Assembly Guide

AP+ NRV TRS-D
150mm (6”)

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

Revision 2

Release Date: 22 07 2026

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

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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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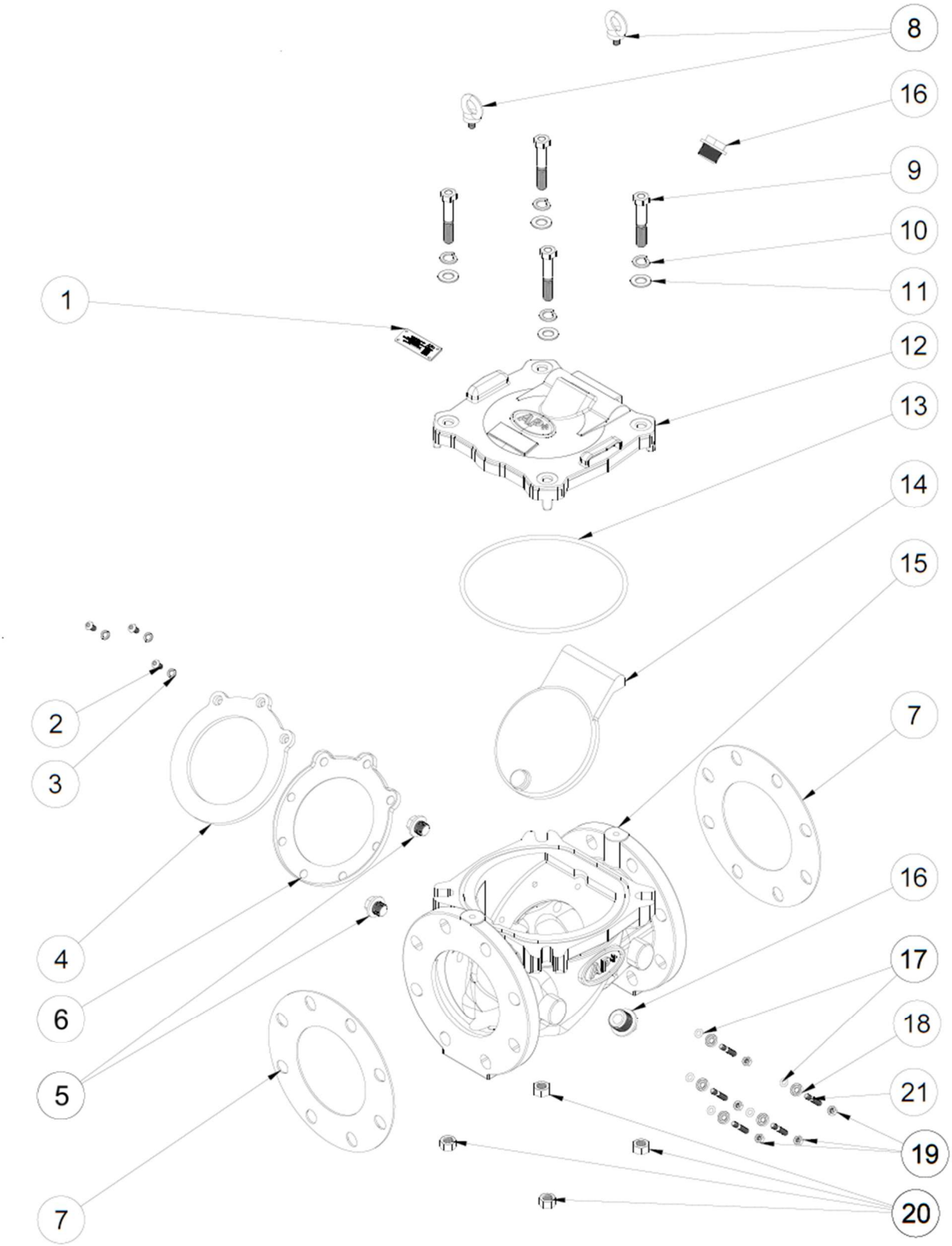
Exploded View



AP+

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Parts List

Item	Qty	Part Number
1	1	NON RETURN VALVE DATAPLATE 150MM / 6"
2	3	M8 X 1.25 X 16 BUTTON HEAD BOLT A4-80 316 S/S
3	3	M8 SPRING WASHER A4-80 316 S/S
4	1	NON RETURN VALVE SEAT 150MM / 6"
5	2	HEX HEAD PLUG 1/2 BSPT - 14 TPI "
6	1	NON RETURN VALVE SEAT GASKET 150MM / 6"
7	2	NON RETURN VALVE GASKET FOR INLET/OUTLET FLANGES 150MM / 6"
8	2	M10 LIFTING EYE WWL 250KG ZINC PLATED
9	4	M16 X 2.0 X 85 HEX BOLT G8.8 ZINC PLATED
10	4	M16 SPRING WASHER G8.8 ZINC PLATED
11	4	M16 FLAT WASHER G8.8 ZINC PLATED
12	1	NON RETURN VALVE COVER 150MM / 6 "
13	1	O RING VITON
14	1	NON RETURN VALVE RUBBER DISC 150MM / 6 "
15	1	NON RETURN VALVE BODY 150MM / 6 "
16	2	PLUG 1 BSPT - 11 TPI HEX HEAD"
17	5	O RING VITON
18	5	M8 O-RING SEALING WASHER
19	5	M8 X 1.5 NUT A4-80 316 S/S
20	4	M16 X 2.0 NUT G8.8 ZINC PLATED
21	5	M8 X 1.25 X 35 STUD A4-80 316 S/S

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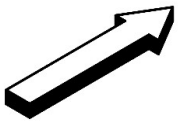
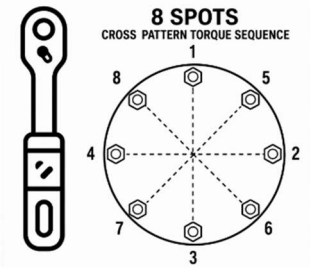
Assembly Symbol Legend

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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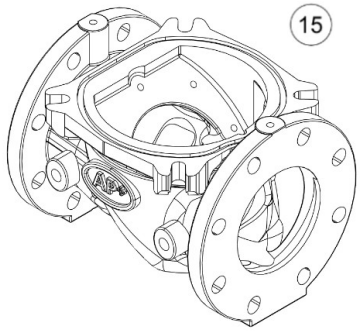
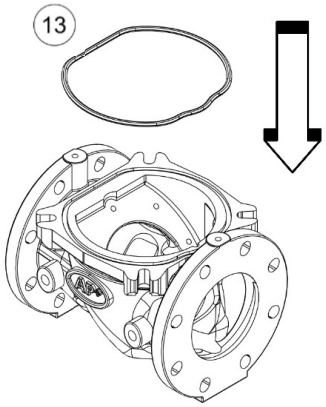
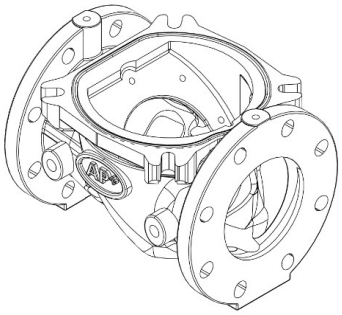
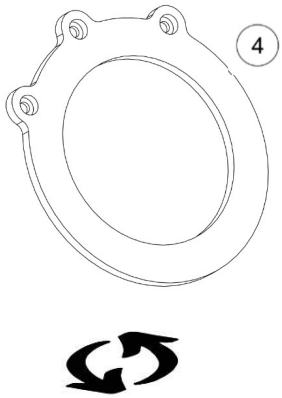
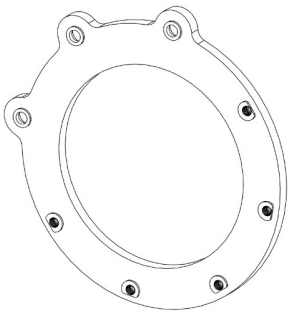
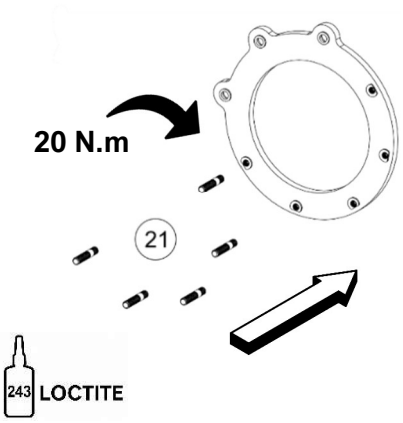
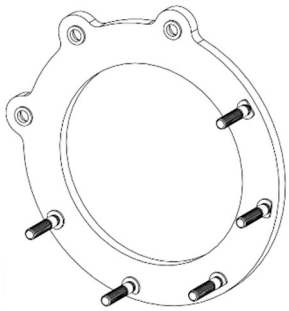
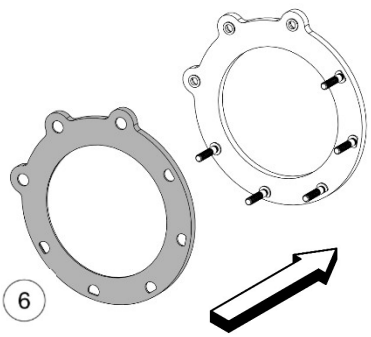
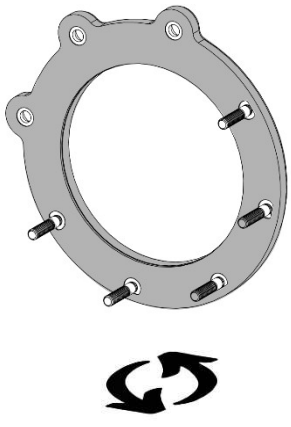
Assembly Guide

1 	2 	3 
4 	5 	6 
7 	8 	9 

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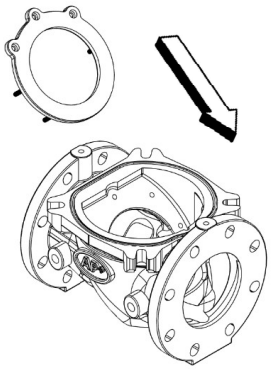

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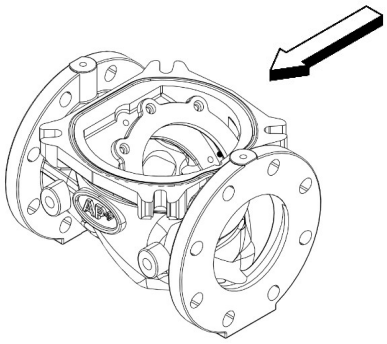

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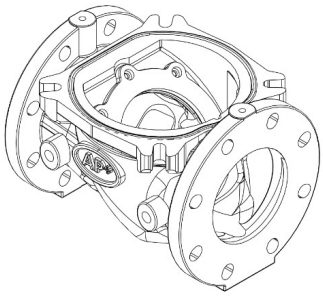

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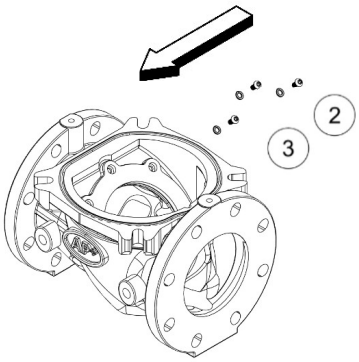

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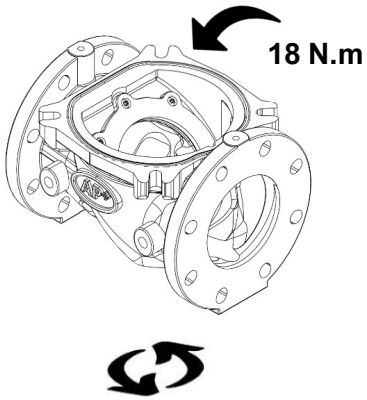

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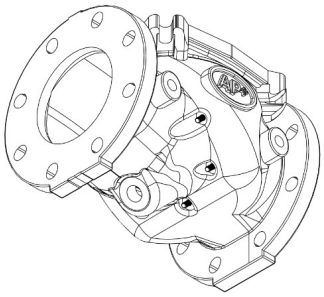

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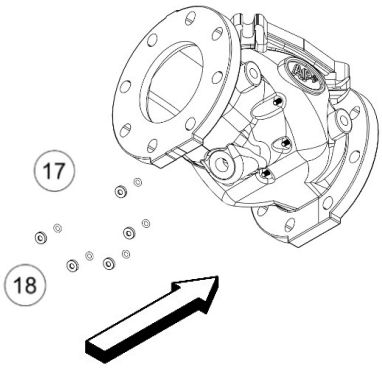

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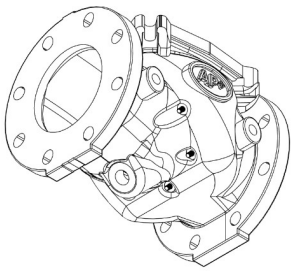

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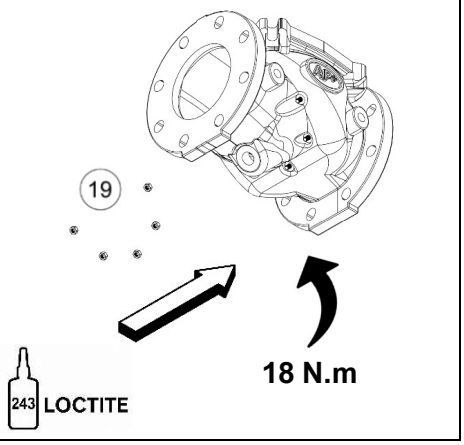

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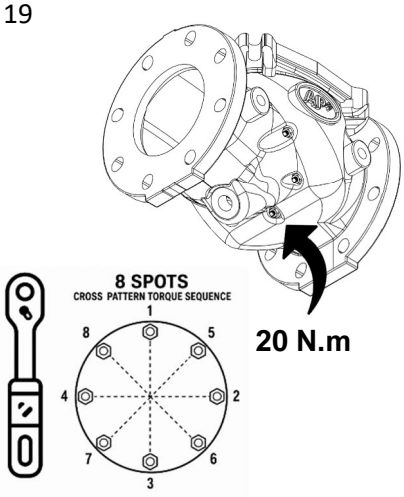

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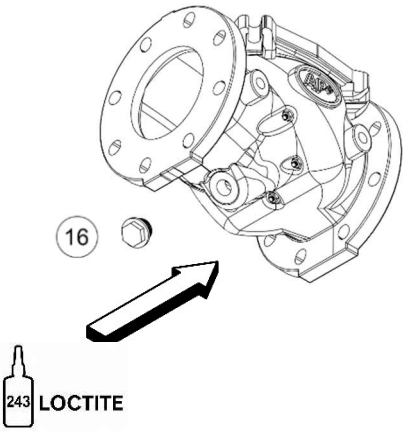

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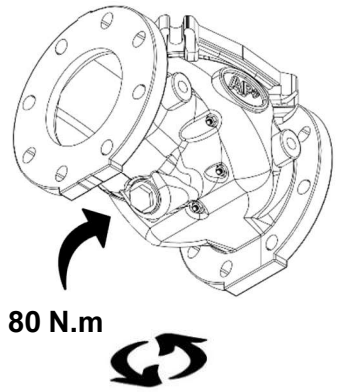

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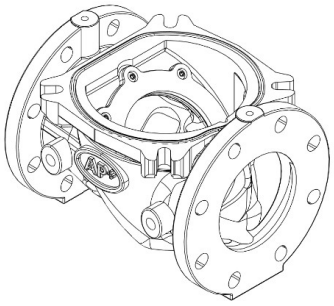

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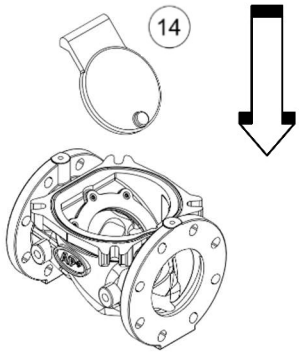

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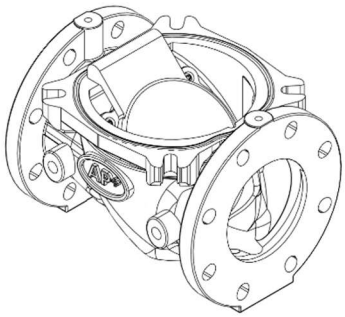

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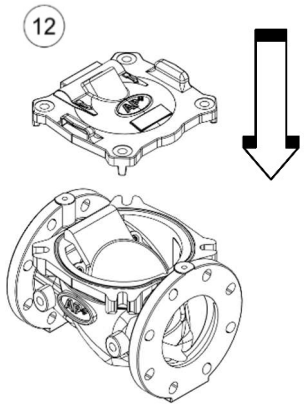

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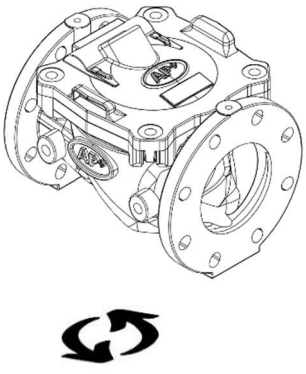

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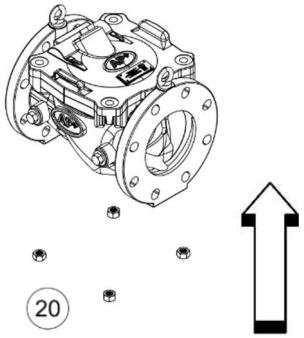

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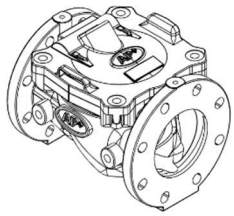
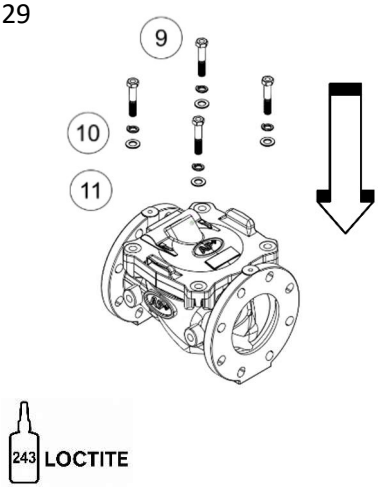
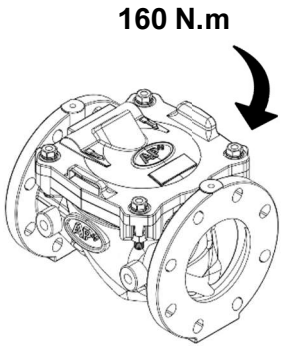
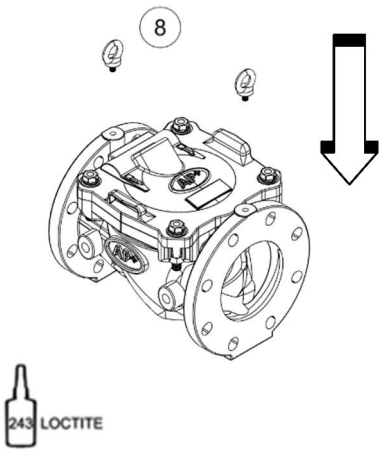
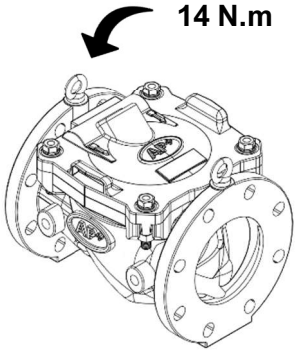
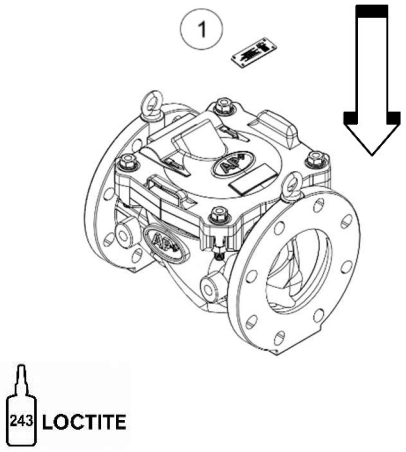
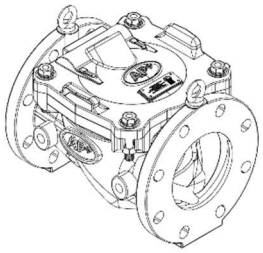
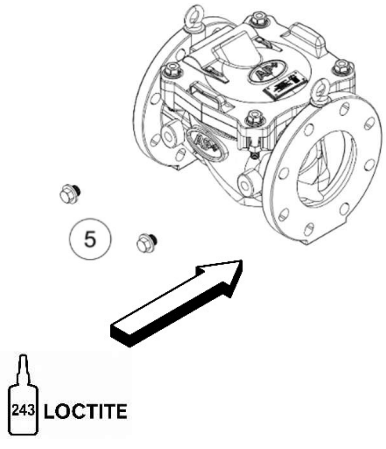
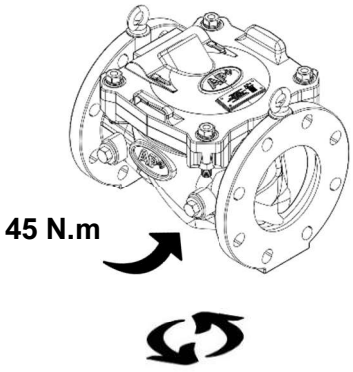
28 	29 	30 
31 	32 	34 
34 	35 	35 

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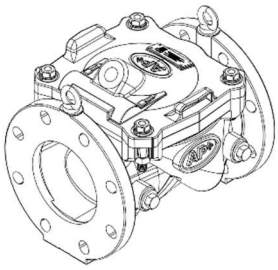
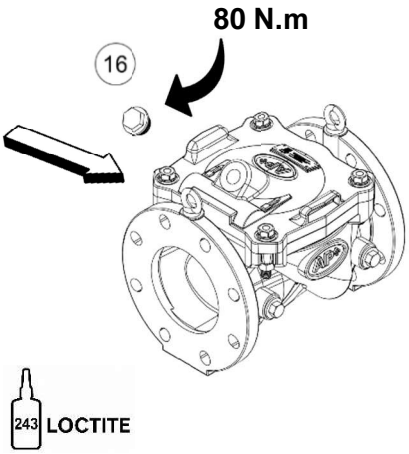
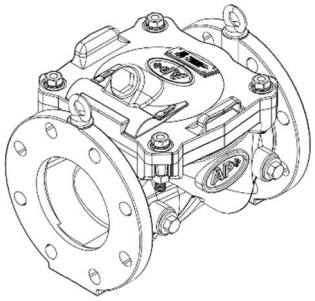
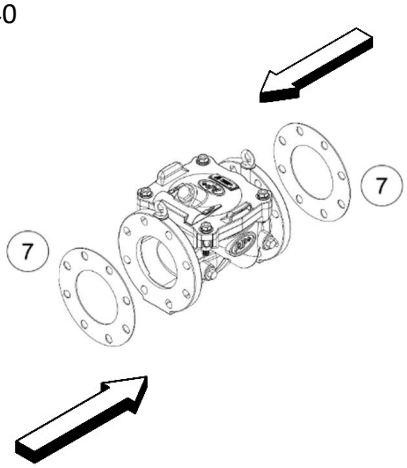
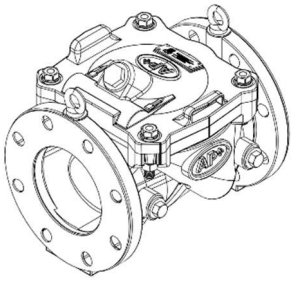
37 	38 	39 
40 	41 	42

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Disclaimer & Additional Information

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