Assembly Guide

Priming Tank
Ball Float

Revision 3

Release Date: 21 May 2026

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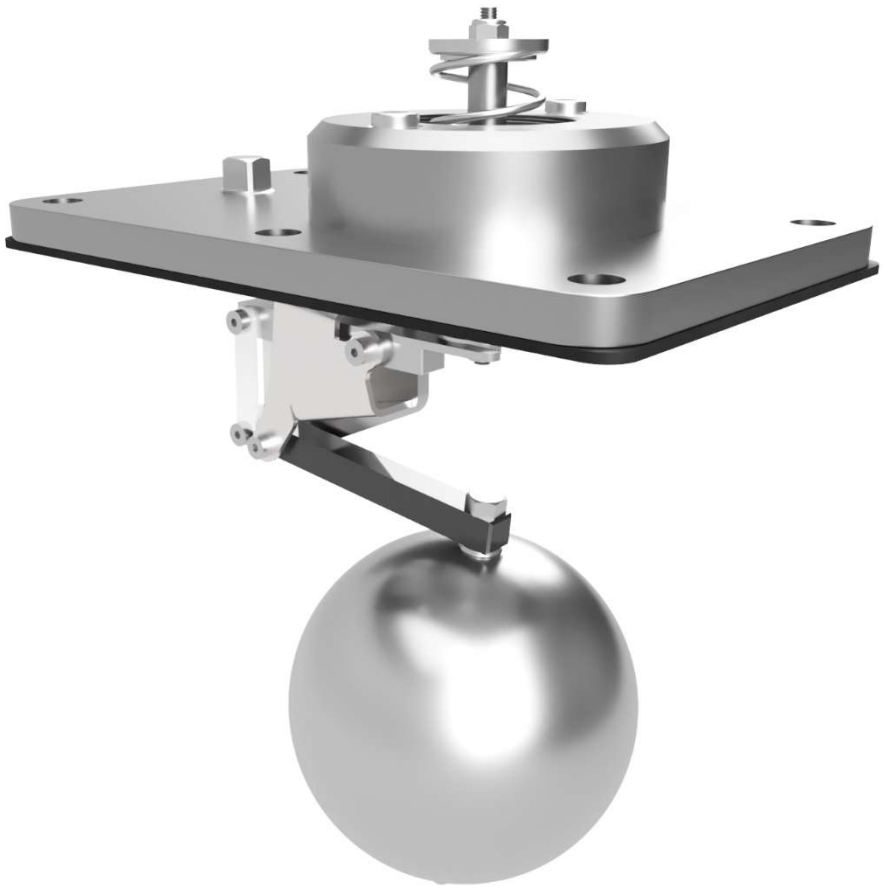

Priming Tank Ball Float Assembly

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Torque Charts

Imperial Bolt Torque (UNC Threads)

Bolt Size (in.)	Wrench Size (in.)	304 SS (ft·lb / Nm)	Grade 5 Steel (ft·lb / Nm)
1/4	7/16	3 (4)	9 (12)
J0im 5/16	1/2	7 (9)	19 (26)
3/8	9/16	13 (17)	34 (46)
7/16	5/8	20 (27)	54 (73)
1/2	3/4	31 (42)	83 (113)
9/16	13/16	45 (61)	120 (163)
5/8	15/16	63 (85)	165 (224)
3/4	1 1/8	112 (152)	293 (397)
7/8	1 5/16	180 (244)	474 (643)
1	1 1/2	270 (366)	710 (963)
1 1/4	1 7/8	540 (732)	1421 (1927)

Metric Bolt Torque (Coarse Threads)

Bolt Size (mm)	Wrench Size (mm)	304 SS (Nm)	8.8 Steel (Nm)	10.9 Steel (Nm)
M4	7	2.5	3	4
M5	8	5	6	8
M6	10	8	10	13
M8	13	20	24	34
M10	17	40	48	67
M12	19	70	83	117
M14	22	110	132	185
M16	24	170	200	285
M20	30	330	390	550
M24	36	570	675	960

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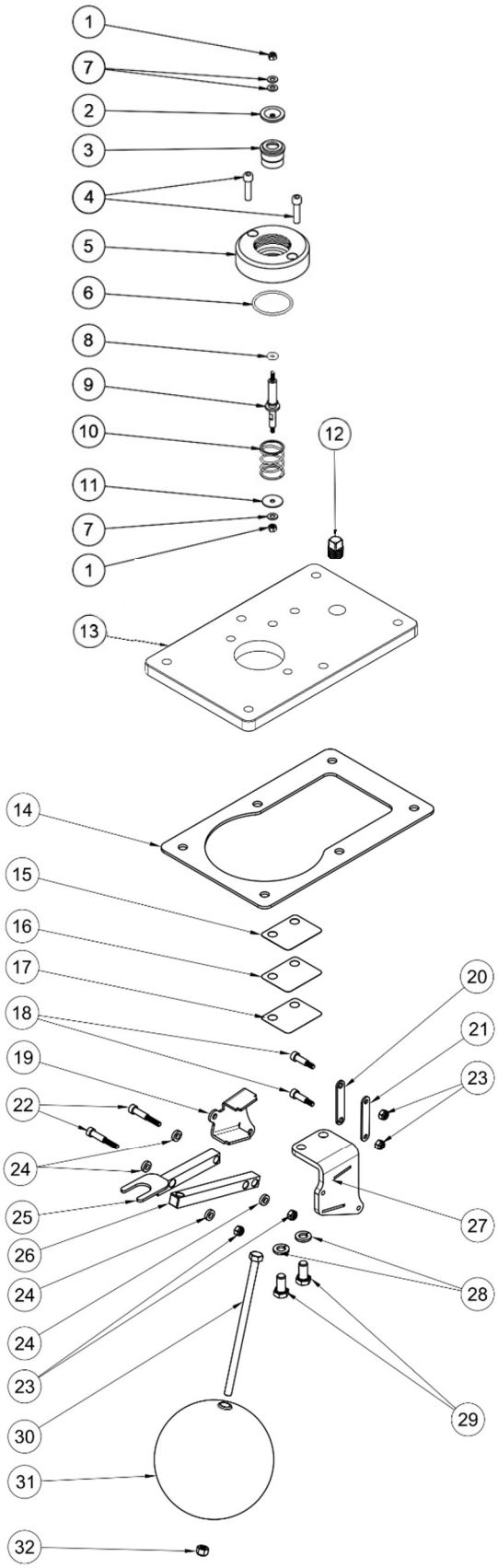
Exploded View



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Parts List

Item	Qty	Part Number	Material
1	2	LOCKNUT NYLON INSERT 1/4''-20 TPI UNC	Stainless Steel AISI 304
2	1	WASHER VALVE	Stainless Steel AISI 304
3	1	VALVE SEAT	Stainless Steel AISI 304
4	2	SCREW SOCKET HEAD CAP 3/8'-16 TPI UNC X 1.5”	Stainless Steel 304, Plain
5	1	VALVE COVER	Stainless Steel AISI 304
6	1	O-RING LARGE	VITON
7	3	FLAT WASHER	Stainless Steel AISI 304
8	1	O-RING SMALL	VITON
9	1	VALVE STEM	Stainless Steel AISI 304
10	1	SPRING	Stainless Steel AISI 302
11	1	FENDER WASHER	Stainless Steel AISI 304
12	1	PLUG SQUARE HEAD	Stainless Steel AISI 304
13	1	LID PRIMING CHAMBER	Stainless Steel AISI 304
14	1	GASKET PRIMING CHAMBER LID	VITON
15	1	PRIMING ASSEMBLY SHIM C	Stainless Steel AISI 304
16	1	PRIMING ASSEMBLY SHIM B	Stainless Steel AISI 304
17	1	PRIMING ASSEMBLY SHIM A	Stainless Steel AISI 304
18	2	FLOAT LINKAGE THREADED PIN	Stainless Steel AISI 304
19	1	LINKAGE HOUSING	Stainless Steel AISI 304
20	1	LINKAGE CONNECTOR B	Stainless Steel AISI 304
21	1	LINKAGE CONNECTOR A	Stainless Steel AISI 304
22	2	FLOAT LINKAGE THREADED PIN	Stainless Steel AISI 304
23	4	LOCKNUT NYLON INSERT 10-24 X 24 TPI UNC	Stainless Steel AISI 304
24	4	SPACER WASHER	Stainless Steel AISI 304
25	1	LINKAGE ARM UPPER	Stainless Steel AISI 304
26	1	LINKAGE ARM LOWER	Stainless Steel AISI 304
27	2	LINKAGE BRACKET	Stainless Steel AISI 304
28	2	WASHER - SPRING 3/8''	Stainless Steel 304, Plain
29	2	BOLT HEX HEAD 3/8-16 UNC x 0.75	Stainless Steel 304, Plain
30	1	BOLT HEX HEAD 5/16''-18 TPI UNC X 6.5''	Stainless Steel 304, Plain
31	1	FLOAT BALL	Stainless Steel AISI 304
32	1	LOCKNUT NYLON INSERT 5/16''-18 TPI UNC	Stainless Steel AISI 304

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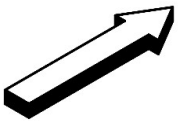
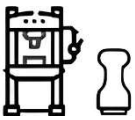
Assembly Symbol Legend		
Item no.	**Symbol**	**Symbol Meaning**
1		**Move Components in Direction of Arrow**
2		**Loctite 243 Blue Medium Strength Threadlocker**
3		**Rotate Apparatus**
4		**Hydraulic Press & Press Sleeves**
5		**Detail / Note / Information**

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Assembly Symbol Legend

Assembly Guide

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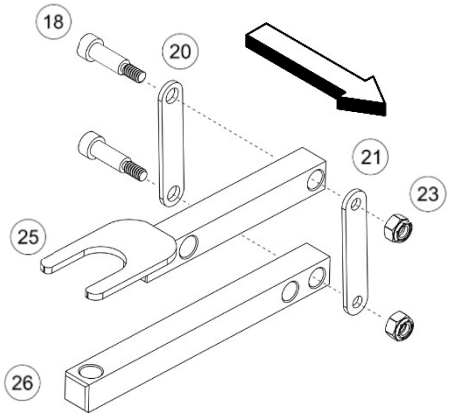

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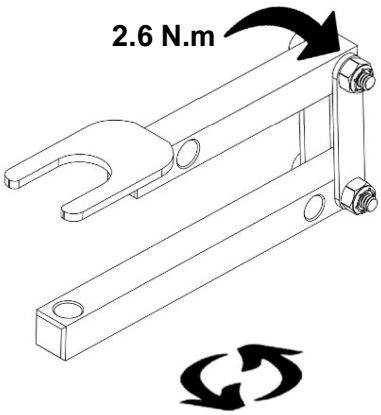

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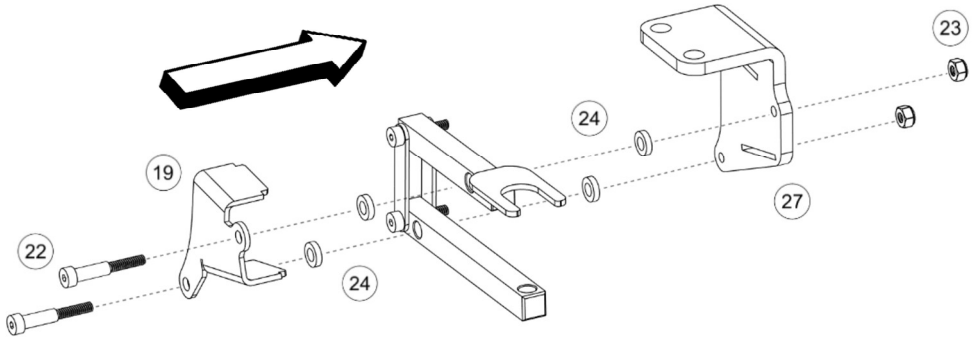

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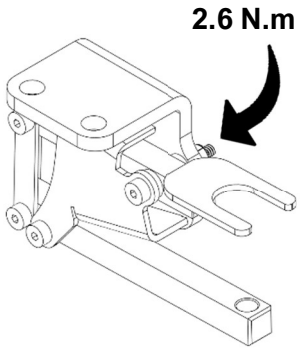

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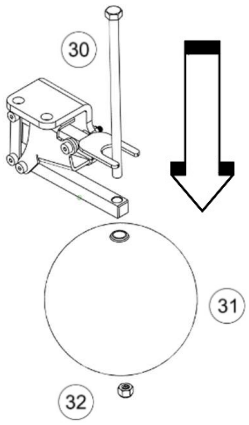

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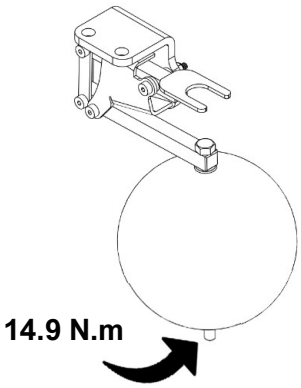

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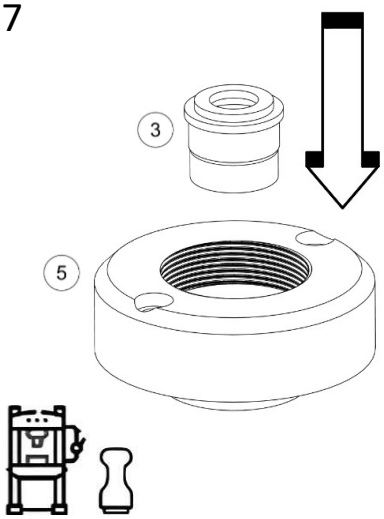

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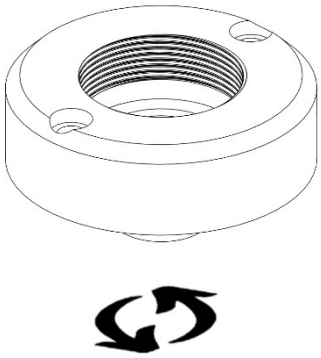

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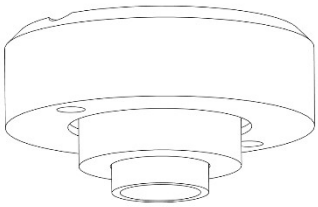

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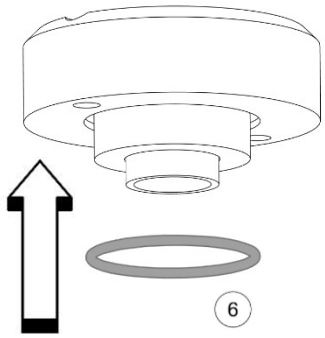

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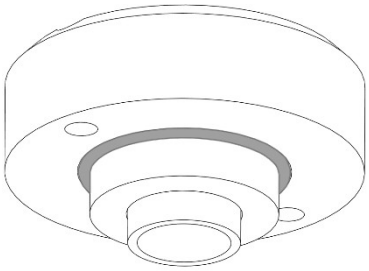

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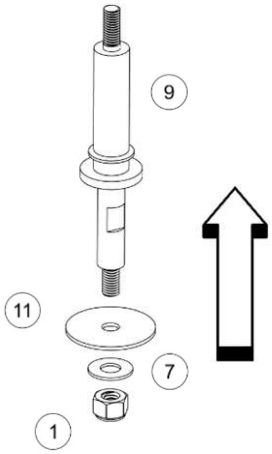

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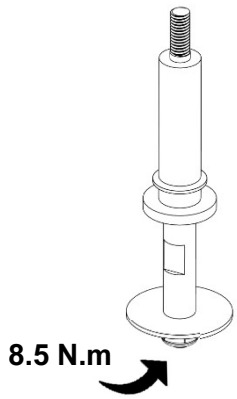

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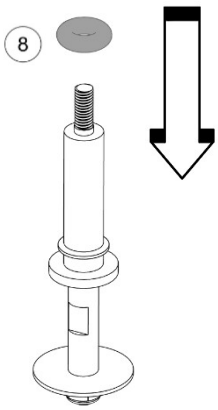

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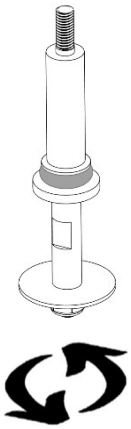

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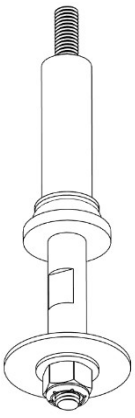

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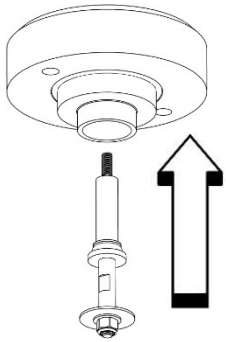

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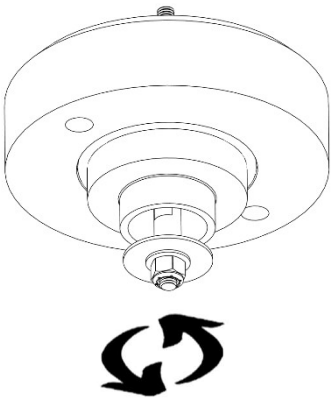

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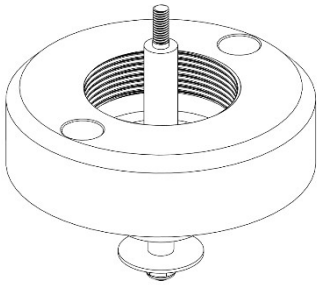

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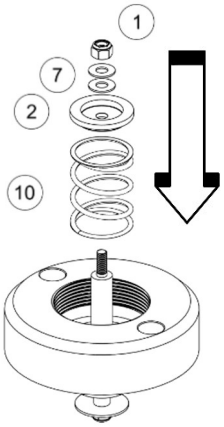

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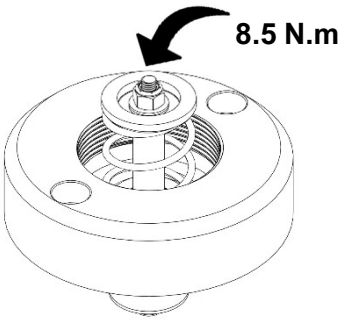

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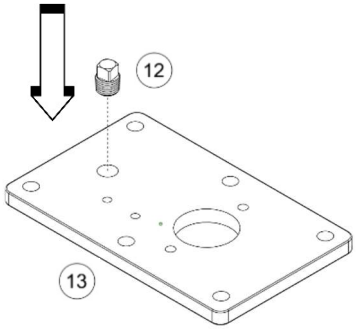

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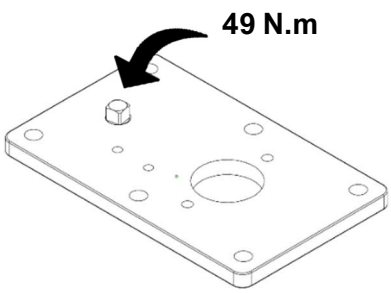

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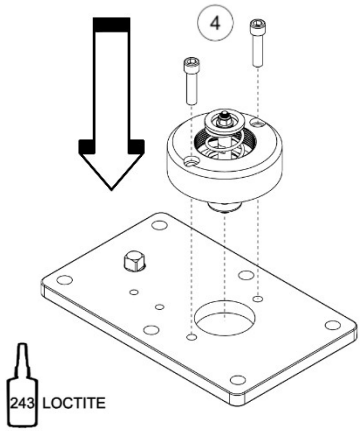

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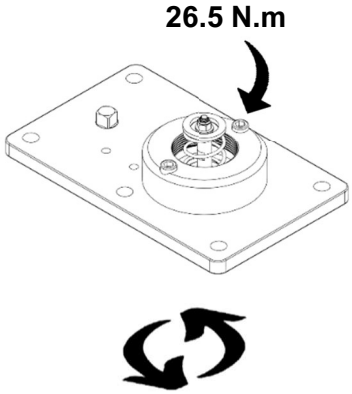

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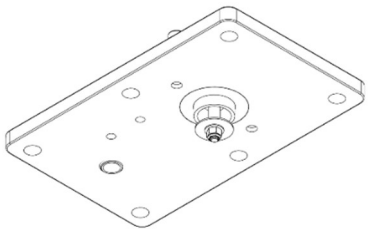

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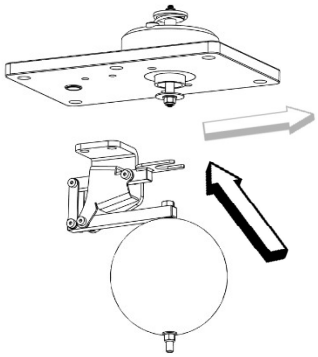

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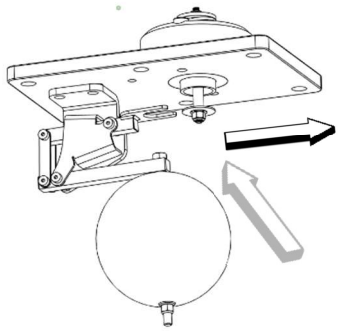

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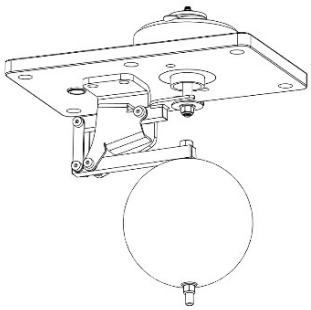

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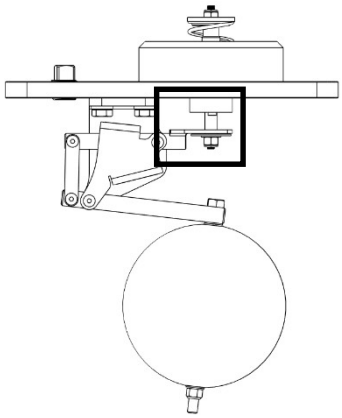

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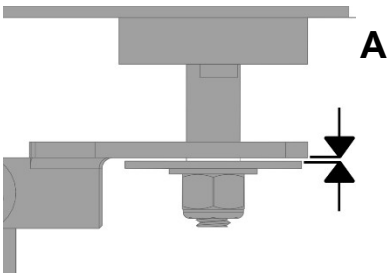

A = 0.75~2.0mm

IF NOT, USE SUPPLIED SHIMS

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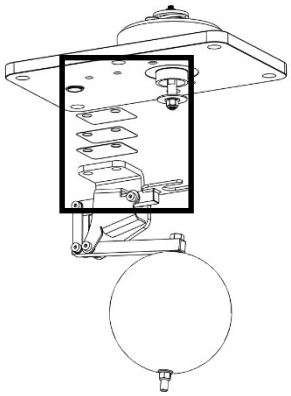

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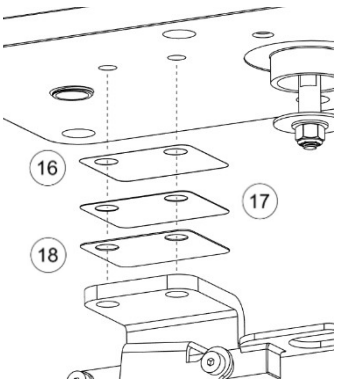

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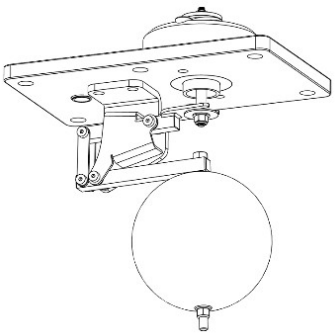

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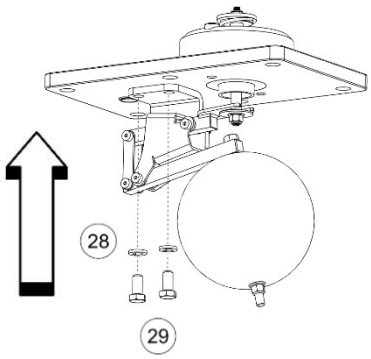

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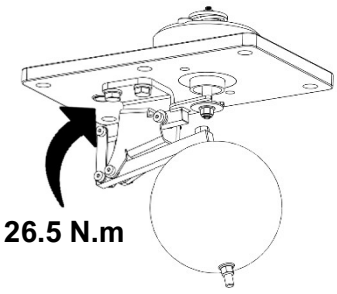

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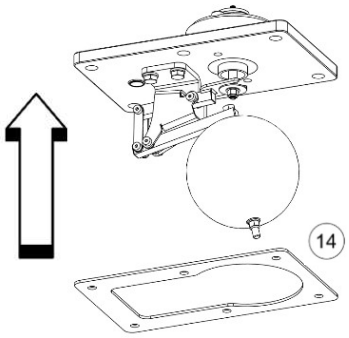

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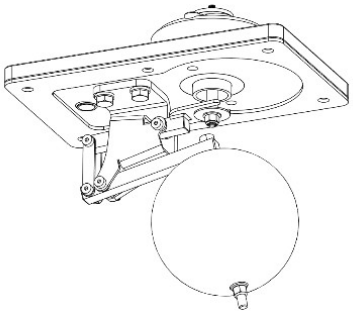

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Disclaimer & Additional Information

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