

DN15 ÷ 25 F.B. DN20 ÷ 40 R.B. CLASS 150



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	1	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	1	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
34	*****	Seat "O" Ring	VITON	VITON	
35	1	Adaptor "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	





DIMENSIONS CLASS 150





					FU	LL BOR	E								MANUA	LGEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DIN	IENSIO	NS [mr	n]				WEIGH	T [Kg]			DI	MENSIO	NS [mr	n]		
				Α			_	_							_	_	_			ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NPT/F	v	L	D	G	N	т	
1/2" x 1/2"	15 x 15	108	-	165	130	12.7	40	95	172.5	3.5	4	3	2.5	12	7.5	5	6.5	42	M5	F04
3/4" x 3/4"	20 x 20	117.5	-	191	145	19	48	102	218	6	6.5	6	5.5	15	9	7.5	8.5	50	M6	F05
1" x 1"	25 x 25	127	139.5	216	170	25.4	61	115	218	8.5	9.5	9	8.5	15	9	9	10	50	M6	F05

					REDU	JCED BO	ORE								MANUA	L GEAR	OPERAT	ION OR	AUTOMA	TION
VALVE S	SIZE			DIN	IENSION	NS [mr	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [m	n]		
				A		DODE	~	_	F			000 000				_			-	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NP1/F	v	L	D	G	N	1	
3/4" x 1/2"	20 x 15	117.5	-	191	130	12.7	40	95	172.5	5	5.5	3.5	2.5	12	7.5	5	6.5	42	M5	F04
1" x 3/4"	25 x 20	127	139.5	216	145	19	48	102	218	6.5	7	6.5	5.5	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	139.5	152.5	229	170	25.4	61	115	218	10	11	9.5	8.5	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	165	178	241	170	25.4	61	115	218	12	13	9.5	8.5	15	9	9	10	50	M6	F05



DN15 ÷ 100 F.B. DN20 ÷ 150 R.B. CLASS 150



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	





SW-BW



DIMENSIONS CLASS 150

RF-RTJ





MANUAL GEAR OPERATION OR AUTOMATION FULL BORE VALVE SIZE DIMENSIONS [mm] WEIGHT [Kg] DIMENSIONS [mm] ISO Α 5211 INCH mm BORE С Е F RF RTJ SW-BW NPT/F v L D G Ν т RF RTJ SW-BW NPT/F 1/2" x 1/2" 15 x 15 165 130 12.7 40 95 172.5 3 3 12 7.5 5 6.5 42 M6 F04 -3/4" x 3/4" 20 x 20 191 145 19 48 102 218 --6 6 15 9 7.5 8.5 50 M6 F05 -9 1" x 1' 25 x 25 216 170 25.4 115 218 --9 15 9 10 50 F05 61 9 M6 1.1/2" x 1.1/2" 40 x 40 165 178 241 210 38 72 130 420 14 15 12.5 12 22 16 16 19 70 F07 M8 2" x 2" 50 x 50 178 190.5 292 230 51 88 146 420 21 25 22 21 22 16 16 19 70 M8 F07 3" x 3" 80 x 80 203 216 356 _ 76 120 177 420 55 57 48 _ 24 18 22.5 24 70 M8 F07 100 x 100 228.5 241 432 _ 101.6 160 350 400 105 110 100 -40 30 30 32 M10 F10 4" x 4" 102

4 X 4	100 x 100	220.5	241	432	-	101.0	100	330	400	105	110	100	-	40	30	30	32	102	IVITO	FIU
					REDU	JCED BO	ORE								MANUA	LGEAR	OPERAT	ON OR A	UTOMA	TION
VALVE S	IZE			DIN	IENSION	NS [mn	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [mr	n]		
				A			_	_	_							_			_	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NP1/F	v	L	D	G	N	т	
3/4" x 1/2"	20 x 15	-	-	191	130	12.7	40	95	172.5	-	-	3.5	3.5	12	7.5	5	6.5	42	M6	F04
1" x 3/4"	25 x 20	-	-	216	145	19	48	102	218	-	-	6.5	6.5	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	-	-	229	170	25.4	61	115	218	-	-	9.5	9.5	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	-	-	241	170	25.4	61	115	218	-	-	9.5	9.5	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	178	190.5	292	210	38	72	130	420	21	25	13.5	13.5	22	16	16	19	70	M8	F07
3" x 2"	80 x 50	203	216	356	-	51	88	146	420	55	57	55	-	22	16	16	19	70	M8	F07
4" x 3"	100 x 80	228.5	241	432	-	76	120	177	420	75	78	112	-	24	18	22.5	24	70	M8	F07
6" x 4"	150 x 100	394	406.5	559	-	101.6	160	350	400	115	118	112	-	40	30	30	32	102	M10	F10

Gear Operated

Split Body Construction



DN15 ÷ 100 F.B. DN20 ÷ 150 R.B. CLASS 300



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



RF-RTJ

TRUNNION MOUNTED TYPE ULTRASTAR

DIMENSIONS CLASS 300





SW-BW



NPT



					FU	ILL BOR	E									MANUA	L GEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DI	IENSIO	NS [mr	n]				WEIGH	IT [Kg]				DI	MENSIO	NS [mi	n]		
				A				_	_								_			_	ISO 5211
INCH	mm RF RTJ SW-BW 15 x 15 140 152 165 20 x 20 152 165 191				NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NP1/F	\ \		L	D	G	N	т	
1/2" x 1/2"	15 x 15	140	152	165	130	12.7	40	95	172.5	4	4.5	3	2.5	1	2	7.5	5	6.5	42	M5	F04
3/4" x 3/4"	20 x 20	152	165	191	145	19	48	102	218	6.5	7	6	5.5	1	5	9	7.5	8.5	50	M6	F05
1" x 1"	25 x 25	165	178	216	170	25.4	61	115	218	9	10	9	8.5	1	5	9	9	10	50	M6	F05
1.1/2" x 1.1/2"	40 x 40	191	203	241	210	38	72	130	420	15	16	12.5	12.5	2	2	16	16	19	70	M8	F07
2" x 2"	50 x 50	216	232	292	230	51	88	146	420	22	26	22	22	2	2	16	16	19	70	M8	F07
3" x 3"	80 x 80	283	298	356	-	76	120	177	420	57	60	48	-	2	4	18	22.5	24	70	M8	F07
4" x 4"	100 x 100	305	320.5	432	-	101.6	160	350	400	110	112	98	-	4	0	30	30	32	102	M10	F10

					RED	JCED BO	ORE								MANUA	L GEAR	OPERAT		Αυτομα	TION
VALVE S	SIZE			DIN	IENSIO	NS [mr	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [m	m]		
INCH				Α		BORE	с	Е	F	BF	RTJ	SW-BW		v		D	G	N	-	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BURE	U	-	-	КГ	RIJ	SW-ВW	NP1/F	v	L	D	G	IN		
3/4" x 1/2"	20 x 15	152	165	191	130	12.7	40	95	172.5	5.5	6	3.5	2.5	12	7.5	5	6.5	42	M5	F04
1" x 3/4"	25 x 20	165	178	216	145	19	48	102	218	7	7.5	6.5	5.5	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	178	191	229	170	25.4	61	115	218	11	12	9.5	8.5	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	191	203	241	170	25.4	61	115	218	13	14	9.5	8.5	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	216	232	292	210	38	72	130	420	21	22	13.5	12	22	16	16	19	70	M8	F07
3" x 2"	80 x 50	283	298	356	-	51	88	146	420	32	34	24	-	22	16	16	19	70	M8	F07
4" x 3"	100 x 80	305	320.5	432	-	76	120	177	420	75	82	55	-	24	18	22.5	24	70	M8	F07
6" x 4"	150 x 100	403	419	559	-	101.6	160	350	400	120	124	112	-	40	30	30	32	102	M10	F10

Gear Operated



DN15 ÷ 100 F.B. DN20 ÷ 150 R.B. CLASS 600



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



DIMENSIONS CLASS 600





SW-BW



RF-RTJ



REDUCED BORE

DIMENSIONS [mm]



					FU	ILL BOR	E								MANUA	L GEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DI	IENSIO	NS [mr	n]				WEIGH	T [Kg]			D	IMENSIO	NS [mi	n]		
				Α			_													ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NPT/F	V		D	G	N	т	
1/2" x 1/2"	15 x 15	165	163.5	165	130	12.7	40	95	172.5	4.5	4.5	3	2.5	12	7.5	5	6.5	42	M5	F04
3/4" x 3/4"	20 x 20	191	191	191	145	19	48	102	218	7	7	6	5.5	15	9	7.5	8.5	50	M6	F05
1" x 1"	25 x 25	216	216	216	170	25.4	61	115	218	10	10	9	8.5	15	9	9	10	50	M6	F05
1.1/2" x 1.1/2"	40 x 40	241	241	241	210	38	72	130	420	16	16	12.5	12	22	16	16	19	70	M8	F07
2" x 2"	50 x 50	292	295	292	230	51	88	146	420	26	27	22	21	22	16	16	19	70	M8	F07
3" x 3"	80 x 80	356	359	356	-	76	120	177	420	53	54	48	-	24	18	22.5	24	70	M8	F07
4" x 4"	100 x 100	432	435	432	-	101.6	160	350	400	120	122	110	-	40	30	30	32	102	M10	F10

					MANUA	LGEAR	OPERAT	ION OR	AUTOM	ATION
	WEIGH	IT [Kg]			DI	MENSIO	NS [m	m]		
F	BT.I	SW-BW	NPT/F	v		р	G	N	т	ISO 5211

																			-	
IN OU				Α		DODE		-	_	DE	DTI	000 000							-	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NPI/F	v	L	D	G	N	'	
3/4" x 1/2"	20 x 15	191	191	191	130	12.7	40	95	172.5	5.5	5.5	3.5	2.5	12	7.5	5	6.5	42	M5	F04
1" x 3/4"	25 x 20	216	216	216	145	19	48	102	218	8	8	6.5	5.5	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	229	229	229	170	25.4	61	115	218	12	12	9.5	8.5	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	241	241	241	170	25.4	61	115	218	15	15	9.5	8.5	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	292	295	292	210	38	72	130	420	25	25.5	13.5	12	22	16	16	19	70	M8	F07
3" x 2"	80 x 50	356	359	356	-	51	88	146	420	35	36	24	-	22	16	16	19	70	M8	F07
4" x 3"	100 x 80	436	435	432	-	76	120	177	420	65	67	55	-	24	18	22.5	24	70	M8	F07
6" x 4"	150 x 100	559	562	559	-	101.6	160	350	400	160	165	112	-	40	30	30	32	102	M10	F10

Gear Operated

VALVE SIZE



DN15 ÷ 100 F.B. DN20 ÷ 150 R.B. CLASS 900



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



RF-RTJ

TRUNNION MOUNTED TYPE ULTRASTAR

DIMENSIONS CLASS 900



SW-BW



NPT



					FU	ILL BOR	E								MANU	AL GEAR	OPERAT		AUTOMA	TION
VALVE S	IZE			DIN	IENSIO	NS [mr	n]				WEIGH	IT [Kg]			C	IMENSIO	NS [m	n]		
IN OU				A		DODE		_	_	DE	DTI	000 000							-	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NP1/F	V	L	D	G	N	1	
1/2" x 1/2"	15 x 15	216	216	216	130	12.7	40	95	172.5	5	5	3.5	3	12	7.5	5	6.5	42	M5	F04
3/4" x 3/4"	20 x 20	229	229	229	145	19	48	102	218	11	11	9.5	8.5	15	9	7.5	8.5	50	M6	F05
1" x 1"	25 x 25	254	254	254	170	25.4	61	115	218	18	18	15	14	15	9	9	10	50	M6	F05
1.1/2" x 1.1/2"	40 x 40	305	305	305	220	38	90	147	420	34	34	30	27	22	16	14.5	16	70	M8	F07
2" x 2"	50 x 50	368	371	368	240	51	100	158	420	50	50	45	40	24	18	19	22	70	M8	F07
3" x 3"	80 x 80	381	384	381	-	76	148	335	400	85	86	50	-	40	30	30	32	102	M10	F10
4" x 4"	100 x 100	457	460	457	-	101.6	188	380	400	170	175	150	-	55	36	40	42	125	M12	F12

					RED	JCED BO	ORE								MANUA	LGEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DIN	IENSIO	NS [mr	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [mr	n]		
INCH	mm			A		BORE	с	Е	F	BF	RTJ	SW-BW		v		D	G	N	-	ISO 5211
INCH		RF	RTJ	SW-BW	NPT/F	BUNE	U	-	F	nr	nij	3W-BW	INP I/F				G	N		
3/4" x 1/2"	20 x 15	229	229	229	130	12.7	40	95	172.5	6.5	6.5	4	3.5	12	7.5	5	6.5	42	M5	F04
1" x 3/4"	25 x 20	254	254	254	145	19	48	102	218	13	13	11	10	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	280	280	280	170	25.4	61	115	218	22	22	16	14	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	305	305	305	170	25.4	61	115	218	25	25	17	14	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	368	371	368	220	38	90	147	420	40	41	33	27	22	16	14.5	16	70	M8	F07
3" x 2"	80 x 50	381	384	384	-	51	100	158	420	55	56	50	-	24	18	19	22	70	M8	F07
4" x 3"	100 x 80	457	460	457	-	76	148	335	400	110	115	60	-	40	30	30	32	102	M10	F10
6" x 4"	150 x 100	609.5	612.5	609.5	-	101.6	188	380	400	205	210	145	-	55	36	40	42	125	M12	F12

Gear Operated



DN15 ÷ 100 F.B. DN20 ÷ 150 R.B. CLASS 1500



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	******	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



RF-RTJ

TRUNNION MOUNTED TYPE ULTRASTAR

DIMENSIONS CLASS 1500



SW-BW



NPT



					FU	ILL BOR	E								MANUA	L GEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DI	MENSIO	NS [mr	n]				WEIGH	T [Kg]			DI	MENSIO	NS [m	m]		
				A		DODE	_	-	_		DTI					_			т	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	С	E	F	RF	RTJ	SW-BW	NP1/F	V	L	D	G	N		
1/2" x 1/2"	15 x 15	216	216	216	130	12.7	40	95	172.5	5	5	3.5	3	12	7.5	5	6.5	42	M5	F04
3/4" x 3/4"	20 x 20	229	229	229	145	19	48	102	218	11	11	9.5	8.5	15	9	7.5	8.5	50	M6	F05
1" x 1"	25 x 25	254	254	254	170	25.4	61	115	218	18	18	15	14	15	9	9	10	50	M6	F05
1.1/2" x 1.1/2"	40 x 40	305	305	305	220	38	90	147	420	34	34	30	27	22	16	14.5	16	70	M8	F07
2" x 2"	50 x 50	368	371	368	240	51	100	158	420	50	50	45	40	24	18	19	22	70	M8	F07
3" x 3"	80 x 80	470	473	470	-	76	148	335	400	90	90	60	-	40	30	30	32	102	M10	F10
4" x 4"	100 x 100	546	549	546	-	101.6	188	385	500	185	190	160	-	55	36	40	42	125	M12	F12

					RED	UCED B	ORE								MANUA	L GEAR	OPERAT		AUTOMA	TION
VALVE S	SIZE			DIN	IENSIO	NS [mr	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [m	m]		
INCH	mm			A		BORE	с	Е	F	BF	RTJ	SW-BW		v		D	G	N	т	ISO 5211
INCH		RF	RTJ	SW-BW	NPT/F		Č		_	nr	nij	3W-BW	INF I/F		L		G	N		
3/4" x 1/2"	20 x 15	229	229	229	130	12.7	40	95	172.5	6.5	6.5	4	3.5	12	7.5	5	6.5	42	M5	F04
1" x 3/4"	25 x 20	254	254	254	145	19	48	102	218	13	13	11	11	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	280	280	280	170	25.4	61	115	218	22	22	16	16	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	305	305	305	170	25.4	61	115	218	25	25	17	17	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	368	371	368	220	38	90	147	420	40	40	33	33	22	16	14.5	16	70	M8	F07
3" x 2"	80 x 50	470	473	470	-	51	100	158	420	68	69	48	-	24	18	19	22	70	M8	F07
4" x 3"	100 x 80	546	549	546	-	76	148	335	400	120	122	75	-	40	30	30	32	102	M10	F10
6" x 4"	150 x 100	705	711	705	-	101.6	188	385	500	230	235	155	-	55	36	40	42	125	M12	F12

Gear Operated



DN200 ÷ 250 F.B. DN250 ÷ 300 R.B. CLASS 1500



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2	*****	Upper Flange Screw	ASTM A193 B8	ASTM A193 B8	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
3	1	Stem Fire Seal	Graphite	Graphite	
3a	1	Top Cover Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
6a	1	Upper Flange	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	2	Stem "O" Ring	VITON	VITON	
8a	1	Top Cover "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat Ring	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
14	1	Stem Key	Carbon Steel	Carbon Steel	
15	4	Top Cover / Upper Flange Pin	INCONEL X -750	INCONEL X -750	
15a	4	Plate Pin	INCONEL X -750	INCONEL X -750	
16	*****	Stud Bolts	ASTM A320 L7M	ASTM A193 B8M	
16a	*****	Nuts	ASTM A194 GR 4	ASTM A194 GR8 M	
30	2	Ball Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
30a – 30b	1+1	Stem - Body Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
30c	1	Plate Bearing	PTFE	PTFE	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	2	Plate	ASTM A276/479 F316	ASTM A276/479 F316	
34	2	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	2	Lifting Lug	ASTM A350 LF2	ASTM A276/479 F316	
39	2	Foot	ASTM A350 LF2	ASTM A276/479 F316	
40	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



					FU	ILL BOR	E							MANUA	LGEAR	OPERAT		UTOMA	TION
VALVE S	VALVE SIZE DIMENSIONS [mm]										EIGHT [K	9]		DI	MENSIO	NS [mr	n]		
INCL				A		DODE	•	-	-	DE	DTI		v			•	N	-	ISO 5211
INCH	mm RF RTJ SW E					BORE	С	E	F	RF	RTJ	SW-BW	v	L	D	G	N	1	
8" x 8"	200 x 200	832	841	832	832	195	360	492	800	855	865	850	65	18	96.5	69	254	18	F25
10" x 10"	250 x 250	991	1000	991	991	240	401.5	562	800	1377	1385	1300	70	20	102.5	74.5	298	21	F30

					RED	JCED B	ORE							MANUA	LGEAR	OPERAT		AUTOMA	TION
VALVE S	VALVE SIZE DIMENSIONS [mm]									w	eight [K	g]		DI	MENSIO	NS [m	n]		
INCU	A A					BORE	с	Е	-	BF	RTJ	SW-BW	v		D	G	N	-	ISO 5211
INCH	NCH mm RF RTJ SW E				BW	BUNE	Ŭ	-	F	DE	RIJ	3W-BW	v	-		G	N		
10" x 8"	250 x 200	991				195	360	492	800	1107	1120	1100	65	18	96.5	69	254	18	F25
12" x 10"	300 x 250	1130	1146	1130	1130	240	401.5	562	800	1479	1587	1450	70	20	102.5	74.5	298	21	F30

Gear Operated



DN15 ÷ 80 F.B. DN20 ÷ 100 R.B. CLASS 2500



ITEM NO.	Q .TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
2b	*****	Trunnion Screw	ASTM A193 B8	ASTM A193 B8	
3a	1	Stem Fire Seal	Graphite	Graphite	
3b	1	Trunnion Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	*****	Stem "O" Ring	VITON	VITON	
8a	*****	Trunnion "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat	ASTM A276/479 F316	ASTM A276/479 F316	
10b	2	Seat Seal	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
15 - 15a	2	Antistatic Spring	INCONEL X -750	INCONEL X -750	
16	*****	Adaptor Bolts	ASTM A320 L7M	ASTM A193 B8M	
30a - 30b - 30c	1+1+1	Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	1	Trunnion	ASTM A276/479 F316	ASTM A276/479 F316	
33	2	Seat Fire Seal	Graphite	Graphite	
34	*****	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



DIMENSIONS CLASS 2500





SW-BW

TOP VIEW



ØТ

RF-RTJ



FULL BORE MANUAL GEAR OPERATION OR AUTOMATION VALVE SIZE DIMENSIONS [mm] WEIGHT [Kg] DIMENSIONS [mm] ISO 5211 Α INCH mm BORE С Е F RF RTJ SW-BW NPT/F v L D G Ν т RF RTJ SW-BW NPT/F 1/2" x 1/2" 15 x 15 263 263 263 150 12.7 49 103 218 10 10 8 7 15 9 7.5 8.5 50 M6 F05 3/4" x 3/4" 20 x 20 273 273 273 150 16 49 103 218 20 20 15 12 15 9 7.5 8.5 50 M6 F05 1" x 1" 25 x 25 308 308 308 170 21 62 115 218 26 26 20 18 15 9 10 50 M6 F05 9 1.1/2" x 1.1/2 40 x 40 387 34 142 42 44 38 22 70 F07 384 384 220 85 420 38 16 14.5 16 M8 2" x 2" 50 x 50 451 454 451 260 44.5 100 158 420 72 75 42 40 24 18 22 70 M8 F07 19 3" x 3" 80 x 80 578 584 578 -64 142 335 400 160 163 120 -40 30 30 31 102 M10 F10

					REDU	JCED B	ORE								MANUA	LGEAR	OPERAT	ION OR A	AUTOMA	
VALVE S	SIZE			DIN	IENSION	NS [mr	n]				WEIGH	IT [Kg]			DI	MENSIO	NS [m	m]		
INCU				A		DODE	с	Е	F	BF	DTI	000 000		v		D	_		т	ISO 5211
INCH	mm	RF	RTJ	SW-BW	NPT/F	BORE	C	E	F	RF	RTJ	SW-BW	NP1/F	V	L	D	G	N	1	
3/4" x 1/2"	20 x 15	273	273	273	150	12.7	49	103	218	12	12	8.5	7	15	9	7.5	8.5	50	M6	F05
1" x 3/4"	25 x 20	308	308	308	150	16	49	103	218	25	25	20	12	15	9	7.5	8.5	50	M6	F05
1.1/4" x 1"	32 x 25	349	352	349	170	21	62	116	218	32	33	25	18	15	9	9	10	50	M6	F05
1.1/2" x 1"	40 x 25	384	387	384	170	21	62	116	218	35	37	28	18	15	9	9	10	50	M6	F05
2" x 1.1/2"	50 x 40	451	454	451	220	34	85	142	420	52	55	40	38	22	16	14.5	16	70	M8	F07
3" x 2"	80 x 50	578	584	578	-	44.5	100	158	420	100	103	45	-	24	18	15	22	70	M8	F07
4" x 3"	100 x 80	673	682.5	673	-	64	142	335	400	215	220	135	-	40	30	30	31	102	M10	F10

Gear Operated



DN150 ÷ 200 F.B. DN200 ÷ 250 R.B. CLASS 2500



ITEM NO.	Q.TY	PART NAME	MATERIAL (LF2/F316)	MATERIAL (F316/F316)	SPECIAL
NP	1	Name Plate	Stainless Steel	Stainless Steel	
2	*****	Upper Flange Screw	ASTM A193 B8	ASTM A193 B8	
2a	*****	Top Cover Screw	ASTM A193 B8	ASTM A193 B8	
3	1	Stem Fire Seal	Graphite	Graphite	
3a	1	Top Cover Fire Seal	Graphite	Graphite	
5	1	Upper Stem	ASTM A276/479 F316	ASTM A276/479 F316	
6	1	Top Cover	ASTM A350 LF2	ASTM A276/479 F316	
6a	1	Upper Flange	ASTM A350 LF2	ASTM A276/479 F316	
7	1	Thrust Washer	Reinforced PTFE	Reinforced PTFE	
8	2	Stem "O" Ring	VITON	VITON	
8a	1	Top Cover "O" Ring	VITON	VITON	
9	1	Ball	ASTM A276/479 F316	ASTM A276/479 F316	
10	2	Insert Seat	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	T-R-S LOW PRESSURE N-D-P-E HIGH PRESSURE	METAL SEATED
10a	2	Seat Ring	ASTM A276/479 F316	ASTM A276/479 F316	
11	2	Adaptor Fire Seal	Graphite	Graphite	
12	1	Body	ASTM A350 LF2	ASTM A276/479 F316	
13	2	Adaptor Flange	ASTM A350 LF2	ASTM A276/479 F316	
14	1	Stem Key	Carbon Steel	Carbon Steel	
15	4	Top Cover / Upper Flange Pin	INCONEL X -750	INCONEL X -750	
15a	4	Plate Pin	INCONEL X -750	INCONEL X -750	
16	*****	Stud Bolts	ASTM A320 L7M	ASTM A193 B8M	
16a	*****	Nuts	ASTM A194 GR 4	ASTM A194 GR8 M	
30	2	Ball Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
30a – 30b	1+1	Stem - Body Bearing	ASTM A276/479 F316	ASTM A276/479 F316	
30c	1	Plate Bearing	PTFE	PTFE	
31	*****	Seat Spring	INCONEL X - 750	INCONEL X - 750	
32	2	Plate	ASTM A276/479 F316	ASTM A276/479 F316	
34	2	Seat "O" Ring	VITON	VITON	
35	2	Adaptor "O" Ring	VITON	VITON	
36	1	Vent valve / bleeder	ASTM A276/479 F316	ASTM A276/479 F316	
36a	2	Vent "O" Ring	VITON	VITON	
37	1	Drain Plug	ASTM A276/479 F316	ASTM A276/479 F316	
37a	1	Drain "O" Ring	VITON	VITON	
38	2	Lifting Lug	ASTM A350 LF2	ASTM A276/479 F316	
39	2	Foot	ASTM A350 LF2	ASTM A276/479 F316	
40	1	Relief Valve	ASTM A276/479 F316	ASTM A276/479 F316	



	FULL BORE														MANUAL GEAR OPERATION OR AUTOMATION							
VALVE S	SIZE	DIMENSIONS [mm] WEIG										HT [Kg] DIMENSIONS [mm]										
INCU	mm	Α				DODE		_	_	DE	DTI							-	ISO 5211			
INCH		RF	RTJ	sw	BW	BORE	С	E	F	RF	RTJ	SW-BW	V	L	D	G	N	'				
6" x 6"	150 x 150	914.5	927	914.5	914.5	131	343	475	800	1000	1010	1005	65	18	96.5	69	254	18	F25			
8" x 8"	200 x 200	1022	1038	1022	1022	180	404	600	800	1509	1520	1500	70	20	102.5	74.5	298	21	F30			

REDUCED BORE													MANUAL GEAR OPERATION OR AUTOMATION							
VALVE S	SIZE	DIMENSIONS [mm]								WEIGHT [Kg]										
INCH	mm	Α				BORE	с	Е	-	BF	RTJ	SW-BW	v		D	G	N	-	ISO 5211	
INCH		RF	RTJ	sw	BW	BORE	Č	-		nr		3W-BW				G	IN			
8" x 6"	200 x 150	1022	1038	1022	1022	131	343	475	800	1100	1110	1095	65	18	96.5	69	254	18	F25	
10" x 8"	250 x 200	1270	1292	1270	1270	180	404	600	800	1689	1290	1650	70	20	102.5	74.5	298	21	F30	

Gear Operated