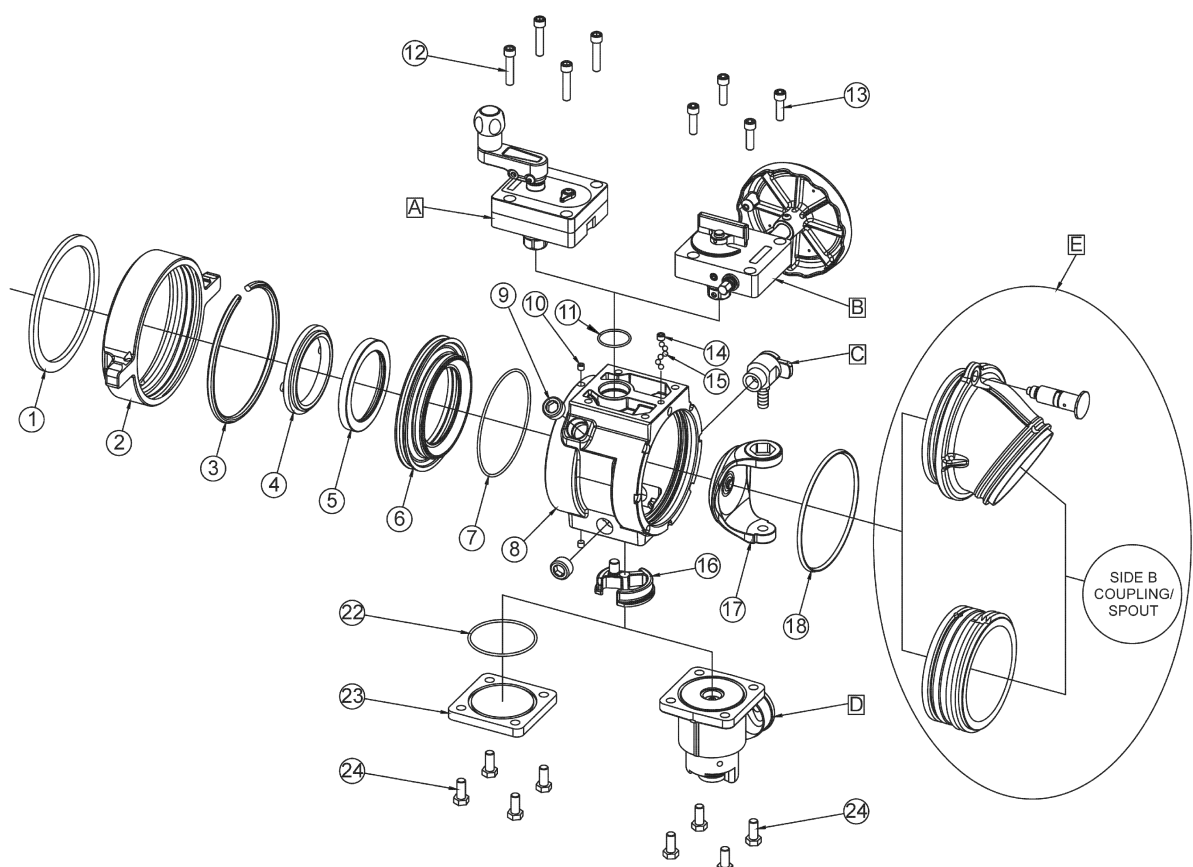
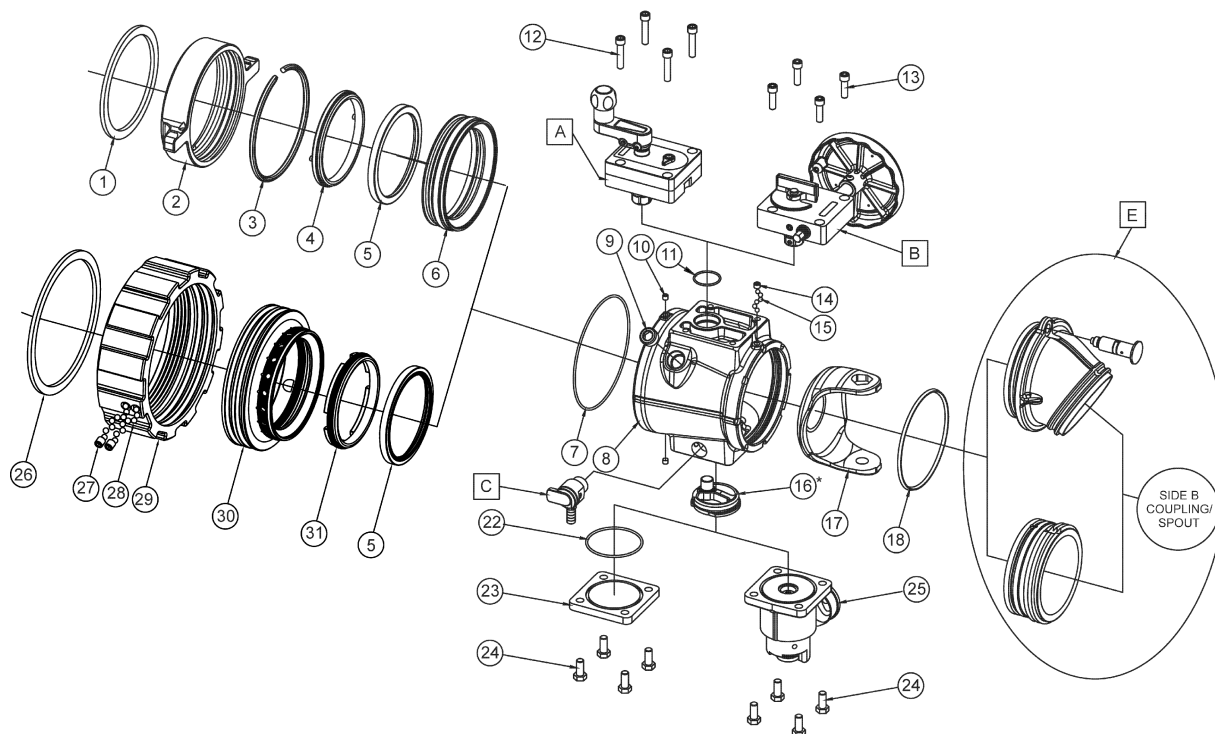




Index	Description	QTY	Part #
1	GASKET - 6.0"	1	V3240
	GASKET - 5.0"		V3220
2	COUPLING SH 6.0"NHF X PSF7.0-NFS	1	A1266NX
	COUPLING SH 5.0"NHF X PSF7.0-NFS		A1261NT
3	PLASTIC STRIP 7.00"	1	A1290
4	SEAL RETAINER STAINLESS STEEL	1	A1521S
5	VALVE SEAT BIV	1	A1520
6	BACK RING STAINLESS STEEL	1	A1201S
7	O-RING-253	1	VO-253
8	BALL INTAKE BODY PM	1	A1015
9	3/4"NPTM HEX SOCKET PLUG	2	XG410
10	5/16-18 X 1/4 SOCKET SET SCREW	2	VT31-18CP375
11	O-RING-128	1	VO-128
12	3/8-16 X 1-3/4 SOCKET HEAD SCREW	4	VT37-16SH1.7
13	3/8-16 X 1-1/4 SOCKET HEAD SCREW	4	VT37-16SH1.2

Index	Description	QTY	Part #
14	3/8-16 X 5/16 SOCKET SET SCREW	1	VT37-16SS312
15	1/4" SS BALL	72	V2125
16	HOLLOW TRUNNION	1	A1514
17	HALF BALL 5.5" STAINLESS STEEL	1	A1043S
18	CUP SEAL	1	A1545
22	O-RING-236	1	VO-236
23	LDH BLANK CAP	1	X631
24	7/16-14 X 1 HEX HEAD BOLT	4	VT43-14HX1.0
A	PARALLEL DRIVE GEARBOX	1	SEE SECTION 6.5
B	WORM DRIVE GEARBOX	1	SEE SECTION 6.6
C	AIR VENT/DRAIN VALVE	1	SEE SECTION 6.7
D	PRESSURE RELIEF VALVE	1	A1640
E	SIDE B COUPLING/SPOUT	1	SEE SECTION 6.4



Index	Description	QTY	Part #
1	GASKET - 6.0"	1	V3240
	GASKET - 5.0"		V3220
2	COUPLING SH 6.0"NHF X PSF7.0-NFS	1	A1266NX
	COUPLING SH 5.0"NHF X PSF7.0-NFS		A1261NT
3	PLASTIC STRIP 7.00"	1	A1290
4	6" SEAL RETAINER STAINLESS STEEL	1	A1080
	6" SEAL RETAINER ALUMINUM		A2117
5	VALVE SEAT	1	A1082
6	6" BACK RING STAINLESS STEEL	1	A1084S
	6" BACK RING STAINLESS STEEL		A1084SX
	6" BACK RING ALUMINUM		A1083
7	O-RING-262	1	VO-262
8	JUMBO BALL INTAKE BODY	1	A1086
9	3/4"NPTM HEX SOCKET PLUG	1	XG410
10	5/16-18 X 1/4 SOCKET SET SCREW	2	VT31-18CP375
11	O-RING-128	1	VO-128
12	3/8-16 X 1-3/4 SOCKET HEAD SCREW	4	VT37-16SH1.7
13	3/8-16 X 1-3/4 SOCKET HEAD SCREW	4	VT37-16SH1.2
14	3/8-16 X 5/16 SOCKET SET SCREW	1	VT37-16SS500
15	1/4" SS BALL	72	V2125

Index	Description	QTY	Part #
16	MIV TRUNNION STAINLESS STEEL	1	A1087
16*	MIV TRUNNION ALUMINUM	1	1087A
	BUSHING HALF BALL TRUNNION		A2117
17	HALF BALL STAINLESS STEEL 8" DIA	1	A1088S
	HALF BALL ALUMINUM 8" DIA	1	A1088A
18	CUP SEAL	1	A1545
22	O-RING-236	1	VO-236
23	LDH BLANK CAP	1	X631
24	7/16-14 X 1 HEX HEAD BOLT	4	VT43-14HX1.0
25	PRESSURE RELIEF VALVE	1	A1640
26	GASKET	1	V3260
27	1/2-20 X 1/2 SOCKET SET SCREW CUP POINT	2	VT50-20SS500
28	BALL 7/16" TORLON	128	VB437TO
29	COUPLING 8.0"NHF	1	A1267NY
30	BACK RING	1	A1099A
31	SEAT RETAINER	1	ZB1025A
A	PARALLEL DRIVE GEARBOX	1	SEE SECTION 6.5
B	WORM DRIVE GEARBOX	1	SEE SECTION 6.6
C	AIR VENT/DRAIN VALVE	1	SEE SECTION 6.7
E	SIDE B COUPLING/SPOUT	1	SEE SECTION 6.4

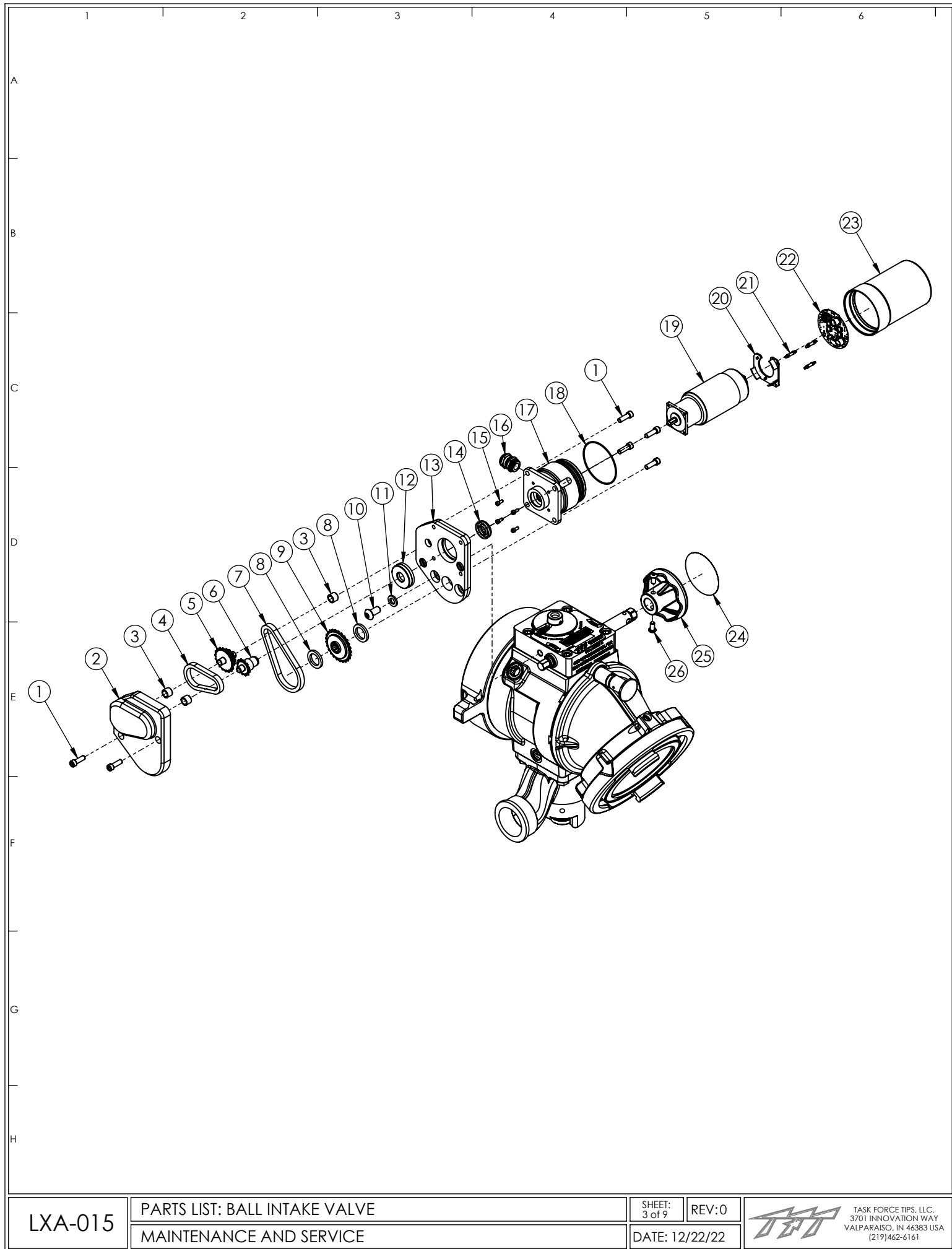
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PARTS LIST: BALL INTAKE VALVE
MAINTENANCE AND SERVICE

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DATE: 12/22/22



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PARTS LIST: BALL INTAKE VALVE
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3701 INNOVATION WAY
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	VT25-20SH750	1/4-20 X 3/4 SOCKET HEAD CAP SCREW	6
2	A1565	COVER	1
3	X252	BUSHING NYLON	3
4	A1569-28	28 LINK ROLLER CHAIN S.S.	1
5	A1567	DOUBLE SPROCKET 12/18 T	1
6	A1566	12 T SPROCKET	1
7	A1569-40	40 LINK ROLLER CHAIN S.S.	1
8	A1530	THIN WASHER	2
9	A1568	25 T SPROCKET	1
10	VT37-16BH750	3/8-16 X 3/4 BUTTON HEAD CAP SCREW	1
11	VW375SSLOCK	LOCK WASHER 3/8" STAINLESS	1
12	X256	BUSHING MOTOR	1
13	A1564	REDUCER HOUSING	1
14	Y4620	CUP SEAL 1.0625 X .5625 X 1/4	1
15	VT06S32SH312	6-32 X 5/16 SHCS WITH SILICONE HEAD SEAL	4
16	Y5205	STRAIN RELIEF PG11	1
17	Y4615	MOTOR SOCKET	1
18	VO-038	O-RING 038	1
19	Y4611	GEAR MOTOR W/CRIMPED TERMINALS	1
20	Y4643	MOTOR BOARD SUPPORT	1
21	Y5538	CIRCUIT BOARD STANDOFF	3
22	A5825	BOARD - VALVE MOTOR CONTROL	1
23	Y4641	MOTOR ENCLOSURE	1
24	Y4176	OVERRIDE KNOB LABEL	1
25	Z245	KNOB	1
26	VT25-20BH500	1/4-20 X 1/2 BUTTON HEAD CAP SCREW	2

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PARTS LIST: BALL INTAKE VALVE
MAINTENANCE AND SERVICE

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DATE: 12/22/22



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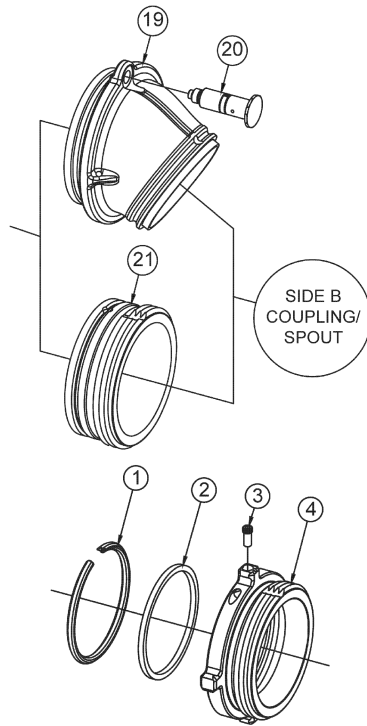
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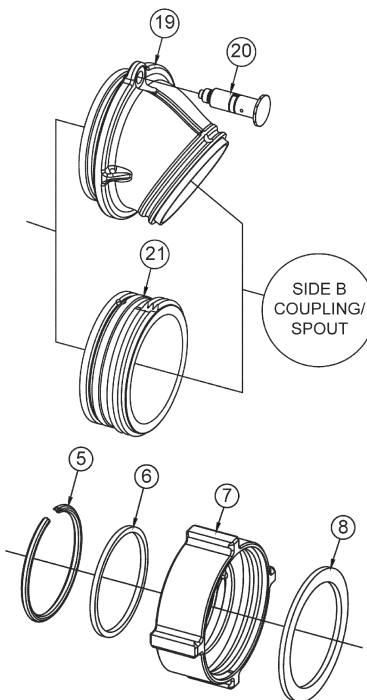
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AB/AC & AX/AZ SERIES - MALE HOSE THREADS						AB/AC	AX/AZ
INDEX	DESCRIPTION	QTY.	4.0"	4.5"	5.0"	6.0"	6.0"
19	ELBOW	1	A1054	A1054	A1054	A1054	A1091
20	PULL PIN ASSEMBLY	1	A1615	A1615	A1615	A1615	A1615
1	PLASTIC STRIP	1	A1291	A1291	A1291	A1291	A1293
2	CUP SEAL	1	A1596	A1596	A1596	A1596	A1594
3	LOCK-OUT SCREW	1	A1294	A1294	A1294	A1294	A1294
4	SPOUT	1	A4620N	A4625N	A4630N	A4635N	A4640N

ABS/ACS & AP/AQ SERIES - MALE HOSE THREADS						
INDEX	DESCRIPTION	QTY.	4.0"	4.5"	5.0"	6.0"
21	MATE/SPOUT	1	A1055	A1055	A4631N	A4641N
1	PLASTIC STRIP	1	A1291	A1291	-	-
2	CUP SEAL	1	A1596	A1596	-	-
3	LOCK-OUT SCREW	1	A1294	A1294	-	-
4	SPOUT	1	A4620N	A4625N	-	-



AB/AC & AX/AZ SERIES - FEMALE HOSE THREADS ROCKER LUG						
INDEX	DESCRIPTION	QTY.	3.5"	4.0"	4.5"	5.0"
19	ELBOW	1	A1054	A1054	A1054	A1054
20	PULL PIN ASSEMBLY	1	A1615	A1615	A1615	A1615
5	PLASTIC STRIP	1	A1291	A1291	A1291	A1291
6	CUP SEAL/O-RING	1	A1596	-	-	A1596
7	COUPLING	1	A4655N	A4662N	A4667N	A4670N
8	GASKET	1	V3196	V3198	V3210	V3220
-	NFS RING/O-RING	1	-	A4561/VO-248	A4566/VO-248	-
-	MATE	1	A4730	-	-	-
-	PLASTIC STRIP	1	A1292	-	-	-
-	CUP SEAL	1	A1597	-	-	-
-	BALL	1	VB.437	-	-	-

ABS/ACS & AP/AQ SERIES - FEMALE HOSE THREADS ROCKER LUG						
INDEX	DESCRIPTION	QTY.	3.5"	4.0"	4.5"	5.0"
21	MATE/SPOUT	1	A1055	A1055	A1055	A1055
5	PLASTIC STRIP	1	A1292	A1291	A1291	A1291
6	CUP SEAL	1	A1597	-	-	A1596
7	COUPLING	1	A4655N	A4662N	A4667N	A4670N
8	GASKET	1	V3196	V3198	V3210	V3220
-	NFS RING/O-RING	1	-	A4561/VO-248	A4566/VO-248	-
-	MATE	1	A4730	-	-	-
-	PLASTIC STRIP	1	A1291	-	-	-
-	CUP SEAL	1	A1596	-	-	-
-	BALL	1	VB.437	-	-	-

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PARTS LIST: BALL INTAKE VALVE
MAINTENANCE AND SERVICE

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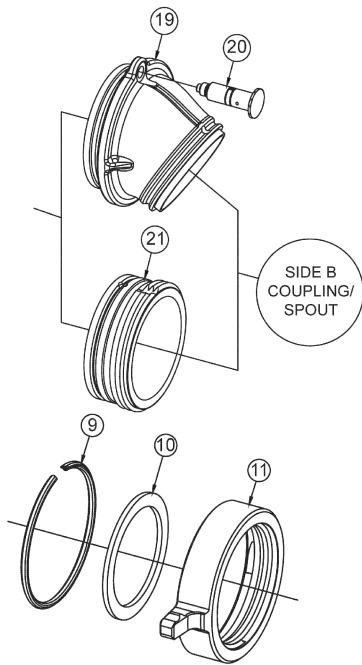
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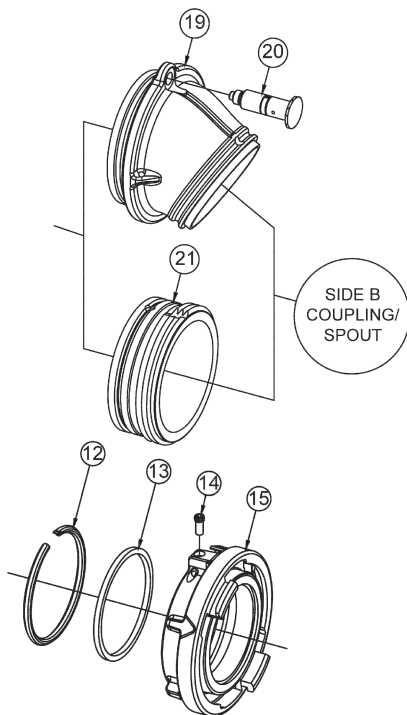


AB/AC & AX/AZ SERIES - FEMALE HOSE THREADS LONG HANDLE

INDEX	DESCRIPTION	QTY.	4.0"	4.5"	5.0"	6.0"
19	ELBOW	1	A1054	A1054	A1054	A1091
20	PULL PIN ASSEMBLY	1	A1615	A1615	A1615	A1615
9	PLASTIC STRIP	1	A1291	A1291	A1290	A1293
10	GASKET	1	V3198	V3210	V3220	V3240
11	COUPLING	1	A4562N	A4567N	A4570NT	A4575NX
-	NFS RING/O-RING	1	A4561/VO-248	A4566/VO-248	-	A4576/VO-254
-	MATE	1	-	-	-	-
-	PLASTIC STRIP	1	-	-	-	-
-	CUP SEAL	1	-	-	-	-

ABS/ACS & AP/AQ SERIES - FEMALE HOSE THREADS LONG HANDLE

INDEX	DESCRIPTION	QTY.	4.0"	4.5"	5.0"
21	MATE/SPOUT	1	A1055	A1055	A1055
9	PLASTIC STRIP	1	A1291	A1291	A1290
10	GASKET	1	V3198	V3210	V3220
11	COUPLING	1	A4562N	A4567N	A4570NT
-	NFS RING/O-RING	1	A4561/VO-248	A4566/VO-248	-



AB/AC & AX/AZ SERIES - STORZ

INDEX	DESCRIPTION	QTY.	4.0"	5.0"	6.0"
19	ELBOW	1	A1054	A1054	A1091
20	PULL PIN ASSEMBLY	1	A1615	A1615	A1615
12	PLASTIC STRIP	1	A1292	A1291	A1293
13	CUP SEAL	1	A1597	A1596	A1594
14	LOCK-OUT SCREW	1	A1294	A1294	A1294
15	COUPLING	1	A4124	A4125	A4277
-	MATE	1	A4730	-	-
-	PLASTIC STRIP	1	A1291	-	-
-	CUP SEAL	1	A1596	-	-
-	BALL	1	VB.437	-	-

ABS/ACS & AP/AQ SERIES - STORZ

INDEX	DESCRIPTION	QTY.	4.0"	5.0"	6.0"
21	MATE/SPOUT	1	A1055	A1055	A1093
12	PLASTIC STRIP	1	A1292	A1291	A1293
13	CUP SEAL	1	A1597	A1596	A1594
14	LOCK-OUT SCREW	1	A1294	A1294	-
15	COUPLING	1	A4124	A4125	A4277
-	MATE	1	A4730	-	-
-	PLASTIC STRIP	1	A1291	-	-
-	CUP SEAL	1	A1596	-	-
-	BALL	1	VB.437	-	VB.437

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MAINTENANCE AND SERVICE

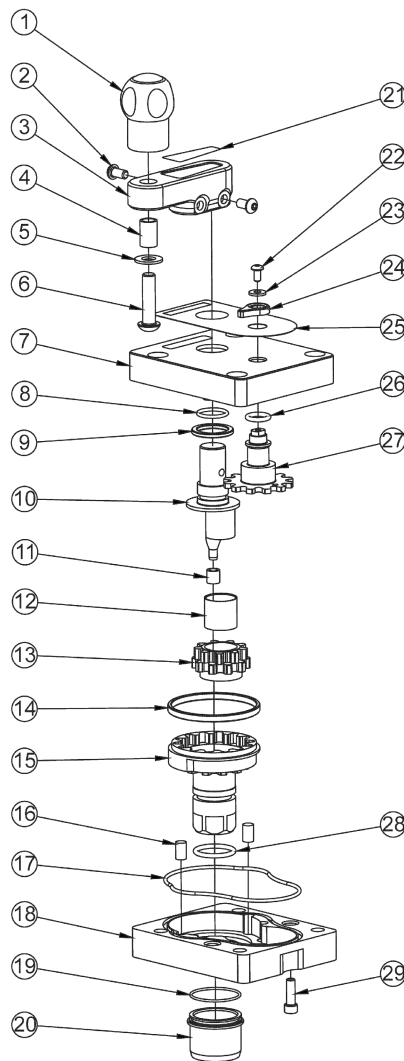
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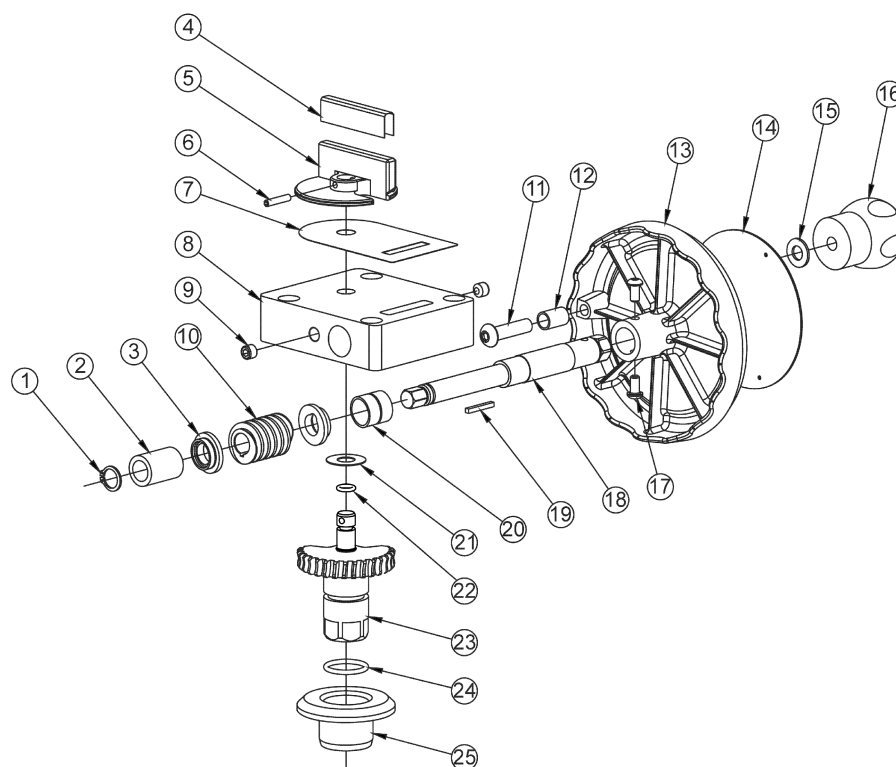
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3701 INNOVATION WAY
VALPARAISO, IN 46383 USA
(219)462-6161



Replacement Kit
A1633-KIT

ITEM	DESCRIPTION	QTY	PART #
1	KNOB	1	A1512
2	1/4-20 X 1/2 BUTTON HEAD SCREW	2	VT25-20BH500
3	CRANK	1	A1559
4	CRANK BUSHING	1	A1513
5	WASHER	1	VW812X406-65
6	3/8-16 X 1-1/2 BUTTON HEAD SCREW	1	VT37-16BH1.5
7	GEARBOX	1	A1550
8	O-RING-116	1	VO-116
9	SPACER	1	A1556
10	DRIVE SHAFT	1	A1555
11	NYLON BUSHING	1	AY307
12	GEAR BUSHING	1	A1548
13	DOUBLE GEAR	1	A1554
14	TRUNNION BUSHING	1	A1549
15	INNER TRUNNION	1	A1553

ITEM	DESCRIPTION	QTY	PART #
16	DOWEL PIN	2	VP312X.50
17	O-RING-154	1	VO-154
18	SUBPLATE	1	A1551
19	O-RING-028	1	VO-028
20	INNER BUSHING	1	A1552
21	HANDLE LABEL - WHITE	1	AY342-WHT
22	10-24 3/8 BUTTON HEAD SCREW	1	VT10-24BH375
23	WASHER	1	VW500X203-60
24	POSITION INDICATOR	1	A1558
25	LABEL	1	A1550L
26	O-RING-206	1	VO-206
27	INDICATOR GEAR	1	A1557
28	O-RING-214	1	VO-214
29	1/4-20 X 3/4 SOCKET HEAD SCREW	1	VT25-20SH750



ITEM	DESCRIPTION	QTY	PART #
1	RETAINING RING 15MM EXTERNAL	1	VR4275
2	THICK BUSHING	1	A1528
3	WORM THRUST WASHER	2	A1531
4	POSITION INDICATOR LABEL	1	A1524
5	POSITION INDICATOR WITH FLAG	1	A1523
6	5/32 X 7/8 HDP SPIROL PIN	1	V1900
7	LABEL	1	A1301
8	GEARBOX	1	A1506
9	3/8-16 X 5/16 SOCKET SET SCREW	1	VT37-16SS312
10	12 DP WORM	1	X220
11	3/8-16 X 1-1/2 BUTTON HEAD SCREW	1	VT37-16BH1.5
12	CRANK BUSHING	1	A1513

ITEM	DESCRIPTION	QTY	PART #
13	HANDWHEEL	1	X281
14	HANDWHEEL LABEL	1	A1306
15	WASHER	1	VW812X406-65
16	KNOB	1	A1512
17	1/4-20 X 1/2 BUTTON HEAD SCREW	2	VT25-20BH500
18	CRANK SHAFT	1	A1533
19	KEY	1	X225
20	THIN BUSHING	1	A1527
21	GEAR THRUST WASHER	1	A1502
22	O-RING-109	1	VO-109
23	INTEGRAL WORM GEAR & TRUNNION	1	A1501
24	O-RING-214	1	VO-214
25	GEAR SPACER	1	A1511

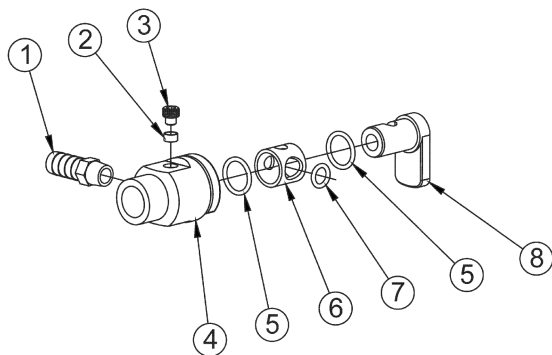
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PARTS LIST: BALL INTAKE VALVE
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Replacement Kit A1621-KIT

ITEM	DESCRIPTION	QTY	PART #
1	1/2" BARB X 1/4"NPTM NIPPLE	1	XX329
2	FOLLOWER	1	U251
3	3/8-24 X 3/8 DOG POINT	1	H515
4	DRAIN HOUSING	1	A1543
5	O-RING 115	2	VO-115
6	DRAIN SLEEVE	1	A1541
7	O-RING-110	1	VO-110
8	DRAIN LEVER	1	A1542