

INSTALLATION INSTRUCTIONS

Upgrade of

Meggitt/Avery Hardoll Hydrant Valves

PVMY2010

To

PVMY2010M3 Standard

June 2009.

INSTALLATION INSTRUCTIONS

FOR

Upgrade of

Meggitt/Avery Hardoll Hydrant Valves

P/N PVMY2010

To

PVMY2010M3 Standard

Prepared By: 
J. Wong, Director of Engineering, Fueling Products

Reviewed By: 
Jerry Pham, Engineering Specialist

Approved By: 
J. Wong, Director of Engineering, Fueling Products

Approved By: 
Lucia Clozza, Quality Engineer

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REVISION PAGE

REV LTR	PAGES AFFECTED	DESCRIPTION OF CHANGE	DATE	APPROVED BY
N/C	ALL	INITIAL RELEASE		
A	6	430090 WAS 2681242-2	2009-3-30	JW
B	3 5	Para. 2.1.3: ...2,2,6 was 2.2.7 Para. 2.1.4: PVSZ152 was Z022E263139A Fig 1: PVSZ152 was PVSC152	2009-6-5	JW
C	3 & 4	REVISED PARA. 2.1.2 AND 2.2.7	2009-6-10	JW

1.0 OBJECTIVES

This Installation Manual #7069 is to provide detail instruction for field upgrade of Meggitt/Avery Hardoll hydrant valves P/N PVMY2010 to the PVMY2010M3 standard in compliance to the API/EI 1584, 3rd Edition requirements.

2.0 UPGRADE PROCEDURE

Figure 1 depicts all old components that are to be removed from the PVMY2010 hydrant valve to start the upgrade process. Paragraph 2.1 details the disassembly procedure.

Figure 2 depicts all new components to be installed onto the existing lower hydrant valve half to facilitate upgrade to the PVMY2010M3 standard. Paragraph 2.2 details the re-assembly procedure.

2.1 DISASSEMBLY PROCEDURE

The upgrade to the Meggitt/Avery Hardoll hydrant valves P/N PVMY2010 can be performed with the valve installed in the hydrant pit. No hydrant valve removal from the hydrant pit is necessary.

- 2.1.1 For a pneumatic operated hydrant valve, check to make sure the pilot valve is vented of all trapped pressurized air. For manually operated hydrant valve, ensure the manual pilot is placed in closed position.
- 2.1.2 Place the isolation valve in the lower hydrant valve half in opened position and insert the locking clip P/N PVSZ132 under the pilot push button.
- 2.1.3 Unscrew the 8 socket head cap screws P/N ZS4025M12025A.

Note that unscrewing of these 8 screws will release the upper half adapter of the hydrant valve from the lower half. These two valve halves are under spring load at assembled condition. Use caution while the last screw is untorqued.

Also, separation of the hydrant valve upper and lower halves will allow release of trapped fuel in the valve. Spillage of less than 1 liter of fuel is expected.

Remove but do not discard these 8 screws, they will be reused in the assembly process per paragraph 2.2.6.

- 2.1.4 Remove upper half API Adapter P/N PVSZ152.

2.1.5 Remove the upper half poppet valve assembly as a whole.

The upper half poppet valve assembly includes the following parts

P/N	CCRZ7168	Valve Seal	qty. 1
	ZS4025D0608L	Screw	6
	PVSZ257	Valve Stem	1
	Z032E111103A	O-ring	1
	CCSZ7206	Pip Valve	1
	RVSZ3451	Compression Spring	1
	ZS4016D0408L	Screw	3
	CCAZ7148	Valve Head	1
	CCAZ7185	Seal Retaining Plate	1

2.1.6 Remove the Compression Spring P/N CCSZ528.

2.1.7 Remove and discard O-ring P/N Z022E263139A.

2.2 RE-ASSEMBLY PROCEDURE

Use Meggitt upgrade kit P/N 80317 to facilitate upgrade of the hydrant valve to Meggitt P/N PVMY2010M3 standard. All components included in this upgrade kit are shown in Figure 3 of this manual.

2.2.1 Install the new O-ring P/N Z022E263139A from the upgrade kit to the seal gland in the lower half of the hydrant valve.

2.2.2 Assemble the Inner Chamber P/N 430081 onto the pip valve guide of the lower half.

2.2.3 Place the Poppet Spring P/N 2681220 into the Inner Chamber.

2.2.4 Place the Poppet Assembly P/N 430090 onto the Poppet Spring.

2.2.5 Place the API Adapter P/N 231477 over the Poppet Assembly. Compress the Poppet Spring until the API Adapter engages the hydrant valve lower half.

2.2.6 Use the 8 socket head cap screws P/N ZS4025M12025 to secure the API Adapter against the hydrant valve lower half. Torque the socket head screws at 400 in-lbs.

2.2.7 Remove the Locking Clip P/N PVSZ132 from the pilot bush button.

Upgrade of the Meggitt/Avery Hardoll hydrant valves P/N PVMY2010 to the PVMY2010M3 standard in compliance to the API/EI 1584, 3rd Edition is complete.

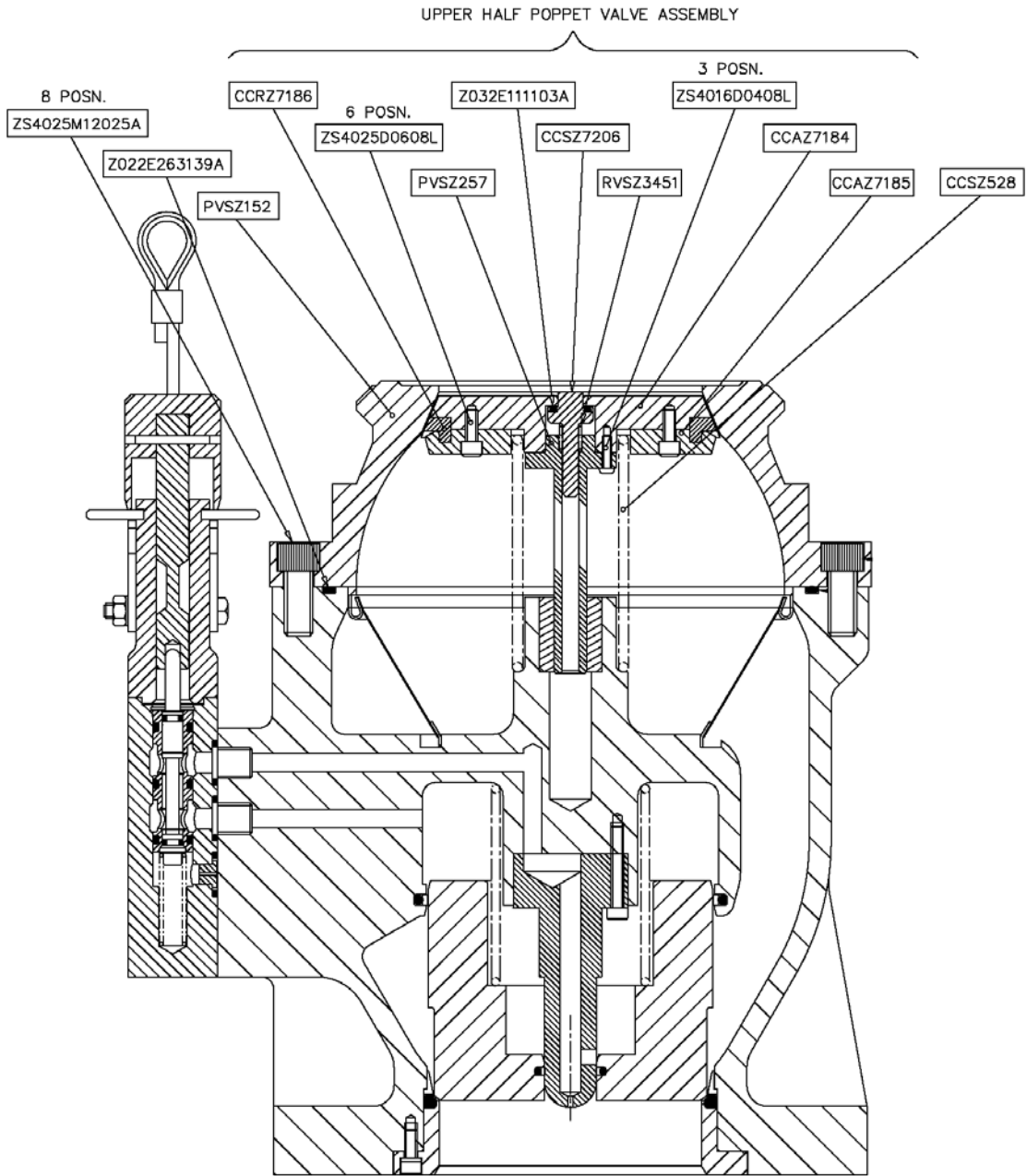


Figure 1: Parts to be replaced from PVMY2010

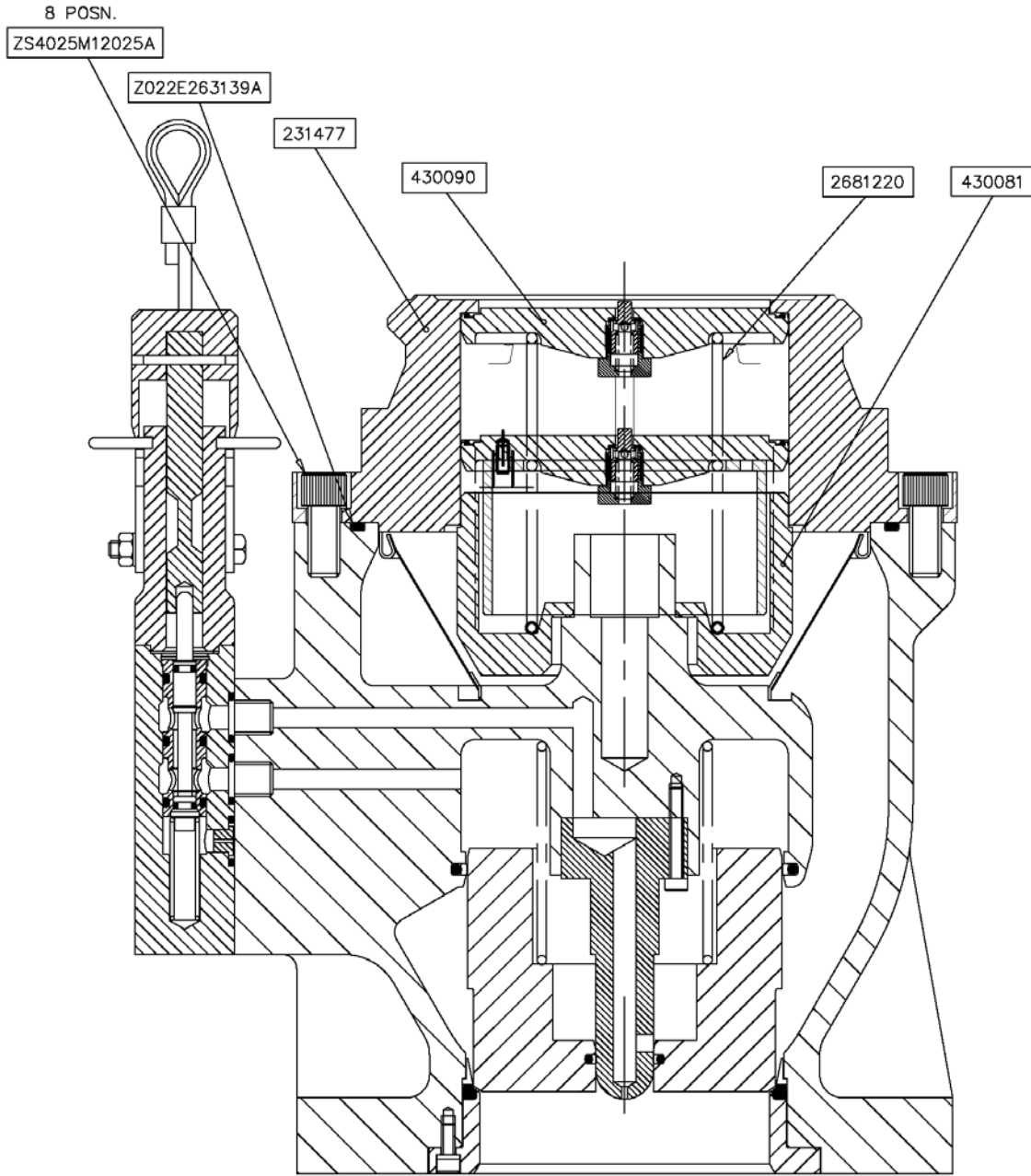


Figure 2: Parts added to upgrade PVMY2010 to PVMY2010M3 standard

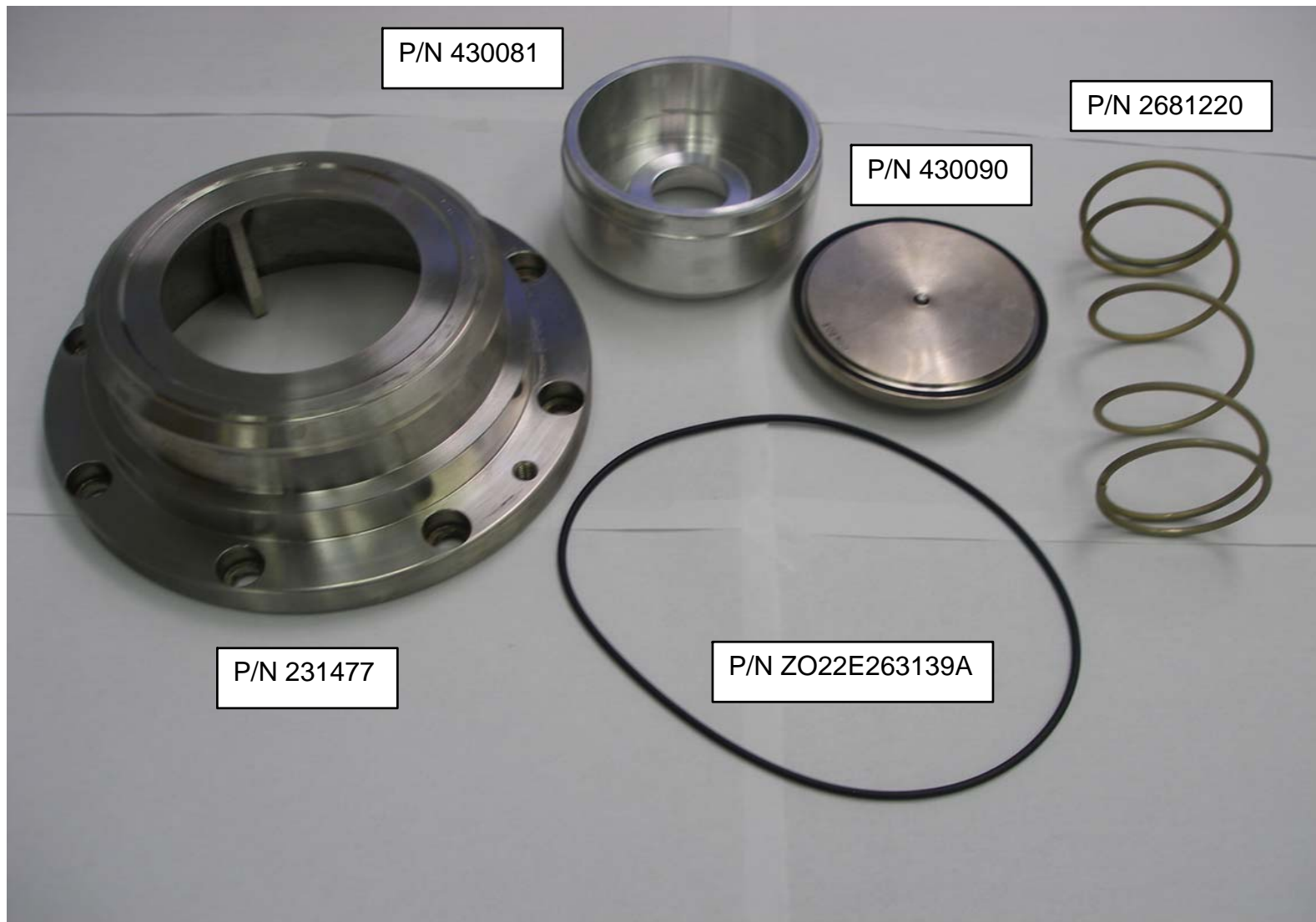


Figure 3: Upgrade Kit P/N 80317 for PVMY2010 to PVMY2010M3 standard