Assembly Guide

AP+ NRV TRS-D
200mm (8”)

Non-Return Valve with True Renew System (TRS) Rubber Disc Version

Revision 1

Release Date: 30 07 2026

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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)
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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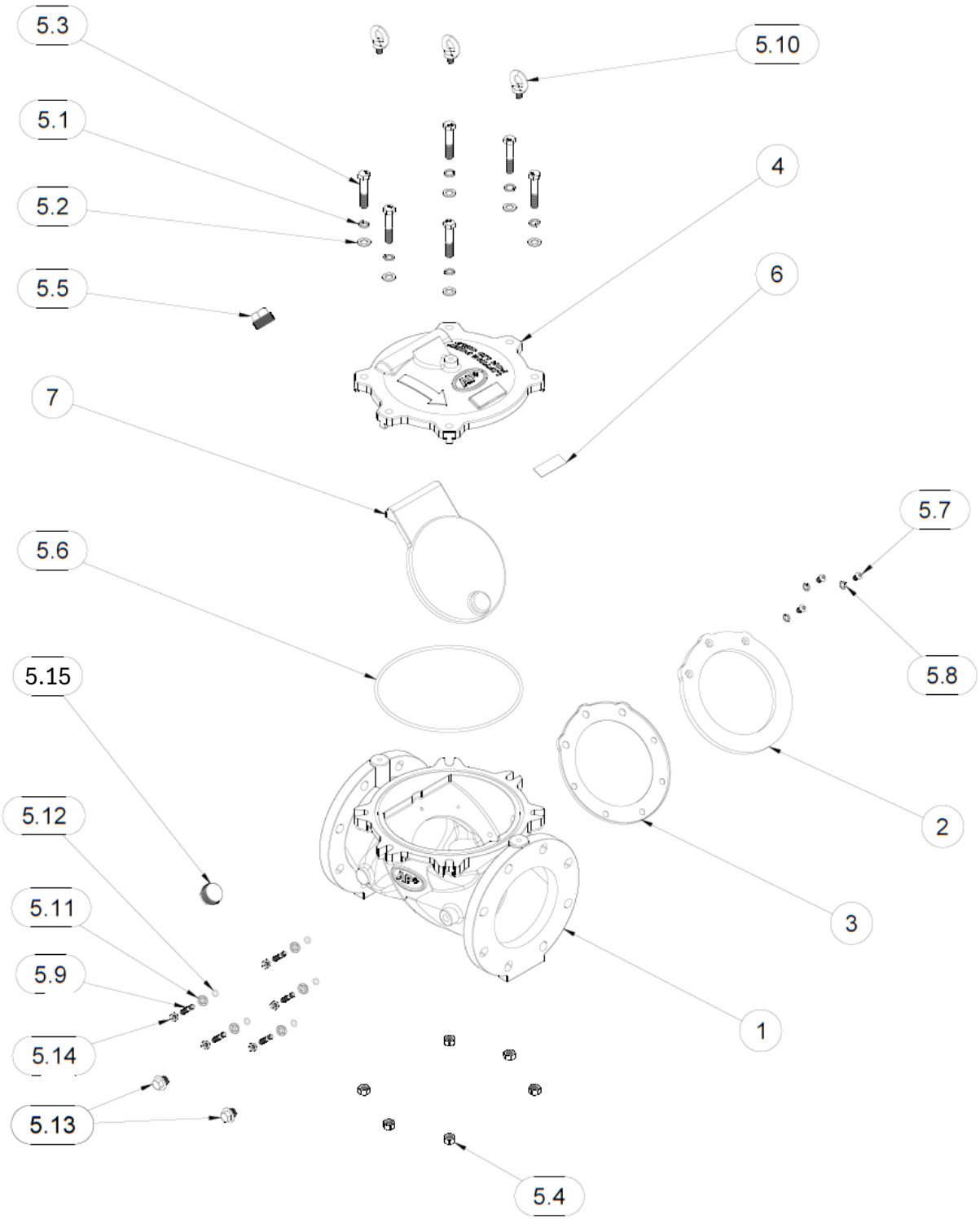
Exploded View



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Parts List

Item	Qty	Part Number
1	1	NON RETURN VALVE BODY 200MM / 8"
2	1	NON RETURN VALVE SEAT 200MM / 8"
3	1	NON RETURN VALVE SEAT GASKET 200MM / 8"
4	1	NON RETURN VALVE LID 200MM / 8"
5.1	6	SPRING WASHER M16 G8.8 ZINC PLATED
5.2	6	FLAT WASHER M16 G8.8 ZINC PLATED
5.3	6	HEX BOLT M16 X 2 X 75 G8.8 ZINC PLATED
5.4	6	HEX NUT M16 X 2 G8.8 ZINC PLATED
5.5	1	HEX HEAD PLUG 1' BSPT - 11 TPI
5.6	1	O-RING VITON
5.7	3	FLANGED BUTTON HEX HEAD SCREW M10 X 1.5 X 20 A4-80 316 S/S
5.8	3	SPRING WASHER M10 A4-80 316 S/S
5.9	5	STUD M10 X 1.5 X 50 A4-80 316 S/S
5.10	3	LIFTING EYE M12 X 21 WWL 340KG 304 S/S
5.11	5	O-RING SEALING WASHER M10 A4-80 316 S/S
5.12	5	O-RING VITON
5.13	2	HEX HEAD PLUG 1/2" BSPT - 14 TPI
5.14	5	HEX NYLOCK NUT M10 X 1.5 A4-80 316 S/S
5.15	1	HEX HEAD PLUG 1" 1/2' BSPT - 11 TPI
6	1	NON RETURN VALVE DATA PLATE 200MM / 8"
7	1	NON RETURN VALVE RUBBER DISC 200MM / 8"

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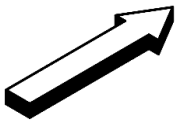
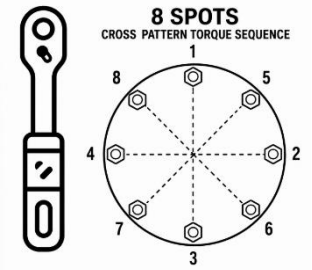
Assembly Symbol Legend

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		**Detail / Note / Information**
5		**Torque Wrench and Cross Pattern Tightening Sequence**

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Assembly Guide

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 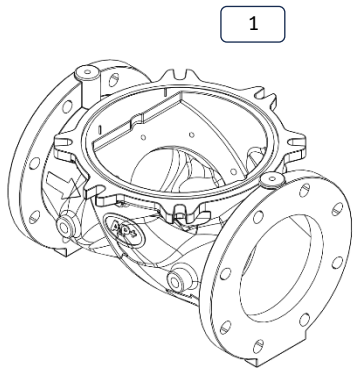
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 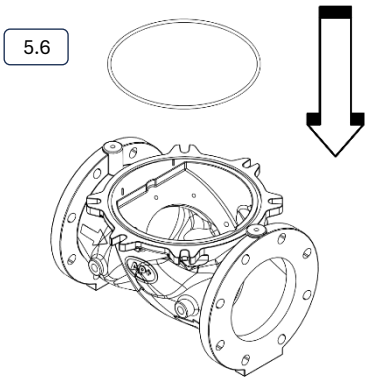
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 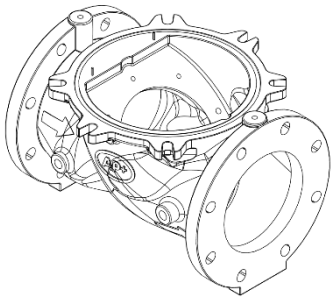 </td>
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 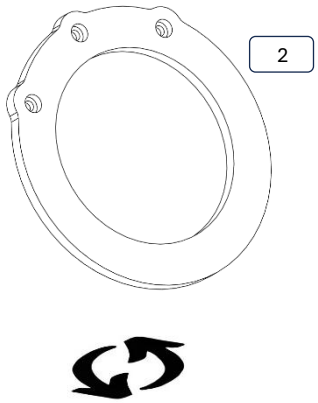
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 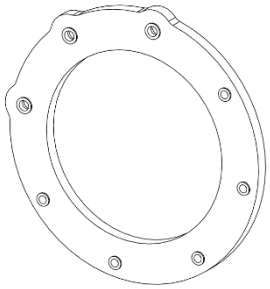 </td>
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 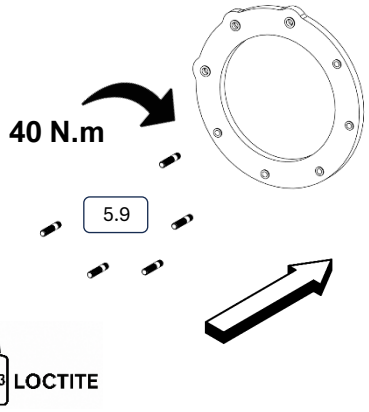
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 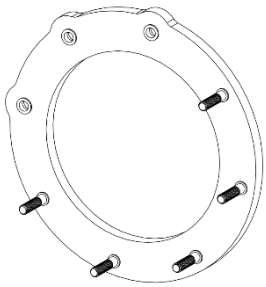 </td>
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 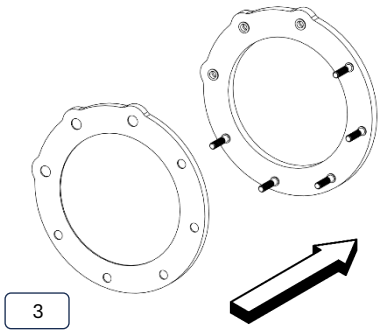
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 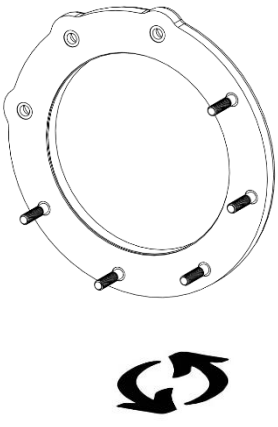 </td>
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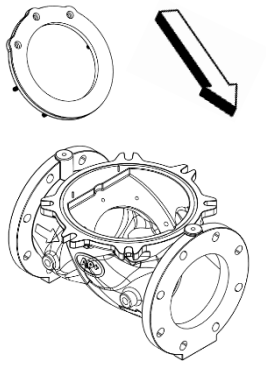

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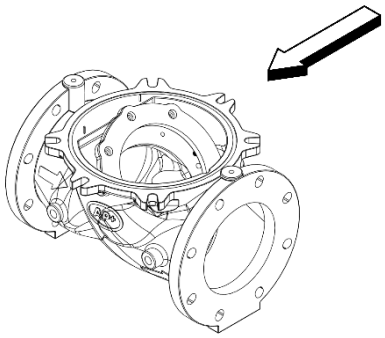

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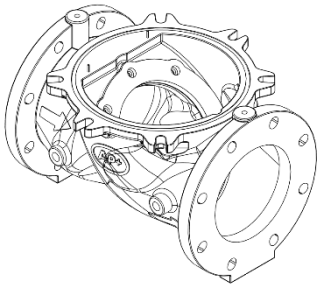

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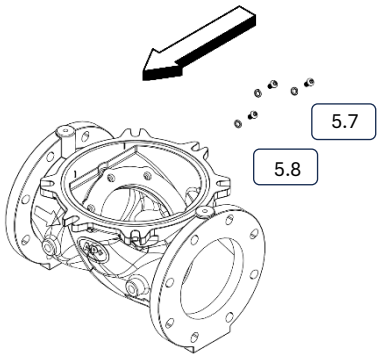

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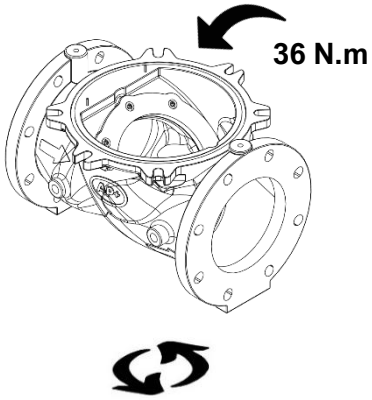

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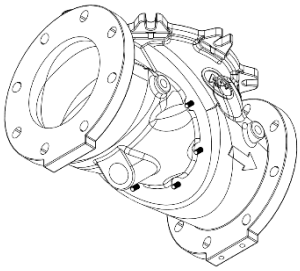

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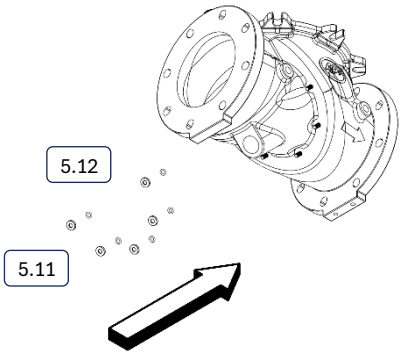

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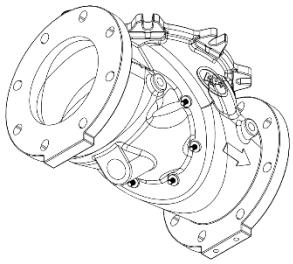

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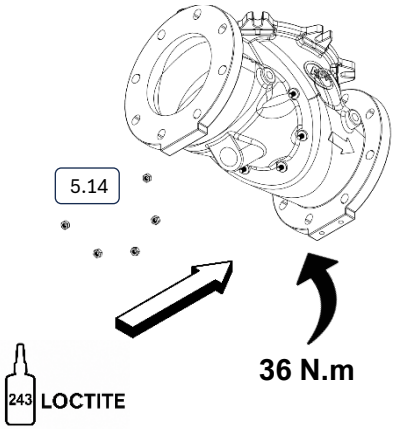

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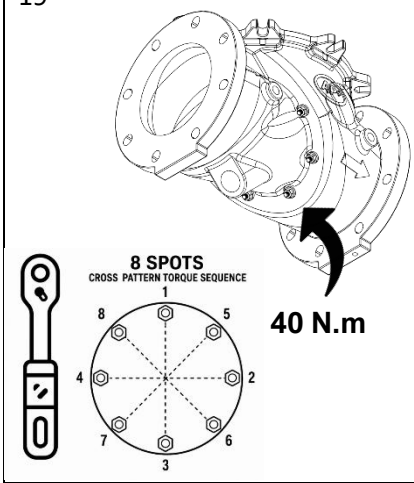

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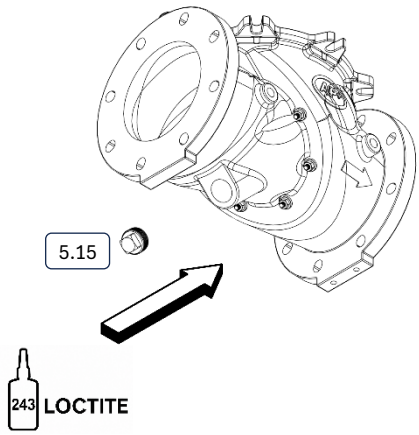

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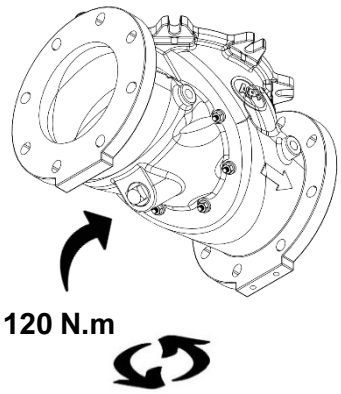

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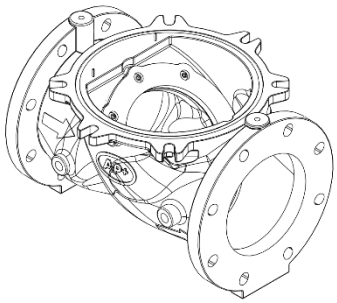

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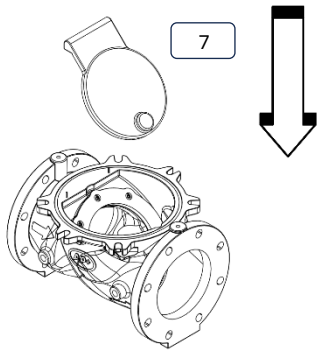

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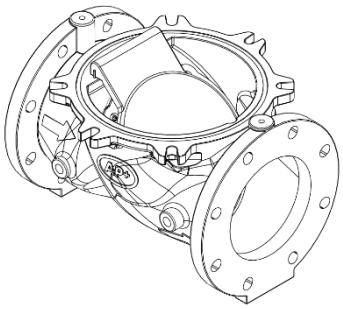

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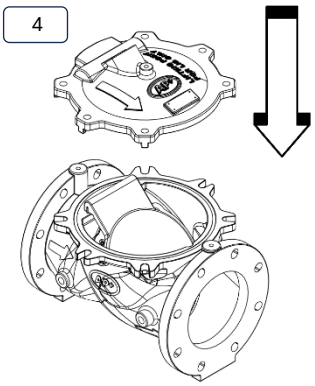

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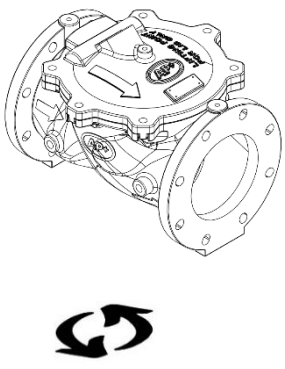

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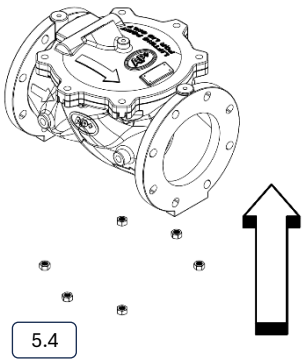

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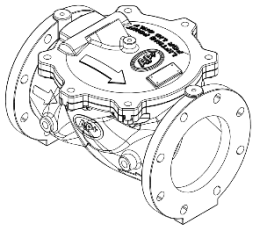

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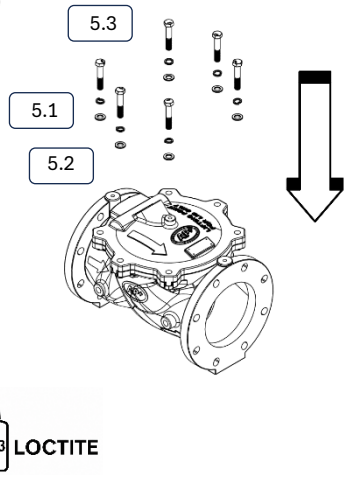

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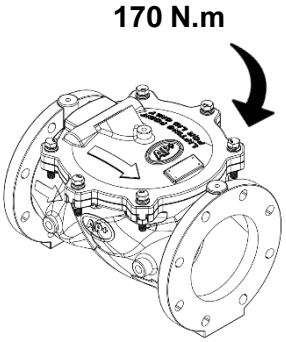

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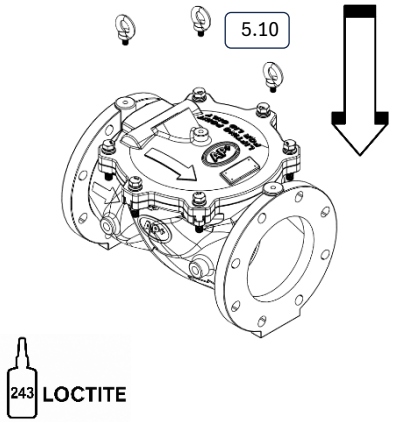

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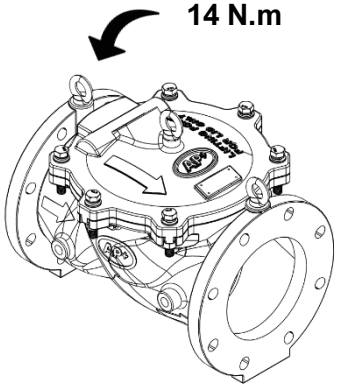

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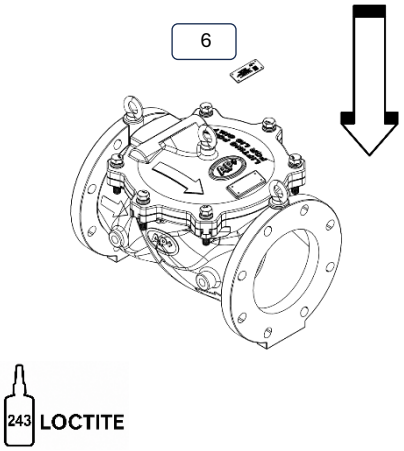

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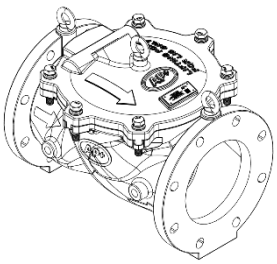

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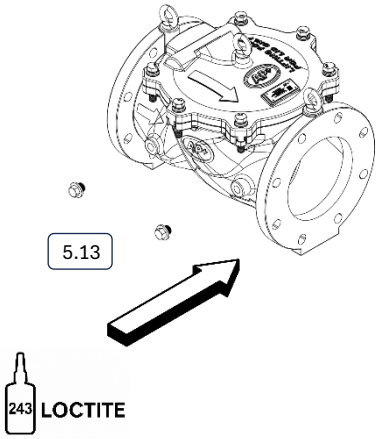

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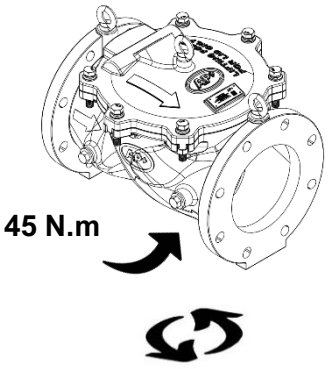

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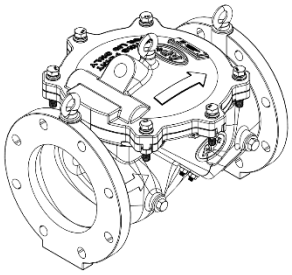
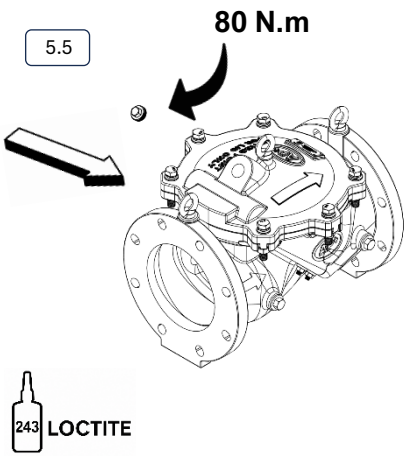
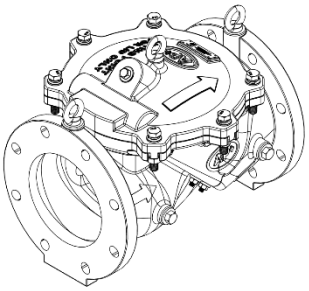
37 	38 	39 

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Disclaimer & Additional Information

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