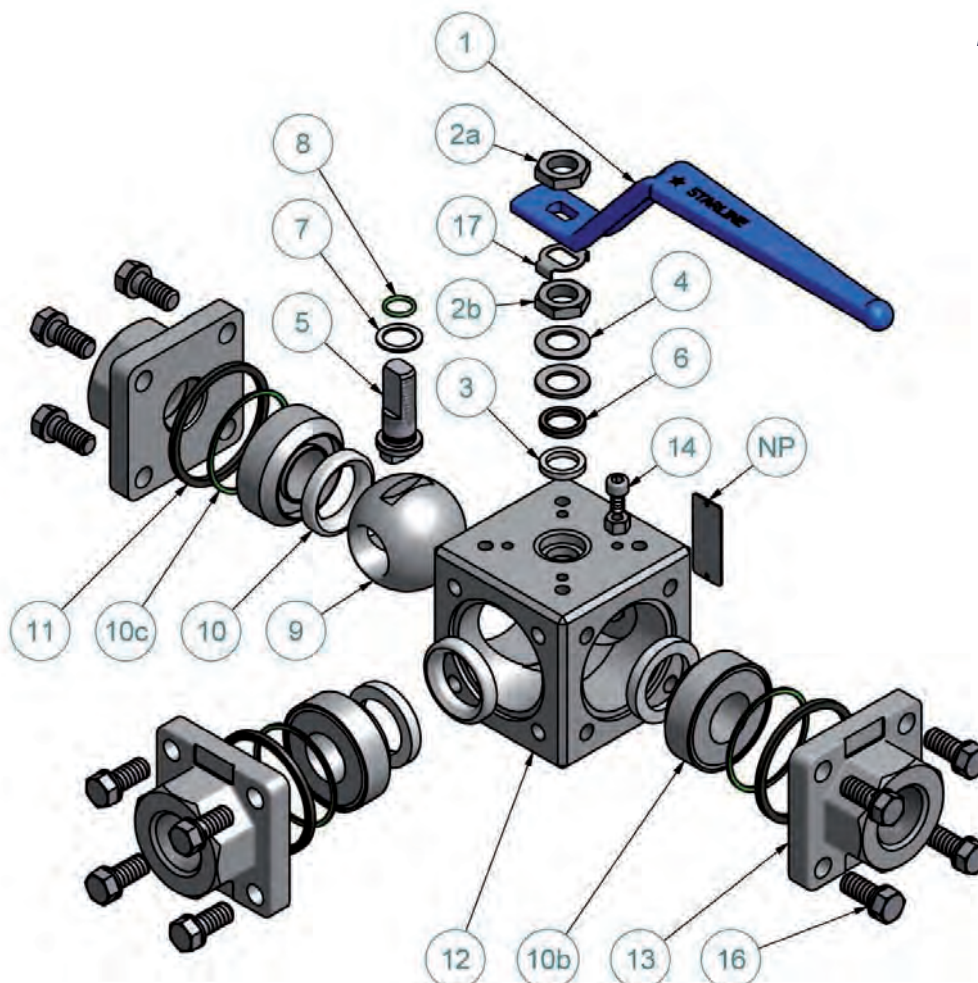


**TOP
VIEW**

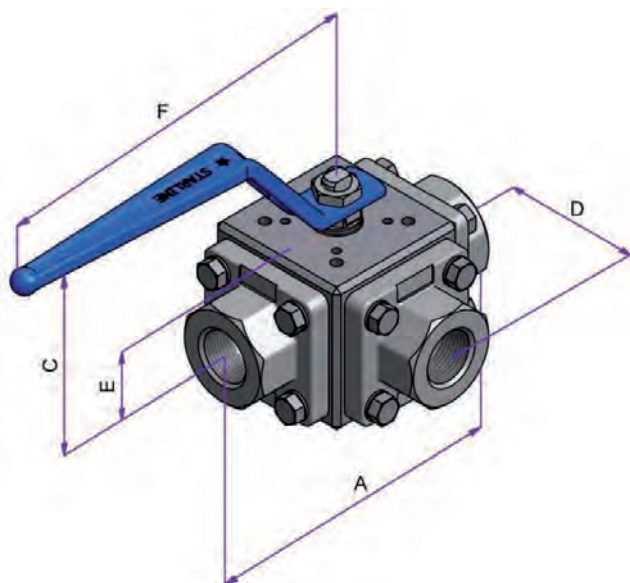
FULL BORE								
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1/4" x 1/4"	08 x 08	113	11.1	79	56.5	28.5	144	2.5
3/8" x 3/8"	10 x 10	113	11.1	79	56.5	28.5	144	2.5
1/2" x 1/2"	15 x 15	119	14.2	97	59.5	30	172.5	3
3/4" x 3/4"	20 x 20	150	21	102	75	39	172.5	4.9
1" x 1"	25 x 25	158	25.4	114	79	42.5	218	7.1

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4" x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

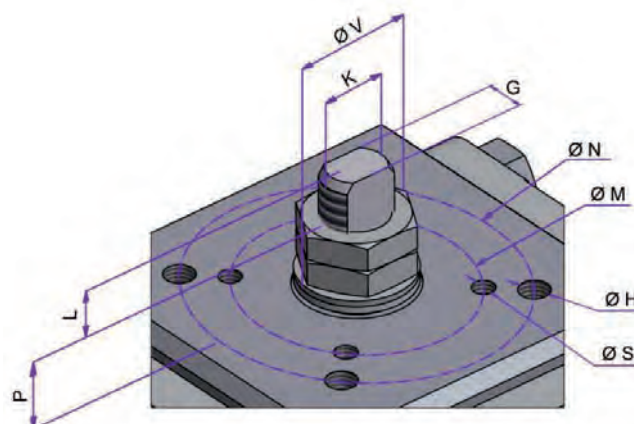
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT

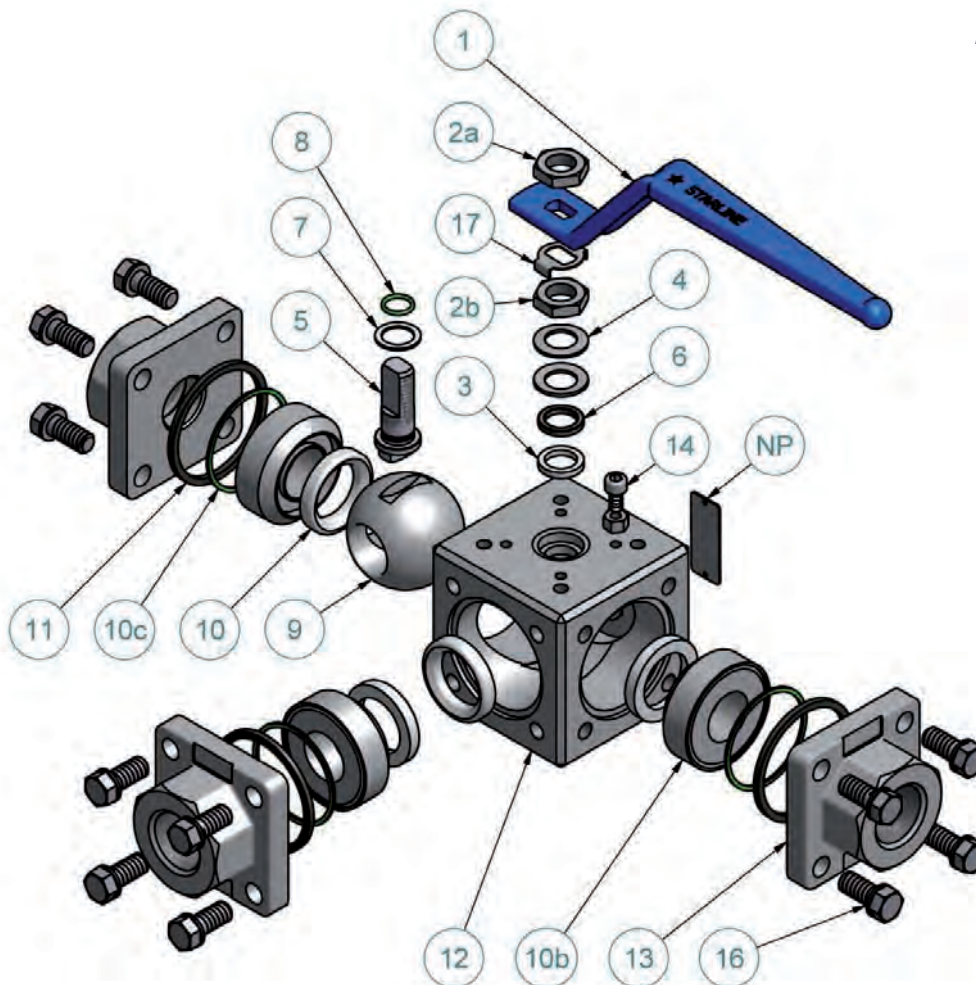


**TOP
VIEW**

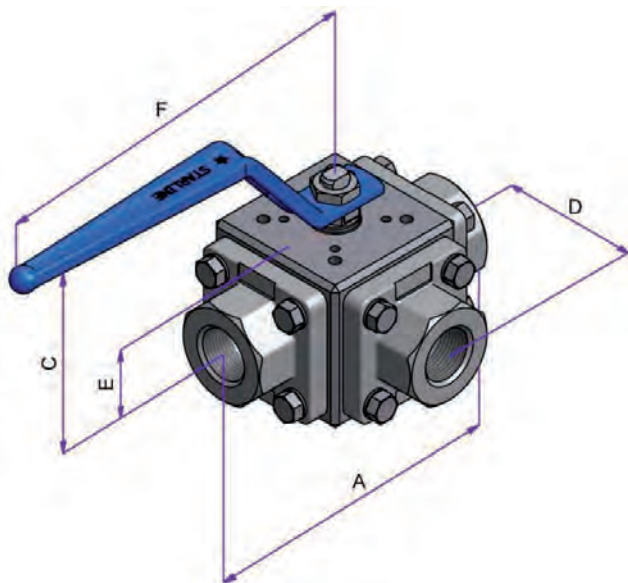
FULL BORE								
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1.1/4" x 1.1/4"	32 x 32	182	31.7	118	91	53	218	11.2
1.1/2" x 1.1/2"	40 x 40	201	38	126	100.5	56	218	13.9
2" x 2"	50 x 50	262	49	144	131	75	420	40
2.1/2" x 2.1/2"	65 x 65	423	63.5	157	211.5	95	420	67

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

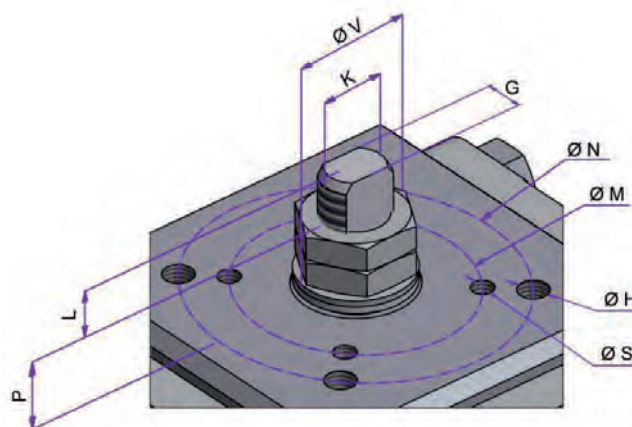
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

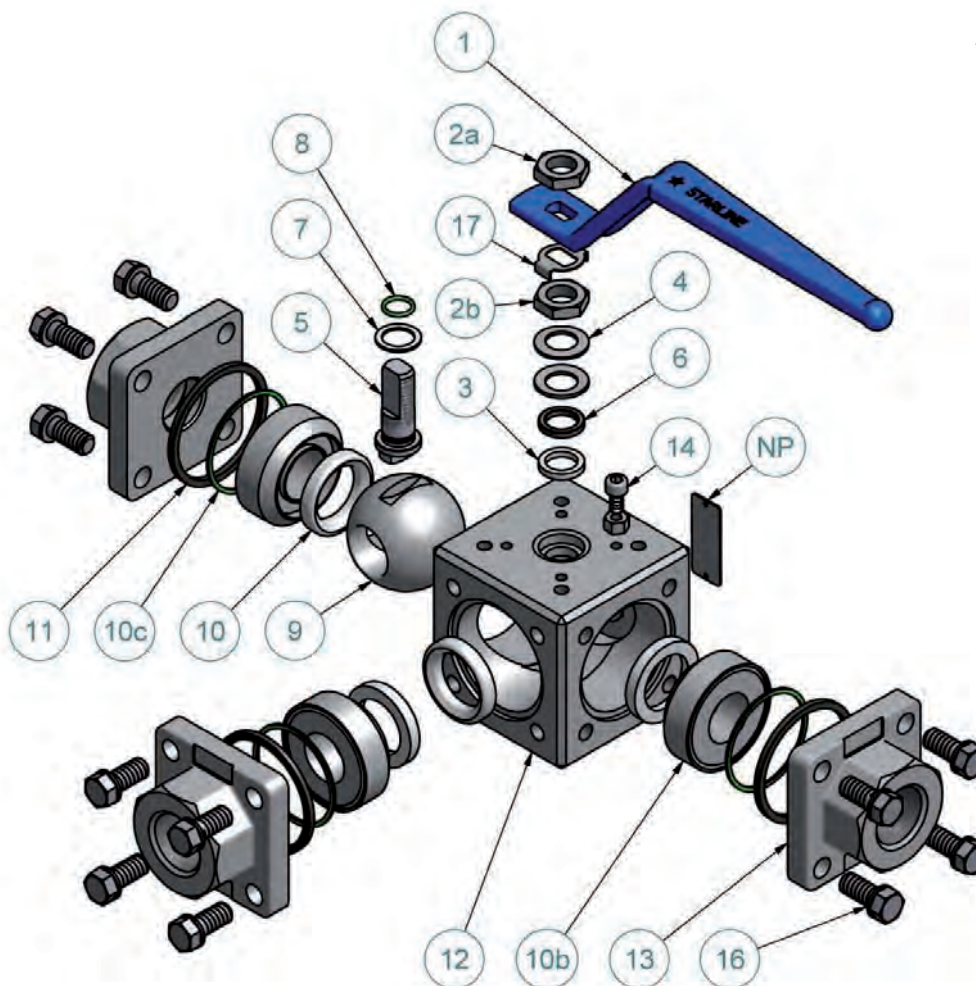
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1/2"x 3/8"	15 x 10	113	11.1	79	56.5	28.5	144	2.5
3/4"x 1/2"	20 x 15	119	14.2	97	59.5	30	172.5	3
1"x 3/4"	25 x 20	150	21	102	75	39	172.5	5
1.1/4"x 1"	32 x 25	158	25.4	114	79	42.5	218	6.7

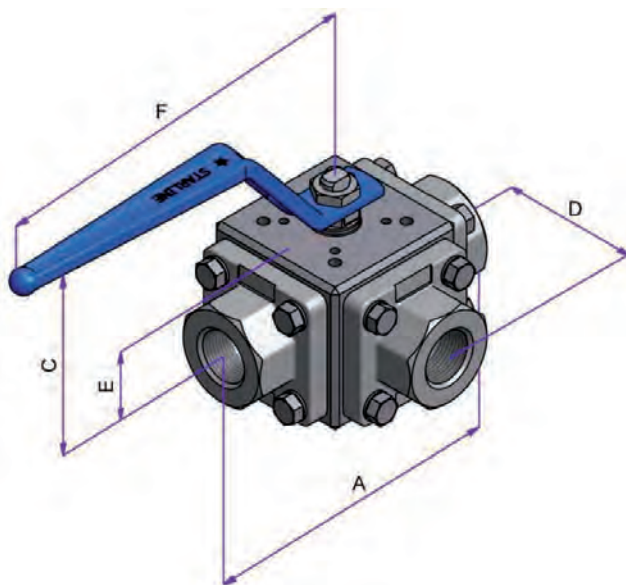
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

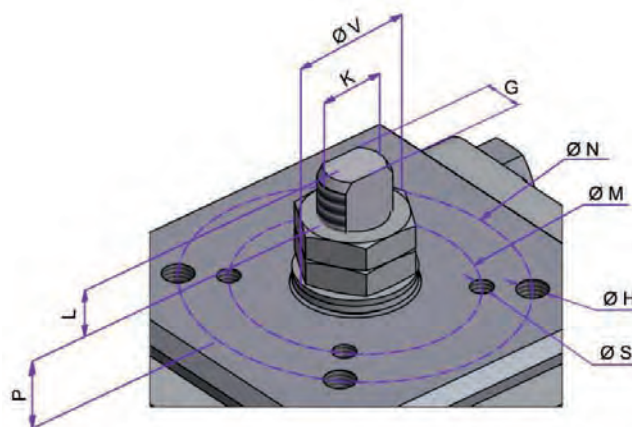
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

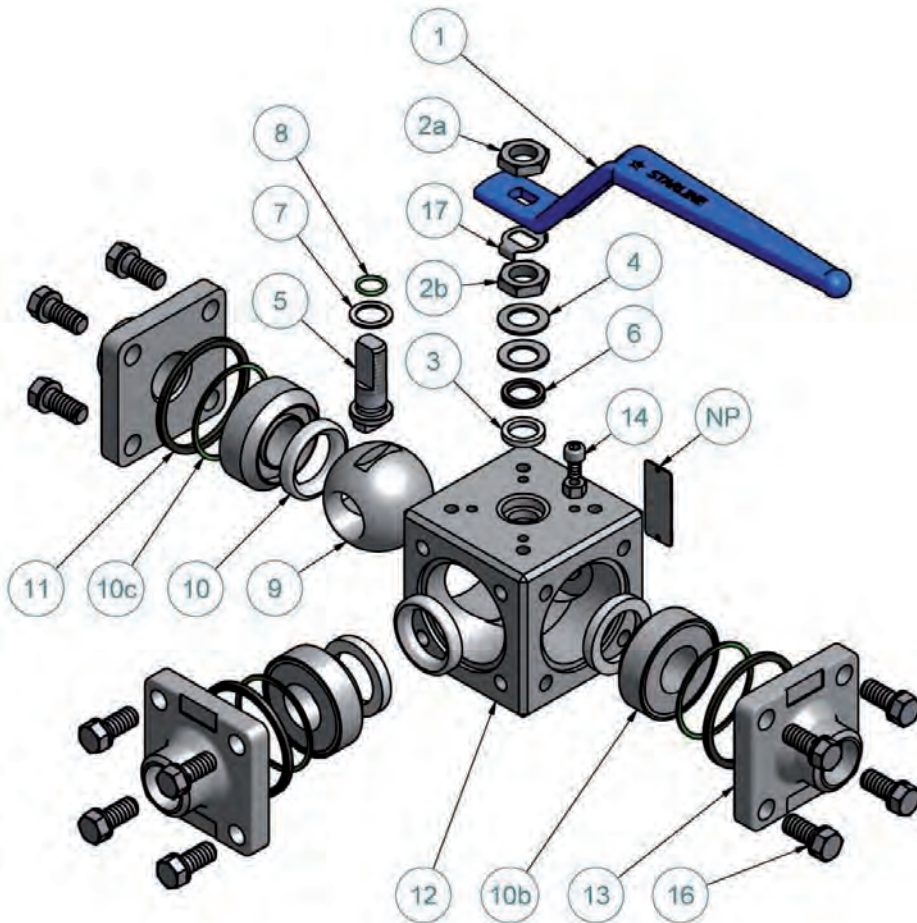
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1.1/2" x 1.1/4"	40 x 32	182	31.7	118	91	53	218	11
2" x 1.1/2"	50 x 40	201	38	126	100.5	56	218	13
2.1/2" x 2"	65 x 50	262	49	144	131	75	420	39.5
3" x 2.1/2"	80 x 65	423	63.5	157	211.5	95	420	68

TOP MOUNTING

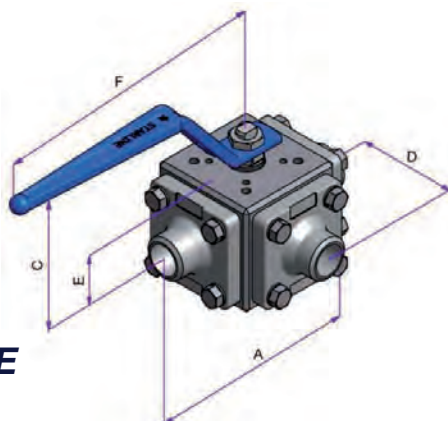
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

L - T PORT

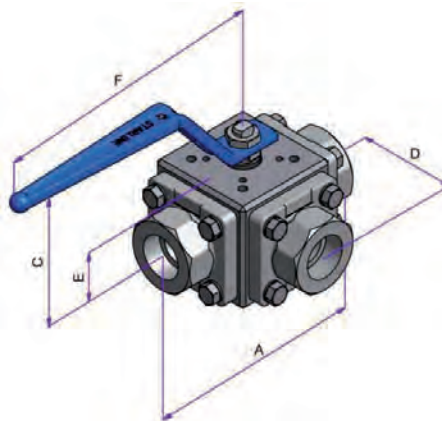


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	1” Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316

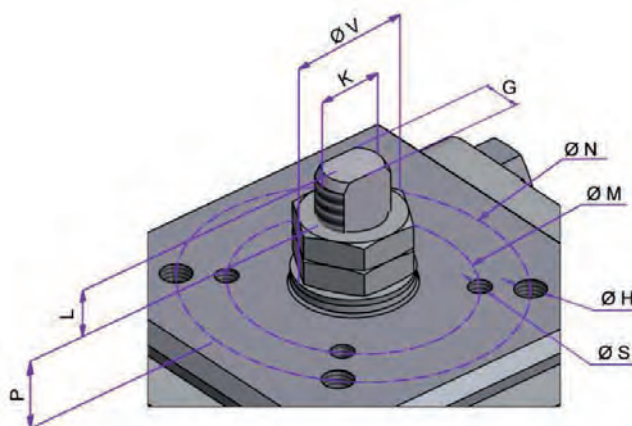
BW-PE



SW



TOP VIEW



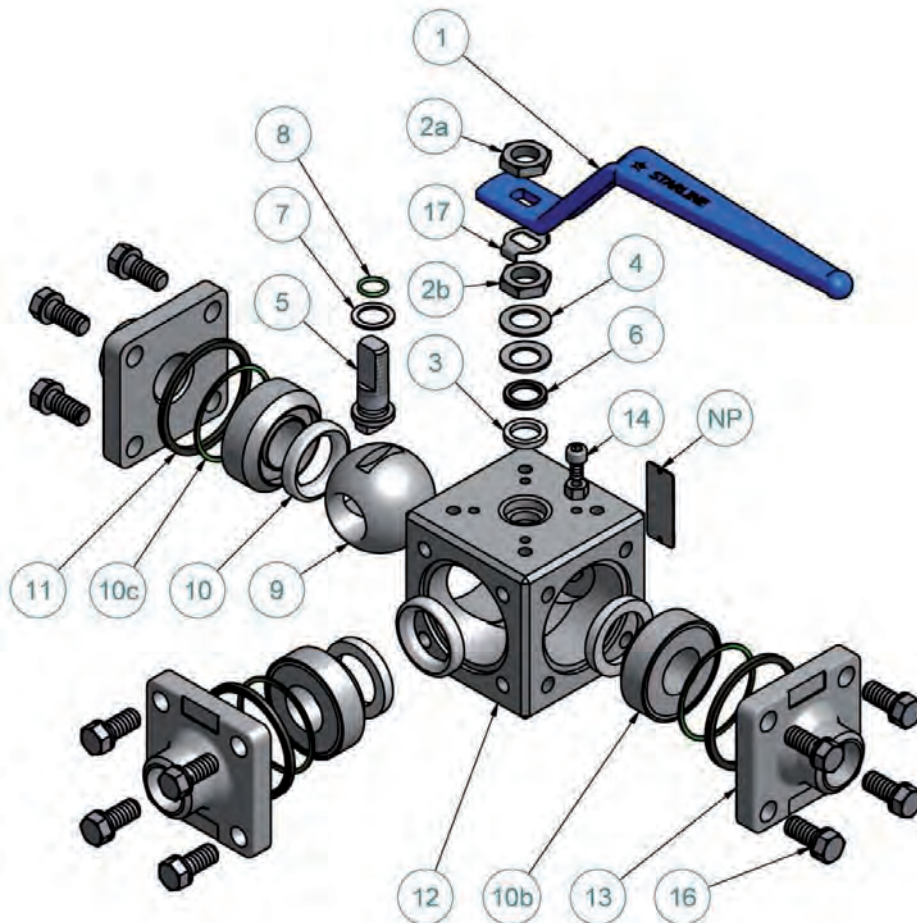
FULL BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1/4"x 1/4"	08 x 08	113	113	11.1	79	56.5	28.5	144	2.5	2.5
3/8"x 3/8"	10 x 10	113	113	11.1	79	56.5	28.5	144	2.5	2.5
1/2"x 1/2"	15 x 15	119	119	14.2	97	59.5	30	172.5	3	3
3/4"x 3/4"	20 x 20	150	150	21	102	75	39	172.5	4.9	4.9
1"x 1"	25 x 25	158	158	25.4	114	79	42.5	218	7.1	7.1

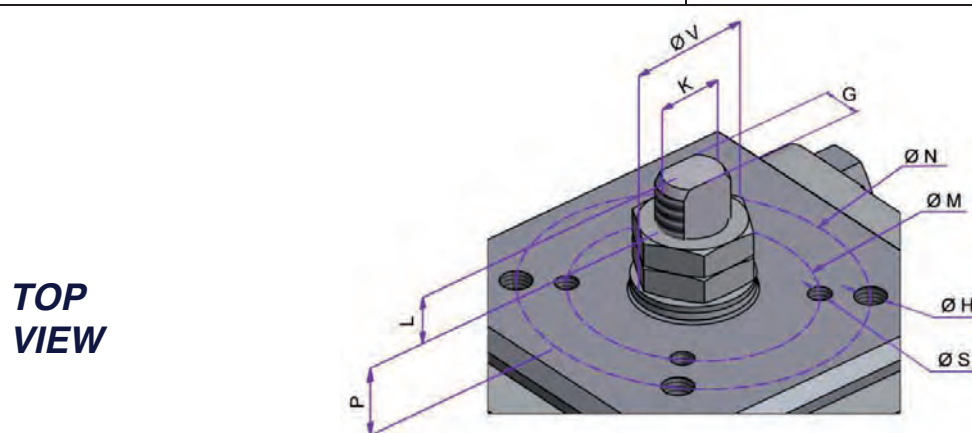
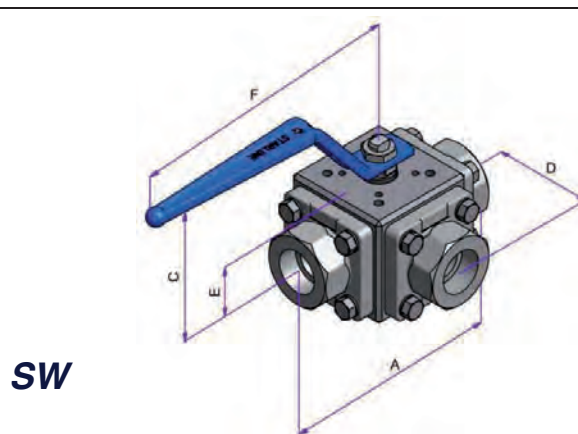
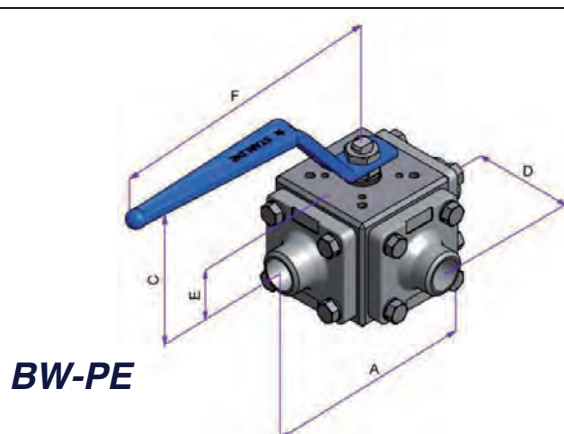
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4"x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

L - T PORT



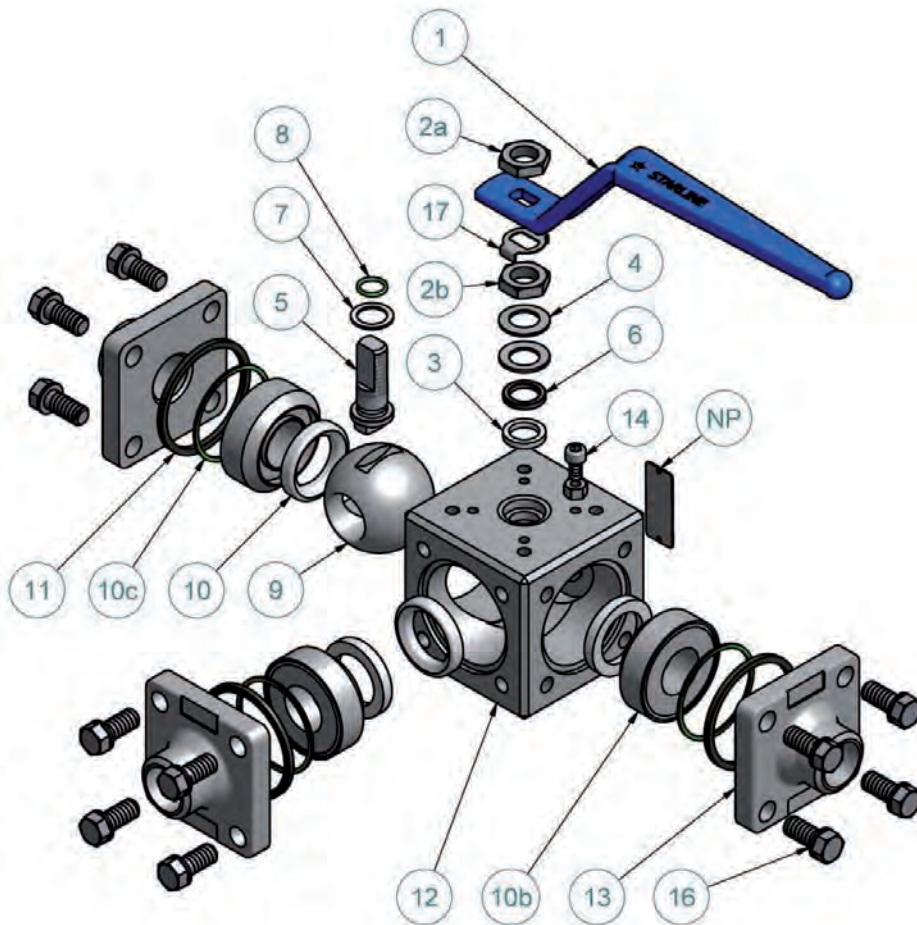
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



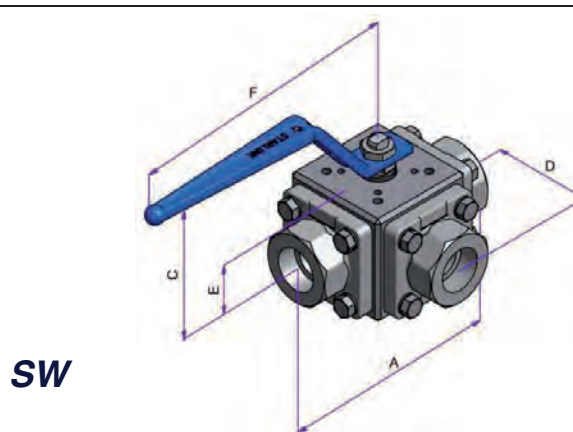
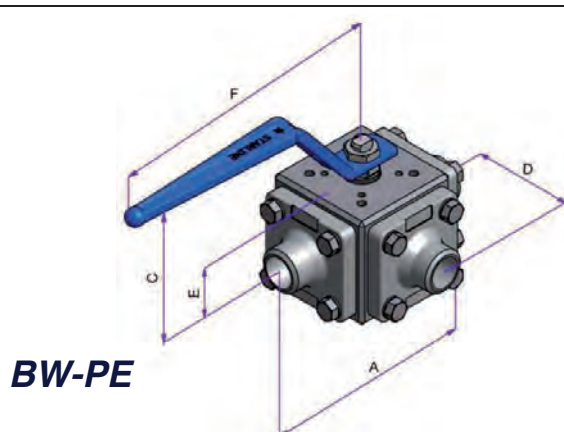
FULL BORE										
VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1.1/4" x 1.1/4"	32 x 32	182	182	31.7	118	91	53	218	11.2	11.2
1.1/2" x 1.1/2"	40 x 40	201	201	38	126	100.5	56	218	13.9	13.9
2" x 2"	50 x 50	302	302	49	144	131	75	420	40	40
2.1/2" x 2.1/2"	65 x 65	423	423	63.5	157	211.5	95	420	67	67

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

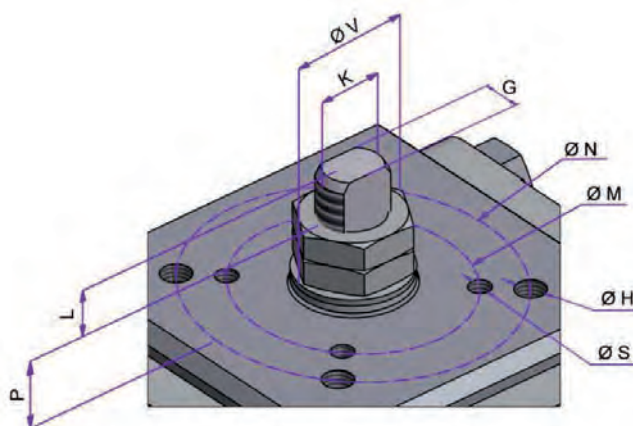
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



**TOP
VIEW**



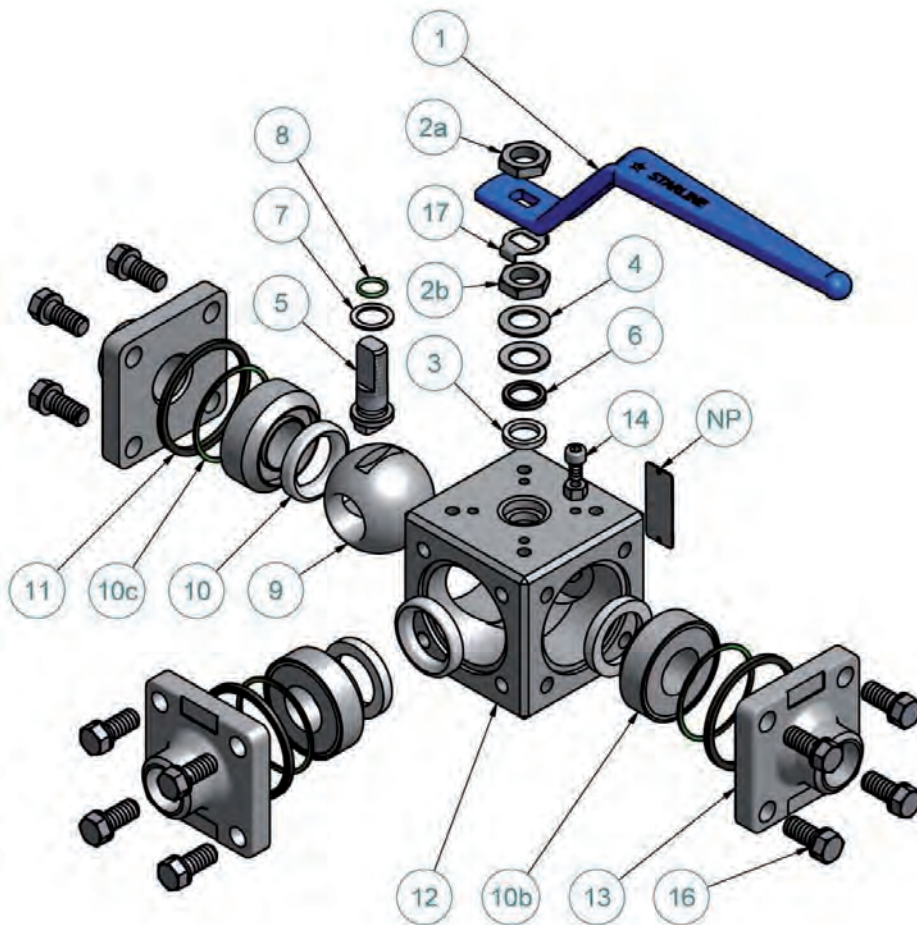
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1/2"x 3/8"	15 x 10	113	113	11.1	79	56.5	28.5	144	2.5	2.5
3/4"x 1/2"	20 x 15	119	119	14.2	97	59.5	30	172.5	3	3
1"x 3/4"	25 x 20	150	150	21	102	75	39	172.5	5	5
1.1/4"x 1"	32 x 25	158	158	25.4	114	79	42.5	218	6.7	6.7

TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

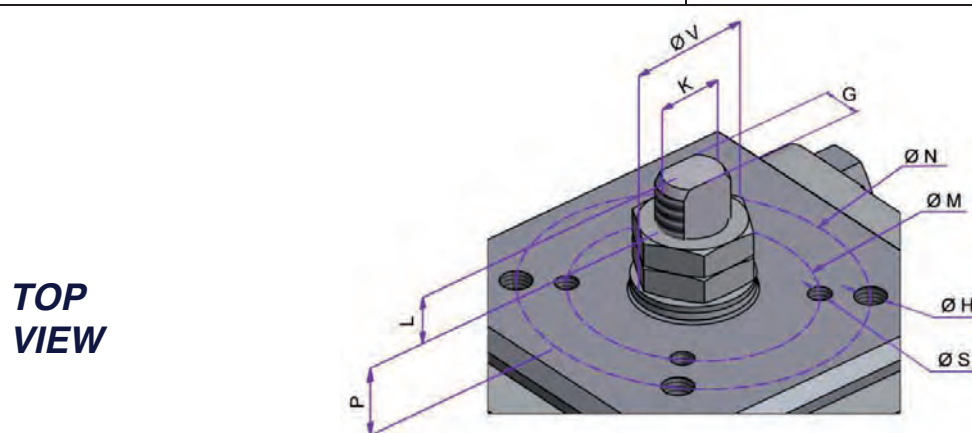
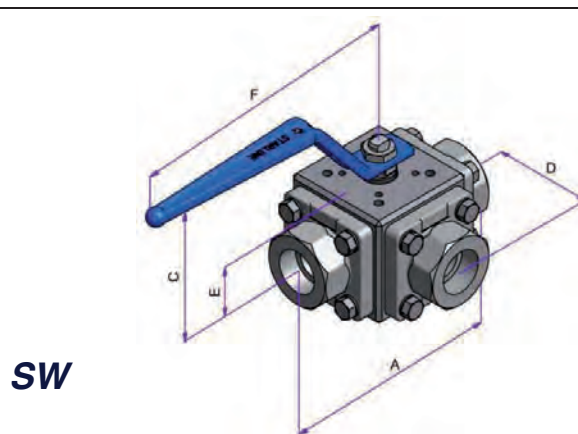
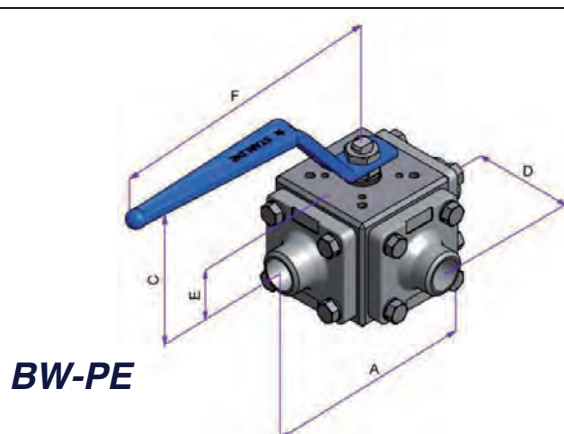
L - T PORT



<i>ITEM NO.</i>	<i>Q.TY</i>	<i>PART NAME</i>	<i>MATERIAL (LF2/316)</i>	<i>MATERIAL (316/316)</i>	<i>OPTIONS AVAILABLE</i>
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

 **RECOMMENDED SPARE PARTS FOR START-UP OR COMMISSIONING**
See technical data 5000 for available port configurations.

Technical data 5080
Rev. 0



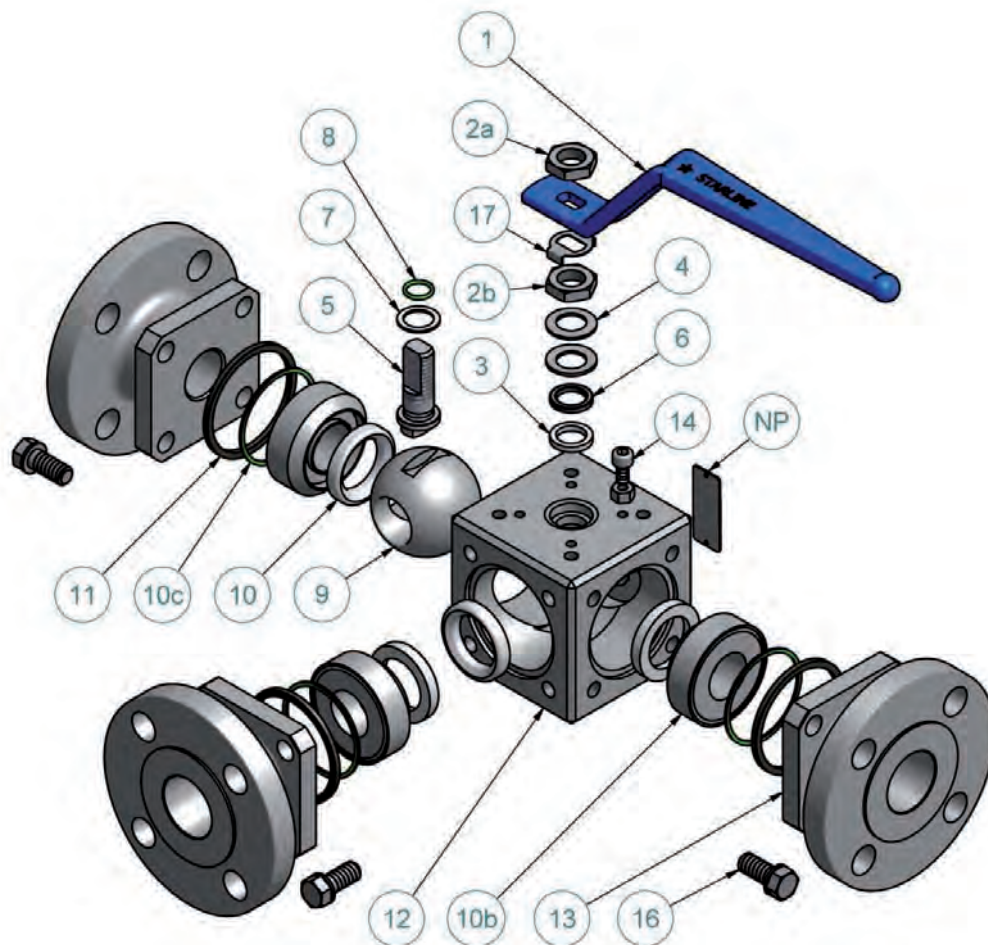
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1.1/2"x 1.1/4"	40 x 32	182	182	31.7	118	91	53	218	11	11
2"x 1.1/2"	50 x 40	201	201	38	126	100.5	56	218	13	13
2.1/2"x 2"	65 x 50	302	302	49	144	131	75	420	39.5	39.5
3"x 2.1/2"	80 x 65	423	423	63.5	157	211.5	95	420	68	68

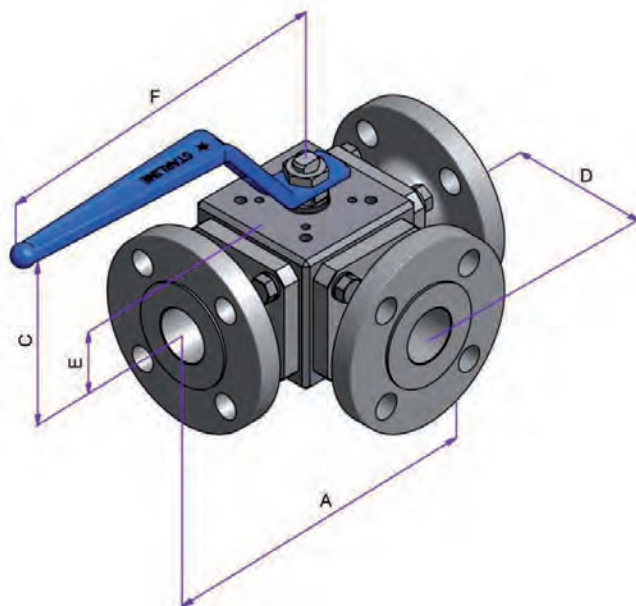
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

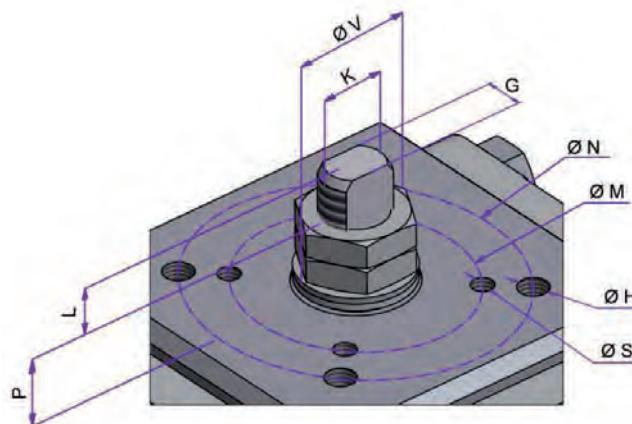
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

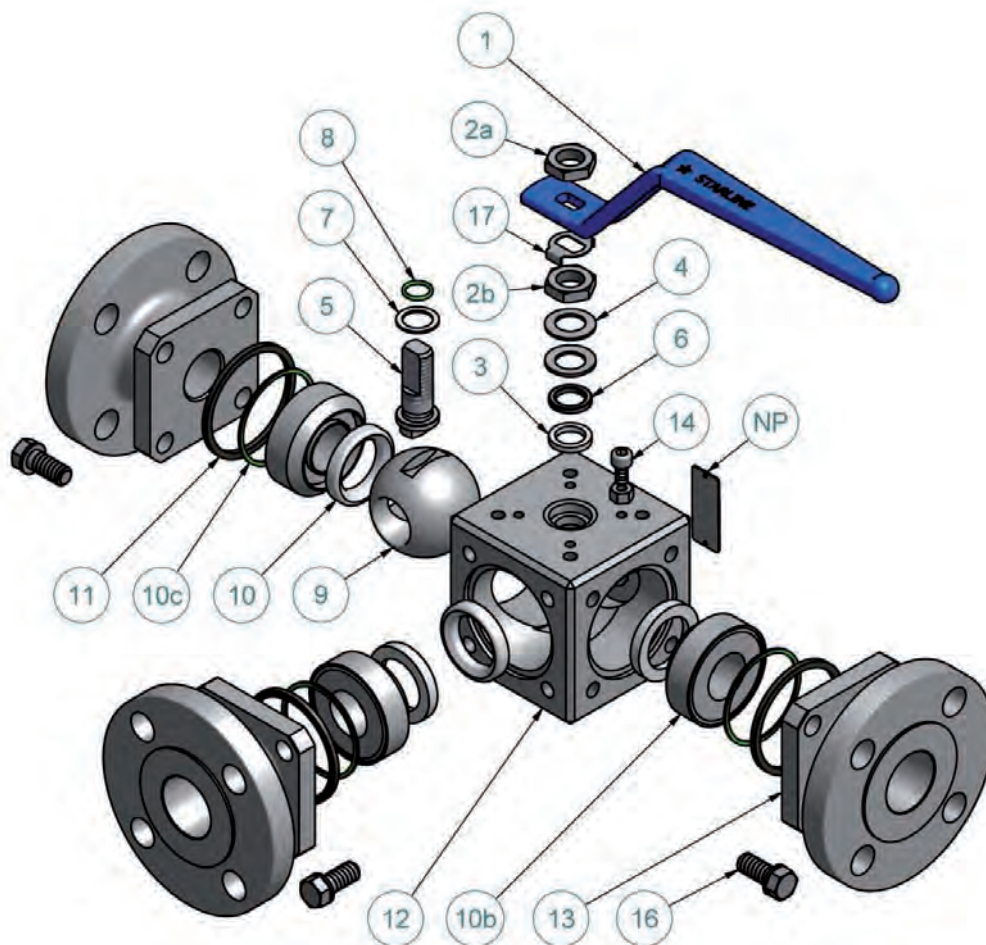
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 1/2"	15 x 15	179	14.2	97	89.5	30	172.5	3.5
3/4" x 3/4"	20 x 20	202	21	102	101	39	172.5	8
1" x 1"	25 x 25	213	25.4	114	106.5	42.5	218	10
1.1/4" x 1.1/4"	32 x 32	240	31.7	118	120	53	218	13
1.1/2" x 1.1/2"	40 x 40	252	38	126	126	56	218	17
2" x 2"	50 x 50	320	49	144	160	75	420	42
2.1/2" x 2.1/2"	65 x 65	359	63.5	157	179.5	95	420	69

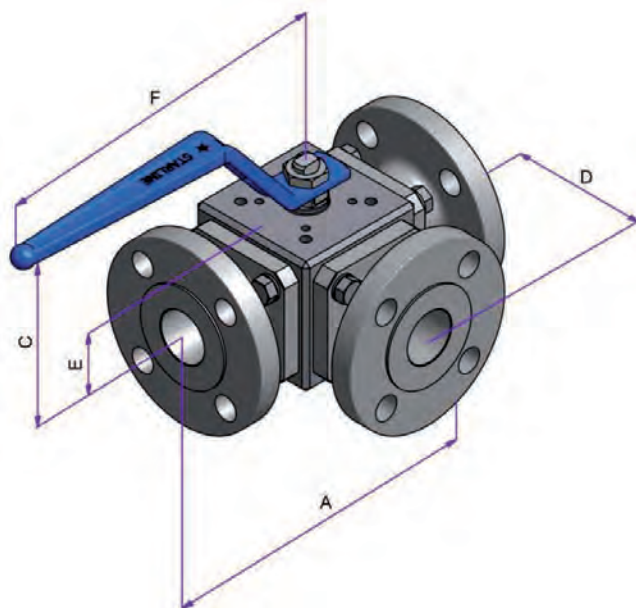
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

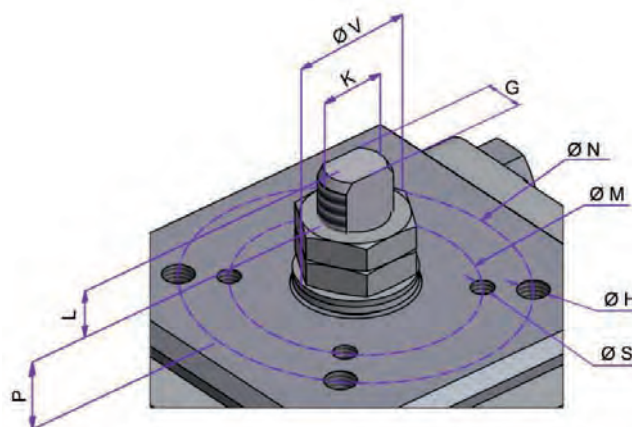
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

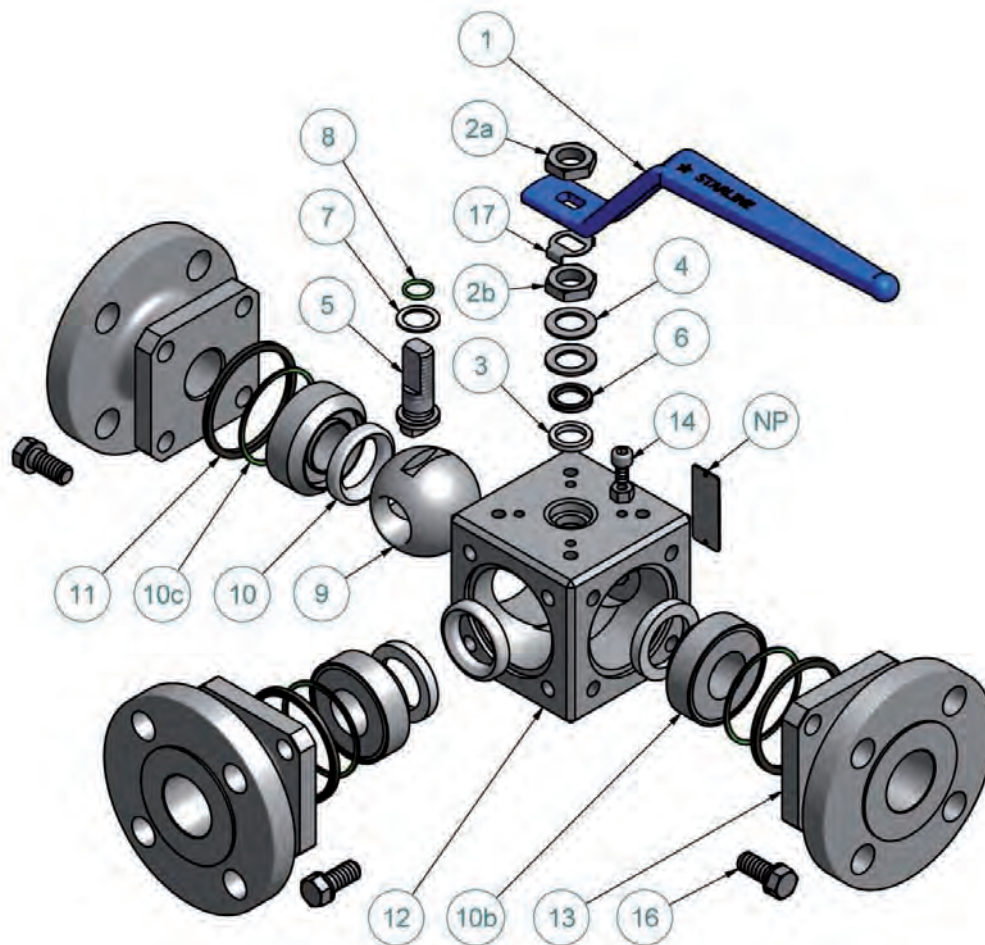
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2"x 3/8"	15 x 10	146	11.1	79	73	28.5	144	2.5
3/8"x 1/2"	20 x 15	156.5	14.2	97	78.25	30	172.5	3.5
1"x 3/4"	25 x 20	177	21	102	88.5	39	172.5	7.5
1.1/4"x 1"	32 x 25	188	25.4	114	94	42.5	218	10.5
1.1/2"x 1.1/4"	40 x 32	227	31.7	118	113.5	53	218	13.3
2"x 1.1/2"	50 x 40	239	38	126	119.5	56	218	17.2
2.1/2"x 2"	65 x 50	295	49	144	147.5	75	420	41.5
3"x 2.1/2"	80 x 65	321	63.5	157	160.5	95	420	70

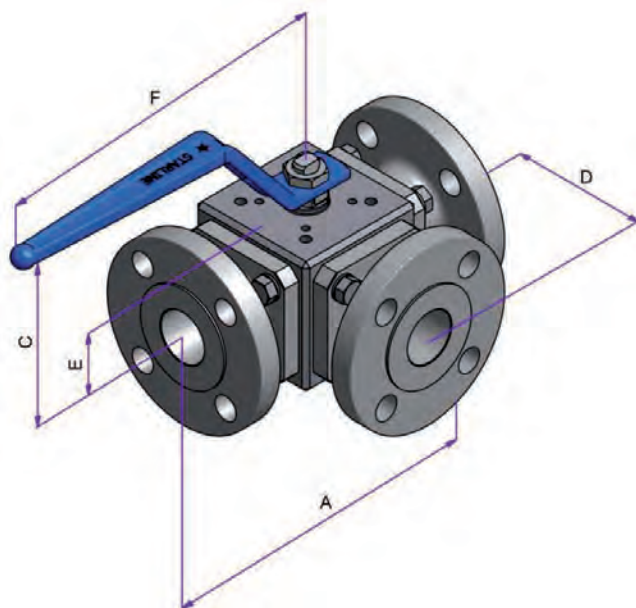
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

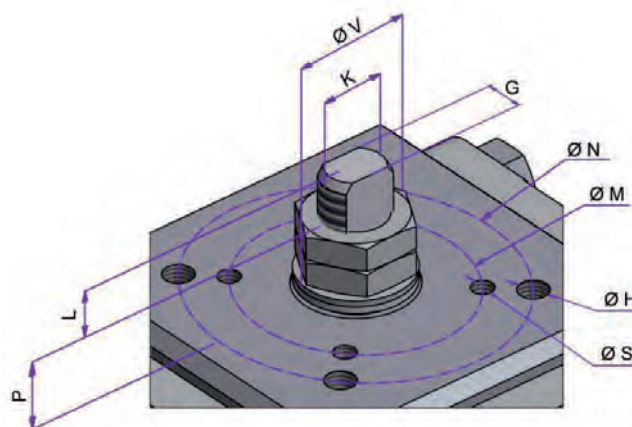
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

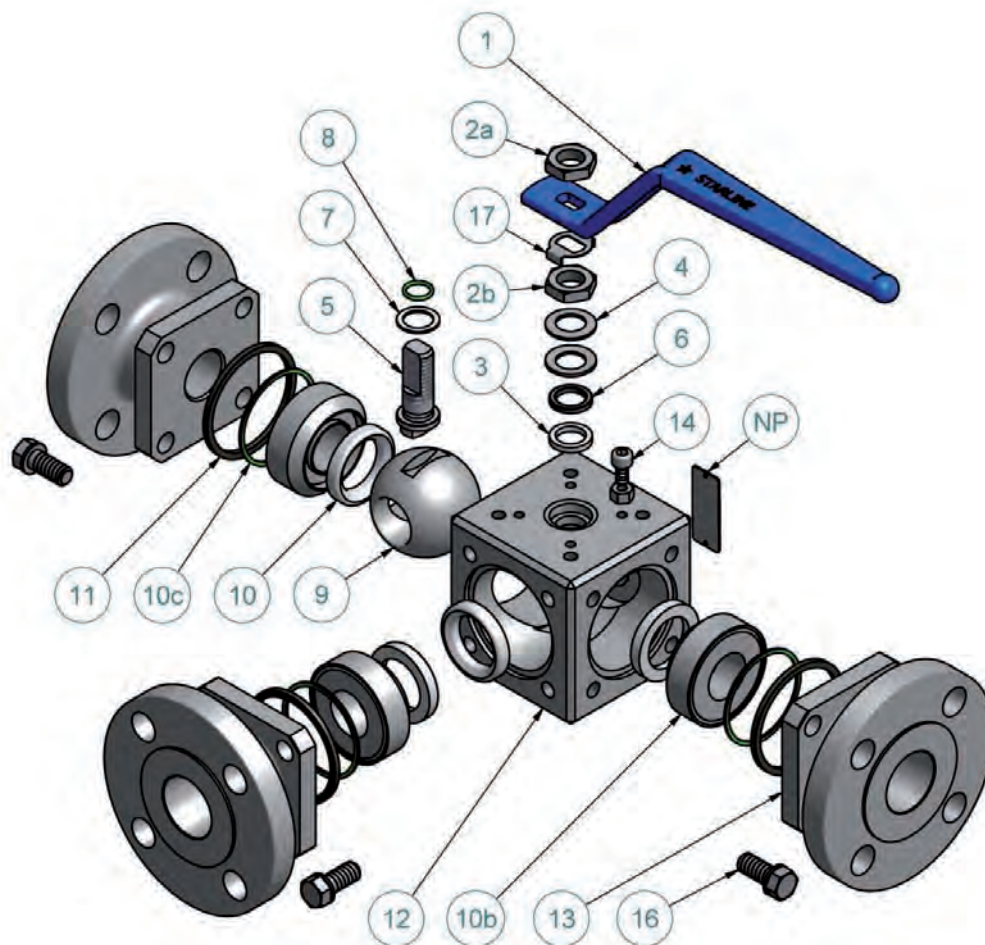
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 1/2"	15 x 15	179	14.2	97	89.5	30	172.5	4
3/4" x 3/4"	20 x 20	202	21	102	101	39	172.5	8.5
1" x 1"	25 x 25	213	25.4	114	106.5	42.5	218	11.8
1.1/4" x 1.1/4"	32 x 32	240	31.7	118	120	53	218	15
1.1/2" x 1.1/2"	40 x 40	252	38	126	126	56	218	20
2" x 2"	50 x 50	320	49	144	160	75	420	43
2.1/2" x 2.1/2"	65 x 65	359	63.5	157	179.5	95	420	70

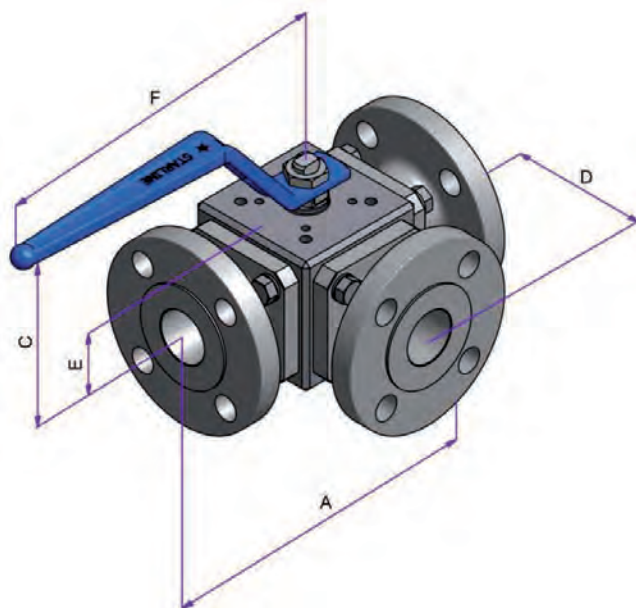
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

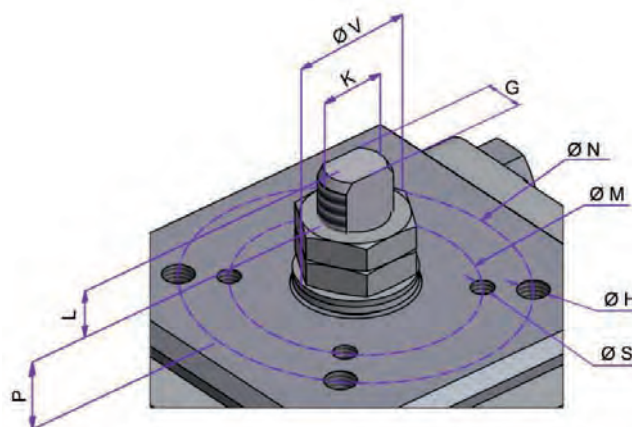
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

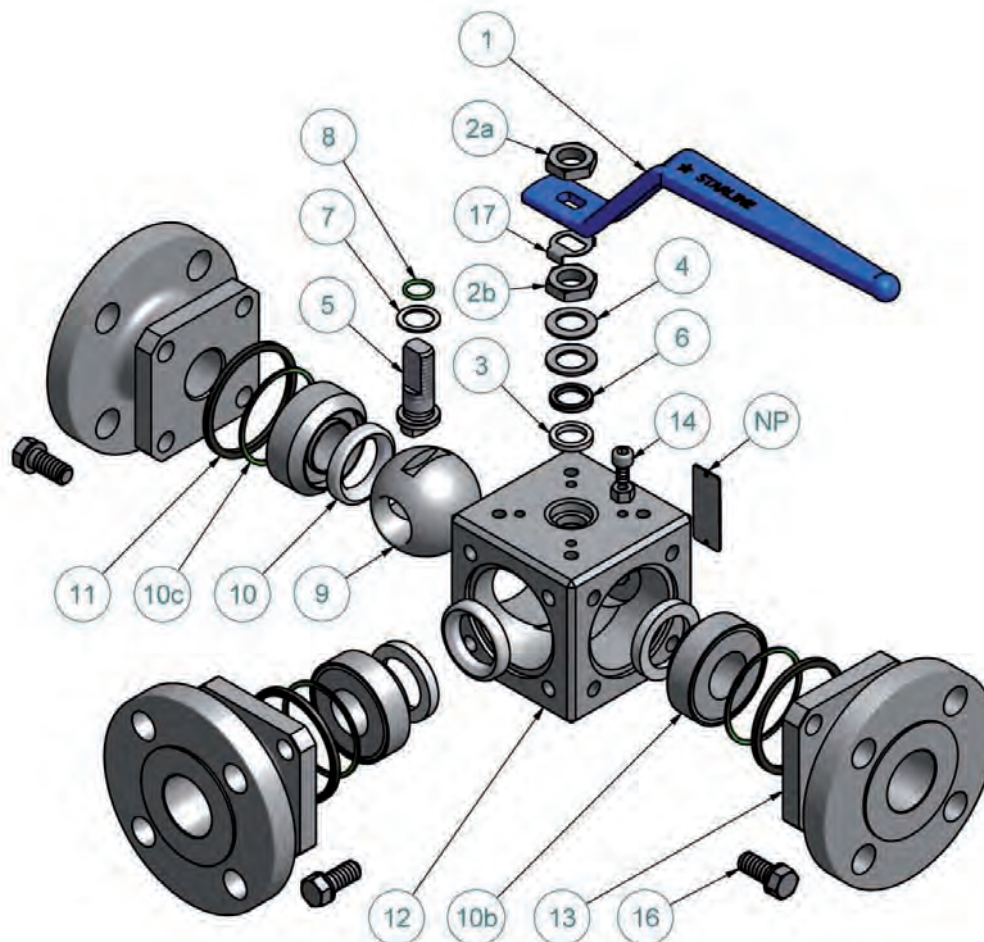
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2"x 3/8"	15 x 10	178	11.1	79	89	28.5	144	3
3/8"x 1/2"	20 x 15	191	14.2	97	95.5	30	172.5	4.5
1"x 3/4"	25 x 20	215	21	102	107.5	39	172.5	8
1.1/4"x 1"	32 x 25	226	25.4	114	113	42.5	218	12
1.1/2"x 1.1/4"	40 x 32	253	31.7	118	126.5	53	218	14
2"x 1.1/2"	50 x 40	277	38	126	138.5	56	218	20.5
2.1/2"x 2"	65 x 50	345	49	144	172.5	75	420	43
3"x 2.1/2"	80 x 65	401	63.5	157	200.5	95	420	72

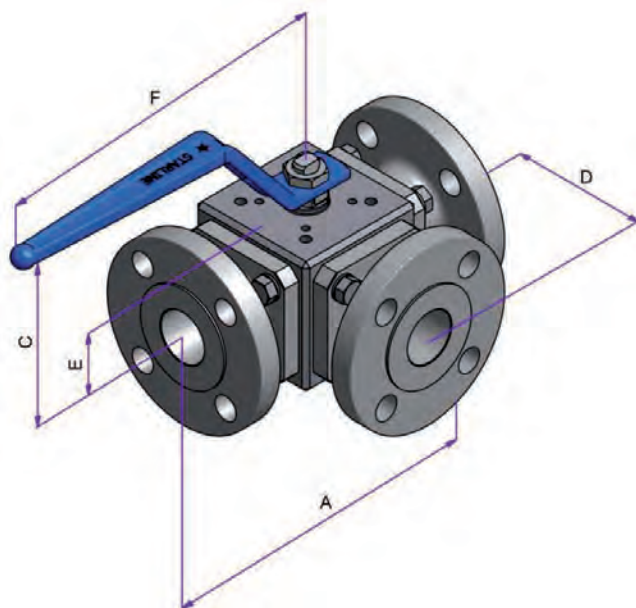
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

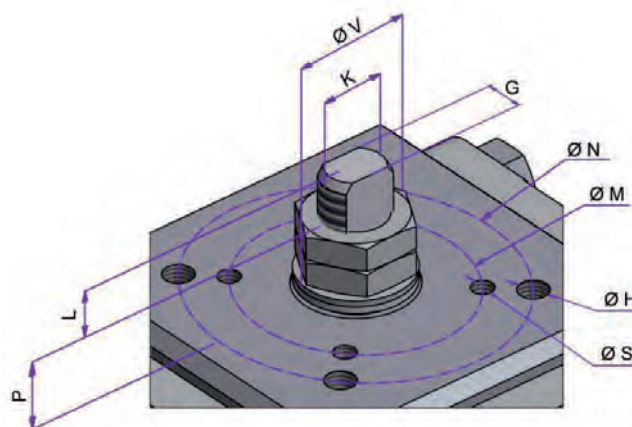
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

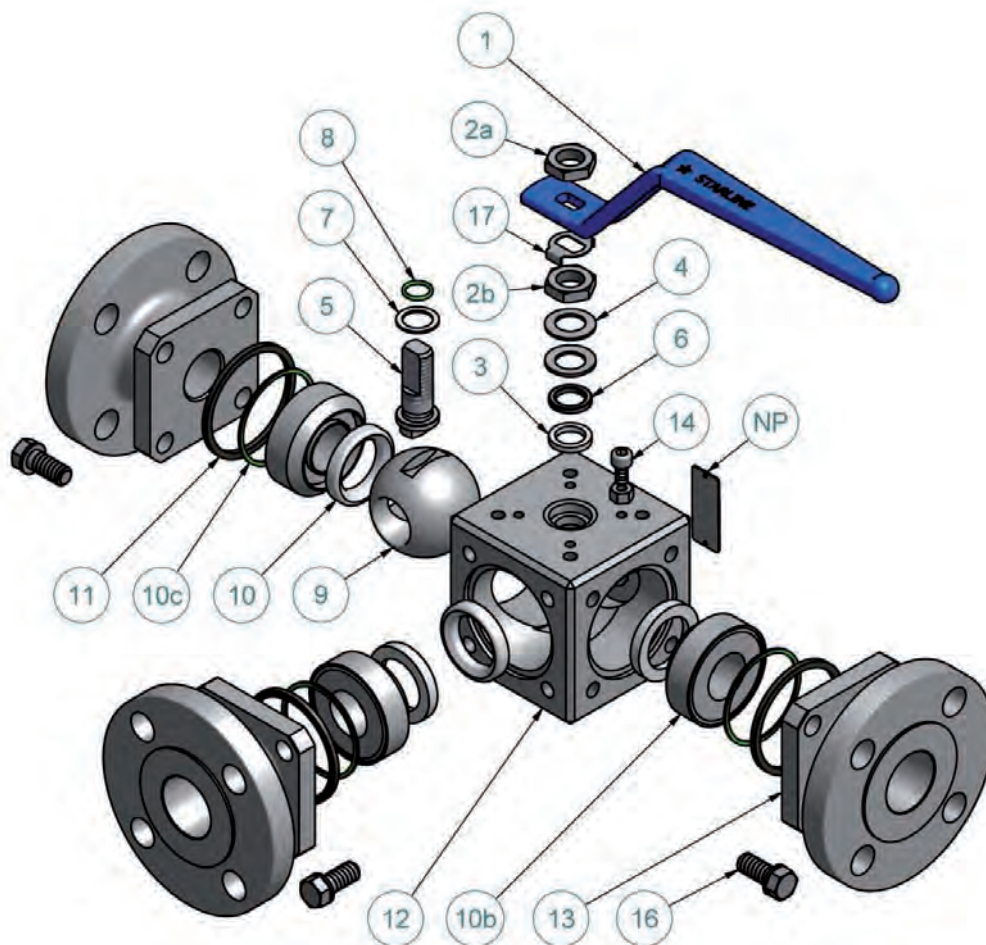
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 1/2"	15 x 15	199	14.2	97	99.5	30	172.5	5.2
3/4" x 3/4"	20 x 20	223	21	102	111.5	39	172.5	9.7
1" x 1"	25 x 25	257	25.4	114	128.5	42.5	218	13.3

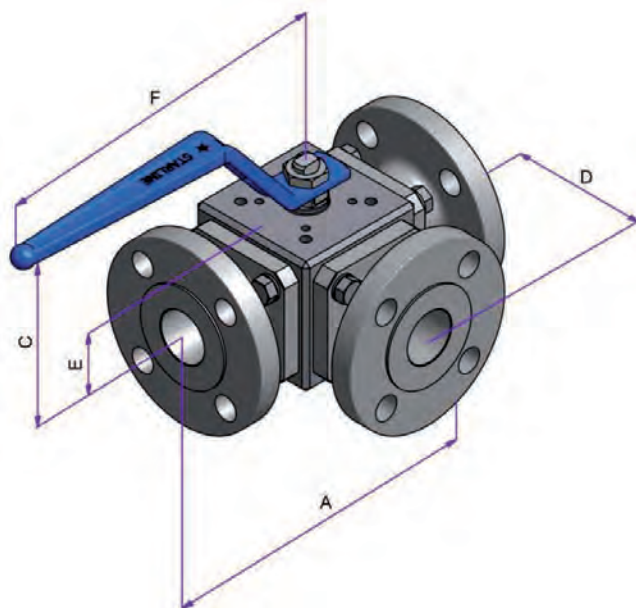
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

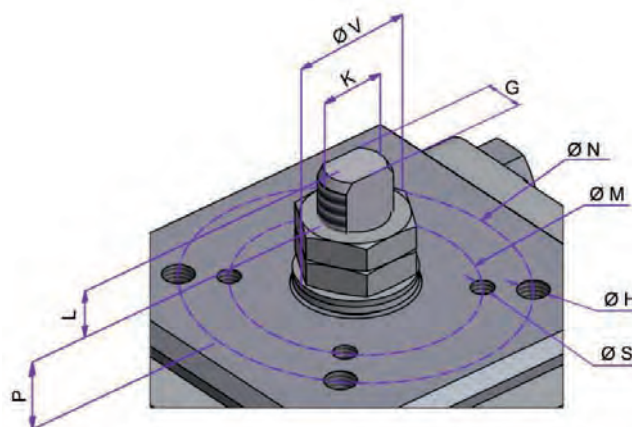
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

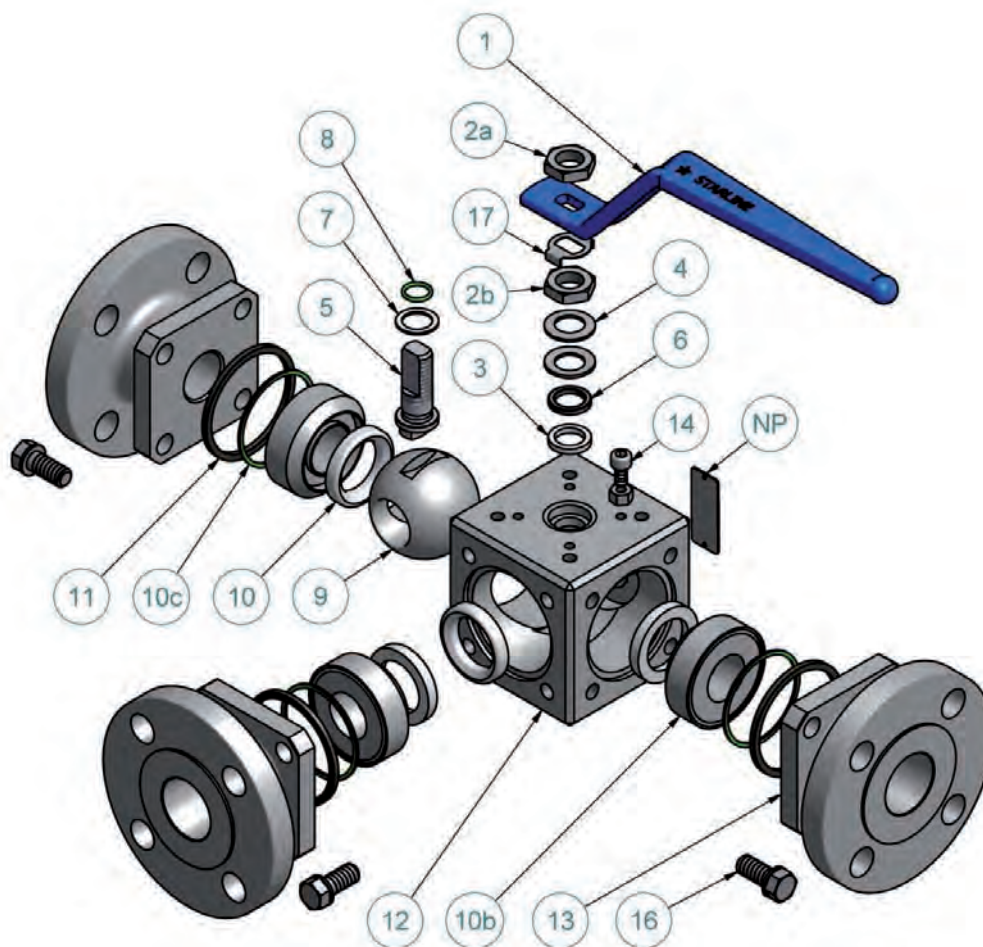
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 3/8"	15 x 10	204	11.1	79	102	28.5	144	4.2
3/8" x 1/2"	20 x 15	231	14.2	97	115.5	30	172.5	5.7
1" x 3/4"	25 x 20	267	21	102	133.5	39	172.5	9.5
1.1/4" x 1"	32 x 25	277	25.4	114	138.5	42.5	218	13.5

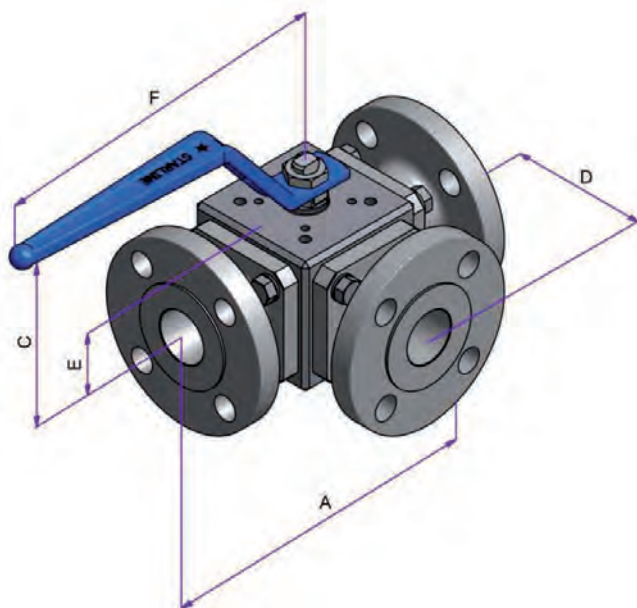
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

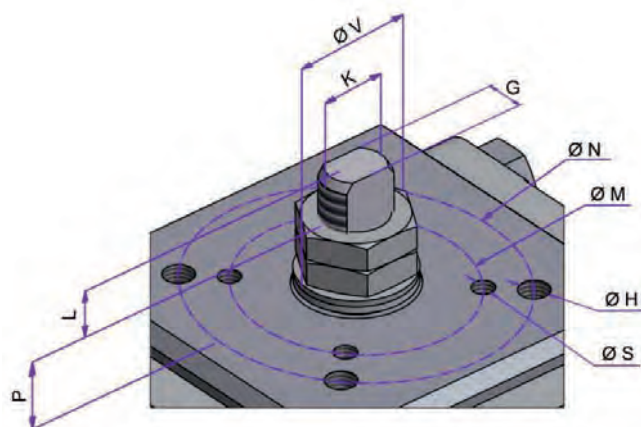
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

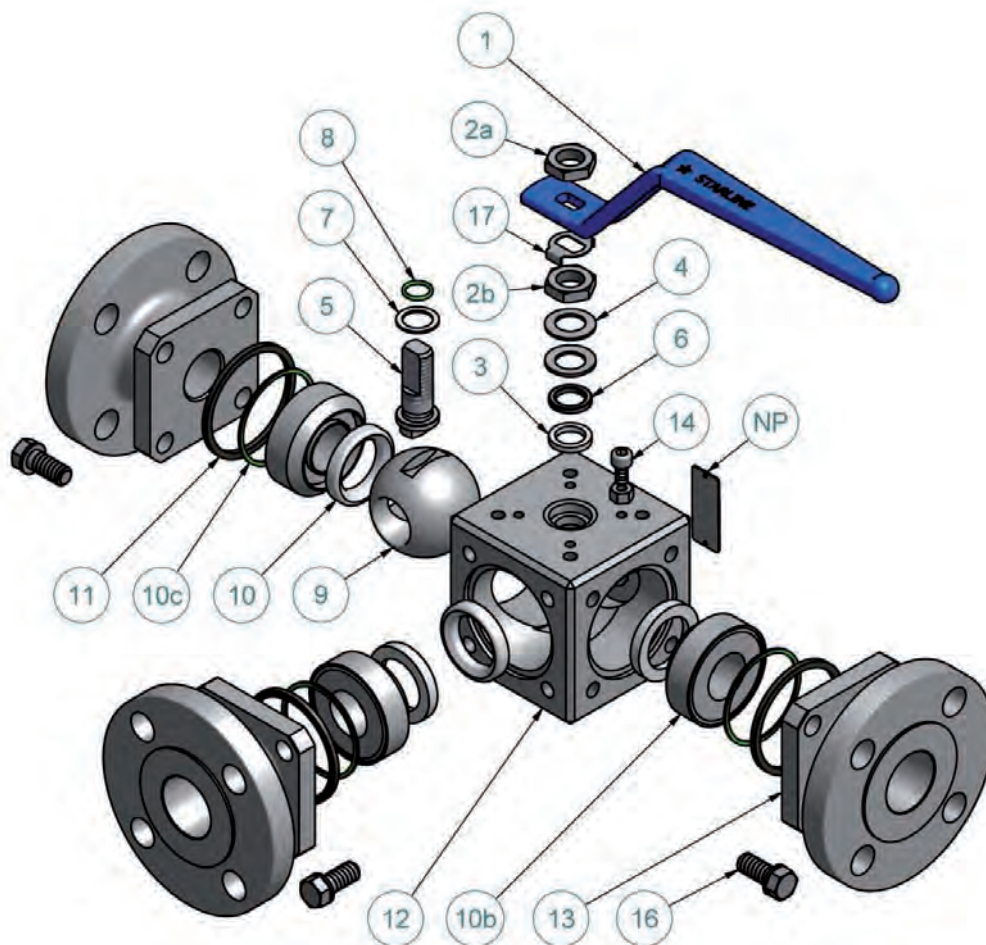
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	PN 10 ÷ 40
1/2"x 1/2"	15 x 15	169	14.2	97	84.5	30	172.5	3.8
3/4"x 3/4"	20 x 20	200	21	102	100	39	172.5	9
1"x 1"	25 x 25	208	25.4	114	204	42.5	218	10.8
1.1/4"x 1.1/4"	32 x 32	242	31.7	118	121	53	218	14.5
1.1/2"x 1.1/2"	40 x 40	261	38	126	130.5	56	218	20
2"x 2"	50 x 50	334	49	144	167	75	420	40
2.1/2"x 2.1/2"	65 x 65	408	63.5	157	204	95	420	70

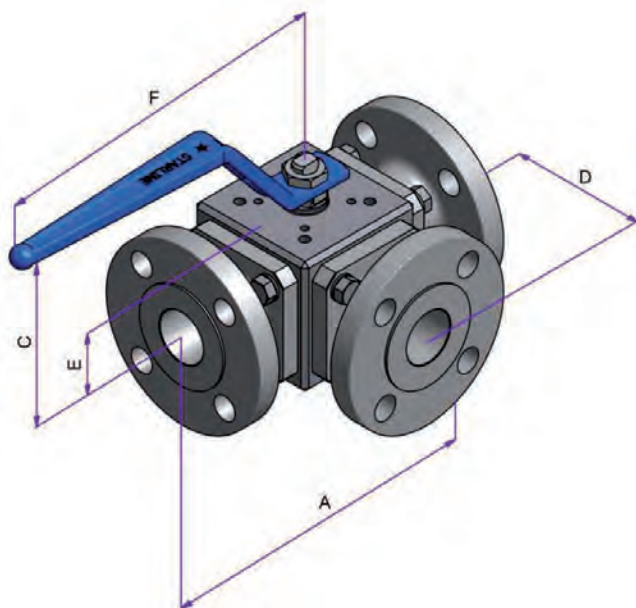
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

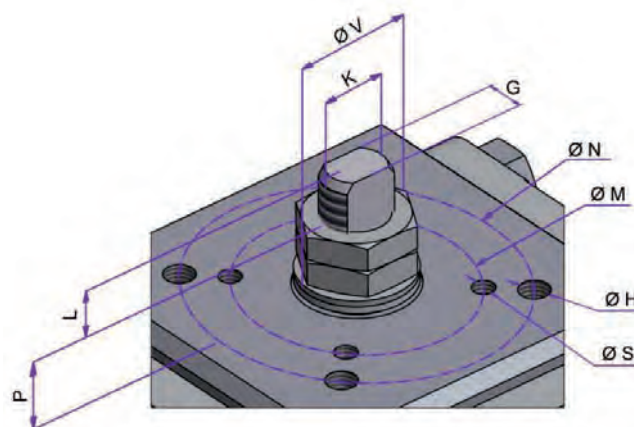
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

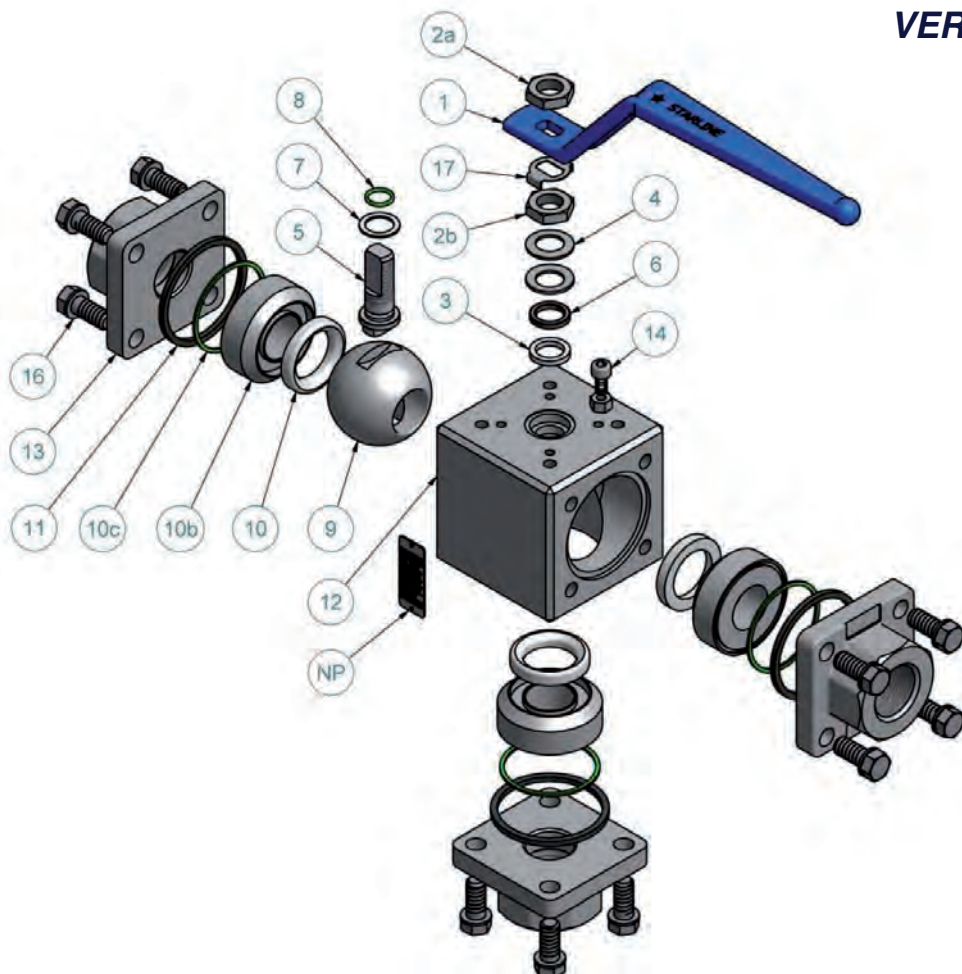
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	PN 10 ÷ 40
1/2" x 3/8"	15 x 10	168	11.1	79	84	28.5	144	3
3/8" x 1/2"	20 x 15	189	14.2	97	94.5	30	172.5	4
1" x 3/4"	25 x 20	210	21	102	105	39	172.5	9.5
1.1/4" x 1"	32 x 25	230	25.4	114	115	42.5	218	11.5
1.1/2" x 1.1/4"	40 x 32	264	31.7	118	132	53	218	15
2" x 1.1/2"	50 x 40	291	38	126	145.5	56	218	20.5
2.1/2" x 2"	65 x 50	394	49	144	197	75	420	42
3" x 2.1/2"	80 x 65	430	63.5	157	215	95	420	70

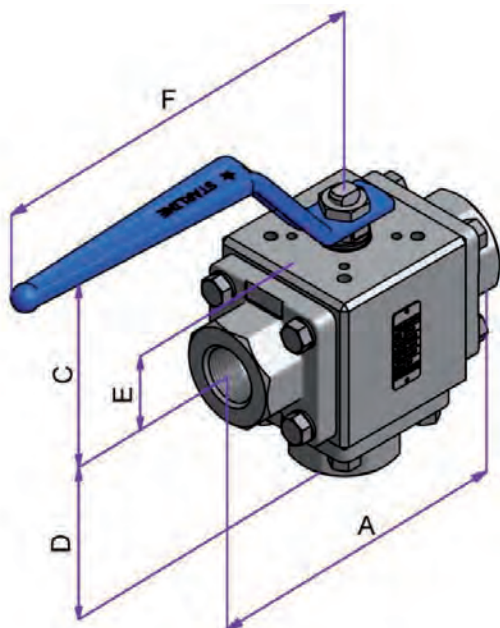
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

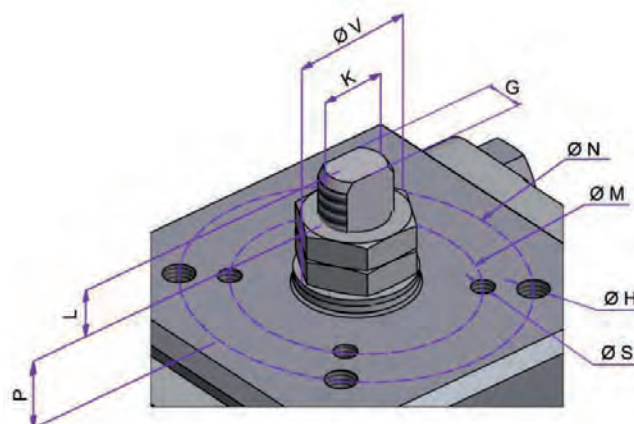
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

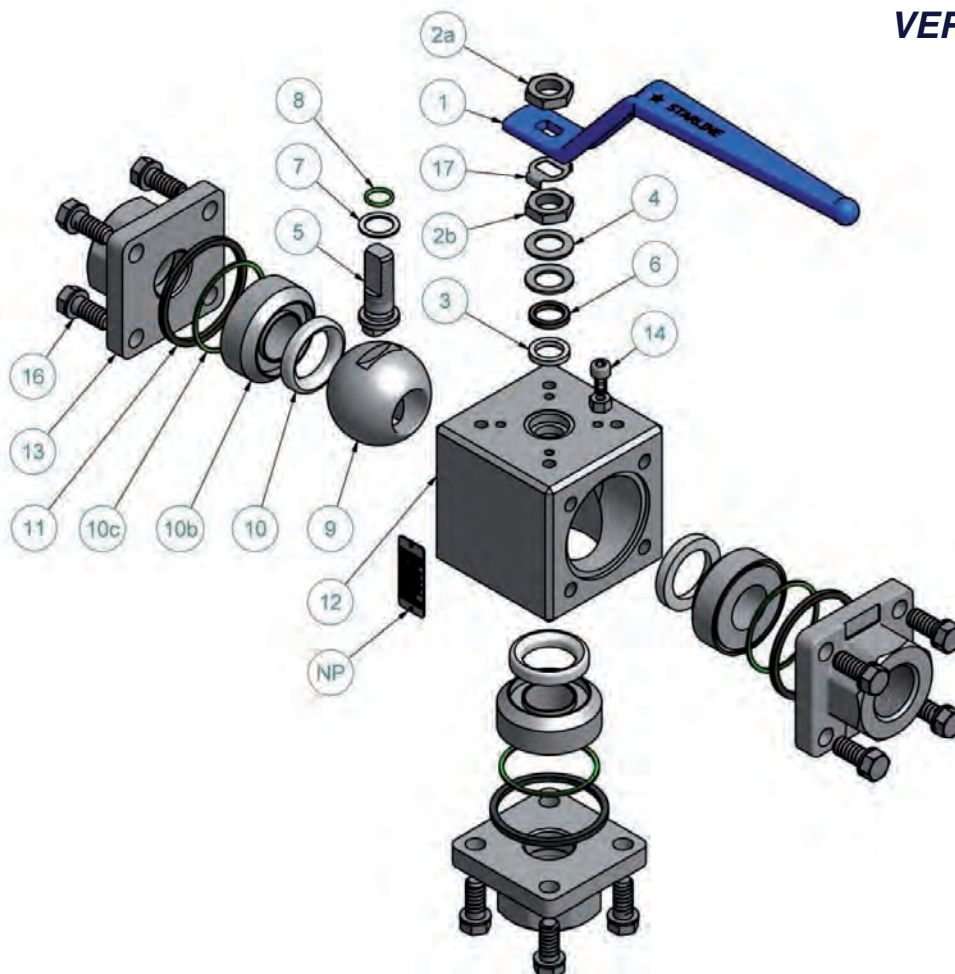
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1/4"x 1/4"	08 x 08	113	11.1	79	56.5	28.5	144	2.5
3/8"x 3/8"	10 x 10	113	11.1	79	56.5	28.5	144	2.5
1/2"x 1/2"	15 x 15	119	14.2	97	59.5	30	172.5	3
3/4"x 3/4"	20 x 20	150	21	102	75	39	172.5	4.9
1"x 1"	25 x 25	158	25.4	114	79	42.5	218	7.1

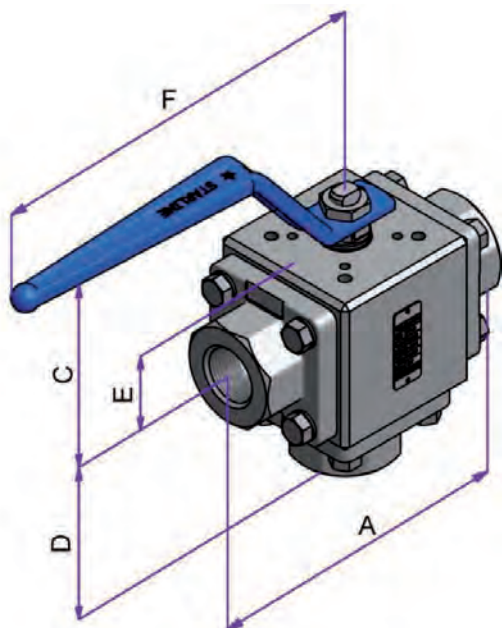
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4"x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

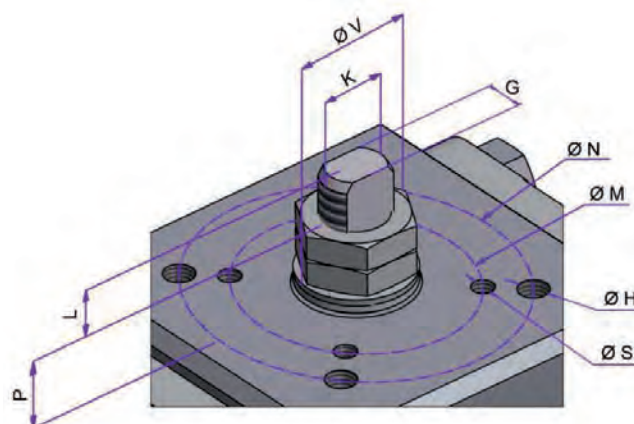
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

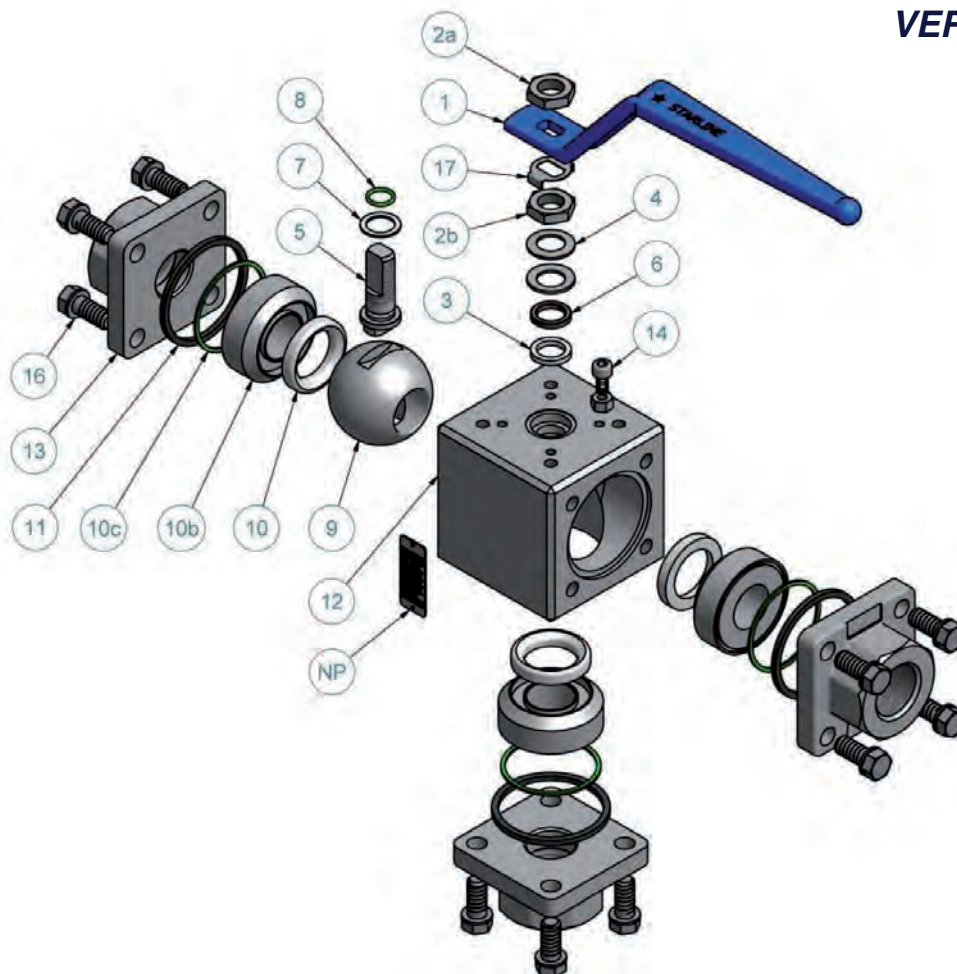
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1.1/4" x 1.1/4"	32 x 32	182	31.7	118	91	53	218	11.2
1.1/2" x 1.1/2"	40 x 40	201	38	126	100.5	56	218	13.9
2" x 2"	50 x 50	262	49	144	131	75	420	40
2.1/2" x 2.1/2"	65 x 65	423	63.5	157	211.5	95	420	67

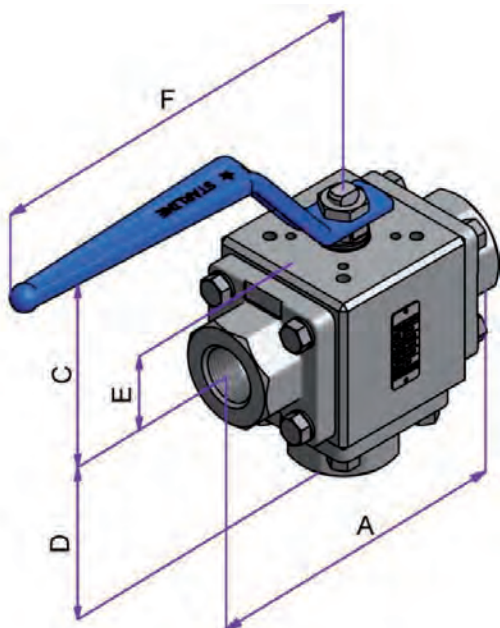
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

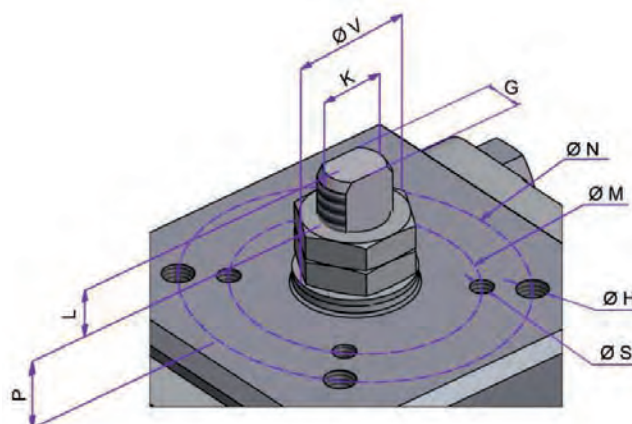
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

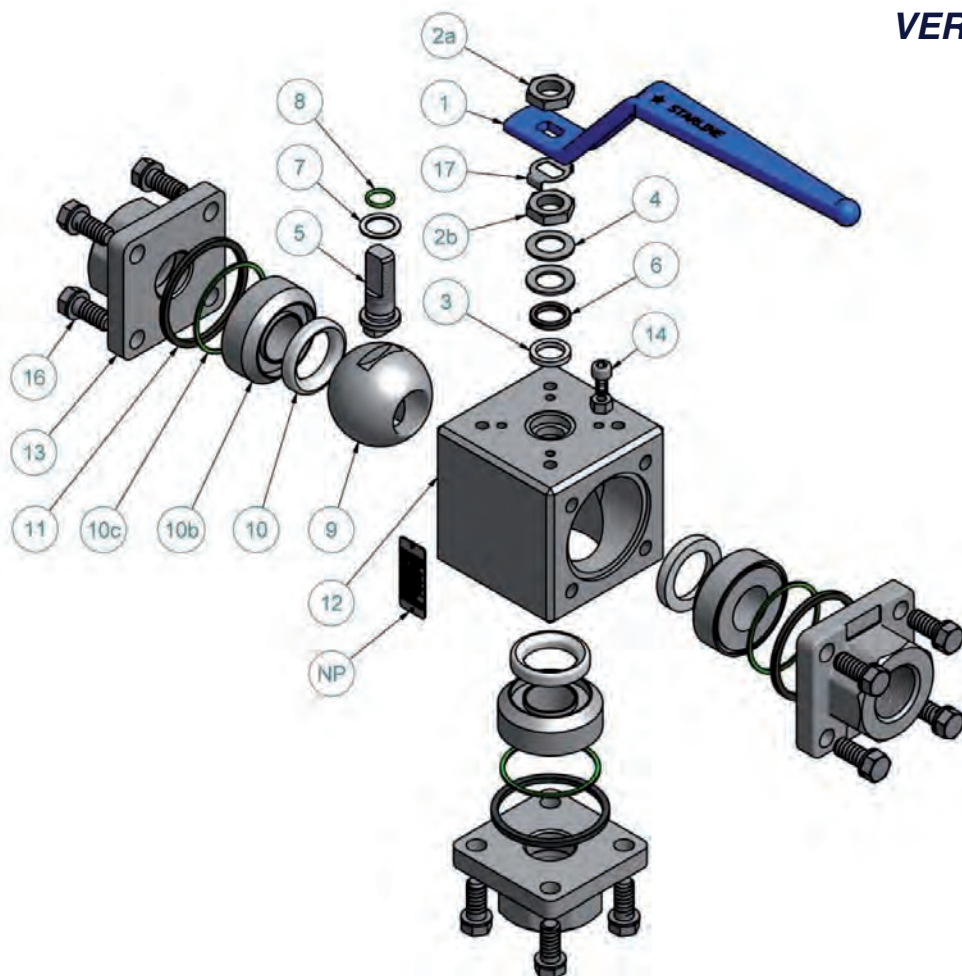
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1/2"x 3/8"	15 x 10	113	11.1	79	56.5	28.5	144	2.5
3/4"x 1/2"	20 x 15	119	14.2	97	59.5	30	172.5	3
1"x 3/4"	25 x 20	150	21	102	75	39	172.5	5
1.1/4"x 1"	32 x 25	158	25.4	114	79	42.5	218	6.7

TOP MOUNTING

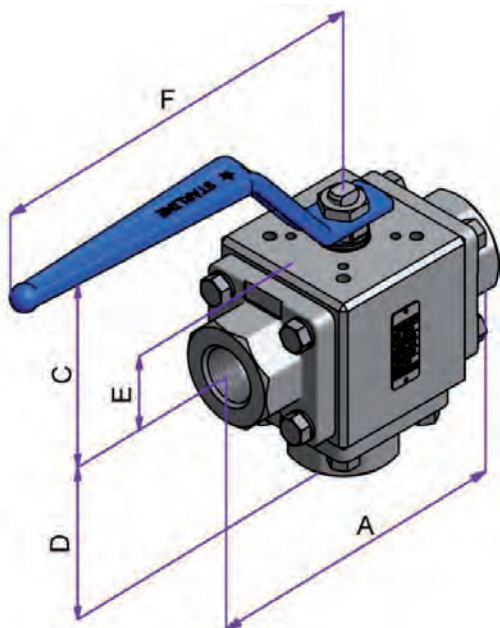
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

VERTICAL PORT

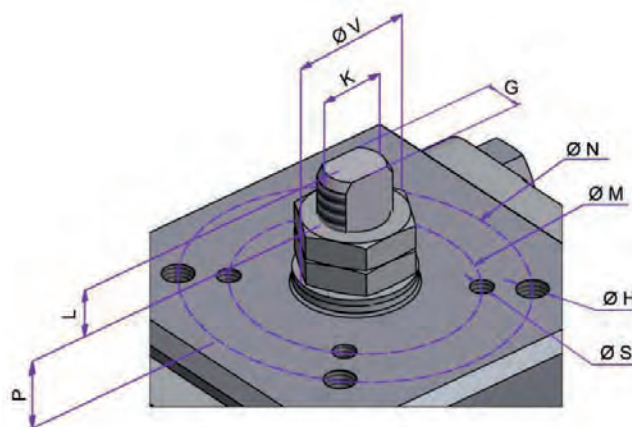


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

RECOMMENDED SPARE PARTS FOR START-UP OR COMMISSIONING



NPT-BSPP-BSPT



**TOP
VIEW**

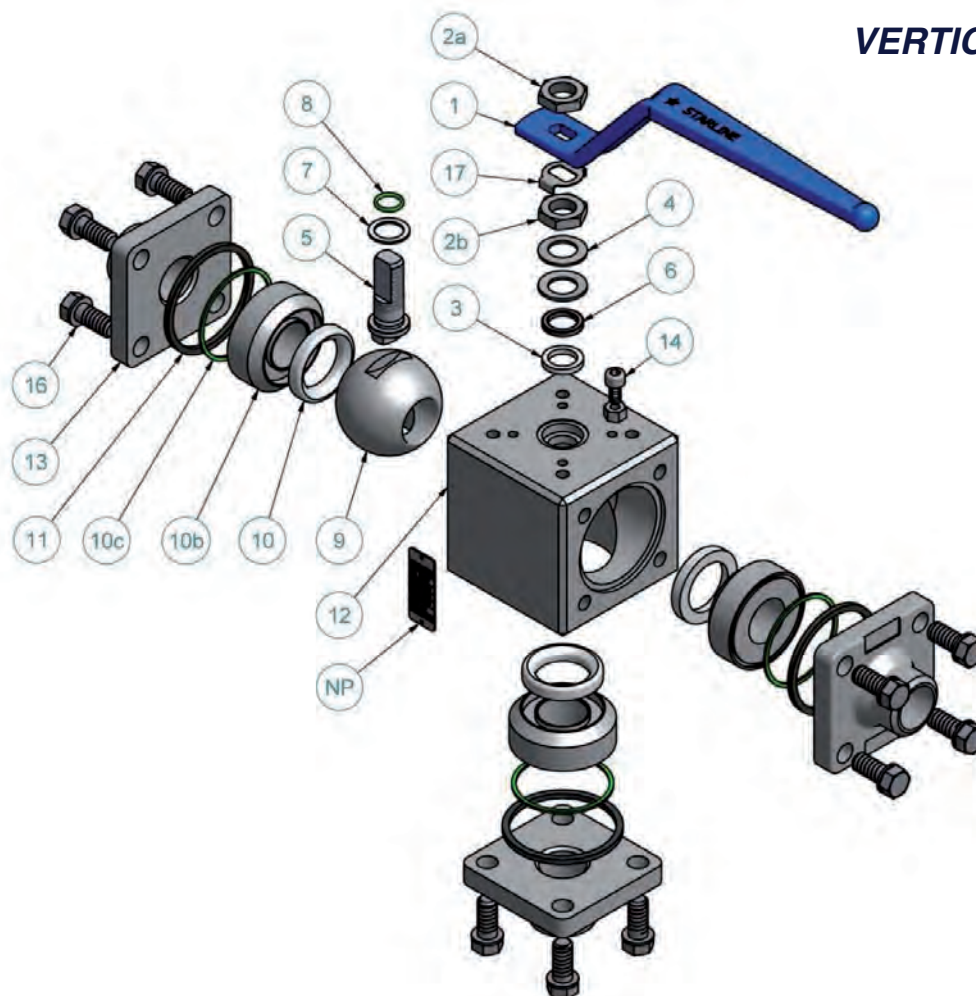
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT						
1.1/2"x 1.1/4"	40 x 32	182	31.7	118	91	53	218	11
2"x 1.1/2"	50 x 40	201	38	126	100.5	56	218	13
2.1/2"x 2"	65 x 50	262	49	144	131	75	420	39.5
3"x 2.1/2"	80 x 65	423	63.5	157	211.5	95	420	68

TOP MOUNTING

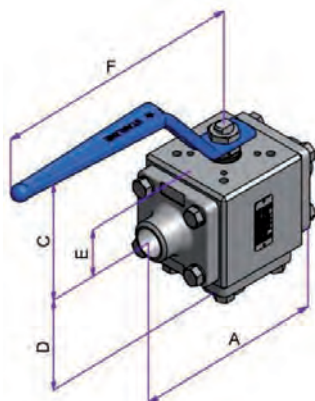
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

VERTICAL PORT

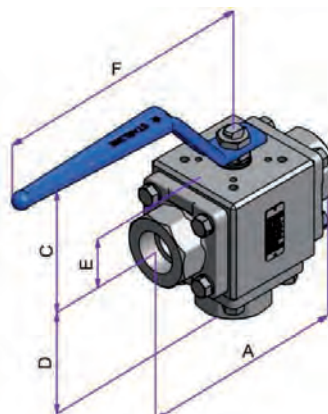


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316

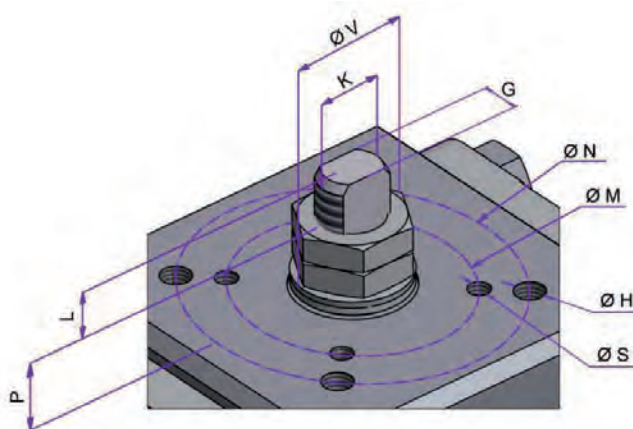
BW-PE



SW



**TOP
VIEW**



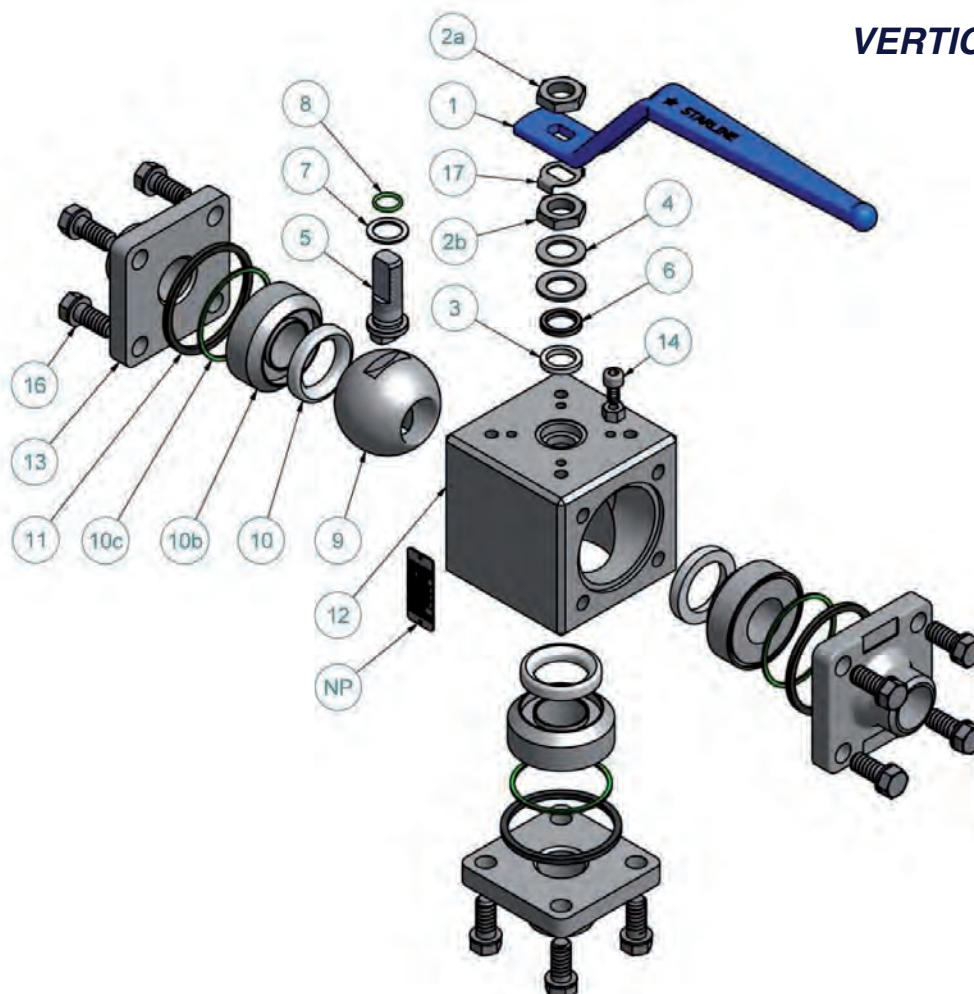
FULL BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1/4"x 1/4"	08 x 08	113	113	11.1	79	56.5	28.5	144	2.5	2.5
3/8"x 3/8"	10 x 10	113	113	11.1	79	56.5	28.5	144	2.5	2.5
1/2"x 1/2"	15 x 15	119	119	14.2	97	59.5	30	172.5	3	3
3/4"x 3/4"	20 x 20	150	150	21	102	75	39	172.5	4.9	4.9
1"x 1"	25 x 25	158	158	25.4	114	79	42.5	218	7.1	7.1

TOP MOUNTING

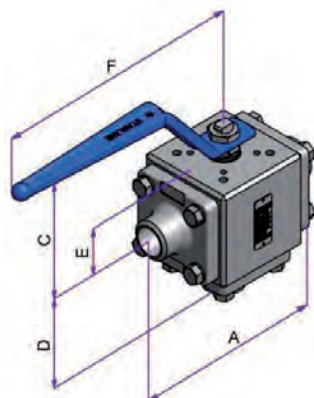
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4"x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

VERTICAL PORT

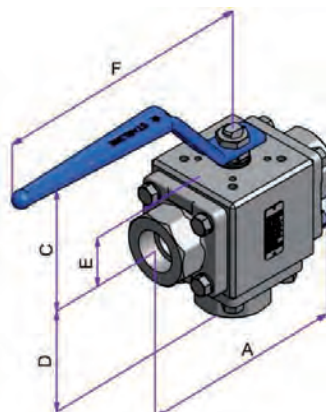


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

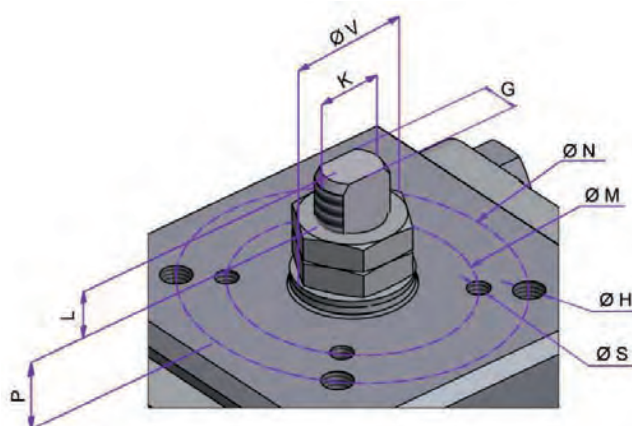
BW-PE



SW



**TOP
VIEW**



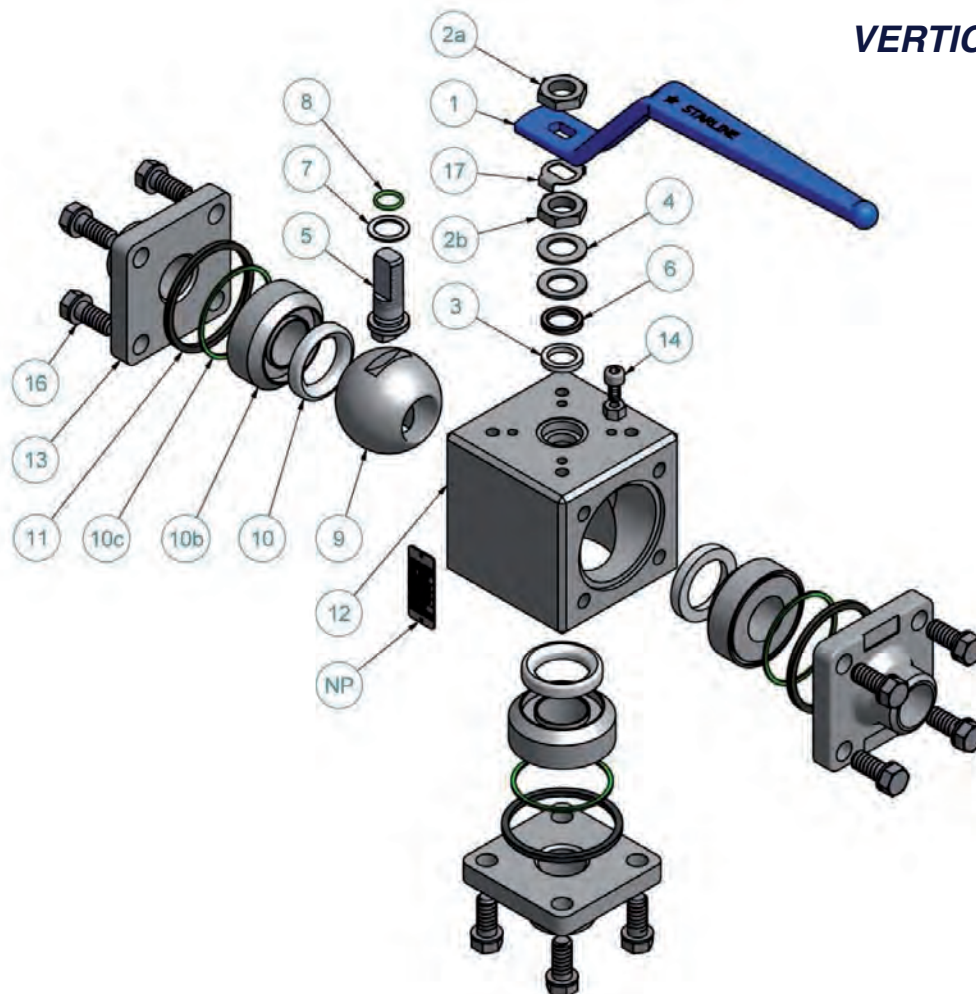
FULL BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1.1/4"x 1.1/4"	32 x 32	182	182	31.7	118	91	53	218	11.2	11.2
1.1/2"x 1.1/2"	40 x 40	201	201	38	126	100.5	56	218	13.9	13.9
2"x 2"	50 x 50	302	302	49	144	151	75	420	40	40
2.1/2"x 2.1/2"	65 x 65	423	423	63.5	157	211.5	95	420	67	67

TOP MOUNTING

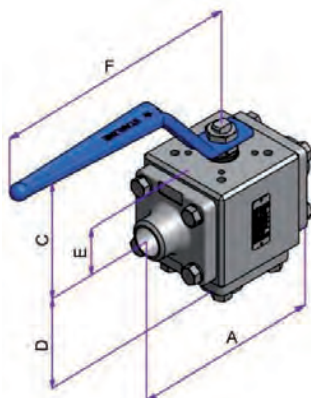
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4"x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

VERTICAL PORT

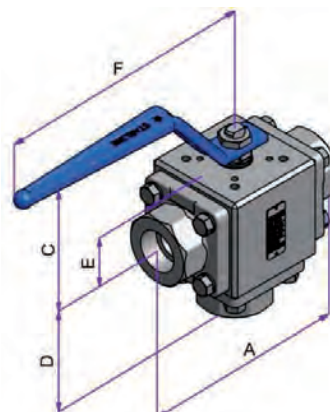


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton		See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316

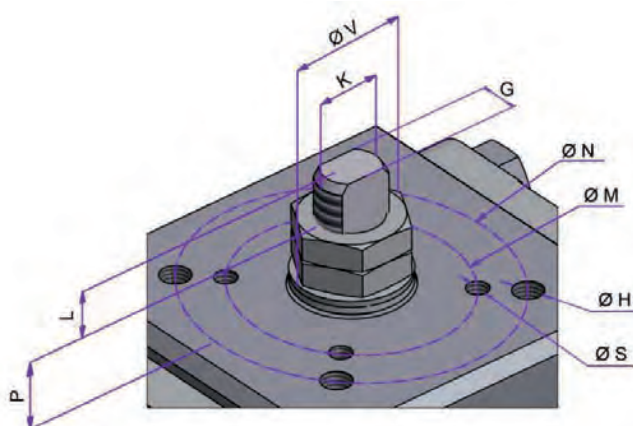
BW-PE



SW



**TOP
VIEW**



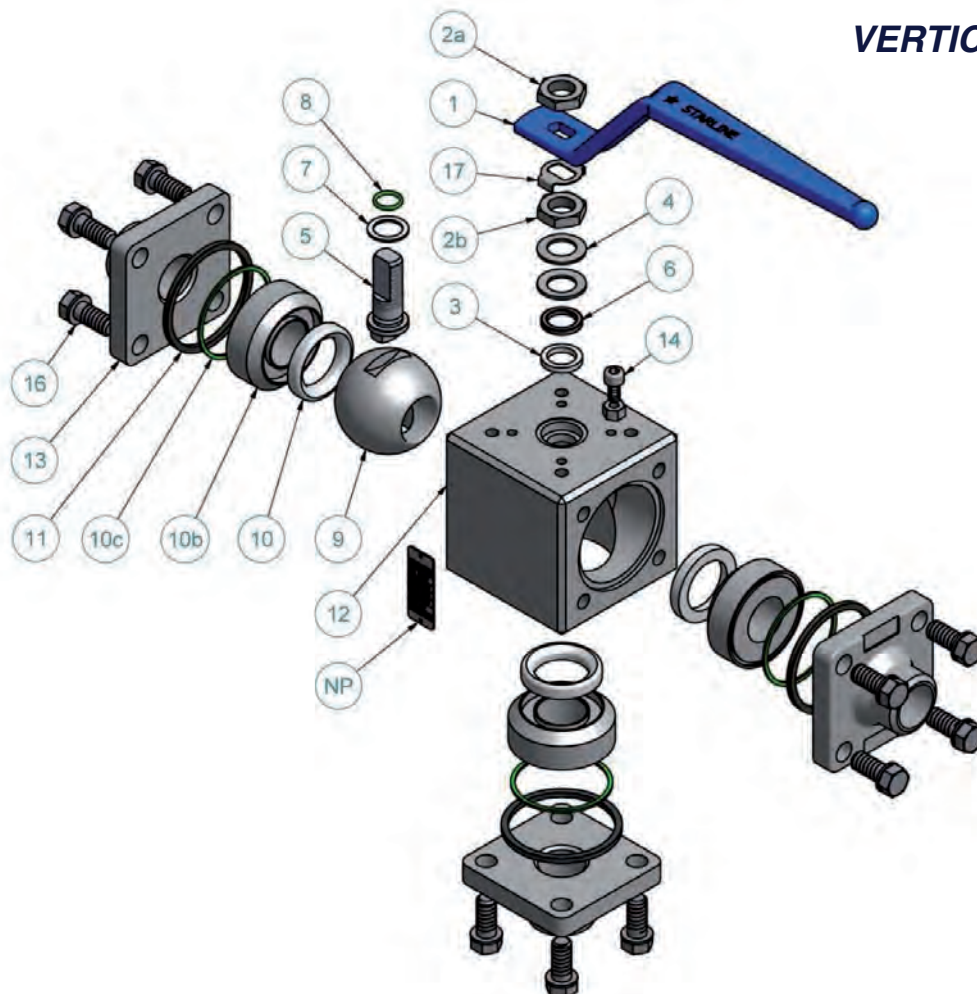
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1/2"x 3/8"	15 x 10	113	113	11.1	79	56.5	28.5	144	2.5	2.5
3/4"x 1/2"	20 x 15	119	119	14.2	97	59.5	30	172.5	3	3
1"x 3/4"	25 x 20	150	150	21	102	75	39	172.5	5	5
1.1/4"x 1"	32 x 25	158	158	25.4	114	79	42.5	218	6.7	6.7

TOP MOUNTING

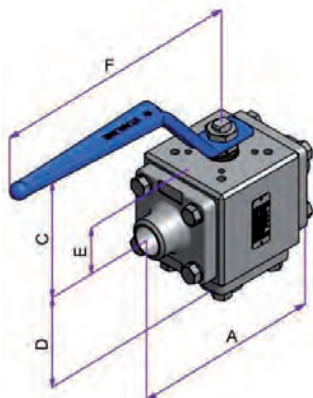
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

VERTICAL PORT

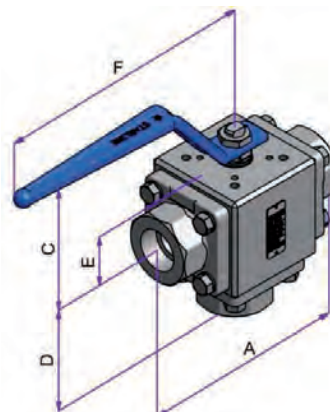


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

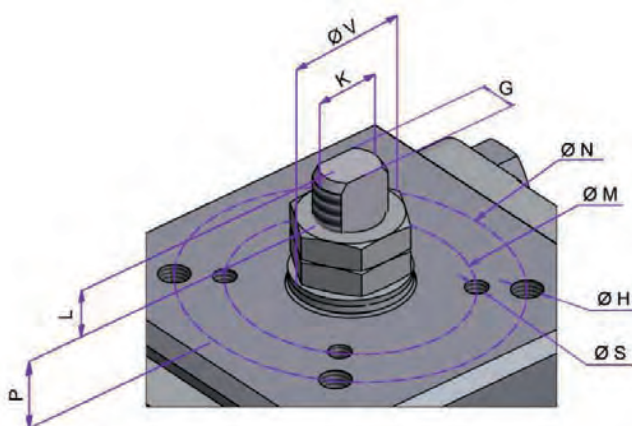
BW-PE



SW



**TOP
VIEW**



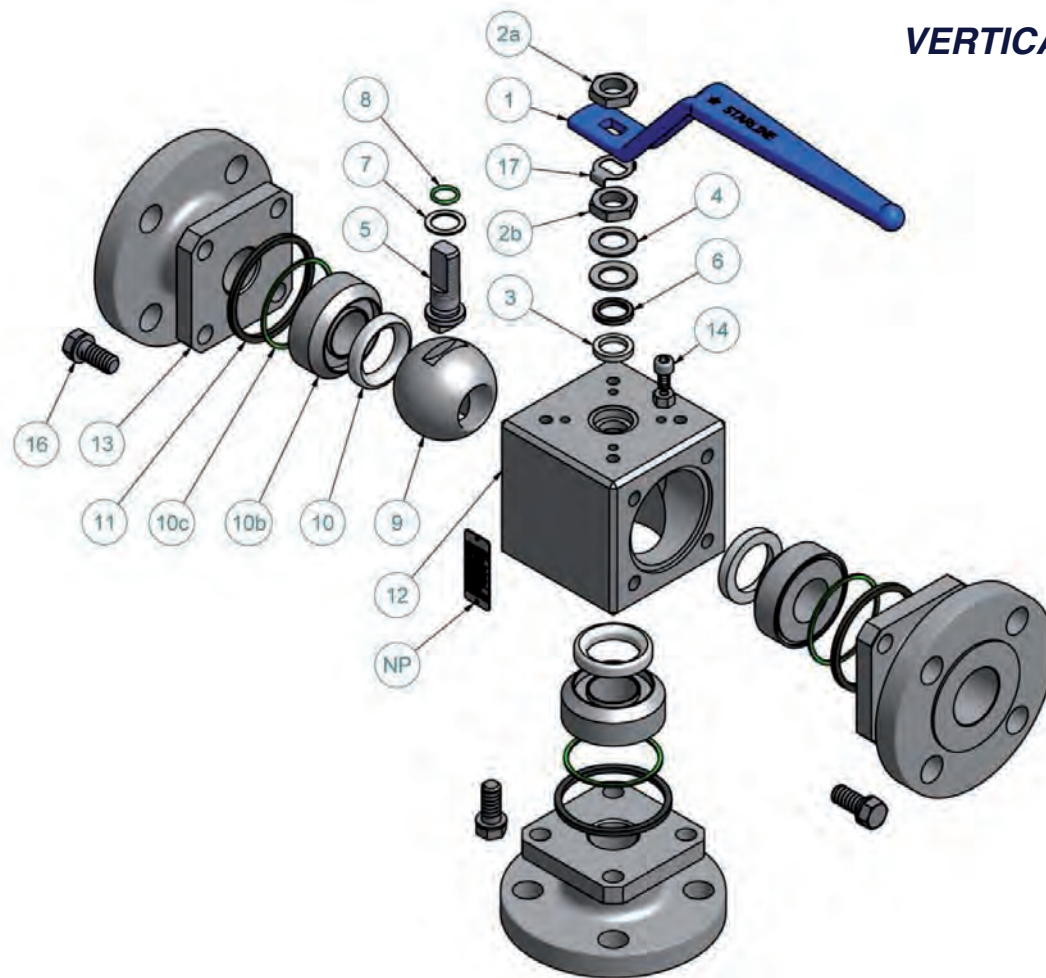
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]							WEIGHT [Kg]	
NPS	DN	A		BORE	C	D	E	F	SW	BW - PE
		SW	BW - PE							
1.1/2"x 1.1/4"	40 x 32	182	182	31.7	118	91	53	218	11	11
2"x 1.1/2"	50 x 40	201	201	38	126	100.5	56	218	13	13
2.1/2"x 2"	65 x 50	302	302	49	144	151	75	420	39.5	39.5
3"x 2.1/2"	80 x 65	423	423	63.5	157	211.5	95	420	68	68

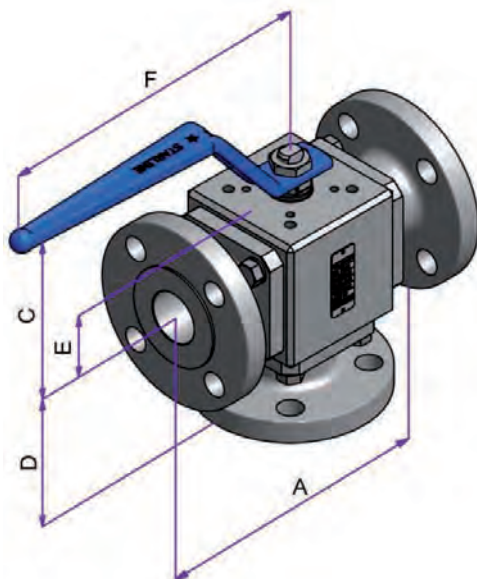
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

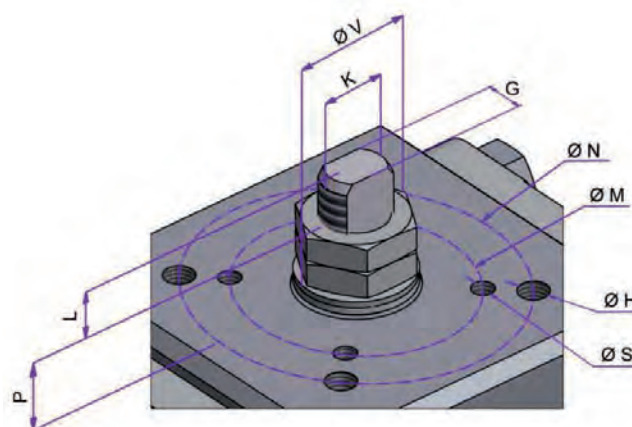
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	O-ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	"S"	"S"	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

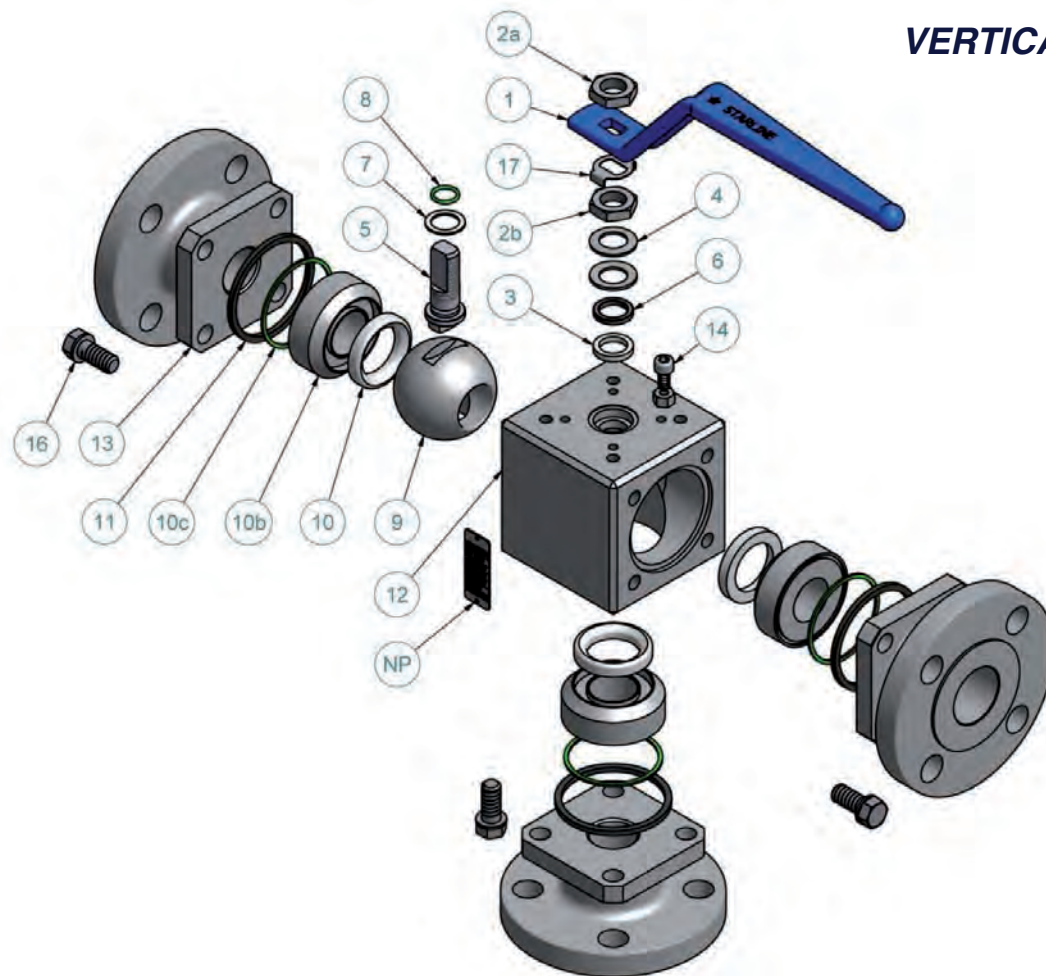
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2"x 1/2"	15 x 15	179	14.2	97	89.5	30	172.5	3.5
3/4"x 3/4"	20 x 20	202	21	102	101	39	172.5	8
1"x 1"	25 x 25	213	25.4	114	106.5	42.5	218	10
1.1/4"x 1.1/4"	32 x 32	240	31.7	118	120	53	218	13
1.1/2"x 1.1/2"	40 x 40	252	38	126	126	56	218	17
2"x 2"	50 x 50	320	49	144	160	75	420	42
2.1/2"x 2.1/2"	65 x 65	359	63.5	157	179.5	95	420	69

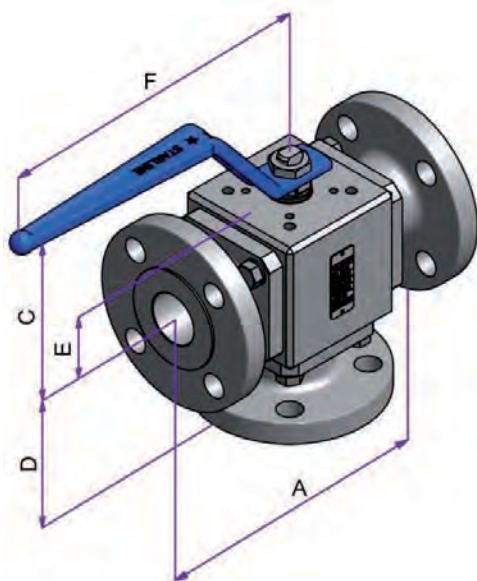
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

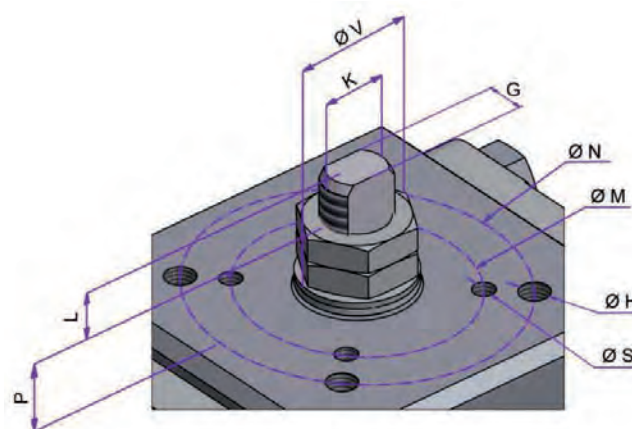
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	O-ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	"S"	"S"	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

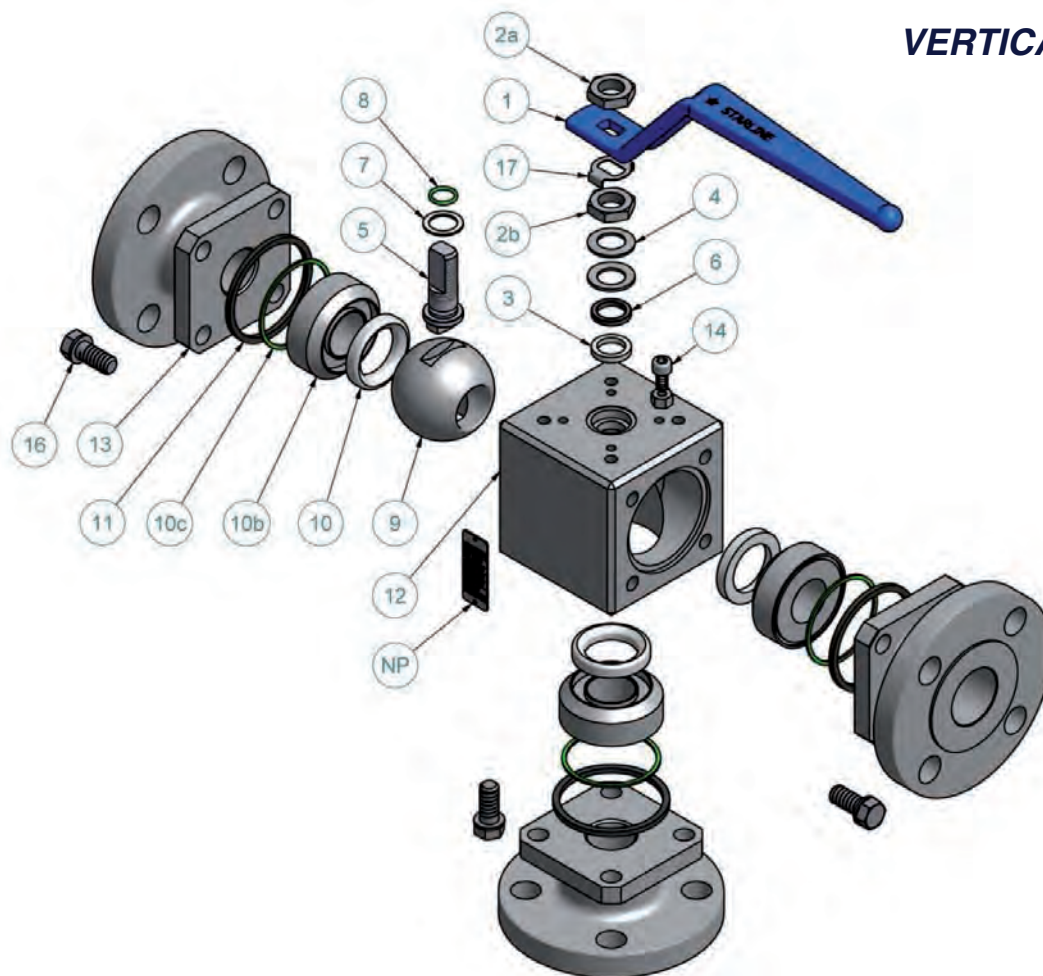
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 3/8"	15 x 10	146	11.1	79	73	28.5	144	2.5
3/8" x 1/2"	20 x 15	156.5	14.2	97	78.25	30	172.5	3.5
1" x 3/4"	25 x 20	177	21	102	88.5	39	172.5	7.5
1.1/4" x 1"	32 x 25	188	25.4	114	94	42.5	218	10.5
1.1/2" x 1.1/4"	40 x 32	227	31.7	118	113.5	53	218	13.3
2" x 1.1/2"	50 x 40	239	38	126	119.5	56	218	17.2
2.1/2" x 2"	65 x 50	295	49	144	147.5	75	420	41.5
3" x 2.1/2"	80 x 65	321	63.5	157	160.5	95	420	70

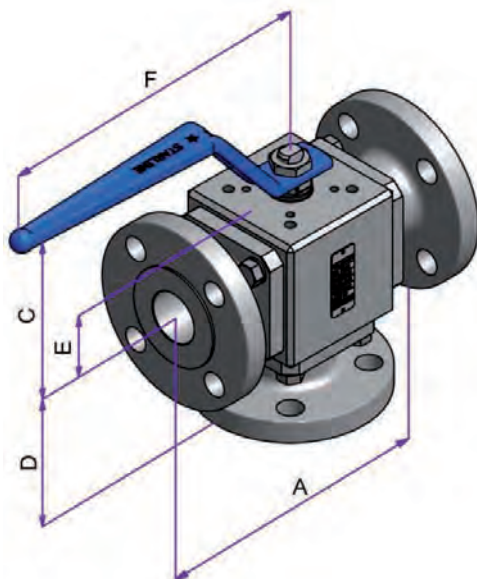
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

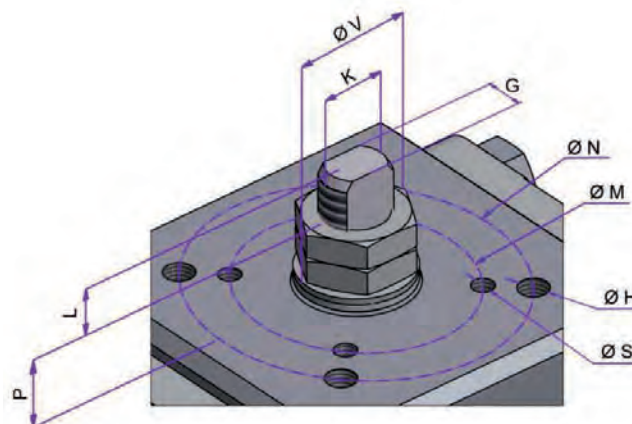
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

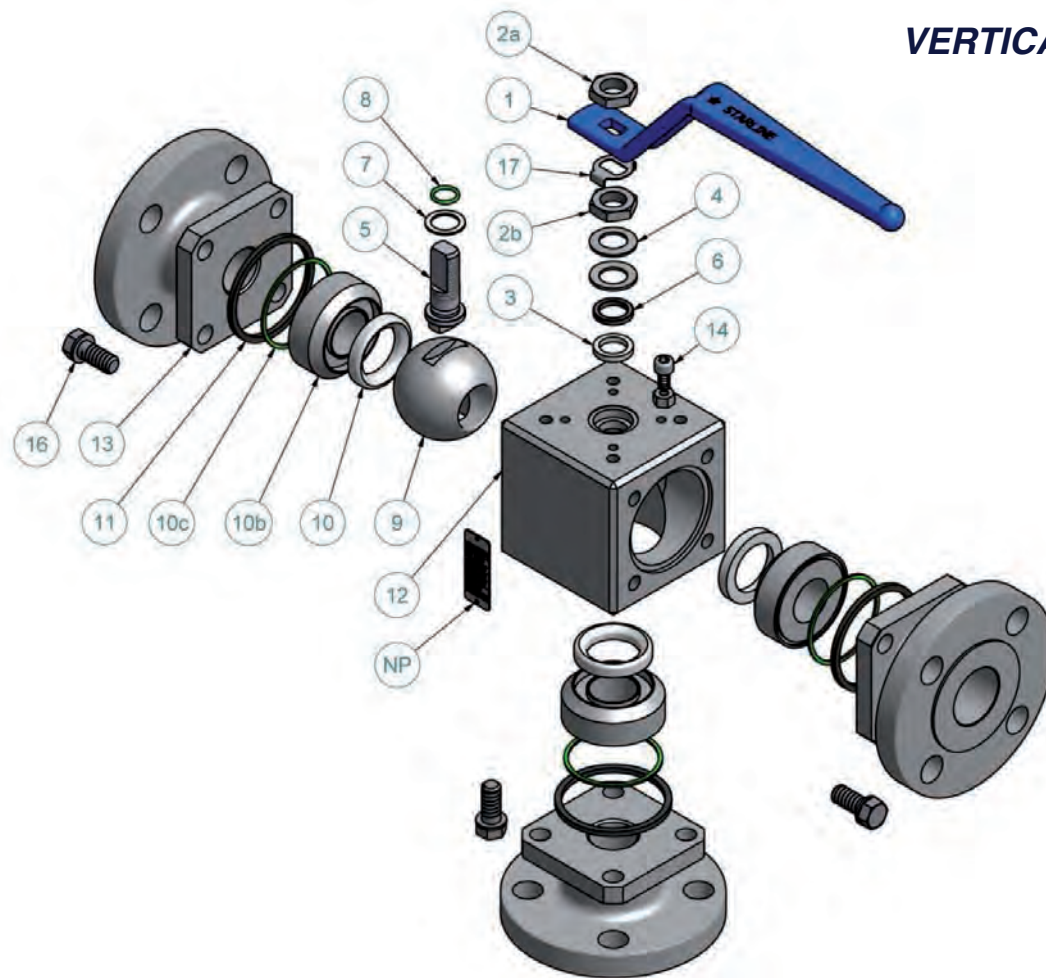
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 1/2"	15 x 15	179	14.2	97	89.5	30	172.5	4
3/4" x 3/4"	20 x 20	202	21	102	101	39	172.5	8.5
1" x 1"	25 x 25	213	25.4	114	106.5	42.5	218	11.8
1.1/4" x 1.1/4"	32 x 32	240	31.7	118	120	53	218	15
1.1/2" x 1.1/2"	40 x 40	252	38	126	126	56	218	20
2" x 2"	50 x 50	320	49	144	160	75	420	43
2.1/2" x 2.1/2"	65 x 65	359	63.5	157	179.5	95	420	70

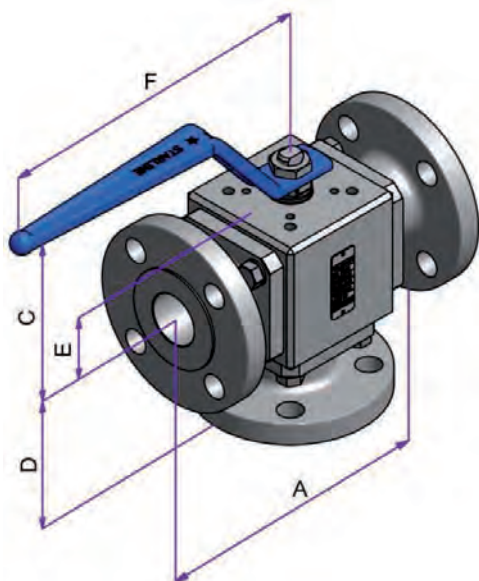
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

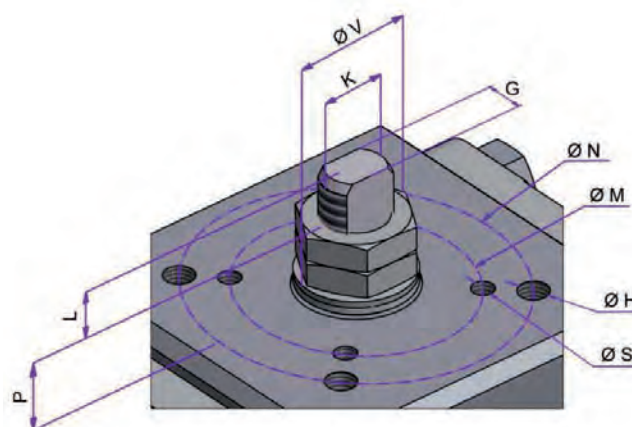
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

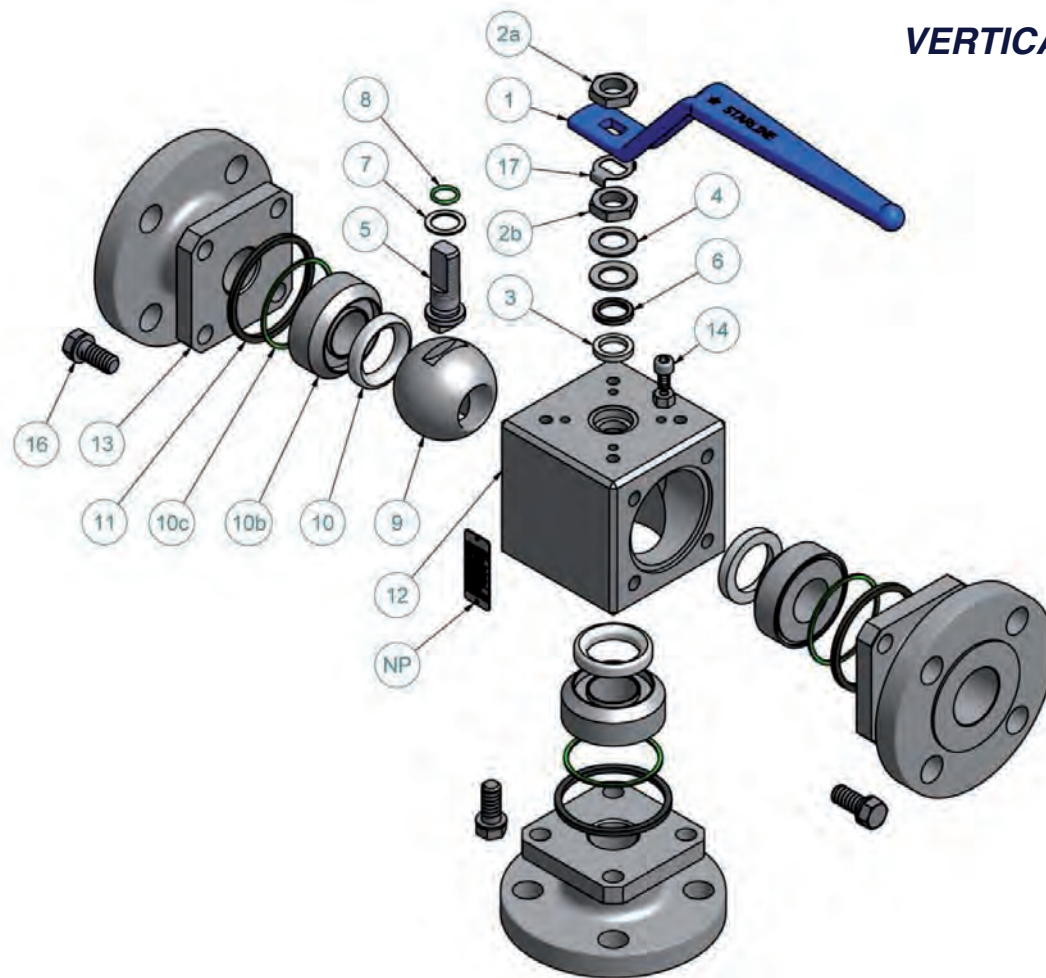
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 3/8"	15 x 10	178	11.1	79	89	28.5	144	3
3/8" x 1/2"	20 x 15	191	14.2	97	95.5	30	172.5	4.5
1" x 3/4"	25 x 20	215	21	102	107.5	39	172.5	8
1.1/4" x 1"	32 x 25	226	25.4	114	113	42.5	218	12
1.1/2" x 1.1/4"	40 x 32	253	31.7	118	126.5	53	218	14
2" x 1.1/2"	50 x 40	277	38	126	138.5	56	218	20.5
2.1/2" x 2"	65 x 50	345	49	144	172.5	75	420	43
3" x 2.1/2"	80 x 65	401	63.5	157	200.5	95	420	72

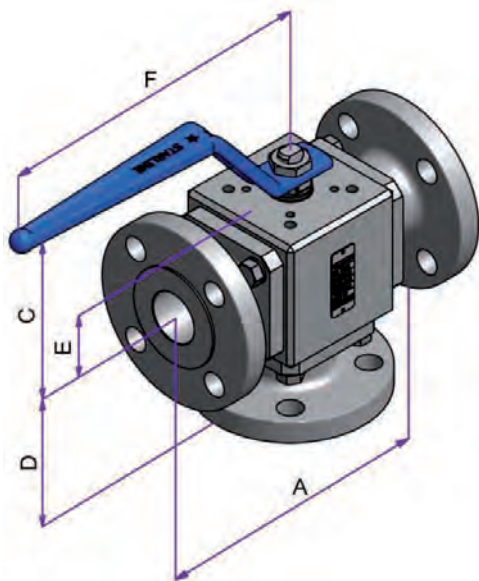
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

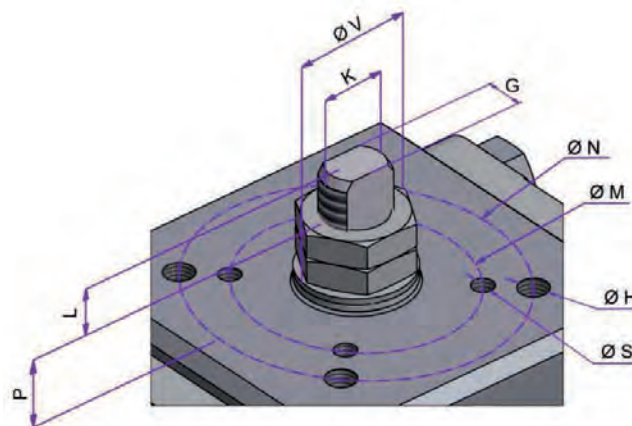
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

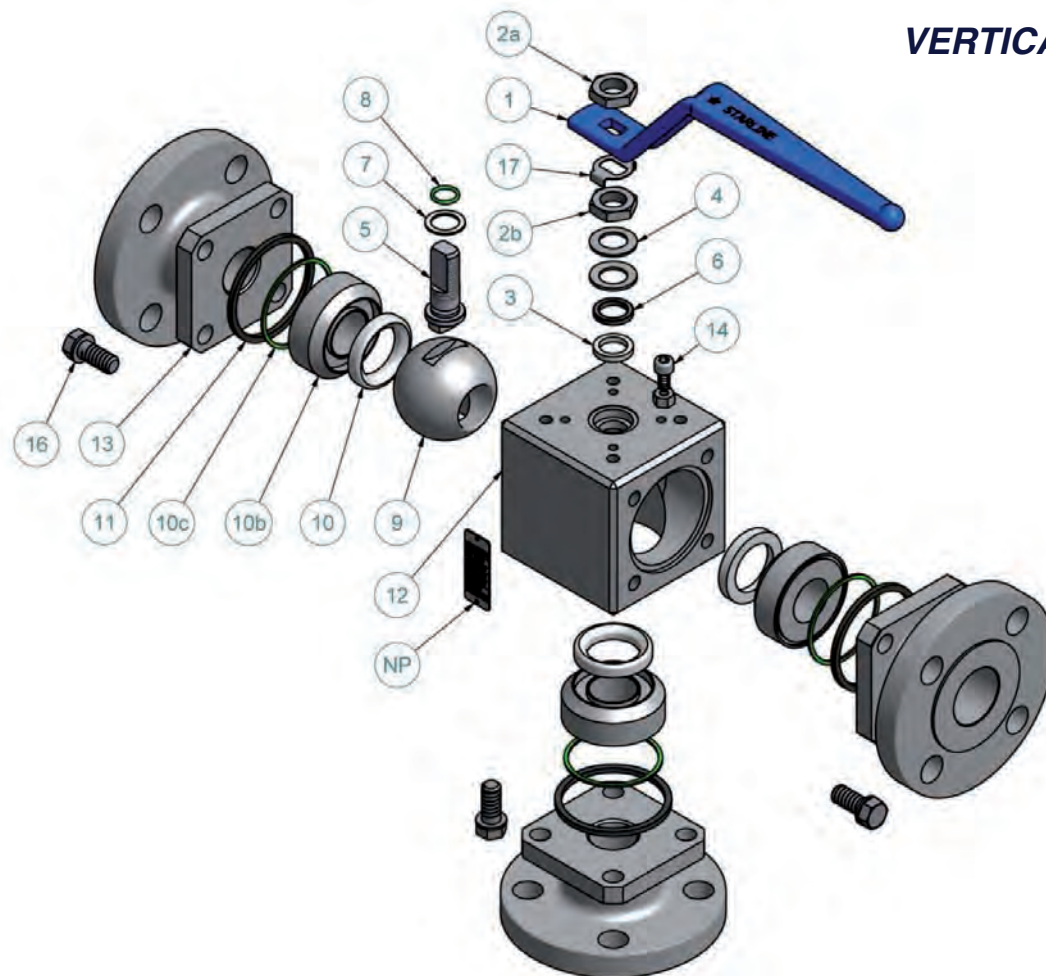
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2"x 1/2"	15 x 15	199	14.2	97	99.5	30	172.5	5.2
3/4"x 3/4"	20 x 20	223	21	102	111.5	39	172.5	9.7
1"x 1"	25 x 25	257	25.4	114	128.5	42.5	218	13.3

TOP MOUNTING

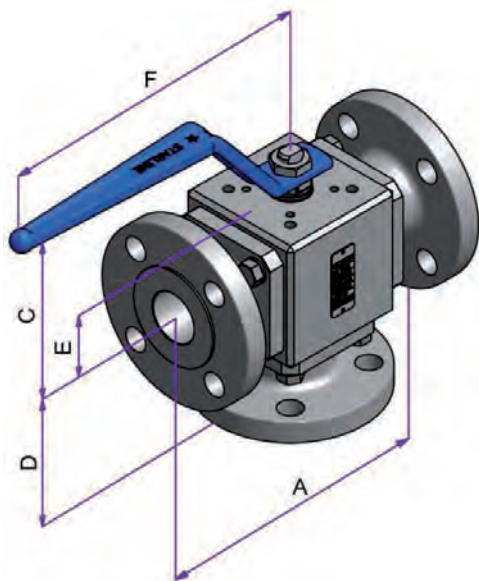
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

VERTICAL PORT

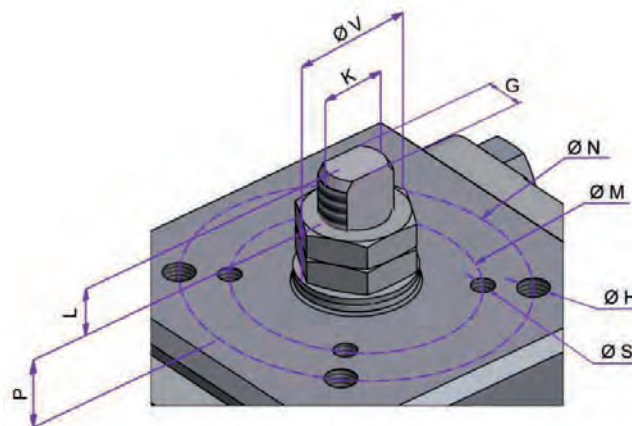


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	12	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316

RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING



RF



**TOP
VIEW**

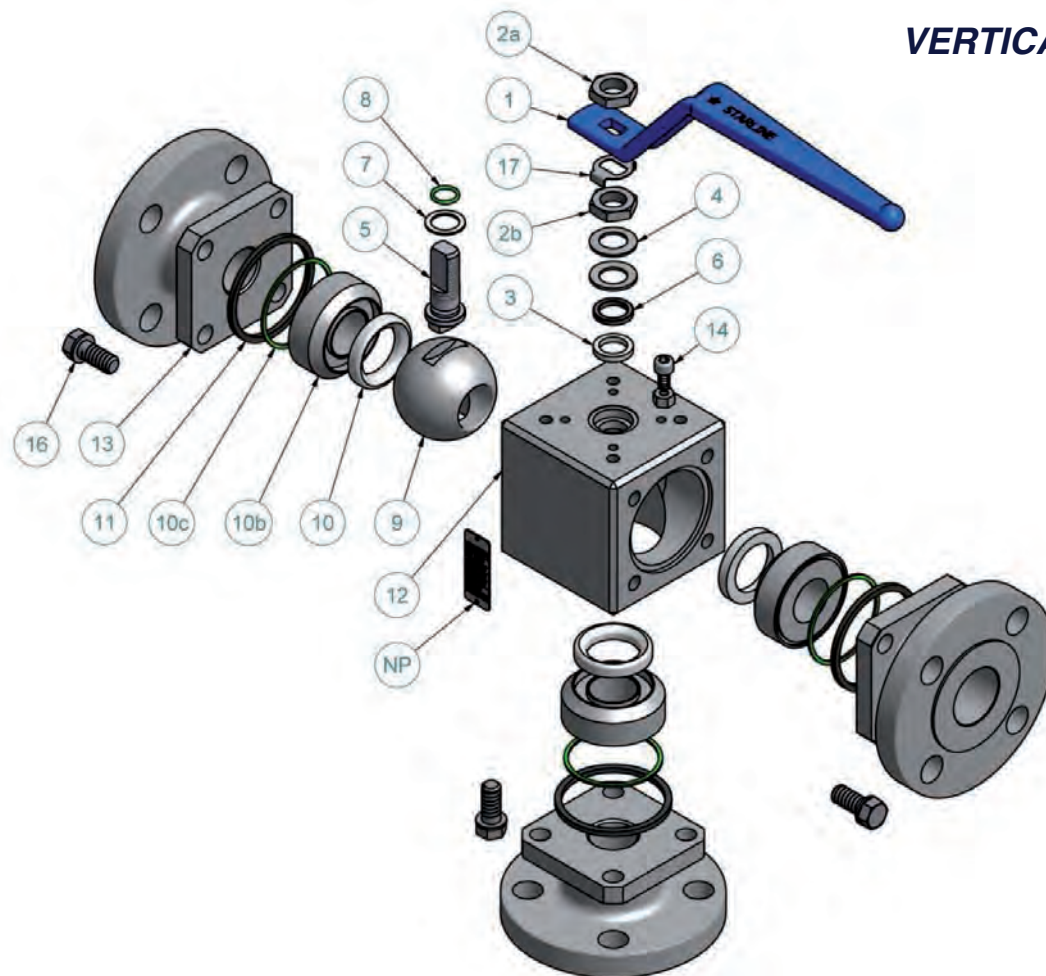
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	RF
1/2" x 3/8"	15 x 10	204	11.1	79	102	28.5	144	4.2
3/8" x 1/2"	20 x 15	231	14.2	97	115.5	30	172.5	5.7
1" x 3/4"	25 x 20	267	21	102	133.5	39	172.5	9.5
1.1/4" x 1"	32 x 25	277	25.4	114	138.5	42.5	218	13.5

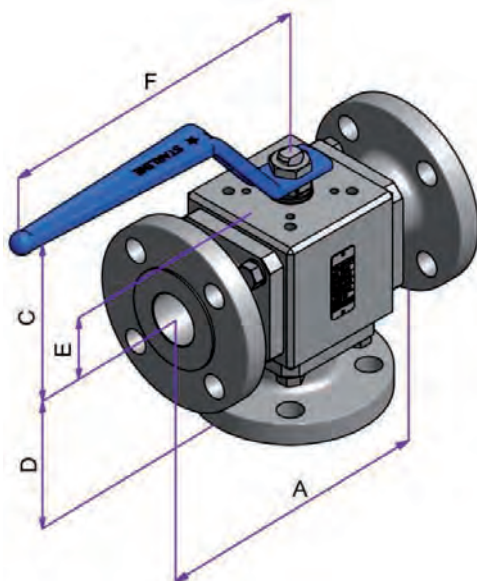
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

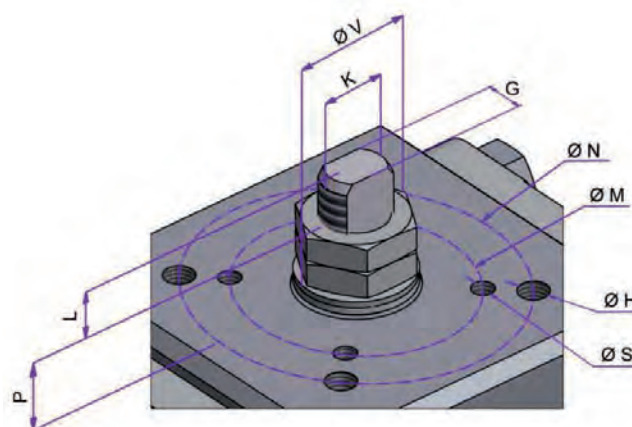
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	O-ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	"S"	"S"	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

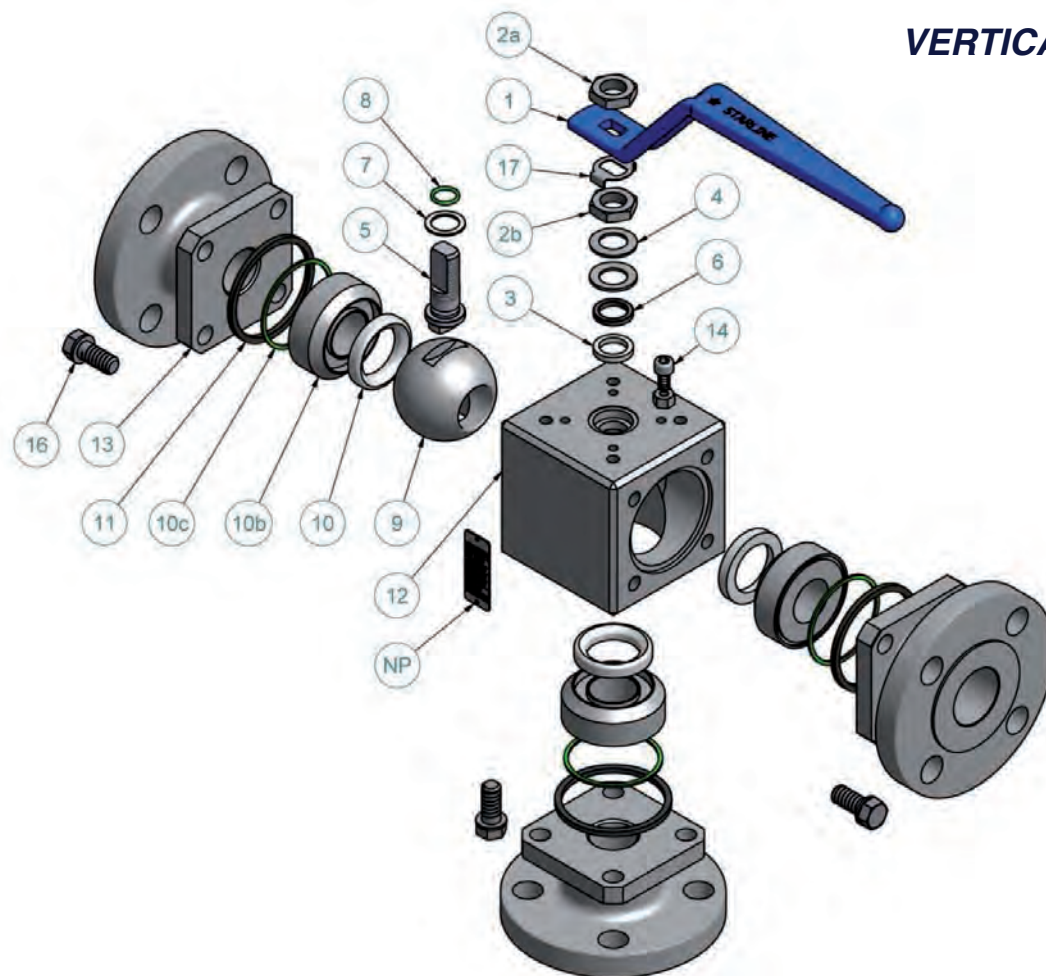
FULL BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	PN 10 ÷ 40
1/2"x 1/2"	15 x 15	169	14.2	97	84.5	30	172.5	3.8
3/4"x 3/4"	20 x 20	200	21	102	100	39	172.5	9
1"x 1"	25 x 25	208	25.4	114	204	42.5	218	10.8
1.1/4"x 1.1/4"	32 x 32	242	31.7	118	121	53	218	14.5
1.1/2"x 1.1/2"	40 x 40	261	38	126	130.5	56	218	20
2"x 2"	50 x 50	334	49	144	167	75	420	40
2.1/2"x 2.1/2"	65 x 65	408	63.5	157	204	95	420	70

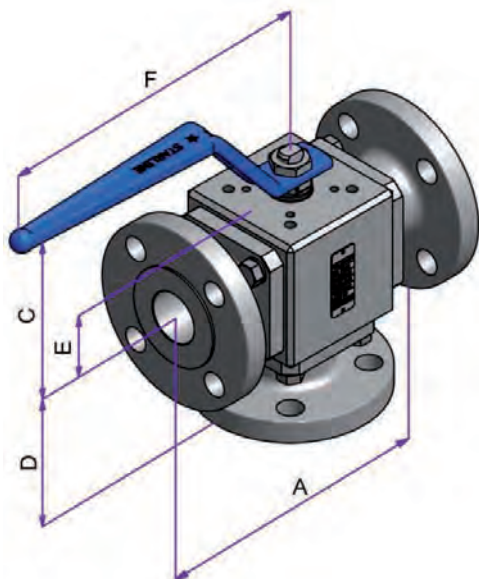
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

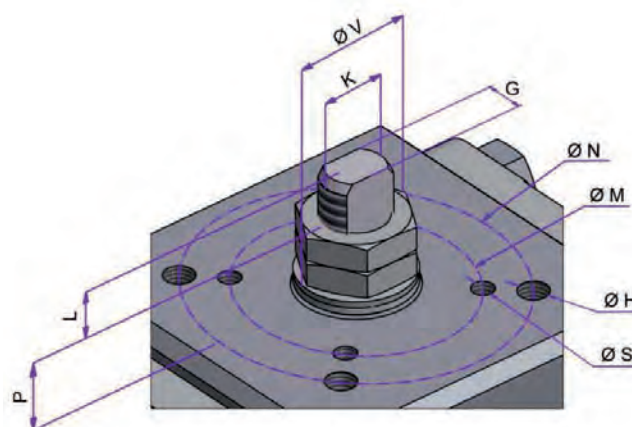
VERTICAL PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	3	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	3	Seat seal	Viton	Viton	See seat and seal material table
11	3	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	3	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

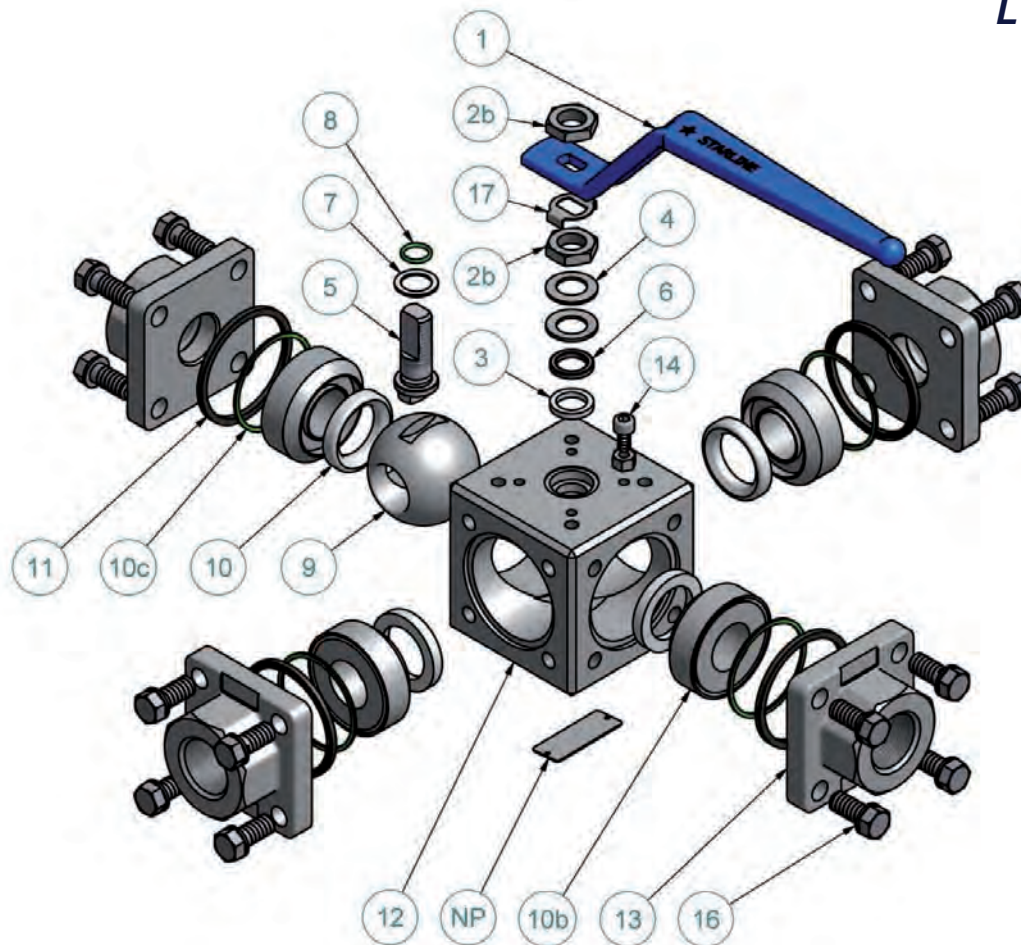
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]
NPS	DN	A	BORE	C	D	E	F	PN 10 ÷ 40
1/2" x 3/8"	15 x 10	168	11.1	79	84	28.5	144	3
3/8" x 1/2"	20 x 15	189	14.2	97	94.5	30	172.5	4
1" x 3/4"	25 x 20	210	21	102	105	39	172.5	9.5
1.1/4" x 1"	32 x 25	230	25.4	114	115	42.5	218	11.5
1.1/2" x 1.1/4"	40 x 32	264	31.7	118	132	53	218	15
2" x 1.1/2"	50 x 40	291	38	126	145.5	56	218	20.5
2.1/2" x 2"	65 x 50	394	49	144	197	75	420	42
3" x 2.1/2"	80 x 65	430	63.5	157	215	95	420	70

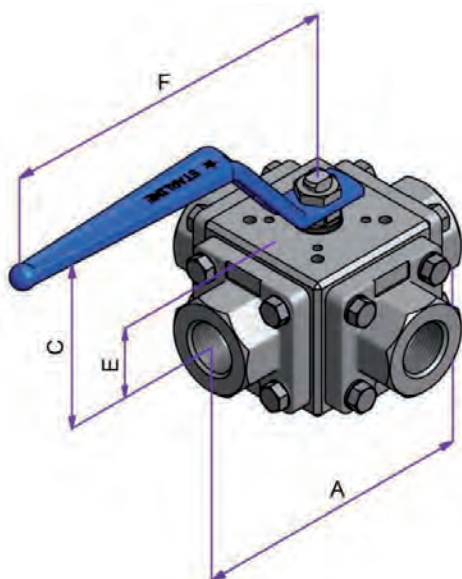
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

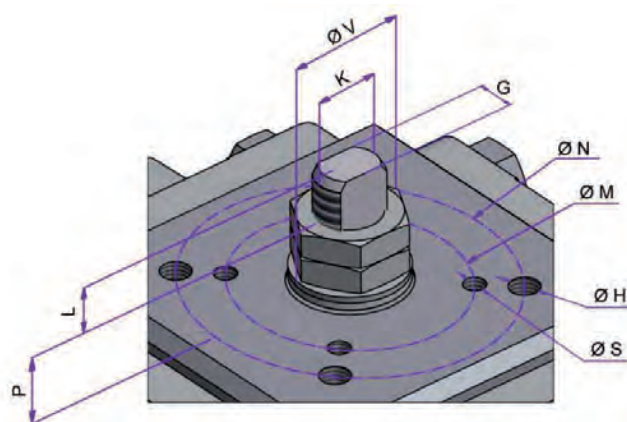
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton	Viton	See seat and seal material table
11	4	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT

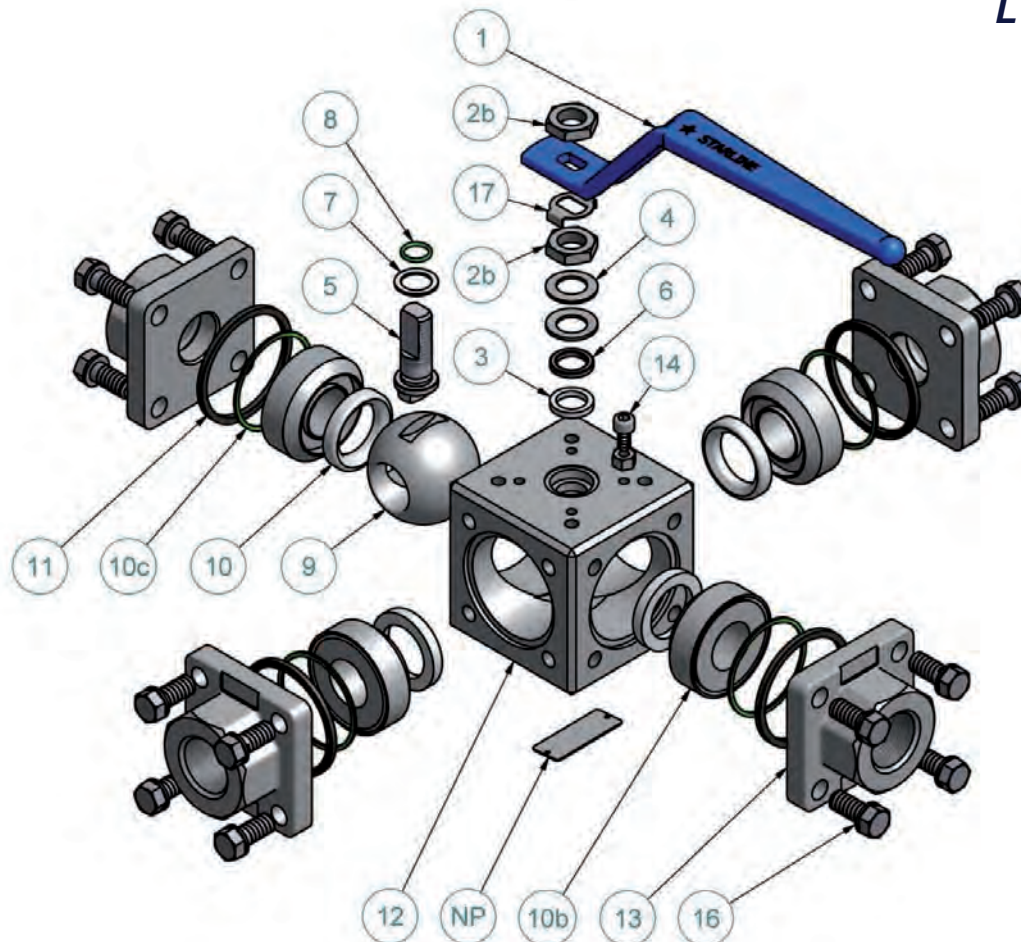


**TOP
VIEW**

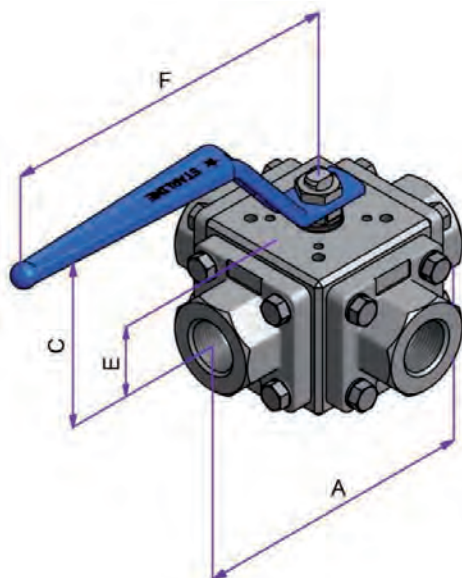
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT					
1/4"x 1/4"	08 x 08	113	11.1	79	28.5	144	2.8
3/8"x 3/8"	10 x 10	113	11.1	79	28.5	144	2.8
1/2"x 1/2"	15 x 15	119	14.2	97	30	172.5	3.3
3/4"x 3/4"	20 x 20	150	21	102	39	172.5	5.5
1"x 1"	25 x 25	158	25.4	114	42.5	218	8

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4"x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2"x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4"x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

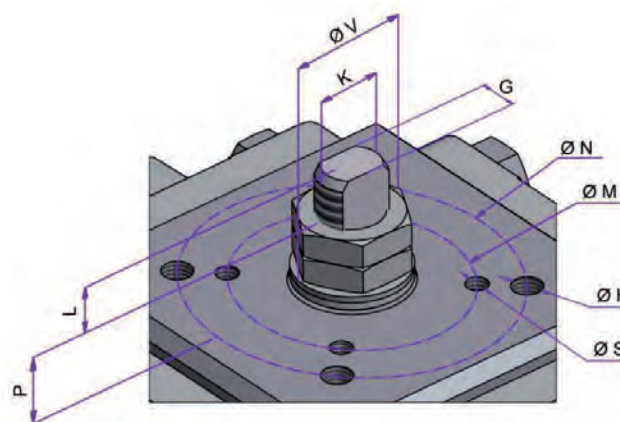
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton	Viton	See seat and seal material table
11	4	1° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT

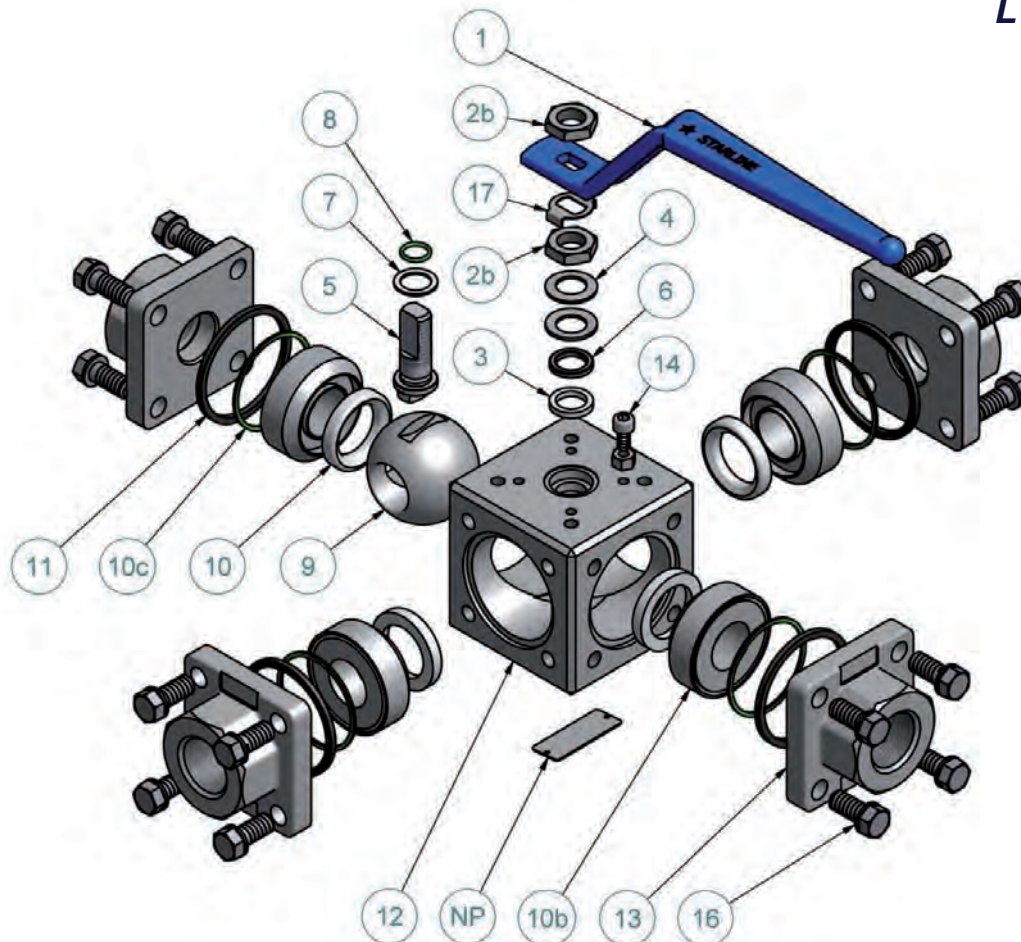


**TOP
VIEW**

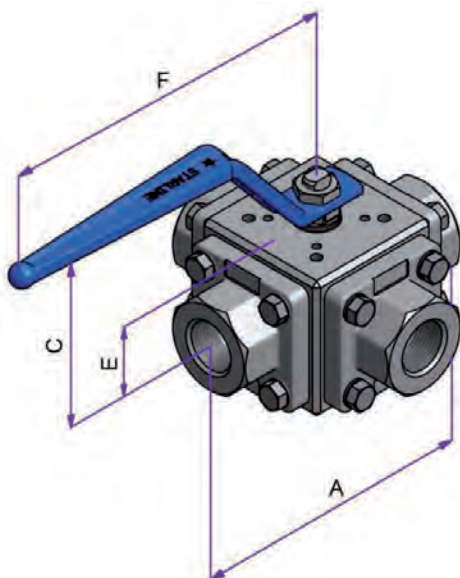
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT					
1.1/4"x 1.1/4"	32 x 32	182	31.7	118	53	218	12.2
1.1/2"x 1.1/2"	40 x 40	201	38	126	56	218	15.4
2"x 2"	50 x 50	262	49	144	75	420	42
2.1/2"x 2.1/2"	65 x 65	423	63.5	157	95	420	70

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4"x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

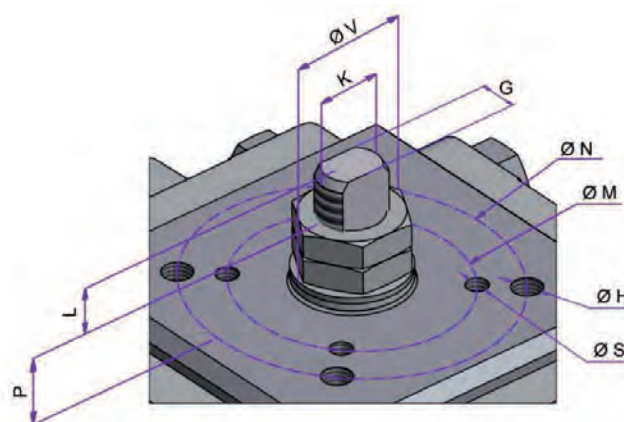
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

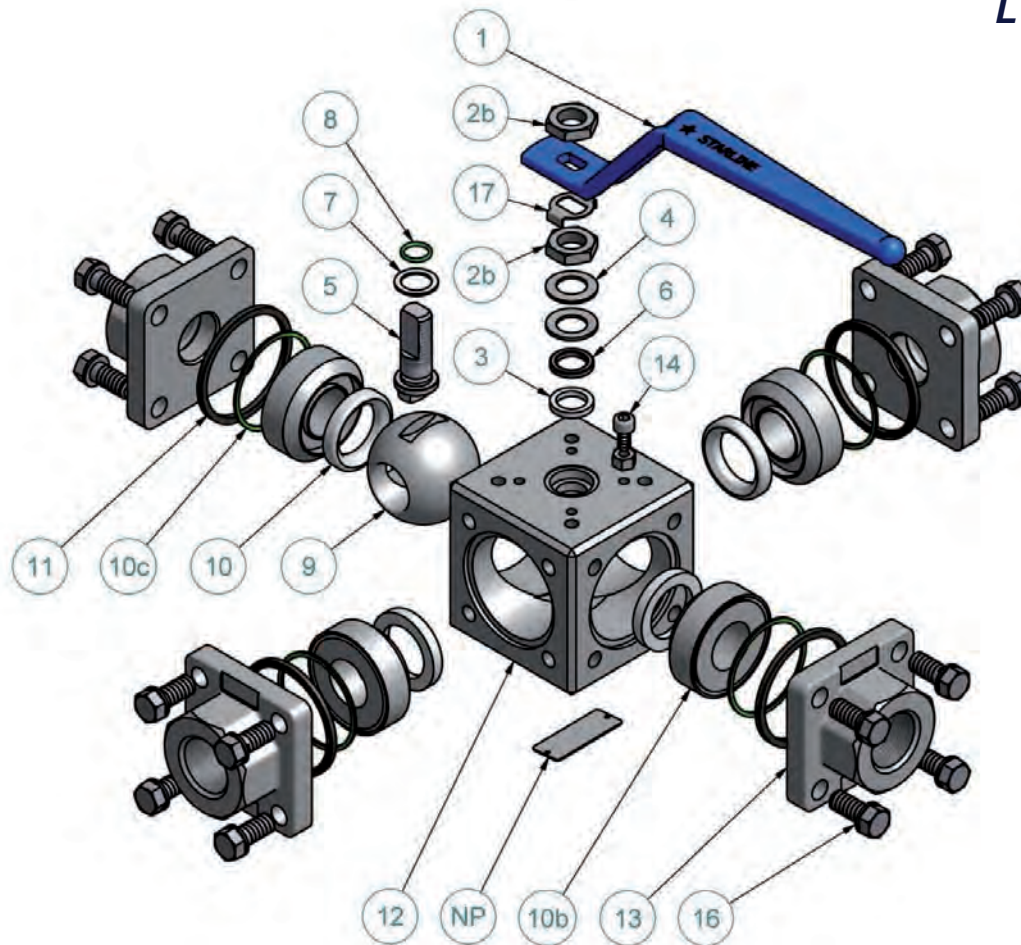
REDUCED BORE

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	113	11.1	79	28.5	144	2.8
3/4"x 1/2"	20 x 15	119	14.2	97	30	172.5	3.3
1"x 3/4"	25 x 20	150	21	102	39	172.5	5.6
1.1/4"x 1"	32 x 25	158	25.4	114	42.5	218	7.5

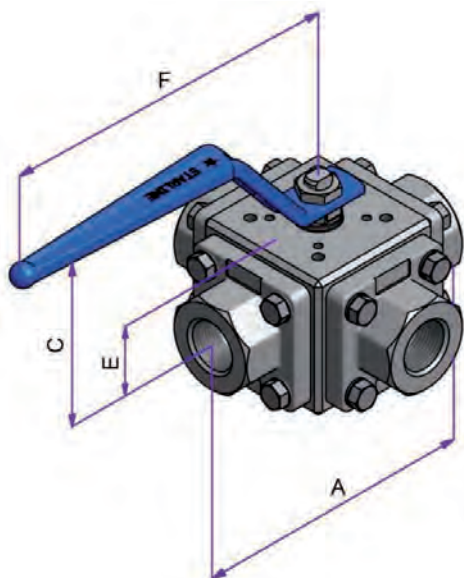
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

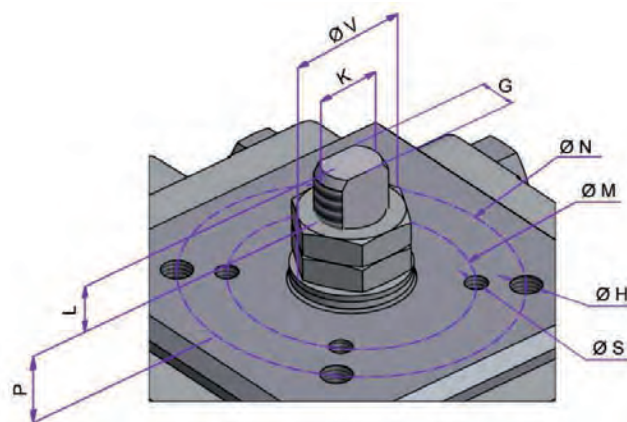
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

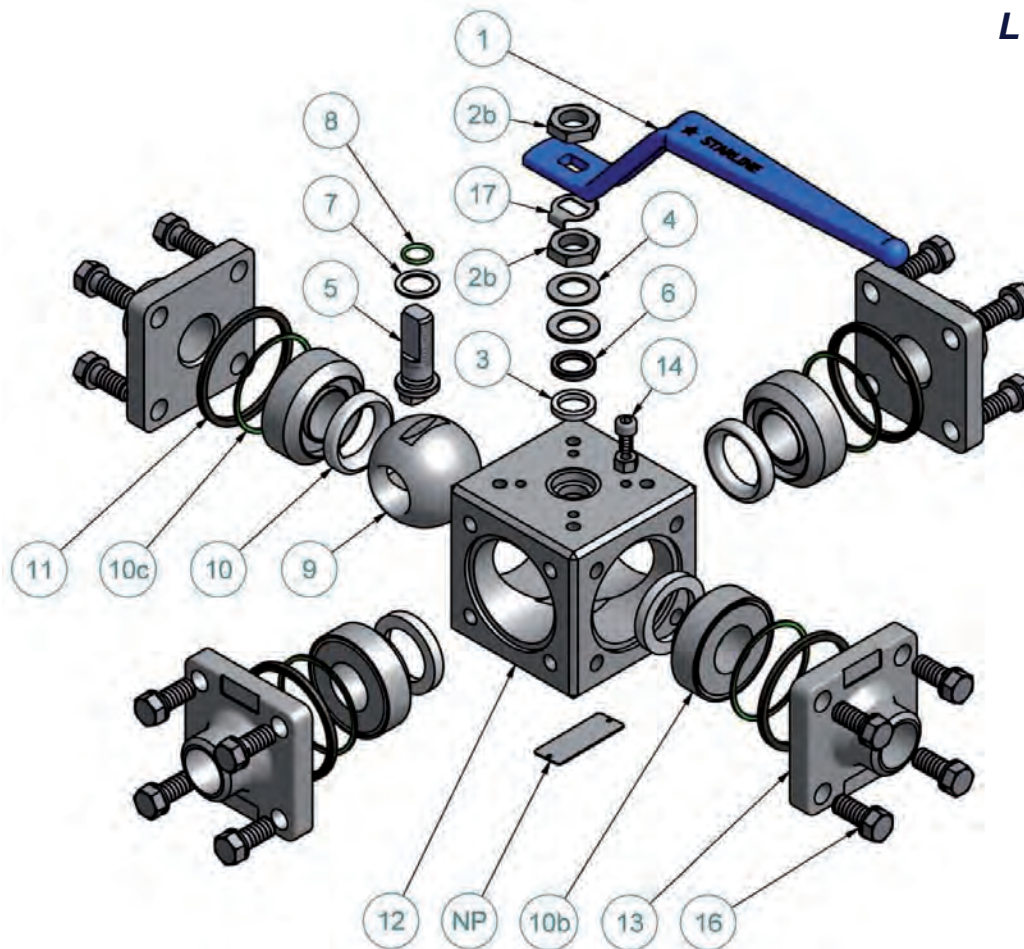
REDUCED BORE

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	182	31.7	118	53	218	12
2"x 1.1/2"	50 x 40	201	38	126	56	218	14.5
2.1/2"x 2"	65 x 50	262	49	144	75	420	41
3"x 2.1/2"	80 x 65	423	63.5	157	95	420	71

TOP MOUNTING

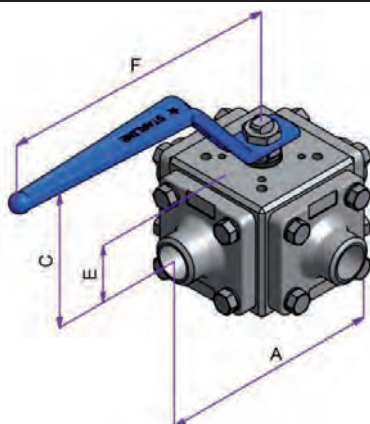
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

L - T PORT

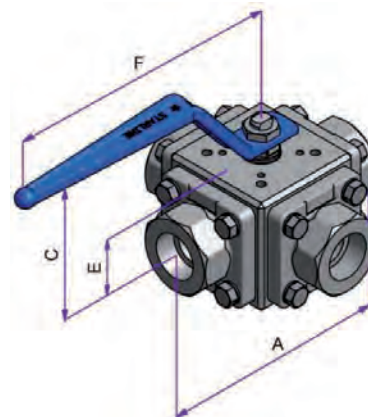


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316

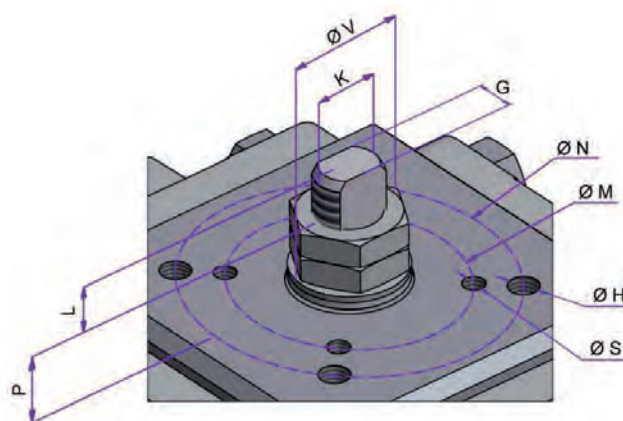
BW-PE



SW



**TOP
VIEW**



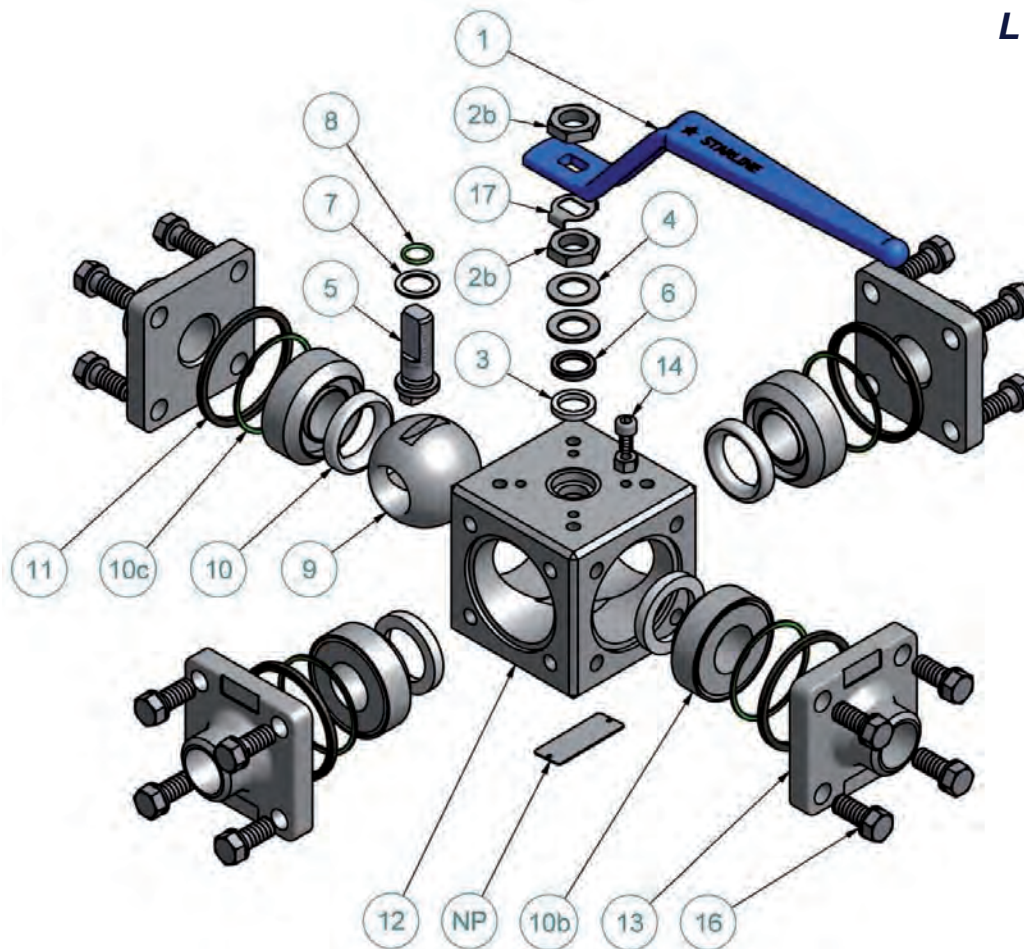
FULL BORE

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	113	113	11.1	79	28.5	144	2.8	2.8
3/8" x 3/8"	10 x 10	113	113	11.1	79	28.5	144	2.8	2.8
1/2" x 1/2"	15 x 15	119	119	14.2	97	30	172.5	3.3	3.3
3/4" x 3/4"	20 x 20	150	150	21	102	39	172.5	5.5	5.5
1" x 1"	25 x 25	158	158	25.4	114	42.5	218	8	8

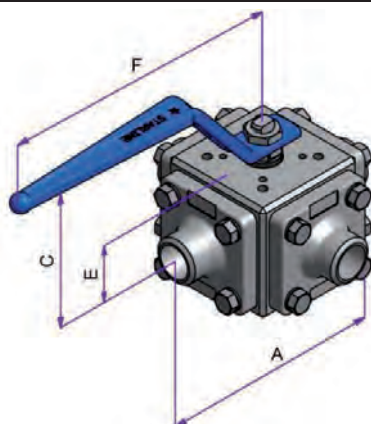
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4" x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

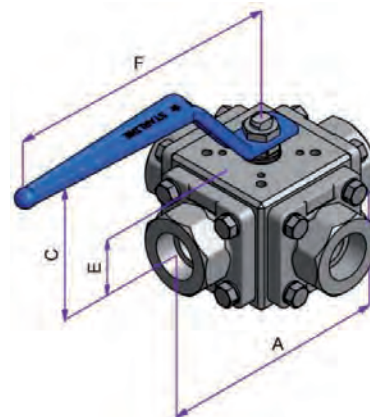
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

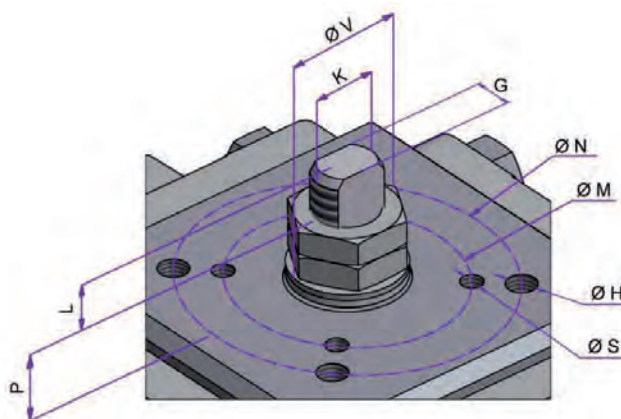


BW-PE



SW

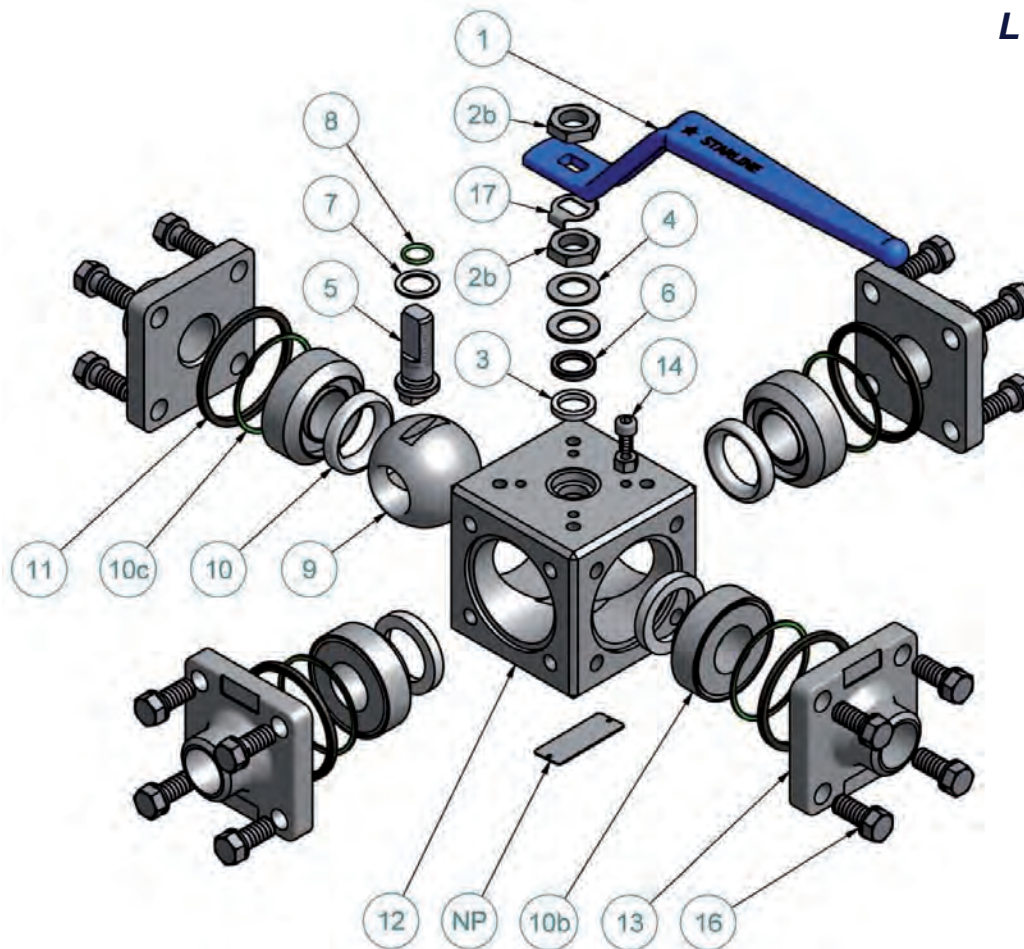
**TOP
VIEW**



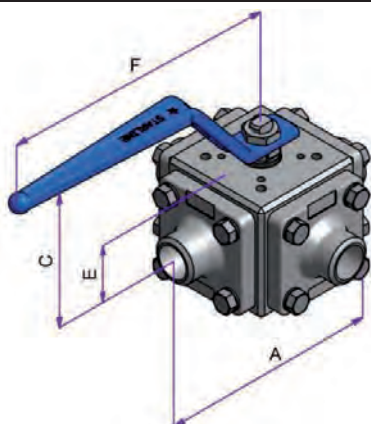
FULL BORE									
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1.1/4" x 1.1/4"	32 x 32	182	182	31.7	118	53	218	12.2	12.2
1.1/2" x 1.1/2"	40 x 40	201	201	38	126	56	218	15.4	15.4
2" x 2"	50 x 50	302	302	49	144	75	420	42	42
2.1/2" x 2.1/2"	65 x 65	423	423	63.5	157	95	420	70	70

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

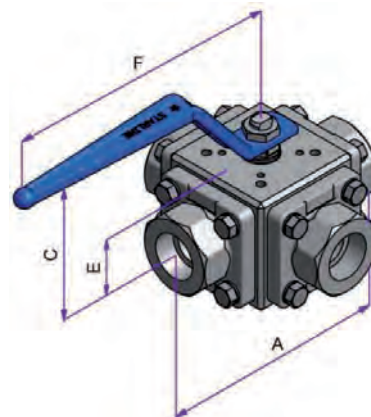
L - T PORT



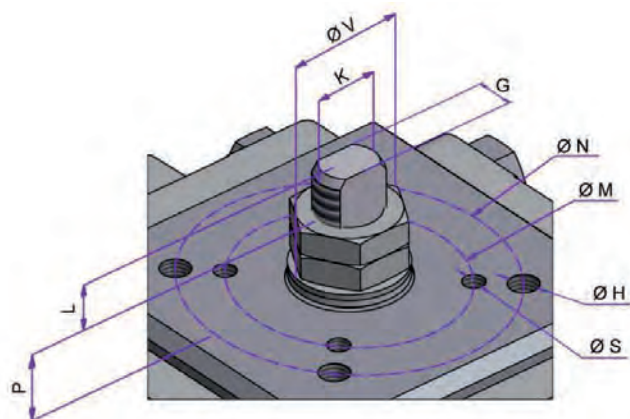
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



BW-PE



SW



**TOP
VIEW**

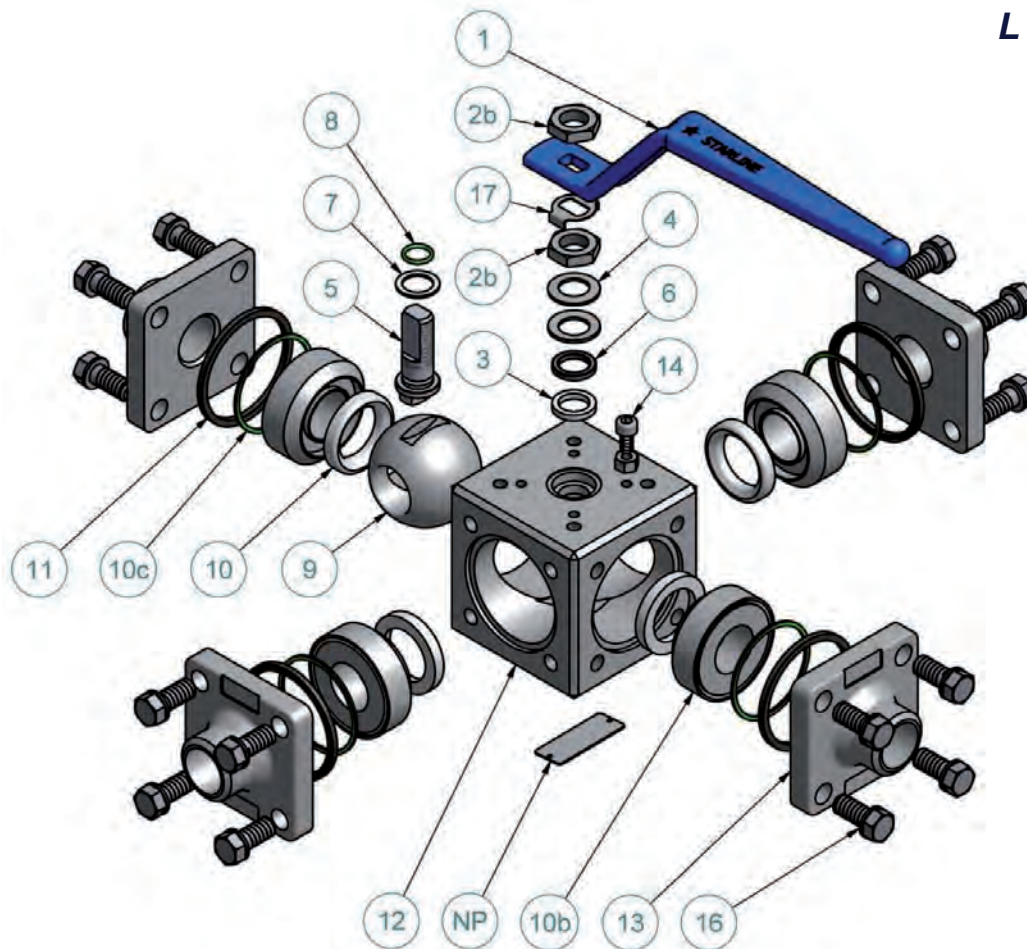
REDUCED BORE

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	113	113	11.1	79	28.5	144	2.8	2.8
3/4"x 1/2"	20 x 15	119	119	14.2	97	30	172.5	3.3	3.3
1"x 3/4"	25 x 20	150	150	21	102	39	172.5	5.6	5.6
1.1/4"x 1"	32 x 25	158	158	25.4	114	42.5	218	7.5	7.5

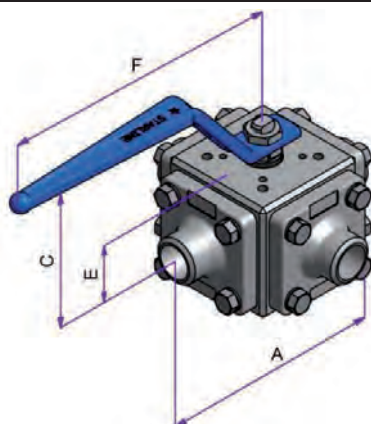
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

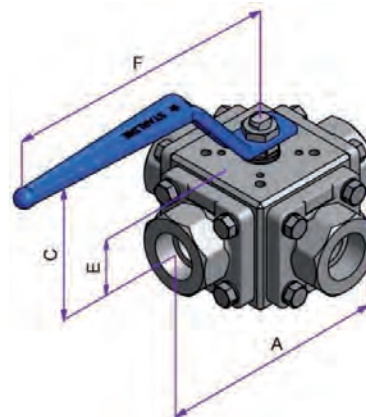
L - T PORT



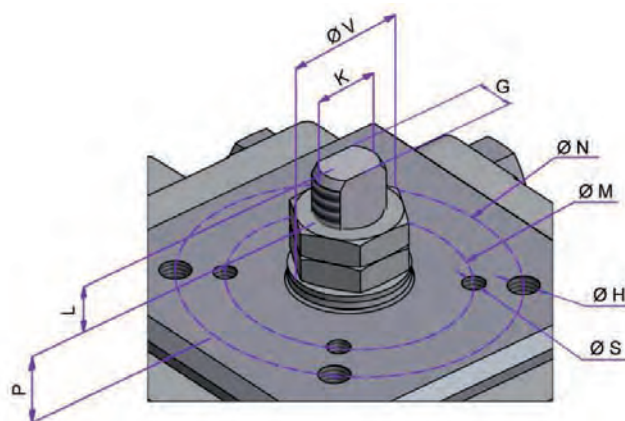
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



BW-PE



SW



**TOP
VIEW**

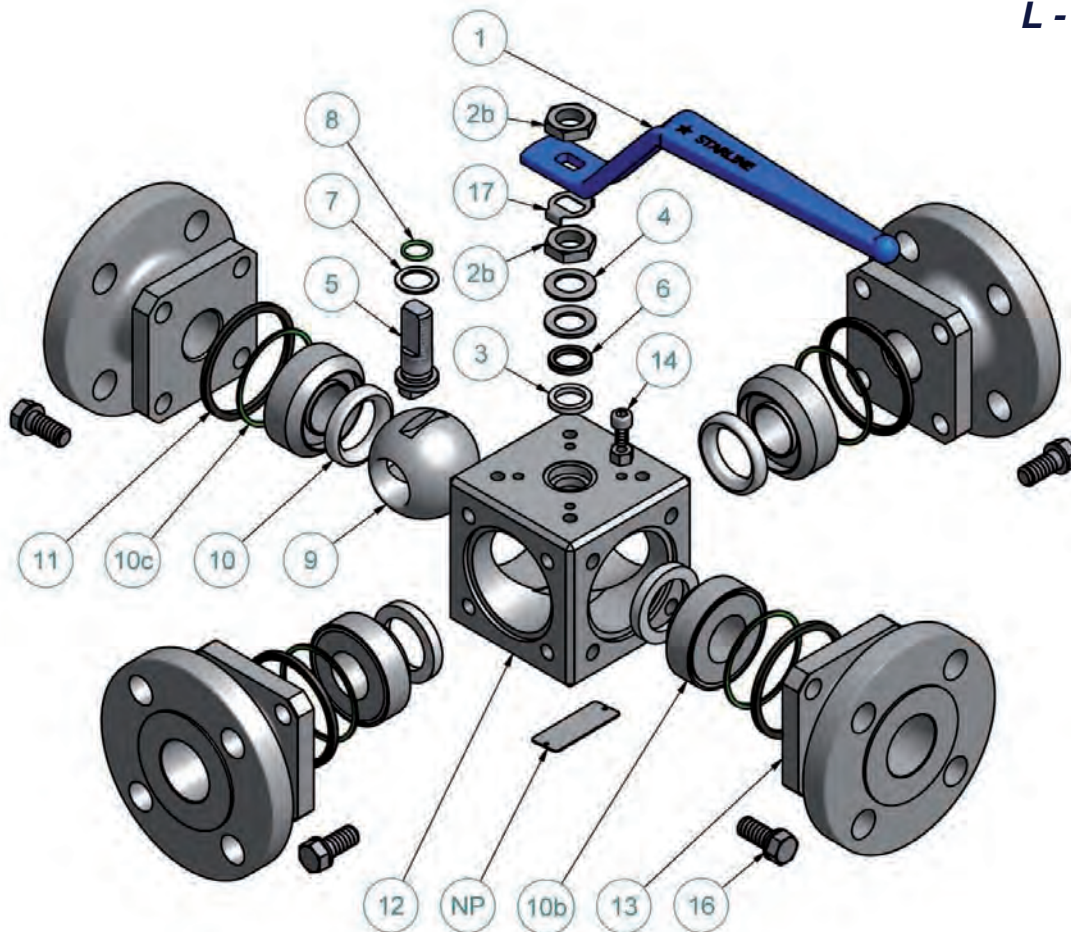
REDUCED BORE

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	182	182	31.7	118	53	218	12	12
2"x 1.1/2"	50 x 40	201	201	38	126	56	218	14.5	14.5
2.1/2"x 2"	65 x 50	302	302	49	144	75	420	41	41
3"x 2.1/2"	80 x 65	423	423	63.5	157	95	420	71	71

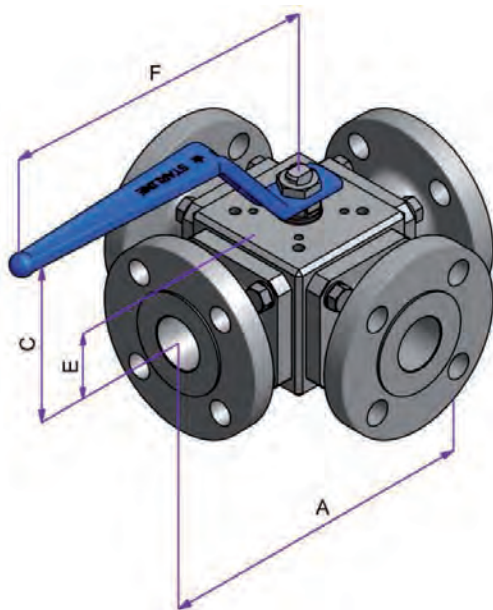
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

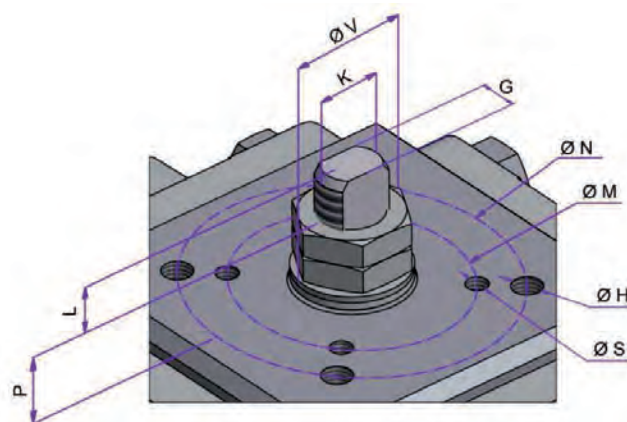
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

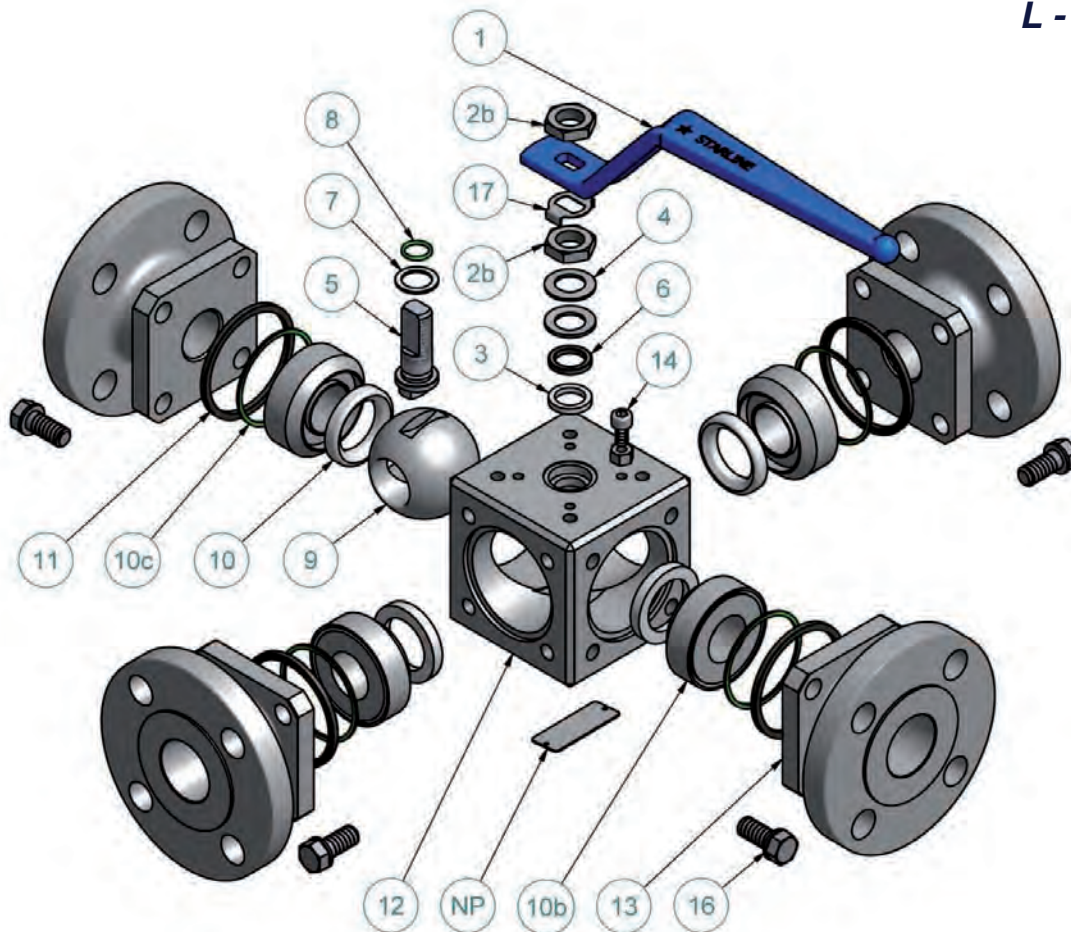
FULL BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	179	14.2	97	30	172.5	4.3
3/4" x 3/4"	20 x 20	202	21	102	39	172.5	9.3
1" x 1"	25 x 25	213	25.4	114	42.5	218	11.5
1.1/4" x 1.1/4"	32 x 32	240	31.7	118	53	218	14.7
1.1/2" x 1.1/2"	40 x 40	252	38	126	56	218	19.1
2" x 2"	50 x 50	320	49	144	75	420	45.4
2.1/2" x 2.1/2"	65 x 65	359	63.5	157	95	420	74

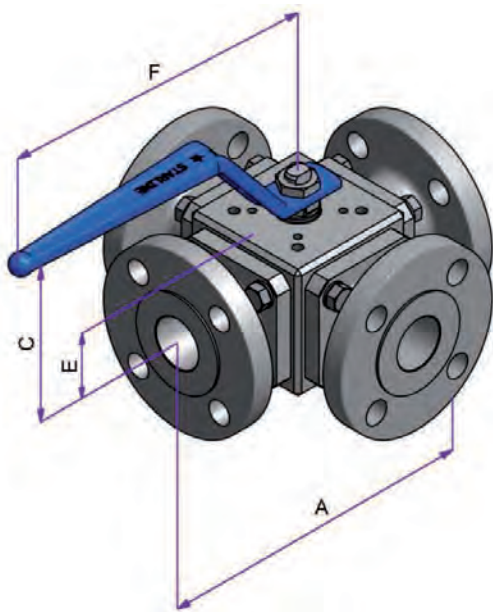
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

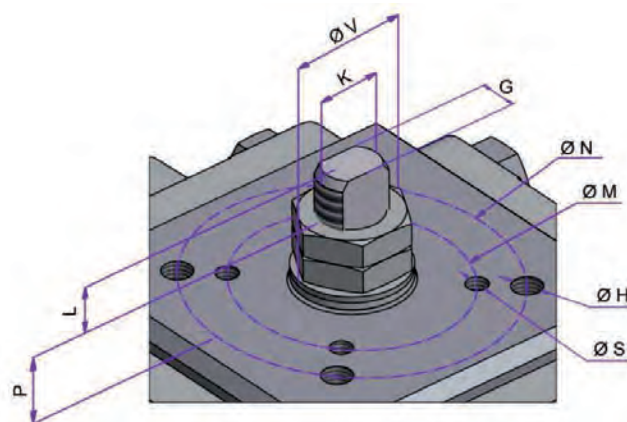
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

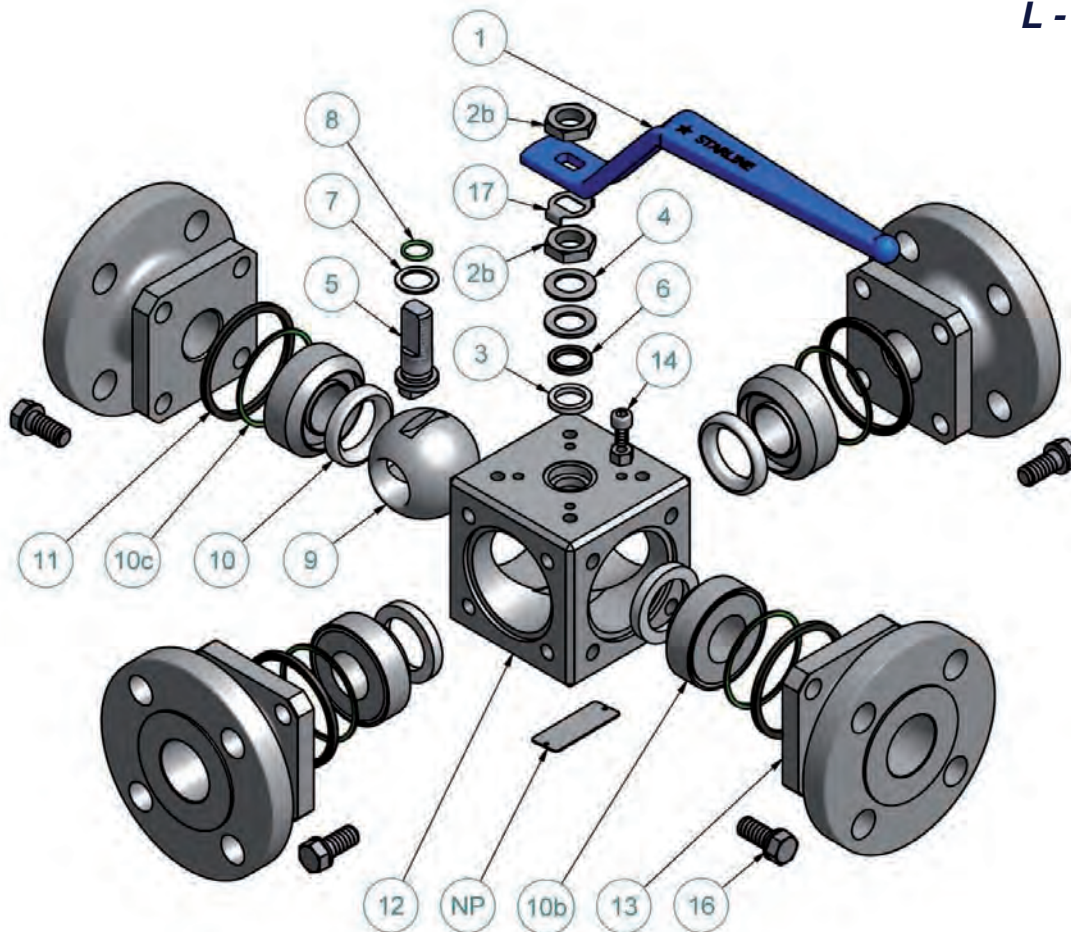
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 3/8"	15 x 10	146	11.1	79	28.5	144	3.3
3/8" x 1/2"	20 x 15	156.5	14.2	97	30	172.5	4.8
1" x 3/4"	25 x 20	177	21	102	39	172.5	9
1.1/4" x 1"	32 x 25	188	25.4	114	42.5	218	12.2
1.1/2" x 1.1/4"	40 x 32	227	31.7	118	53	218	15.4
2" x 1.1/2"	50 x 40	239	38	126	56	218	20.6
2.1/2" x 2"	65 x 50	295	49	144	75	420	46.5
3" x 2.1/2"	80 x 65	321	63.5	157	95	420	78

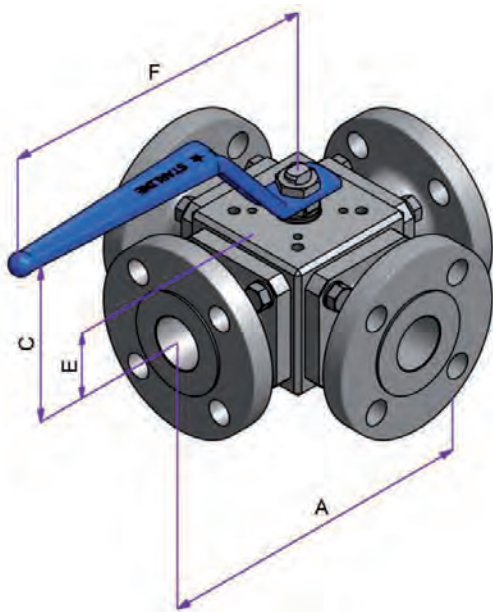
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

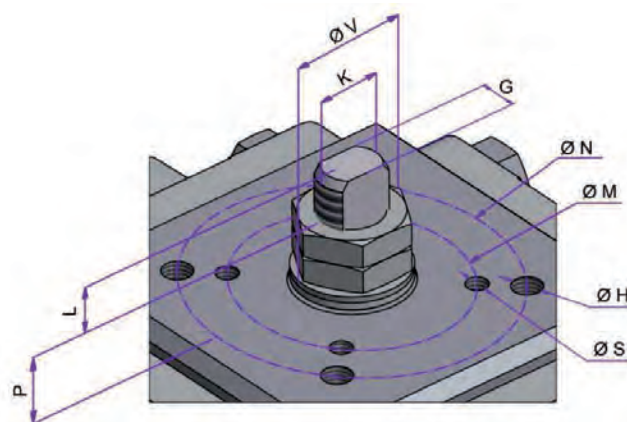
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

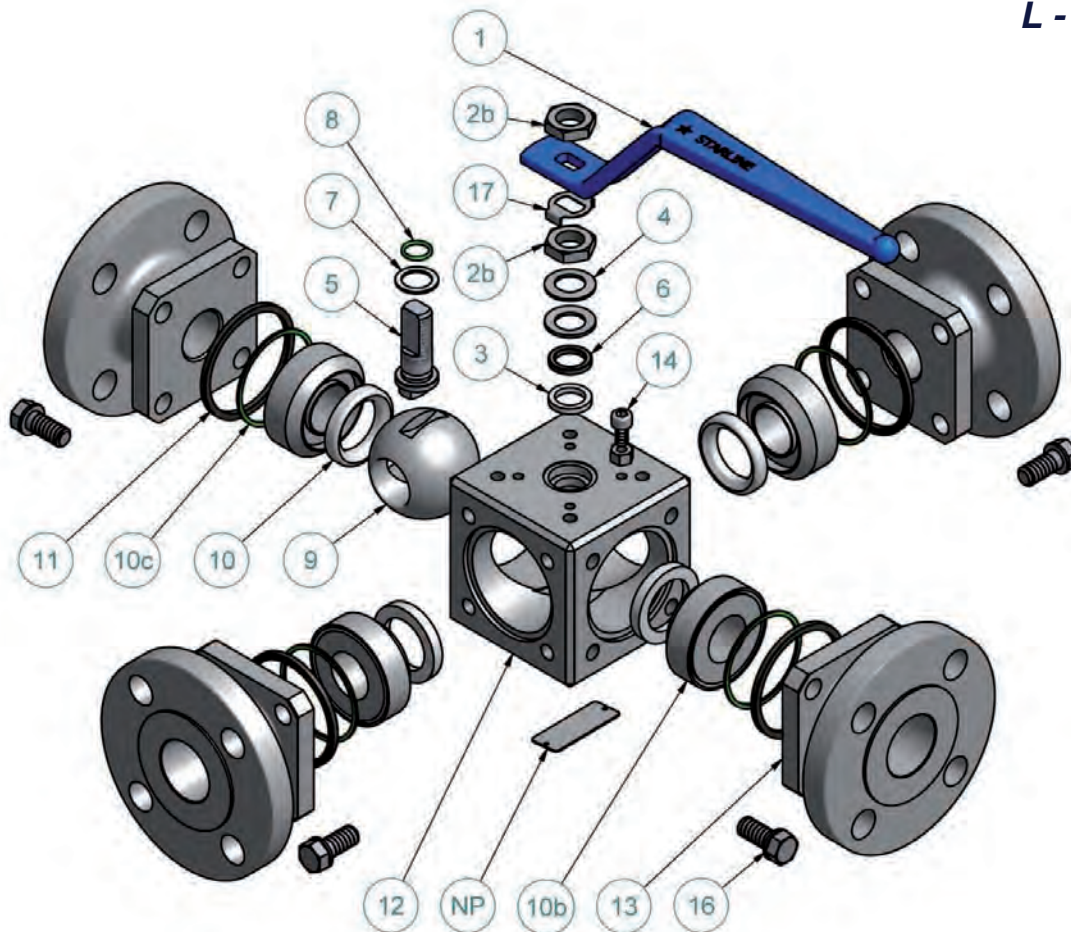
FULL BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	179	14.2	97	30	172.5	5
3/4" x 3/4"	20 x 20	202	21	102	39	172.5	10.3
1" x 1"	25 x 25	213	25.4	114	42.5	218	14
1.1/4" x 1.1/4"	32 x 32	240	31.7	118	53	218	17.7
1.1/2" x 1.1/2"	40 x 40	252	38	126	56	218	24
2" x 2"	50 x 50	320	49	144	75	420	48
2.1/2" x 2.1/2"	65 x 65	359	63.5	157	95	420	77

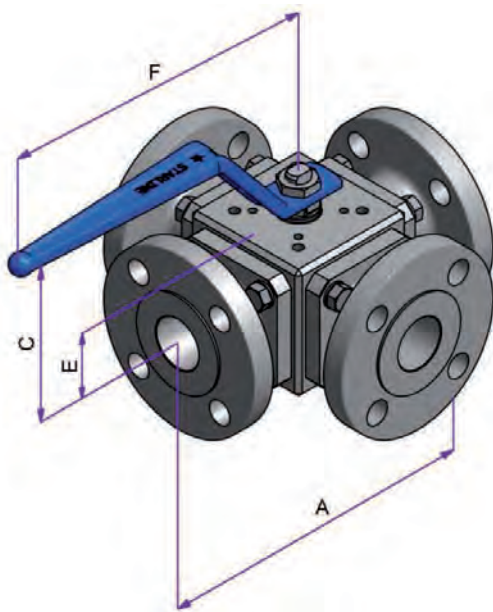
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

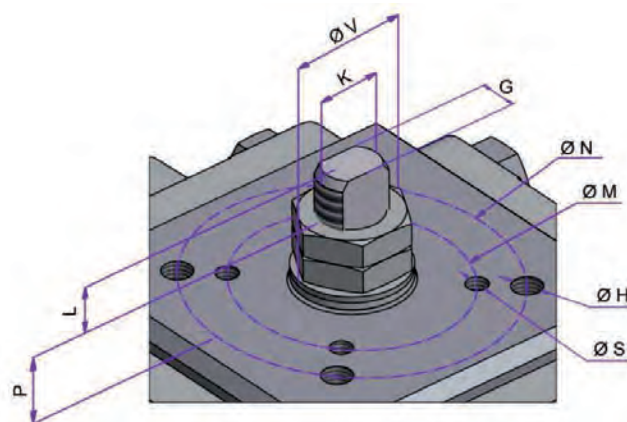
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

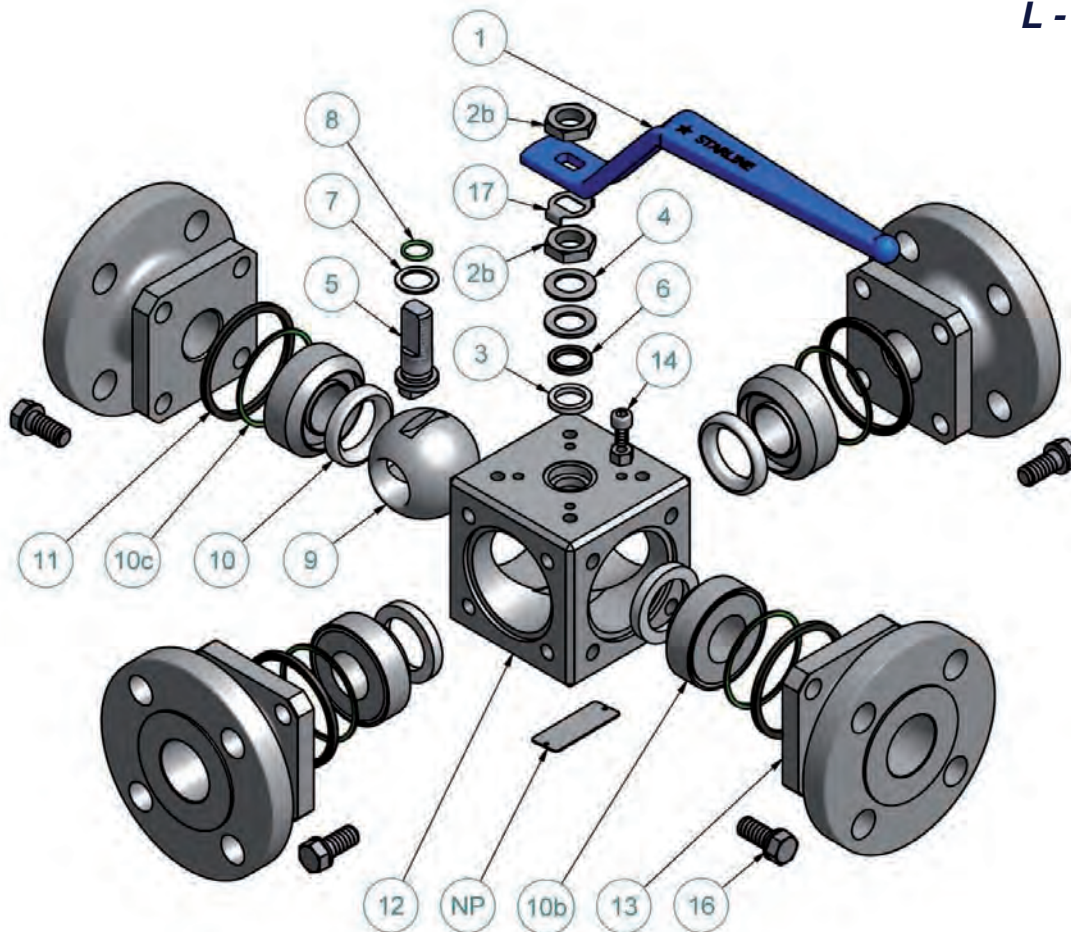
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 3/8"	15 x 10	178	11.1	79	28.5	144	4
3/8" x 1/2"	20 x 15	191	14.2	97	30	172.5	6.2
1" x 3/4"	25 x 20	215	21	102	39	172.5	10.2
1.1/4" x 1"	32 x 25	226	25.4	114	42.5	218	14.7
1.1/2" x 1.1/4"	40 x 32	253	31.7	118	53	218	18
2" x 1.1/2"	50 x 40	277	38	126	56	218	25.6
2.1/2" x 2"	65 x 50	345	49	144	75	420	50
3" x 2.1/2"	80 x 65	401	63.5	157	95	420	82

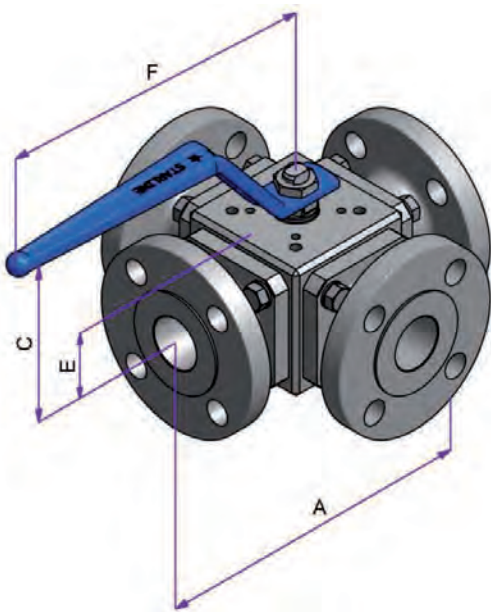
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2" x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3" x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

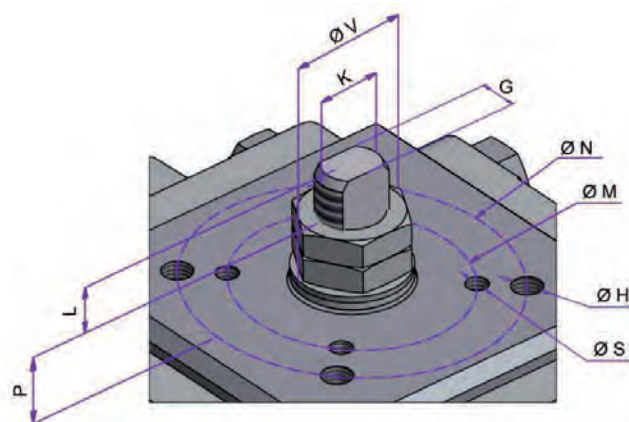
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

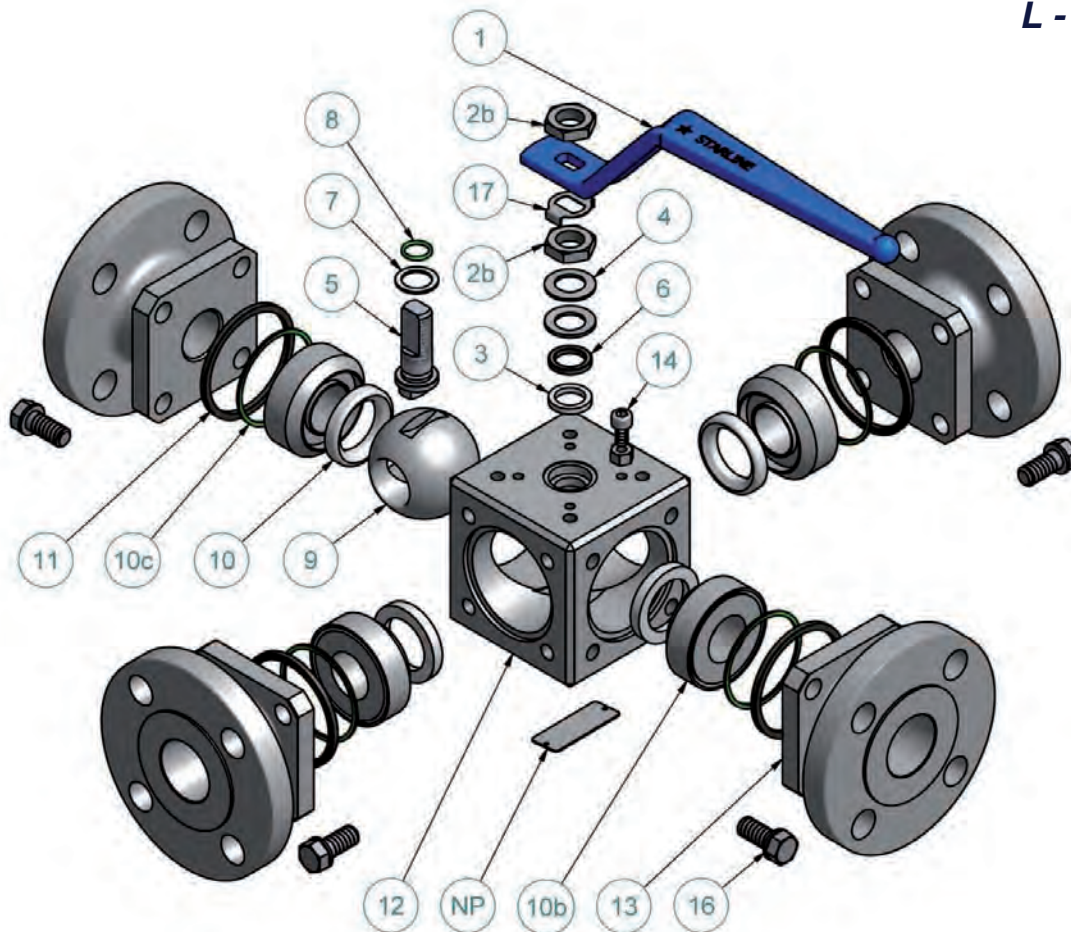
FULL BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	199	14.2	97	30	172.5	6.3
3/4" x 3/4"	20 x 20	223	21	102	39	172.5	11.7
1" x 1"	25 x 25	257	25.4	114	42.5	218	16

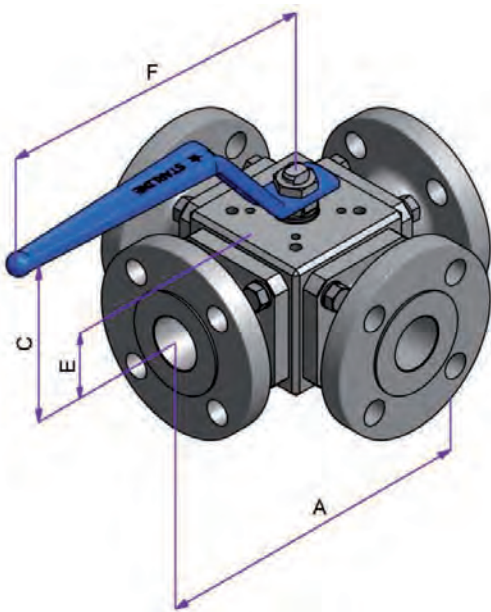
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

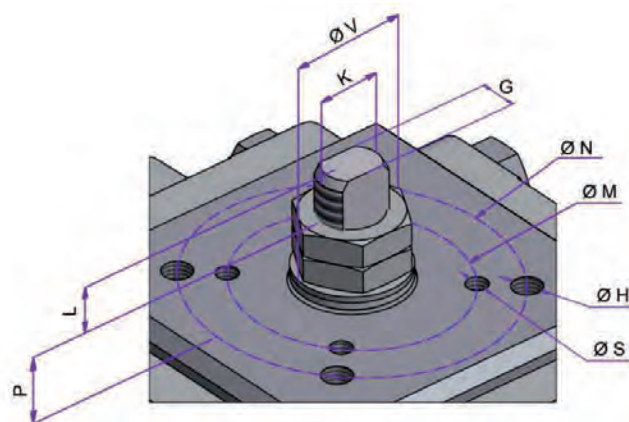
L - T PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	1	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	2	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	1	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	16	Bolts	L7 + Zinc Plated	B8	Special materials
17	1	Stop Washer	AISI 304	AISI 304	AISI 316



RF



**TOP
VIEW**

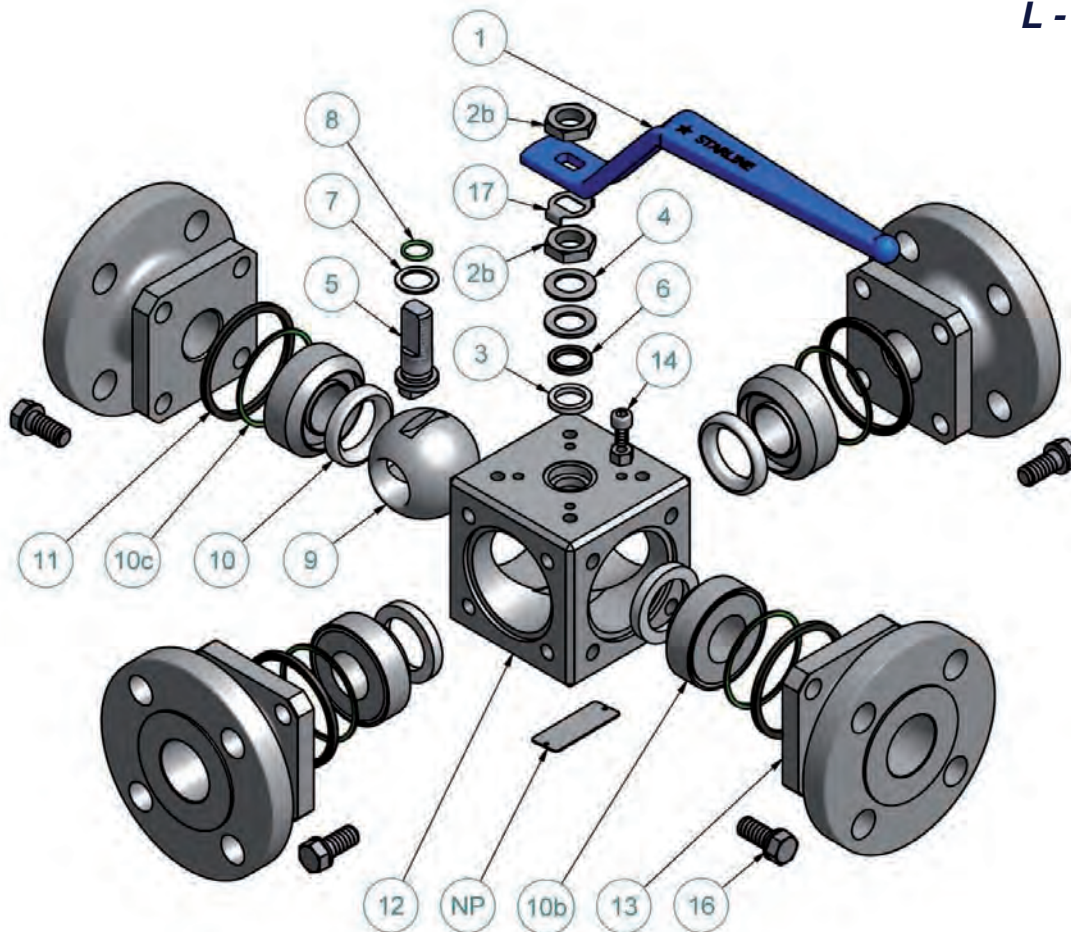
REDUCED BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 3/8"	15 x 10	204	11.1	79	28.5	144	5.3
3/8" x 1/2"	20 x 15	231	14.2	97	30	172.5	7.6
1" x 3/4"	25 x 20	267	21	102	39	172.5	12.1
1.1/4" x 1"	32 x 25	277	25.4	114	42.5	218	17

TOP MOUNTING

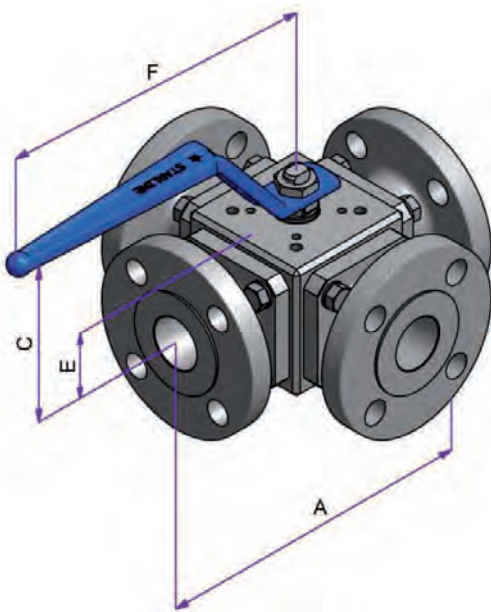
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1" x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4" x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07

L - T PORT

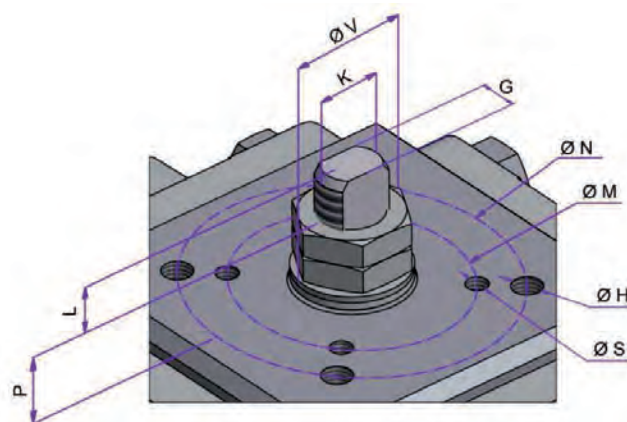


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

L - T PORT - DIMENSIONS FLANGED DIN - PN10÷40



RF



**TOP
VIEW**

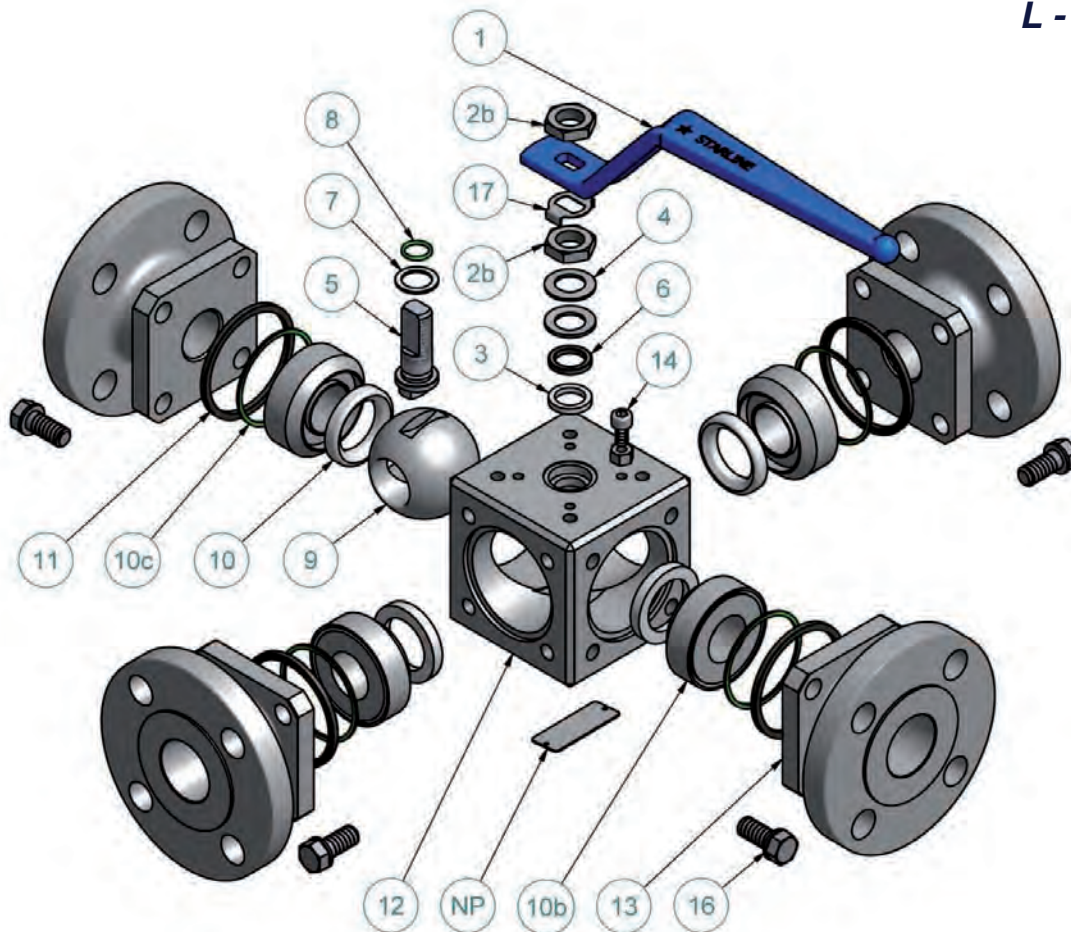
FULL BORE

VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	PN 10 ÷ 40
1/2" x 1/2"	15 x 15	169	14.2	97	30	172.5	4.8
3/4" x 3/4"	20 x 20	200	21	102	39	172.5	10.5
1" x 1"	25 x 25	208	25.4	114	42.5	218	12.8
1.1/4" x 1.1/4"	32 x 32	242	31.7	118	53	218	17
1.1/2" x 1.1/2"	40 x 40	261	38	126	56	218	23.4
2" x 2"	50 x 50	334	49	144	75	420	44.5
2.1/2" x 2.1/2"	65 x 65	408	63.5	157	95	420	76

TOP MOUNTING

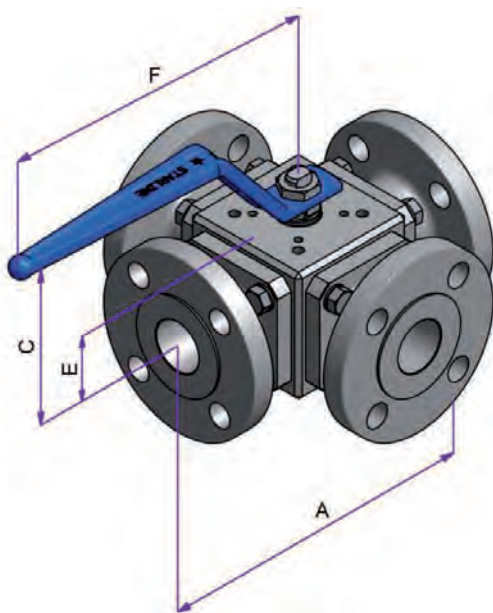
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
3/4" x 3/4"	20 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 1"	25 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 2"	50 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2.1/2"	65 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

L - T PORT

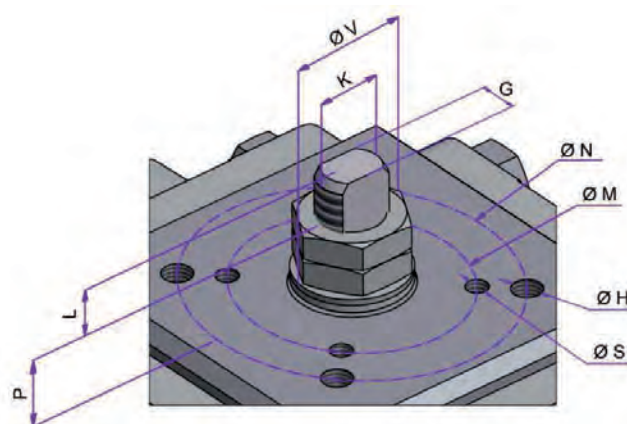


ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

L - T PORT - DIMENSIONS FLANGED DIN - PN10÷40



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	168	11.1	79	28.5	144	4
3/8"x 1/2"	20 x 15	189	14.2	97	30	172.5	5.5
1"x 3/4"	25 x 20	210	21	102	39	172.5	11.5
1.1/4"x 1"	32 x 25	230	25.4	114	42.5	218	14
1.1/2"x 1.1/4"	40 x 32	264	31.7	118	53	218	18.4
2"x 1.1/2"	50 x 40	291	38	126	56	218	25
2.1/2"x 2"	65 x 50	394	49	144	75	420	48
3"x 2.1/2"	80 x 65	430	63.5	157	95	420	78.5

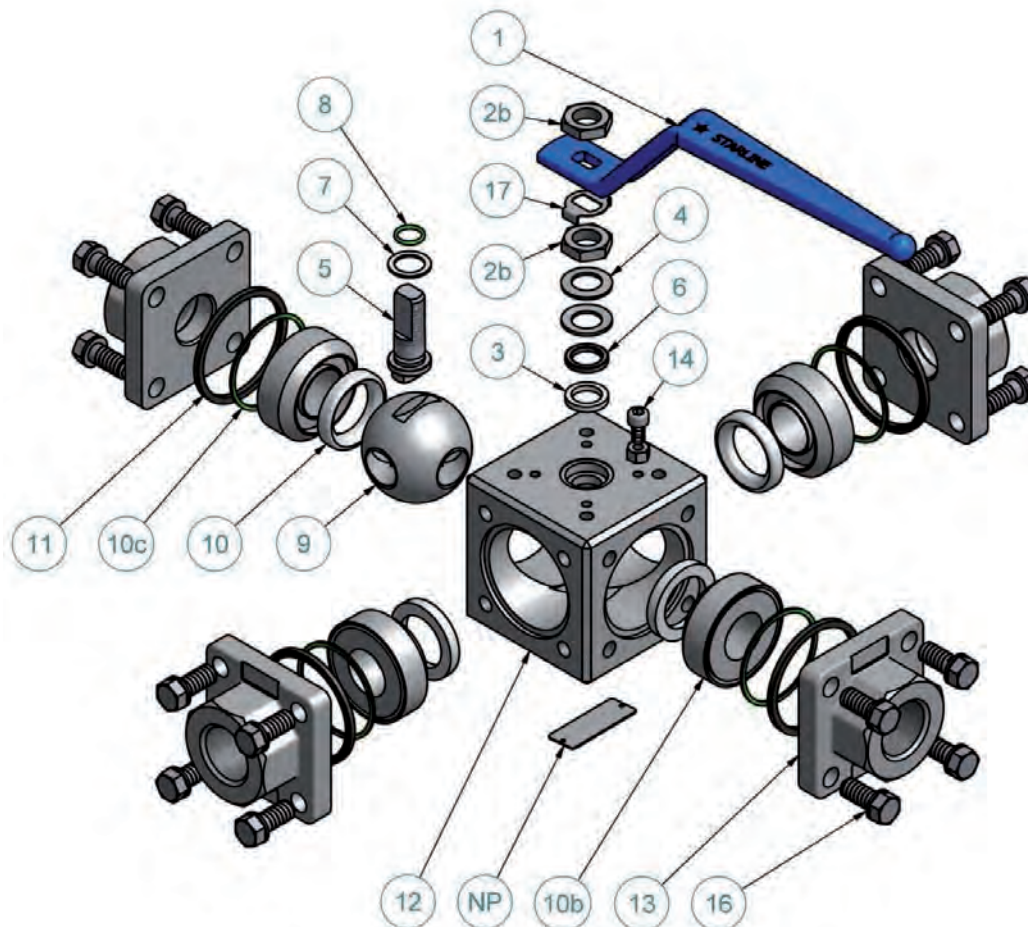
TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8"x 1/2"	20 x 15	9	12.5	21	M12x1.25	7.5	42	M5x8	F04	-	-	-
1"x 3/4"	25 x 20	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1.1/4"x 1"	32 x 25	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2.1/2"x 2"	65 x 50	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
3"x 2.1/2"	80 x 65	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

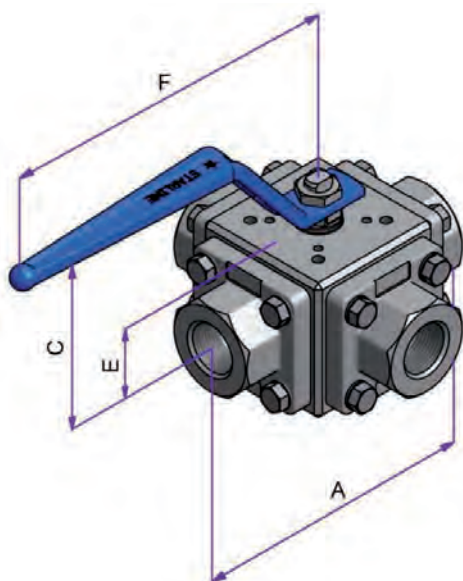
Dimensions and weights are subject to change without notice.
Face to face dimensions not listed in industry standards are subject to change without notice.

Technical data 5650A
Rev . 0

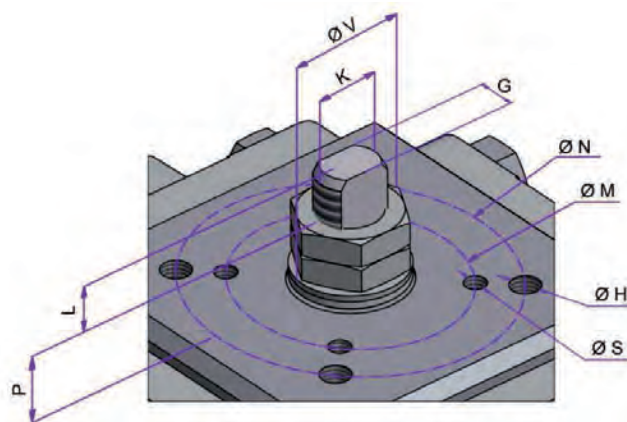
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT

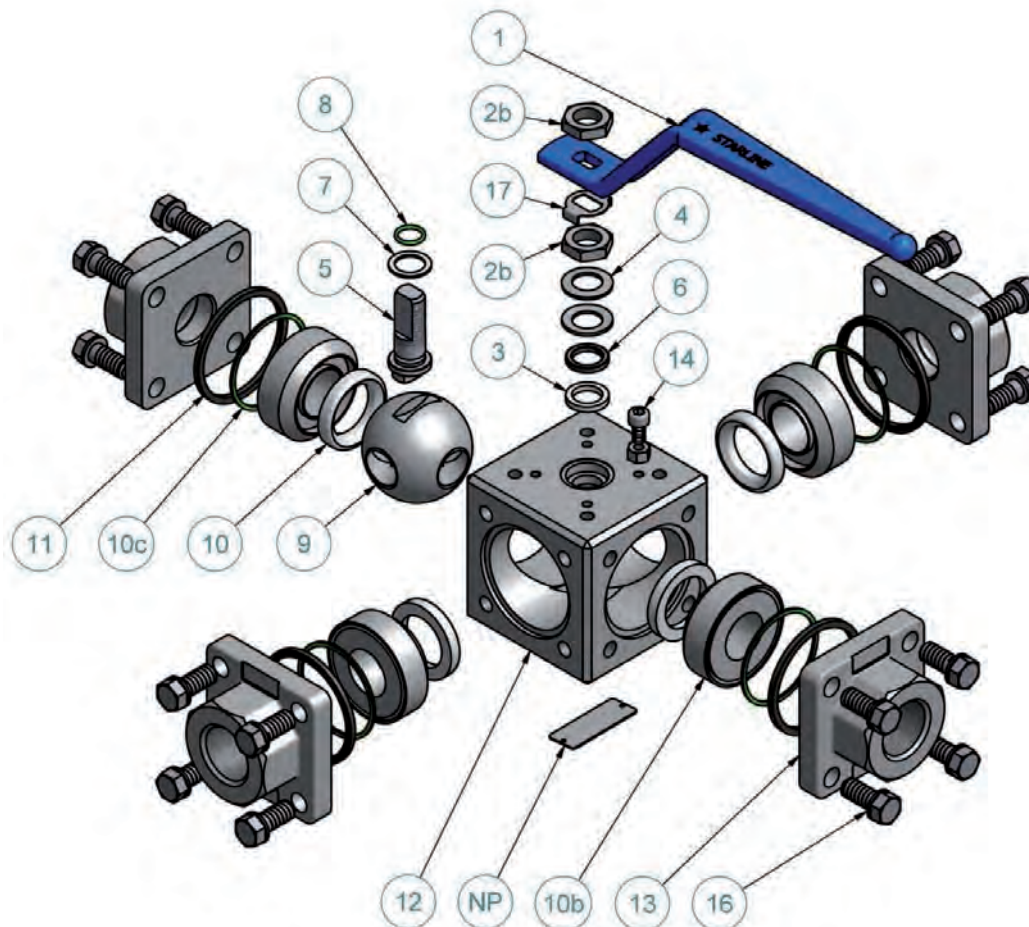


**TOP
VIEW**

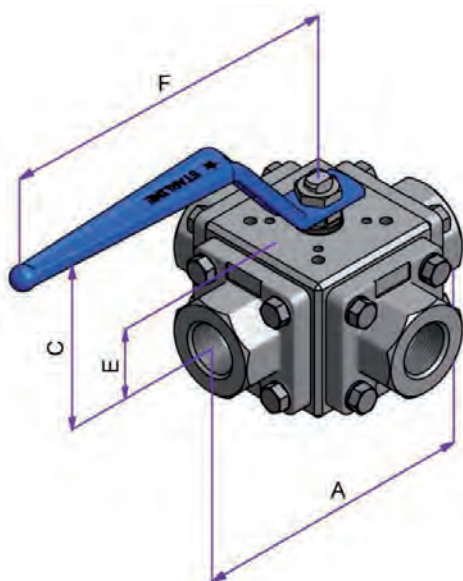
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	NPT - BSPP - BSPT
		NPT - BSPP - BSPT					
1/4" x 1/4"	08 x 08	113	6.5	79	28.5	144	3.5
3/8" x 3/8"	10 x 10	113	6.5	79	28.5	144	3.5
1/2" x 1/2"	15 x 15	150	12	102	39	172.5	5.5
3/4" x 3/4"	20 x 20	158	18	114	42.5	218	8
1" x 1"	25 x 25	182	21	118	53	218	11
1.1/4" x 1.1/4"	32 x 32	201	28	126	56	218	15
1.1/2" x 1.1/2"	40 x 40	262	34	144	75	420	58
2" x 2"	50 x 50	423	42	157	95	420	70

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4" x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2" x 1/2"	15 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
3/4" x 3/4"	20 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1" x 1"	25 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2" x 2"	50 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

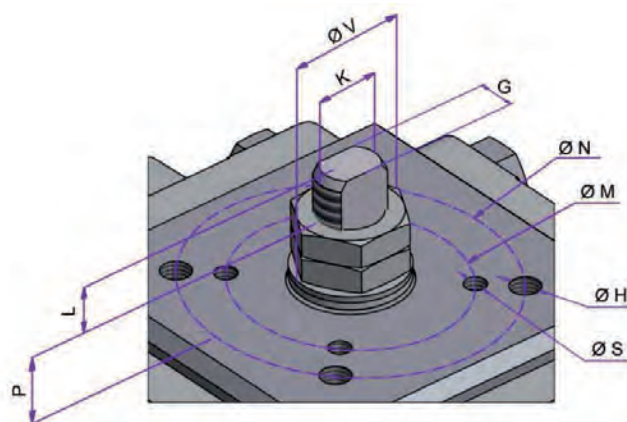
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



NPT-BSPP-BSPT



**TOP
VIEW**

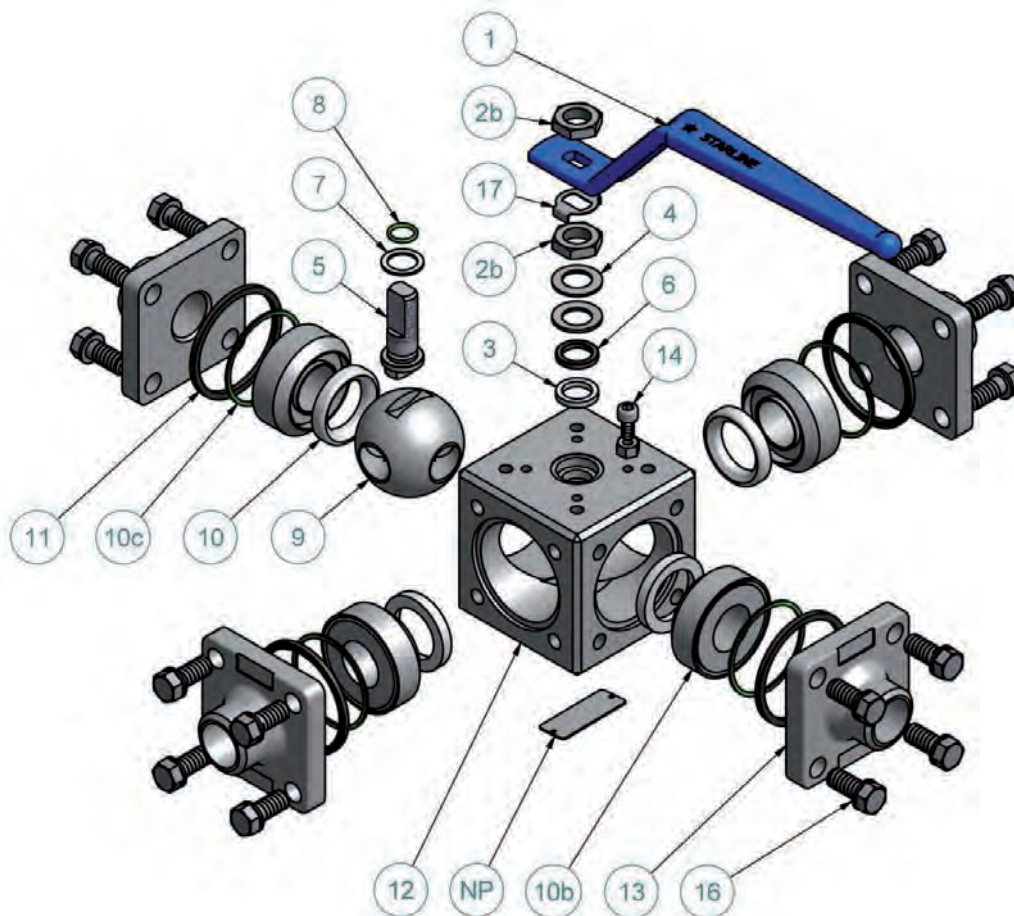
REDUCED BORE

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	113	6.5	79	28.5	144	3.5
3/4"x 1/2"	20 x 15	150	12	102	39	172.5	5.5
1"x 3/4"	25 x 20	158	18	114	42.5	218	8
1.1/4"x 1"	32 x 25	182	21	118	53	218	11
1.1/2"x 1.1/4"	40 x 32	201	28	126	56	218	15
2"x 1.1/2"	50 x 40	262	34	144	75	420	58
2.1/2"x 2"	65 x 50	423	42	157	95	420	70

TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 3/4"	25 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1"	32 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2"	65 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

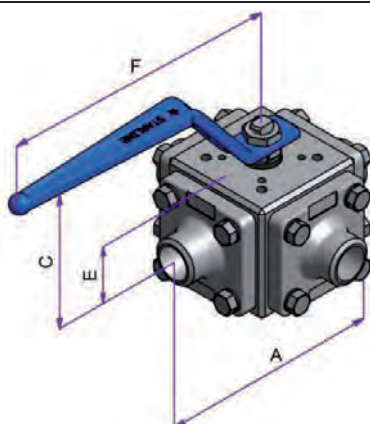
X-PORT



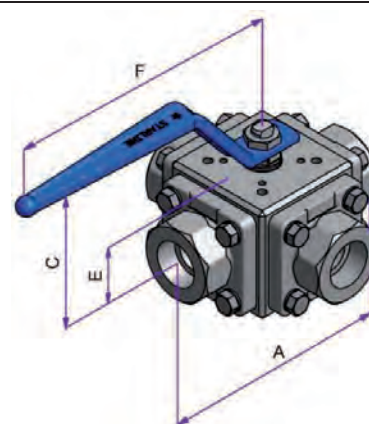
ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

RECOMMENDED SPARE PARTS FOR START – UP OR COMMISSIONING

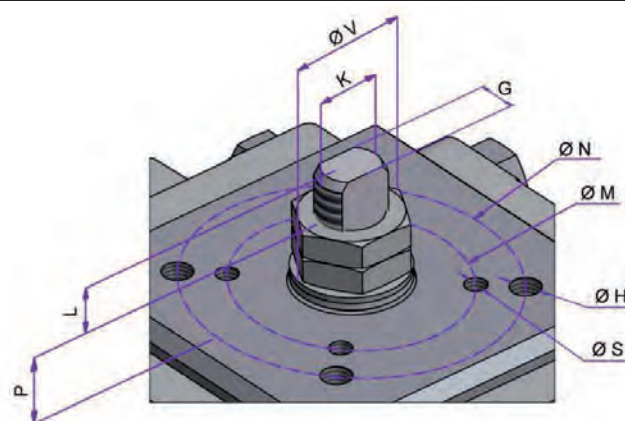
BW-PE



SW



TOP VIEW



FULL BORE

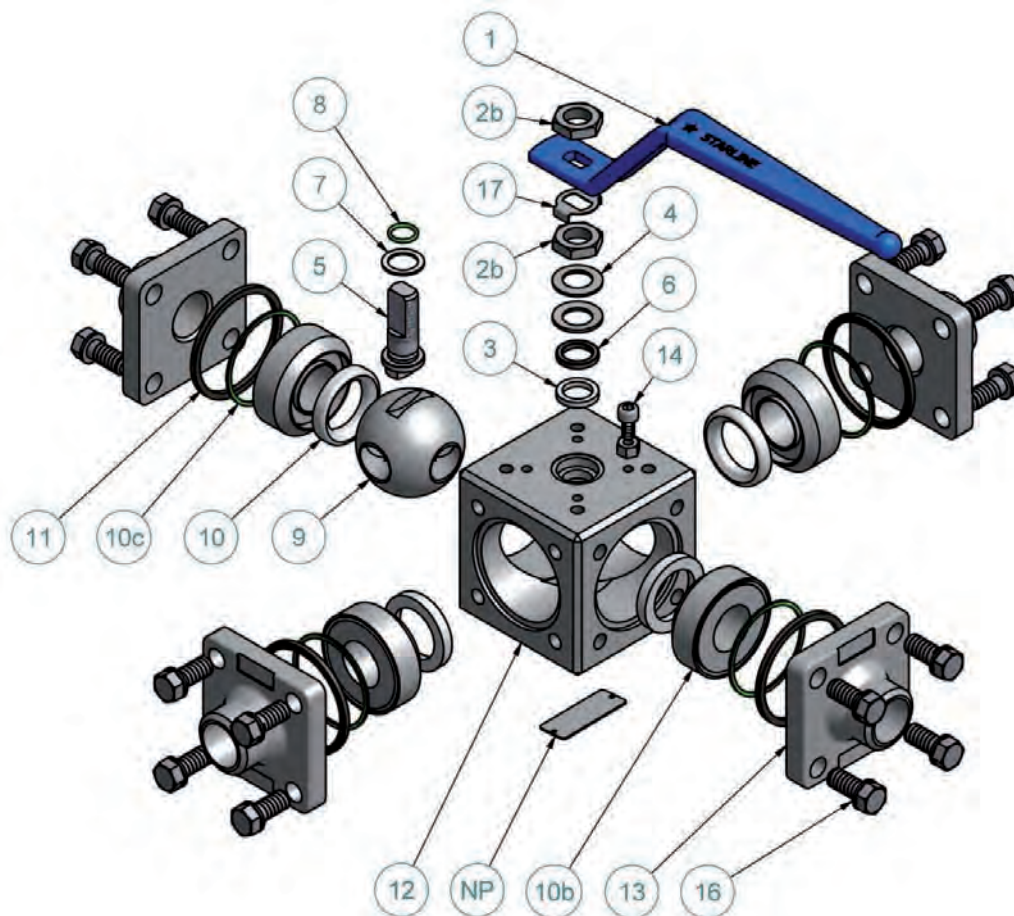
VALVE SIZE		DIMENSIONS [mm]						WEIGHT [Kg]	
NPS	DN	A		BORE	C	E	F	SW	BW - PE
		SW	BW - PE						
1/4" x 1/4"	08 x 08	113	113	6.5	79	28.5	144	3.5	3.5
3/8" x 3/8"	10 x 10	113	113	6.5	79	28.5	144	3.5	3.5
1/2" x 1/2"	15 x 15	150	150	12	102	39	172.5	5.5	5.5
3/4" x 3/4"	20 x 20	158	158	18	114	42.5	218	8	8
1" x 1"	25 x 25	182	182	21	118	53	218	11	11
1.1/4" x 1.1/4"	32 x 32	201	201	28	126	56	218	15	15
1.1/2" x 1.1/2"	40 x 40	302	302	34	144	75	420	58	58
2" x 2"	50 x 50	423	423	42	157	95	420	70	70

TOP MOUNTING

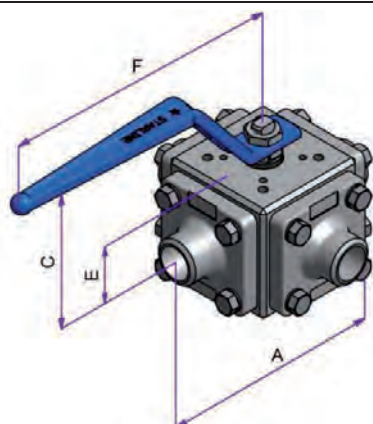
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/4" x 1/4"	08 x 08	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/8" x 3/8"	10 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
1/2" x 1/2"	15 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
3/4" x 3/4"	20 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1" x 1"	25 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2" x 2"	50 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

Dimensions and weights are subject to change without notice.
Face to face dimensions not listed in industry standards are subject to change without notice.

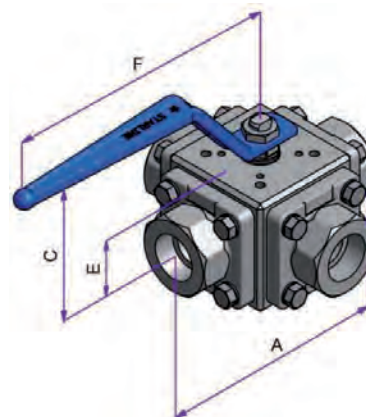
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316

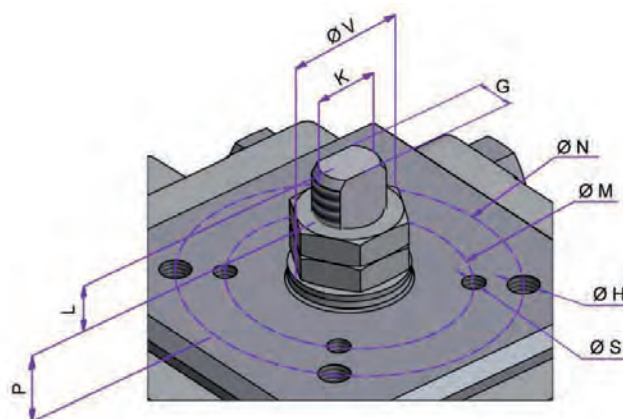


BW-PE



SW

**TOP
VIEW**



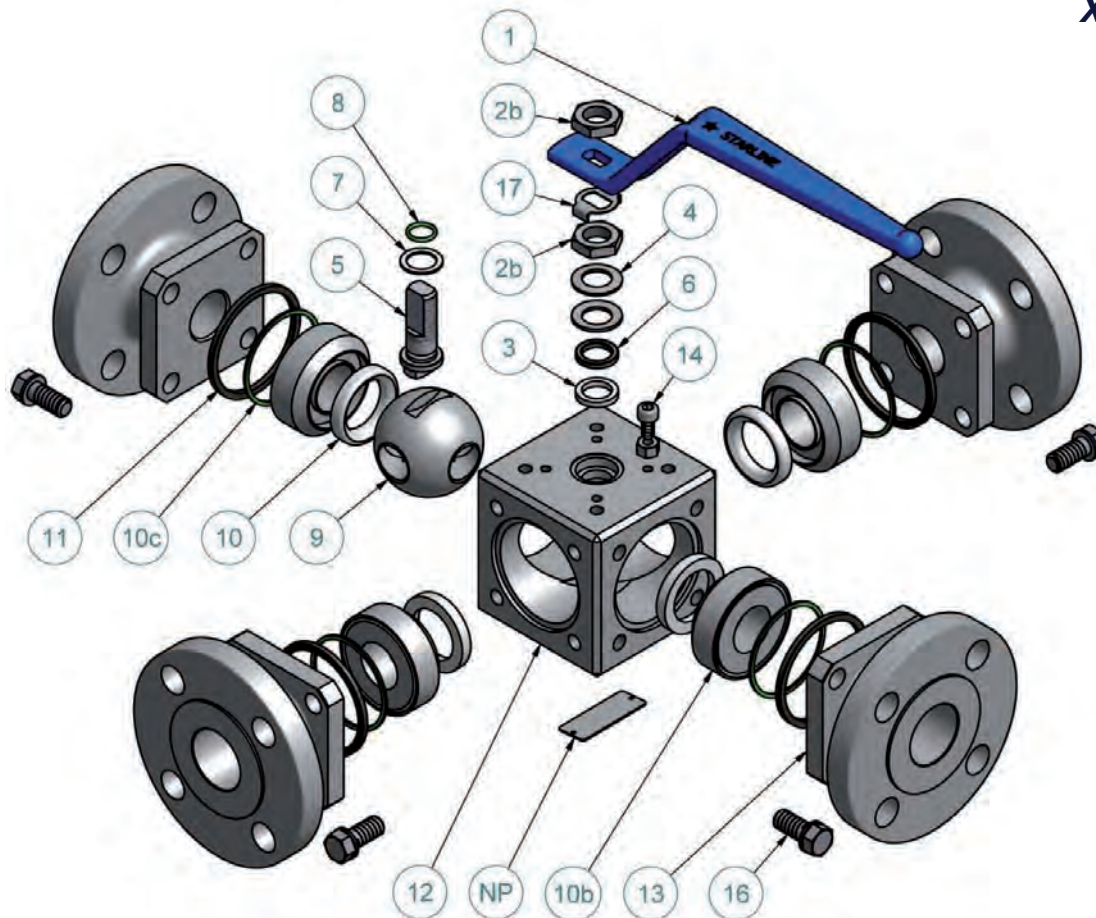
REDUCED BORE

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	113	113	6.5	79	28.5	144	3.5	3.5
3/4"x 1/2"	20 x 15	150	150	12	102	39	172.5	5.5	5.5
1"x 3/4"	25 x 20	158	158	18	114	42.5	218	8	8
1.1/4"x 1"	32 x 25	182	182	21	118	53	218	11	11
1.1/2"x 1.1/4"	40 x 32	201	201	28	126	56	218	15	15
2"x 1.1/2"	50 x 40	302	302	34	144	75	420	58	58
2.1/2"x 2"	65 x 50	423	423	42	157	95	420	70	70

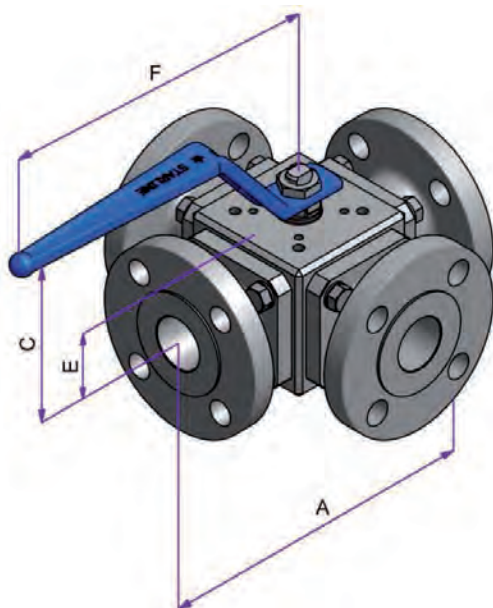
TOP MOUNTING

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 3/4"	25 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1"	32 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2"	65 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

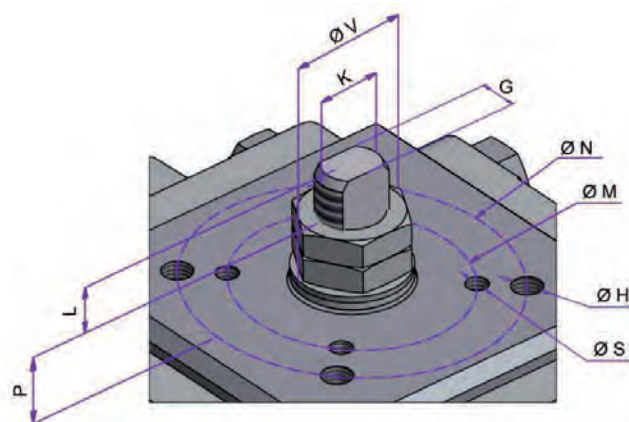
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF

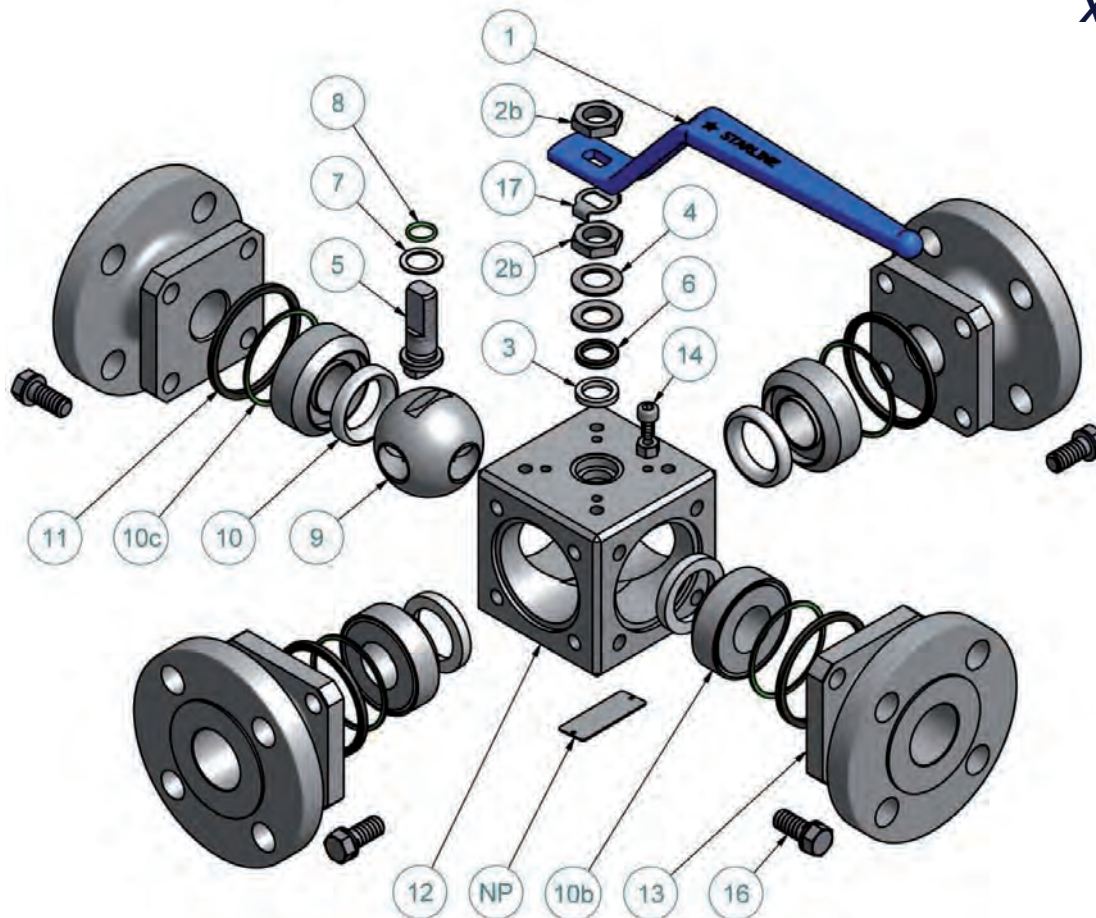


**TOP
VIEW**

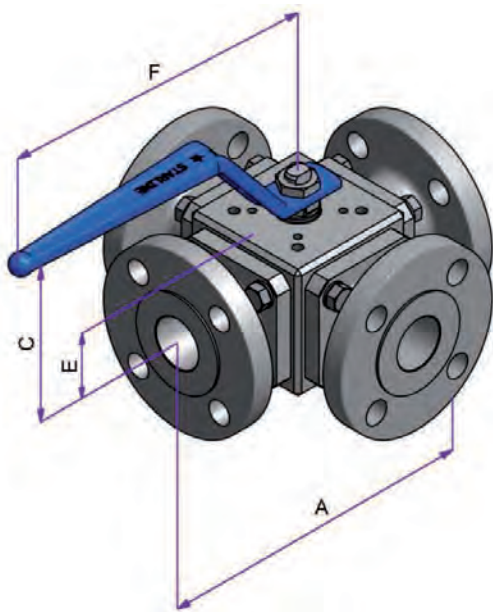
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	202	12	102	39	172.5	8.7
3/4" x 3/4"	20 x 20	213	18	114	42.5	218	12
1" x 1"	25 x 25	240	21	118	53	218	15.4
1.1/4" x 1.1/4"	32 x 32	252	28	126	56	218	20.6
1.1/2" x 1.1/2"	40 x 40	320	34	144	75	420	65.2
2" x 2"	50 x 50	359	42	157	95	420	80.8

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
3/4" x 3/4"	20 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1" x 1"	25 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2" x 2"	50 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

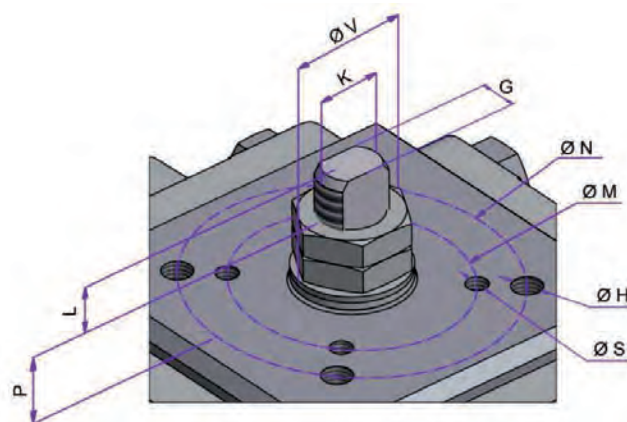
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF



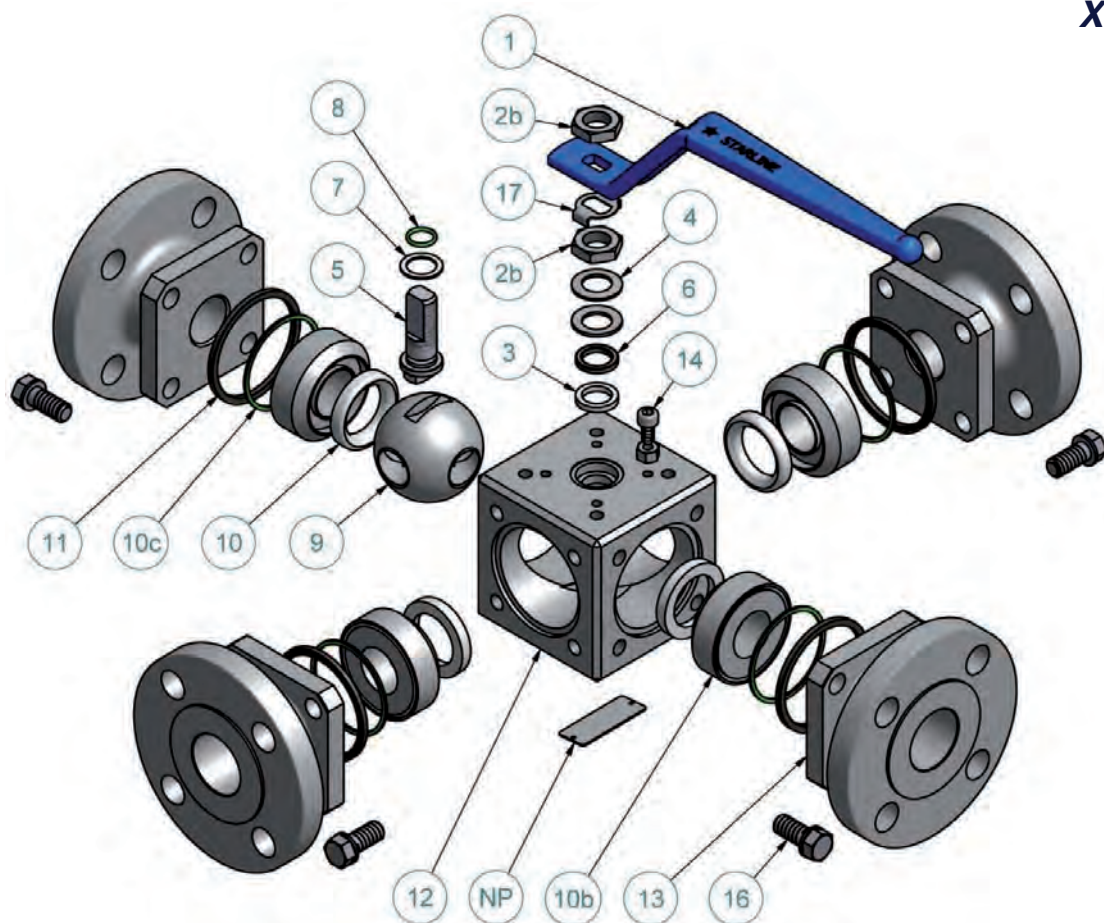
**TOP
VIEW**

REDUCED BORE

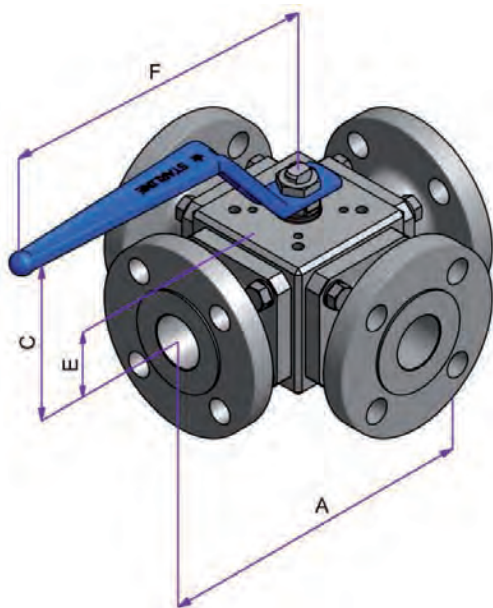
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2"x 3/8"	15 x 10	179	6.5	79	28.5	144	6.7
3/4"x 1/2"	20 x 15	202	12	102	39	172.5	9.5
1"x 3/4"	25 x 20	213	18	114	42.5	218	12.4
1.1/4"x 1"	32 x 25	240	21	118	53	218	16.6
1.1/2"x 1.1/4"	40 x 32	252	28	126	56	218	20.4
2"x 1.1/2"	50 x 40	320	34	144	75	420	68.8
2.1/2"x 2"	65 x 50	359	42	157	95	420	84.4

TOP MOUNTING

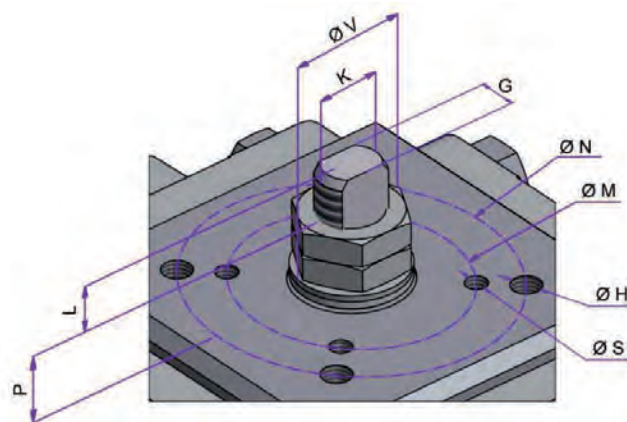
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2"x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4"x 1/2"	20 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1"x 3/4"	25 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4"x 1"	32 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2"x 1.1/4"	40 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2"x 1.1/2"	50 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2"x 2"	65 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10



<i>ITEM NO.</i>	<i>Q.TY</i>	<i>PART NAME</i>	<i>MATERIAL (LF2/316)</i>	<i>MATERIAL (316/316)</i>	<i>OPTIONS AVAILABLE</i>
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton	Viton	See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF

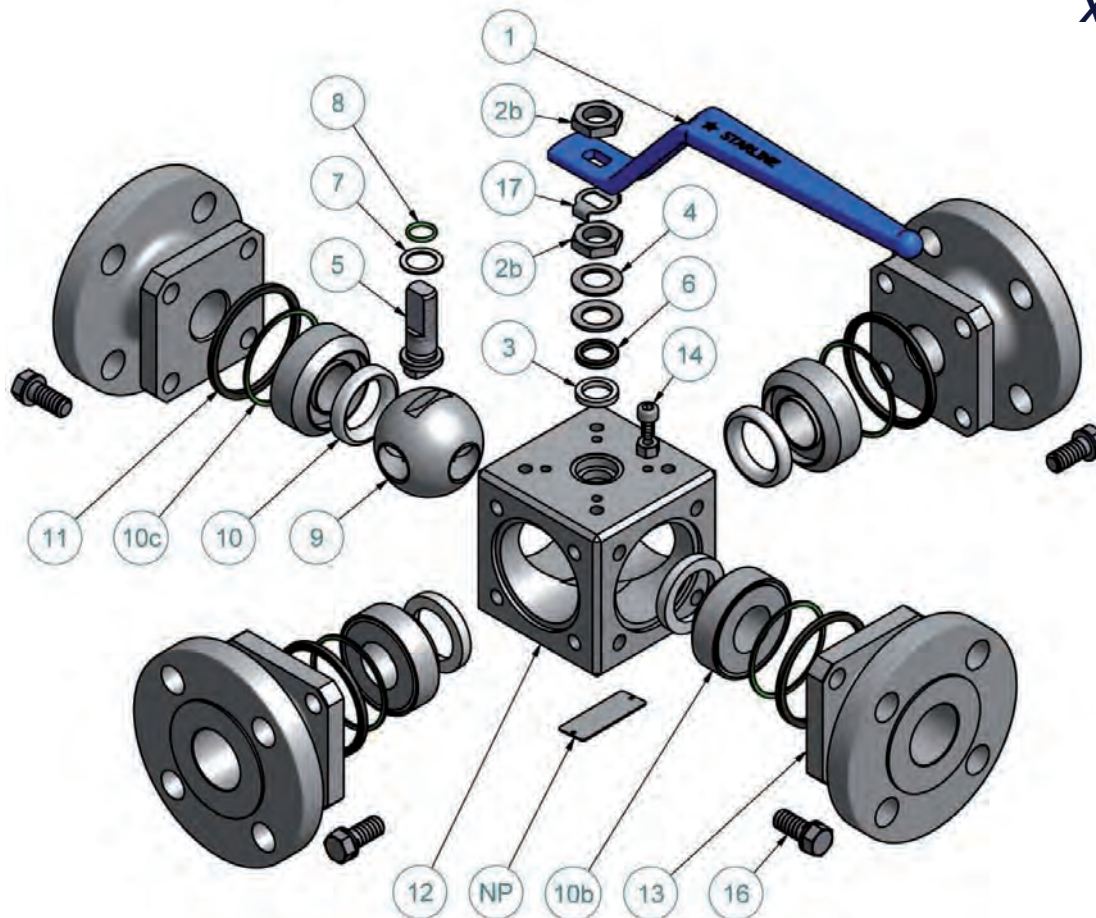


**TOP
VIEW**

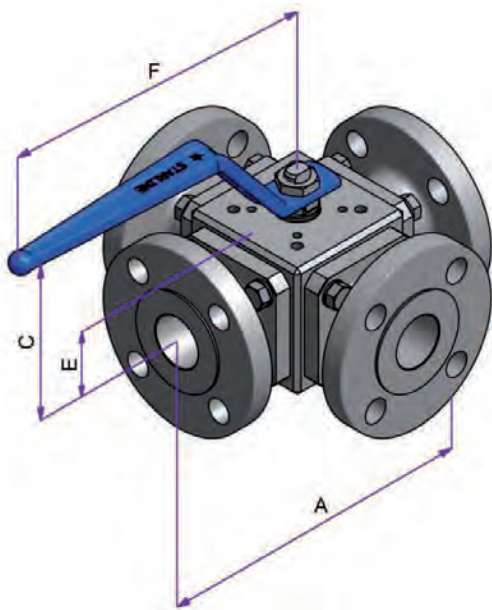
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 1/2"	15 x 15	202	12	102	39	172.5	9.5
3/4" x 3/4"	20 x 20	213	18	114	42.5	218	13.6
1" x 1"	25 x 25	240	21	118	53	218	18.2
1.1/4" x 1.1/4"	32 x 32	252	28	126	56	218	25.8
1.1/2" x 1.1/2"	40 x 40	320	34	144	75	420	72.4
2" x 2"	50 x 50	359	42	157	95	420	86.4

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
3/4" x 3/4"	20 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1" x 1"	25 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2" x 2"	50 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

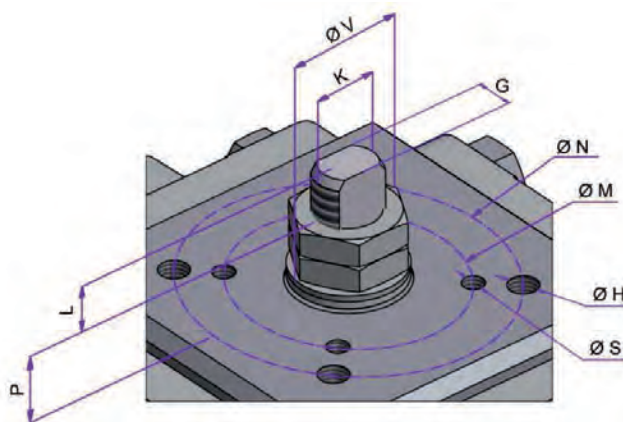
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF

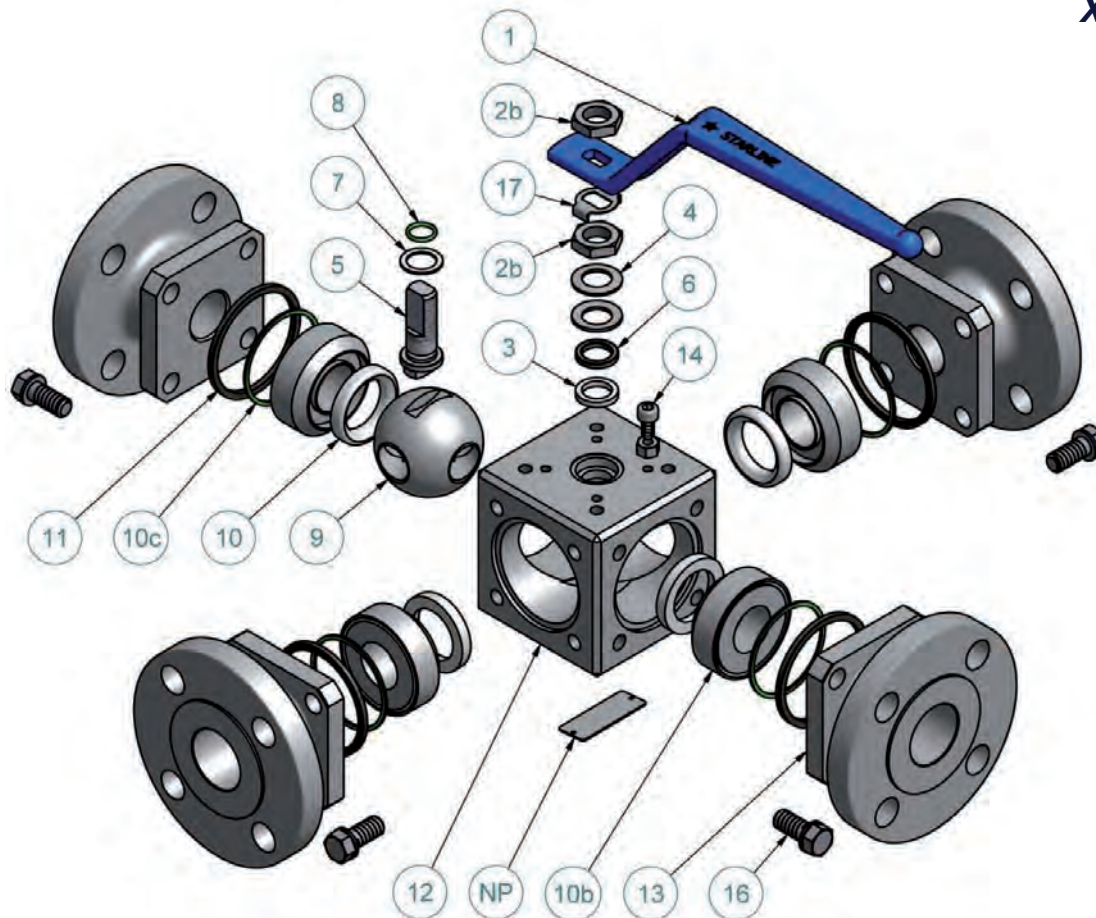


**TOP
VIEW**

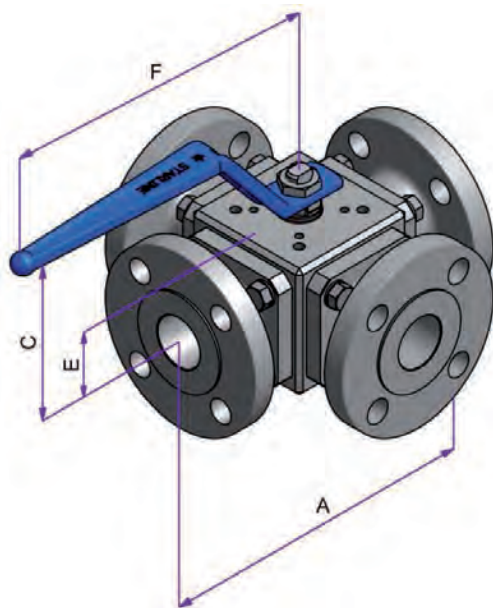
REDUCED BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	RF
1/2" x 3/8"	15 x 10	179	6.5	79	28.5	144	7.5
3/4" x 1/2"	20 x 15	202	12	102	39	172.5	11.1
1" x 3/4"	25 x 20	213	18	114	42.5	218	15.2
1.1/4" x 1"	32 x 25	240	21	118	53	218	21.8
1.1/2" x 1.1/4"	40 x 32	252	28	126	56	218	29.4
2" x 1.1/2"	50 x 40	320	34	144	75	420	74.4
2.1/2" x 2"	65 x 50	359	42	157	95	420	91.6

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4" x 1/2"	20 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 3/4"	25 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1"	32 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2"	65 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

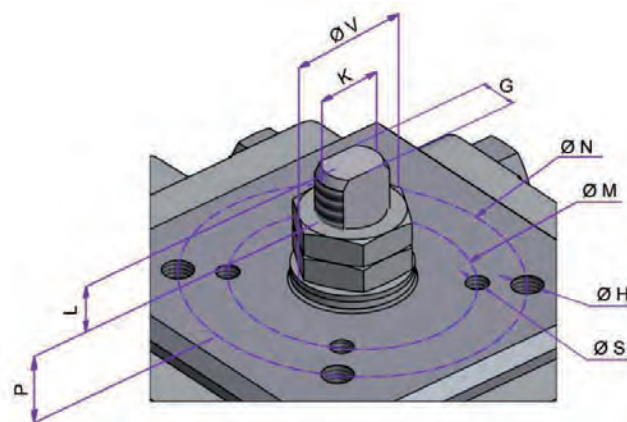
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



RF

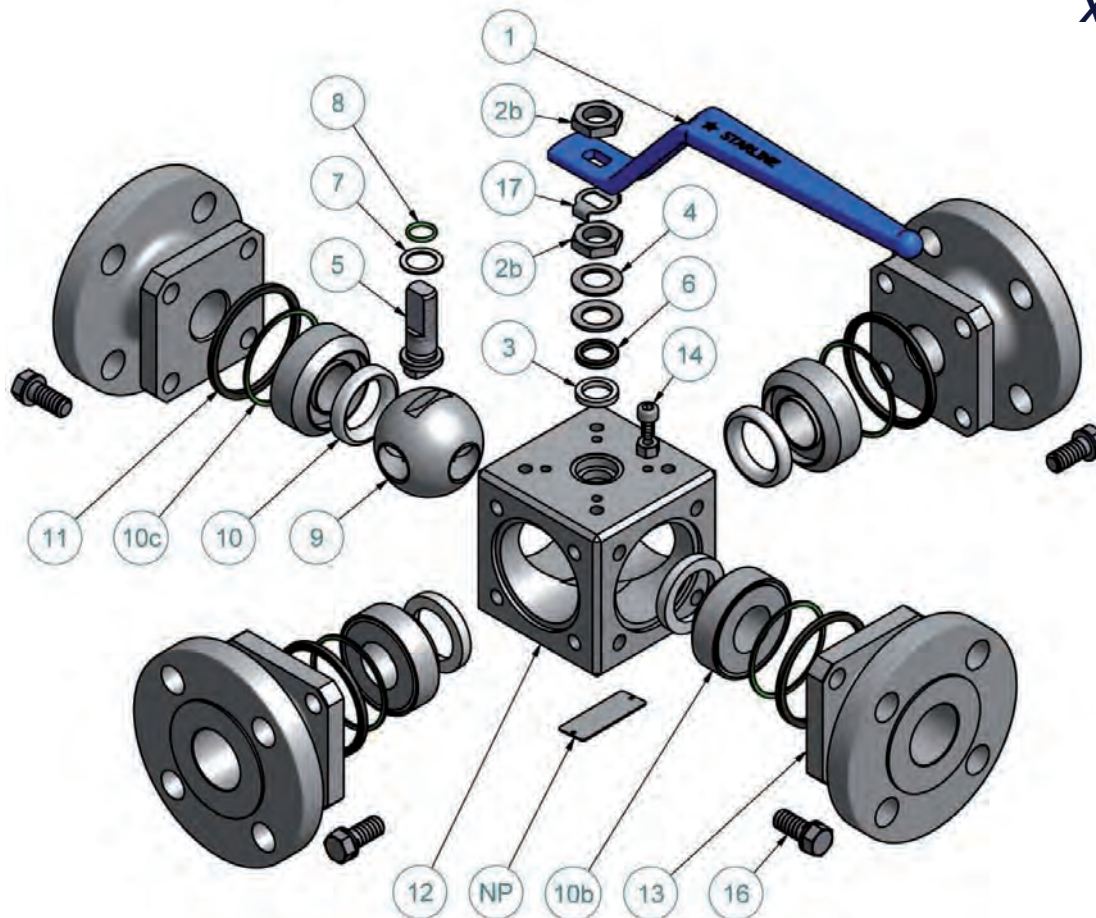


**TOP
VIEW**

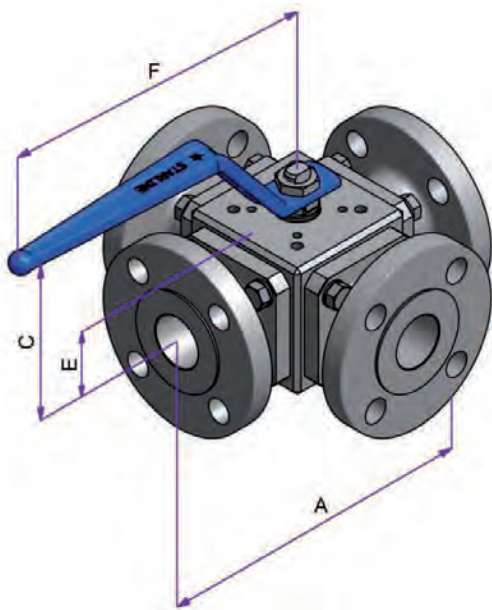
FULL BORE							
VALVE SIZE		DIMENSIONS [mm]					WEIGHT [Kg]
NPS	DN	A	BORE	C	E	F	PN 10 ÷ 40
1/2" x 1/2"	15 x 15	200	12	102	39	172.5	8.8
3/4" x 3/4"	20 x 20	208	18	114	42.5	218	12.6
1" x 1"	25 x 25	242	21	118	53	218	16.5
1.1/4" x 1.1/4"	32 x 32	261	28	126	56	218	23
1.1/2" x 1.1/2"	40 x 40	334	34	144	75	420	67.32
2" x 2"	50 x 50	408	42	157	95	420	82.32

TOP MOUNTING												
VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 1/2"	15 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
3/4" x 3/4"	20 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1" x 1"	25 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1.1/4"	32 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/2"	40 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2" x 2"	50 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10

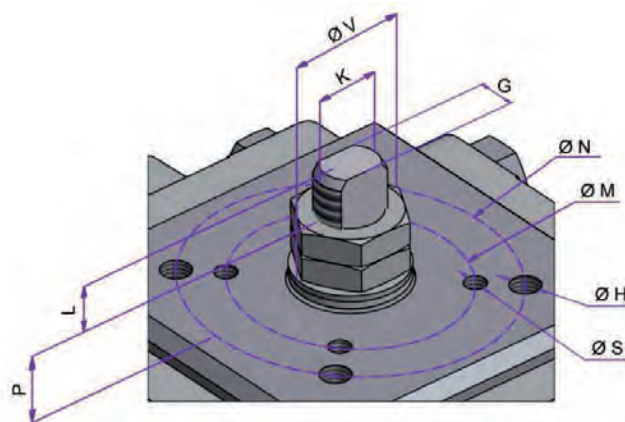
X-PORT



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/316)	MATERIAL (316/316)	OPTIONS AVAILABLE
NP	1	Name Plate	AISI 316	AISI 316	
1	1	Handle	Carbon Steel + Epoxy Coated	Carbon Steel + Epoxy Coated	AISI 316
2a	2	Handle nut	AISI 304	AISI 304	AISI 316
2b					
3	****	Packing ring	Graphite	Graphite	Virgin/Reinforced PTFE
4	****	Spring washers	AISI 316 Treated	AISI 316 Treated	
5	1	Antistatic stem	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
6	1	Gland packing	AISI 316	AISI 316	
7	1	Thrust washer	PTFE	PTFE	Reinforced PTFE – PEEK
8	****	“O”ring stem	Viton	Viton	See seat and seal material table
9	1	Ball	AISI 316/316L Dual Certified	AISI 316/316L Dual Certified	Special materials
10	4	Seats	“S”	“S”	See seat and seal material table
10 b	4	Seat ring	LF2	AISI 316/316L Dual Certified	Special materials
10 c	4	Seat seal	Viton		See seat and seal material table
11	4	I° Body seals	Graphite	Graphite	Virgin/Reinforced PTFE
12	1	Body	LF2	AISI 316/316L Dual Certified	Special materials
13	4	End connections	LF2	AISI 316/316L Dual Certified	Special materials
14	1	Stop-pin	AISI 316	AISI 316	
16	****	Bolts	L7 + Zinc Plated	B8	Special materials
17	****	Stop Washer	AISI 304	AISI 304	AISI 316



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	169	6.5	79	28.5	144	6.8
3/4" x 1/2"	20 x 15	200	12	102	39	172.5	10.1
1" x 3/4"	25 x 20	208	18	114	42.5	218	13.5
1.1/4" x 1"	32 x 25	242	21	118	53	218	19
1.1/2" x 1.1/4"	40 x 32	261	28	126	56	218	24.3
2" x 1.1/2"	50 x 40	334	34	144	75	420	70.3
2.1/2" x 2"	65 x 50	408	42	157	95	420	85.8

TOP MOUNTING

VALVE SIZE		DIMENSIONS [mm]										
NPS	DN	L	P	V	K	G	M	S	ISO 5211	N	H	ISO 5211
1/2" x 3/8"	15 x 10	5	5	16	M10x1	5.5	36	M5x8	F03	50	M6x8	F05
3/4" x 1/2"	20 x 15	10	8.5	21	M12x1.25	7.5	42	M5x8	F04	70	M8x10	F07
1" x 3/4"	25 x 20	11	17	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/4" x 1"	32 x 25	12.5	10	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
1.1/2" x 1.1/4"	40 x 32	12	15	25	M15x1.5	8.9	50	M6x8	F05	70	M8x10	F07
2" x 1.1/2"	50 x 40	16	11	35	M22x1.5	16	70	M8x10	F07	102	M10x12	F10
2.1/2" x 2"	65 x 50	7	22	42	M24x2	18	70	M8x10	F07	102	M10x12	F10