12.5 Electrical System Spare Parts List and Exploded Parts Diagram

Key No*	Description	Model 200	Model 260	Model 400
1	Ignition Control Kit	R0456900	R0456900	R0456900
2	Transformer Kit	R0456301	R0456301	R0456301
3	User Interface Kit	R0591901	R0591901	R0591901
4	User Interface Lid Kit	R0592000	R0592000	R0592000
5	Wiring Harness Kit	R0592100	R0592100	R0592100
6	Air Pressure Switch Kit	R0456400	R0456400	R0456400
7	Flue Temp Sensor§	R0719400	R0719400	R0719400
7a	Fusible Link†	R0524300	R0524300	R0524300
8	Water Pressure Switch Kit	R0013203	R0013203	R0013203
9	Power Interface Board (PIB)§	R0719500	R0719500	R0719500
	Power Interface Board (PIB)‡	R0458200	R0458200	R0458200
10	Power Distribution Board (PDB)	R0458100	R0458100	R0458100
11	Temperature Sensor Kit	R0456500	R0456500	R0456500
12	High Limit Temperature Sensors Kit	R0592300	R0592300	R0592300
13	Igniter Kit	R0457502	R0457502	R0457502
14	Power Interface Harness	R0457701	R0457701	R0457701

† Fusible Link to replace factory installed fusible link on heaters with serial number revision G or earlier.

‡ PIB to replace factory installed PIB on heaters with serial number revision G or earlier.

Upgraded components R0719400 and R0719500 must both be installed for heater to operate properly.

§ Flue Temp Sensor and PIB must be replaced together in Rev G and earlier heaters. Both parts are required in order to install the VersaFlo™ Bypass accessory PN: JXIVFKIT.

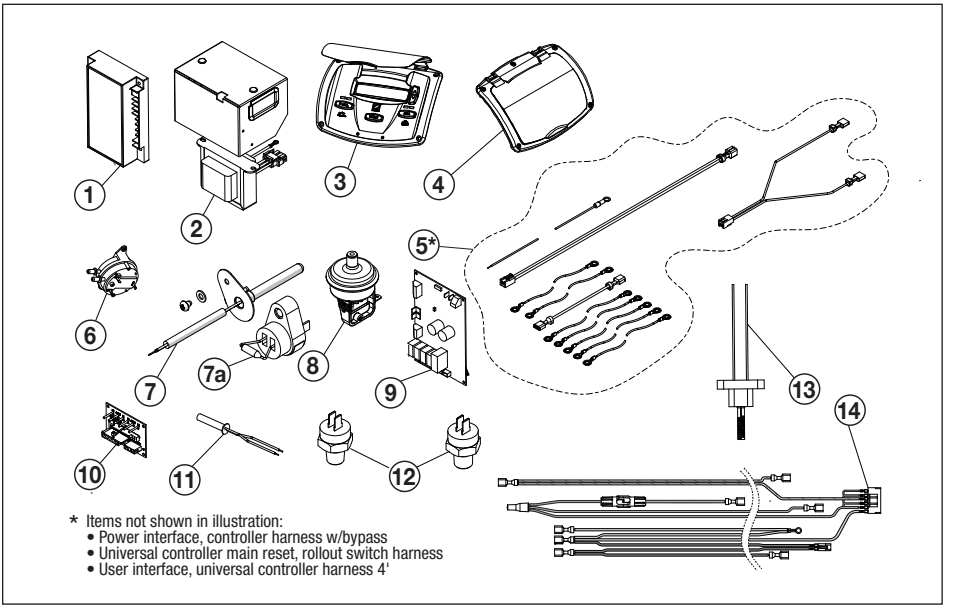


Figure 33. Electrical System Components

Section 13. Appendix A. ASME Header

Please use the information below for the following ASME heater Models, JXi400NC, JXi400NS, JXi400PC, JXi400PS, JXi260NC, JXi260NS, JXi260PC and JXi260PS. The corresponding sections from the manual are cross referenced with page numbers at the beginning of each section.

13.1 Dimensions

(From Section 1.6, Dimensions)

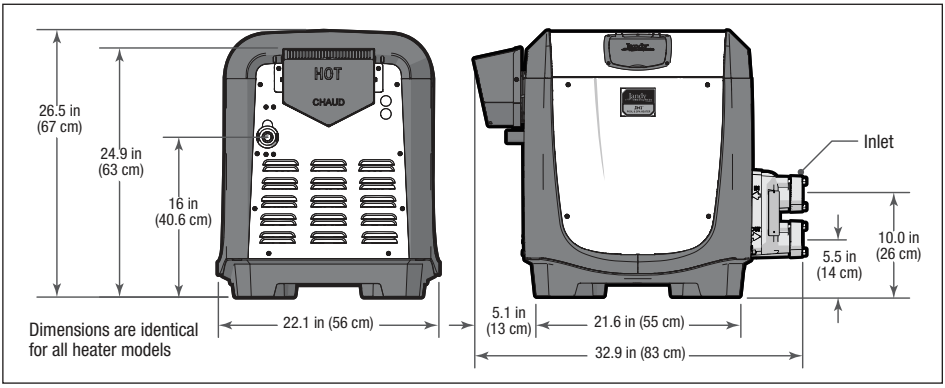


Figure 34. General Dimensions

13.2 Package Contents

(From Section 2.1, Package Contents)

Before completely unpacking the unit please inspect carton for damage. In addition, please check the carton label to ensure that you have the correct fuel type and BTU rating for your application.

Included with this heater is a 75 psi pressure relief valve that can be used as an option. Instructions for the pressure relief valve installation are shown in *Section 5.5.1, Install Pressure Relief Valve Kit R0336101*.



Figure 35. Carton Label BTU, Fuel Type, and Serial Number

Item	Description	Qty.
1	JXi Heater	1
2	Connector Flange	2
3	2" Sleeve	2
4	2" Gasket	2
5	Flange Bolt	4
6	Flange Washer	4
7	75 psi Pressure Relief Valve Kit	1

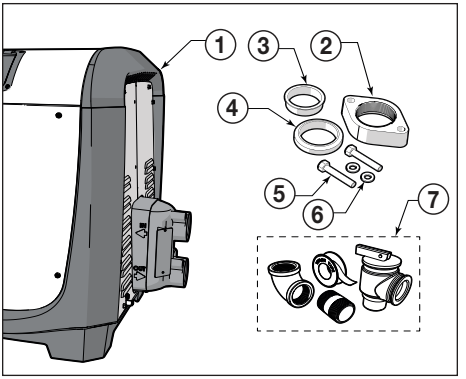


Figure 36. Pressure Relief Valve Components

13.3 Pump Sizing

(from Section 5.1, Pump Sizing)

All JXi heaters utilize an internal bypass mechanism and thermal regulator valve (TRV) to accommodate flow rates delivered to the heater from a minimum of 30 gallons per minute (gpm) to a maximum flow of 100 gpm.

⚠ CAUTION

The system water pump must be capable of providing no less than 30 gpm of flow through the heater. Flow rates at less than 30 gpm may cause nuisance operation causing damage to the heater or causing the heater to turn off.

Model	Min gpm (lpm)	Max gpm (lpm)
JXi 260	30 (114)	100 (379)
JXi 400	30 (114)	100 (379)

Table 9. Recommended Flow Rate Adjustment

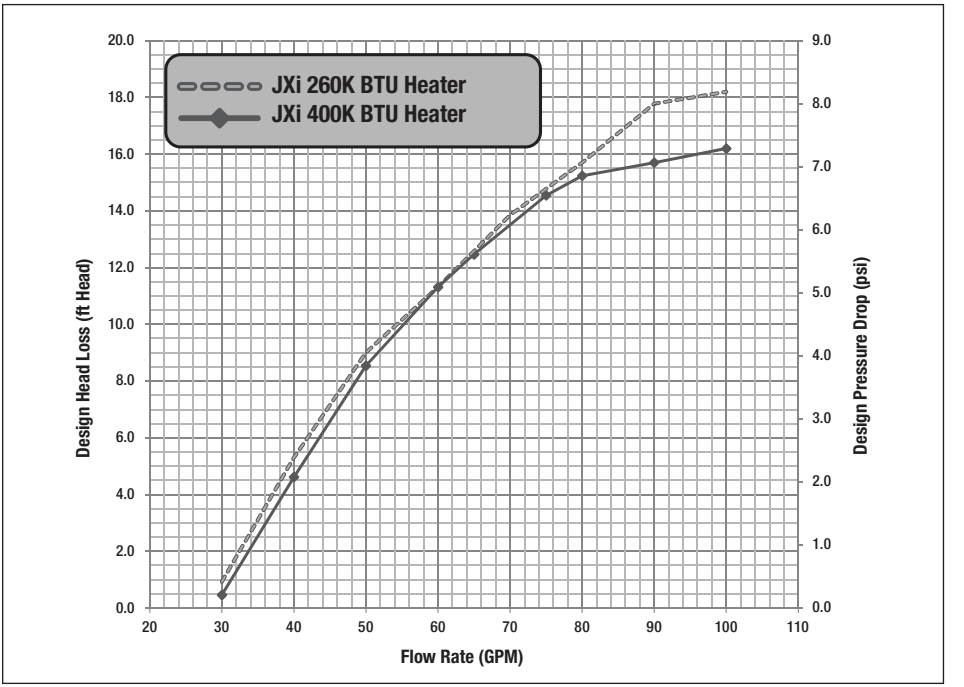


Figure 37. Head Loss Chart

13.3.1 Water Inlet Piping

(from Section 5.2.2, Water Inlet Plumbing)

Check flow rates as outlined in *Section 5.1, Pump Sizing* and if necessary make provisions for and ensure sufficient space for the installation of a manual bypass valve as outlined in *Section 5.1.1, Manual Bypass Valve*.

The side inlet is positioned at a 10 1/8 in (255.7 cm) center height providing an ideal height for replacement unit or new construction plumbing.

- Turn off all power to the heater at the breaker.
- Turn off main gas supply to heater.
- Make sure the pump is off and will remain off for the duration of the procedure.
- Do a dry fit test of cut pipe lengths in order to ensure proper alignment.
- Pass the 2" Sleeve through the 2" gasket.
- Seat the gasket and sleeve into the connector flange.
- Secure the connector flange to the header using the flange bolts and washers. Make sure that the gasket is properly seated at the header.
- Install 2" threaded pipe into the connector flange.
- Repeat the above steps for the manifold outlet. Again paying special care to ensure proper seating of the gasket.

NOTE: When connecting CPVC pipe to the metal receptacle Zodiac Pool Systems LLC recommends LA-CO® PLASTO-JOINT STIK® joint Compound.

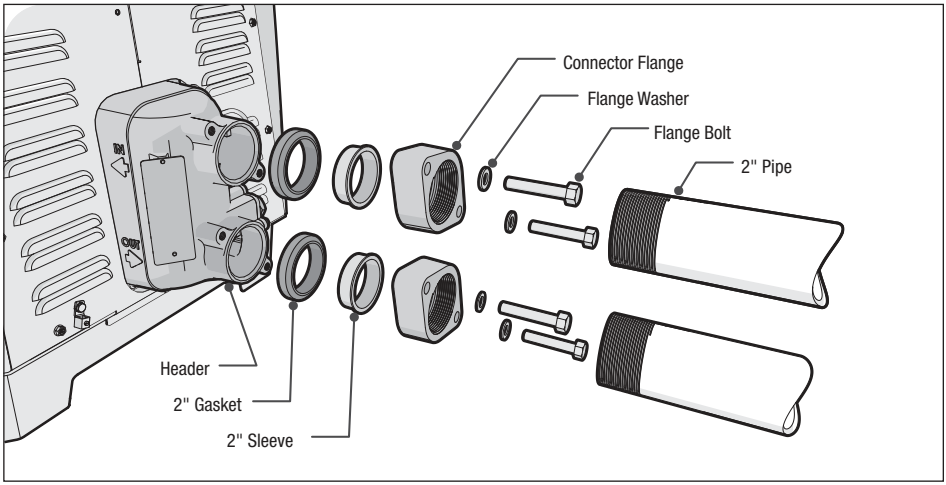


Figure 38. 2" Threaded Inlet Pipe

- Return all valves to their operating positions.
- Restore power to the heater at the breaker.
- Turn on pump and inspect carefully for leaks.
- Restore main gas supply.
- Start the system and check for proper flow.
- Return heater to normal operation.

⚠ WARNING



To avoid an electrical shock hazard, which can result in serious injury or death, ensure that all electrical power to the system is turned off before approaching, inspecting or troubleshooting any leaking valves or plumbing that may have caused other electrical devices in the surrounding area to get wet.

⚠ WARNING



Follow all filter manufacturer's instructions. Never attempt to assemble, disassemble or adjust the filter when there is pressurized air in the system. Starting the pump while there is any pressurized air in the system can cause the filter lid to be blown off, which can cause death, serious personal injury or property damage.

13.3.2 Install Pressure Relief Valve Kit #R0336102

Please double check that you have all necessary parts to complete the installation. If any parts are missing or damaged please call 1.800.822.7933 for assistance.

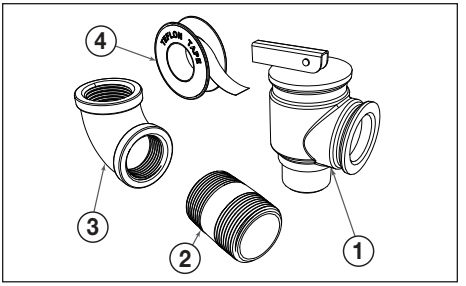


Figure 39. Pressure Relief Valve Kit Components

Item	Description	Bronze Header
1	Pressure Relief Valve 3/4" X 3/4" 75 PSI	X
2	Brass Nipple 3/4"	X
3	Elbow 90° 3/4" NPT Brass	X
4	Teflon Tape	X

Prior to installing or replacing this pressure relieve valve (PRV), ensure the following steps have been completed.

- Turn off the electrical power to the heater.
- Turn off the main gas supply to the heater.
- If the heater has been operating, ensure you allow enough time for remaining water in the heat exchanger to cool down before beginning. It is recommended that protective gloves be worn during the entire procedure.
- Make sure the filter pump is off and will remain off for the duration of the installation procedure.
- If the heater is below the surface level of the water in the pool or spa, close all shut-off valves between the heater and the pool.

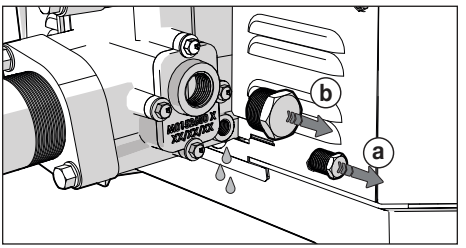


Figure 40. Remove Drain Plug

a. Remove drain plug from header and allow all water to drain from heat exchanger.

b. Remove the port plug on Thermal Regulating Valve access plate.

c. Each male connection should be first wrapped in 5-6 turns of Teflon™ tape.

d. Assemble the 3/4" threaded nipple and elbow. Make sure to get a sung fit. Do not overtighten.

e. Install the nipple and elbow assembly at the access plate port.

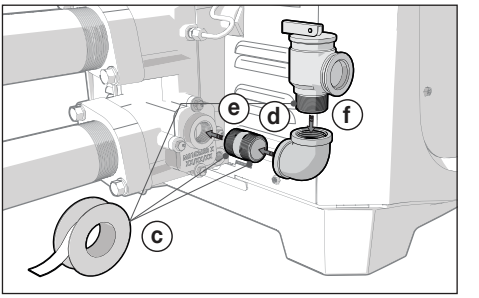


Figure 41. Install the Elbow

f. Install the pressure relief valve. Make sure to get a sung fit. Do not overtighten.

The final orientation of the pressure relief valve should be vertically aligned with the discharge opening facing away from the heater header.

g. Install a discharge pipe from the pressure relief valve discharge opening to a safe area. This is a precaution to prevent the possibility of personal injury or property damage in the event scalding water is discharged from the pressure relief valve.

h. Install the discharge pipe so that there is no trapped or standing water in the piping. Discharge piping must be facing down, terminating with a threadless nipple, no more than 6 in (152 mm) and no less than twice the diameter of the discharge pipe from the floor or drain/receptor.

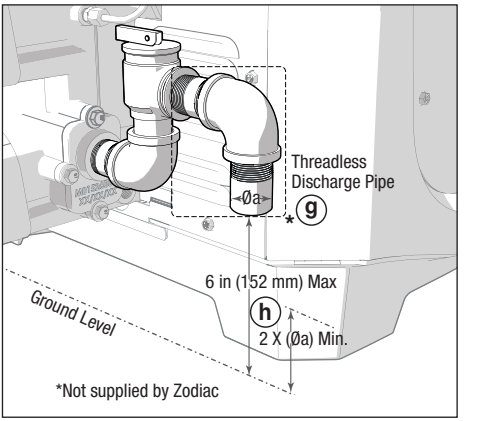


Figure 42. Install the Discharge Pipe

To ensure the continued proper operation of the pressure relief valve, the valve should be tested once a year. To test, lift the lever with the circulation system running to ensure that water will pass through. When the lever is down, there should be no leaks from the outlet.

13.4 Cabinet Assembly Spare Parts List and Exploded Parts Diagram

(From Section 12.2, Cabinet Assembly Spare Parts List and Exploded Parts Diagram)

Key No	Description	Model 260	Model 400
1	Heater Jacket Top Kit (no User Interface)	R0592400	R0592400
2	Corner Post Kit, Left/Right (set of 2)	R0592500	R0592500
3	Heater Base Kit	R0592600	R0592600
4	Front or Back Panel Kit	R0592700	R0592700
5*	Side Panel Kit	R0821000	R0821000
6	Vent Terminal Housing Kit	R0593100	R0593100
7	Jacket Hardware Kit	R0593300	R0593300
8	Anchor Brackets Kit (set of 4)	R0593400	R0593400
9	Jacket Hole Plug Kit	R0591800	R0591800
10**	Complete Replacement Box Packaging Kit	R0593600	R0593600

*Includes: Exhaust side panel, top panel closure, anti rotation bracket and access door.
Header side panel LH, Header side panel RH.
**Not Shown in Exploded View

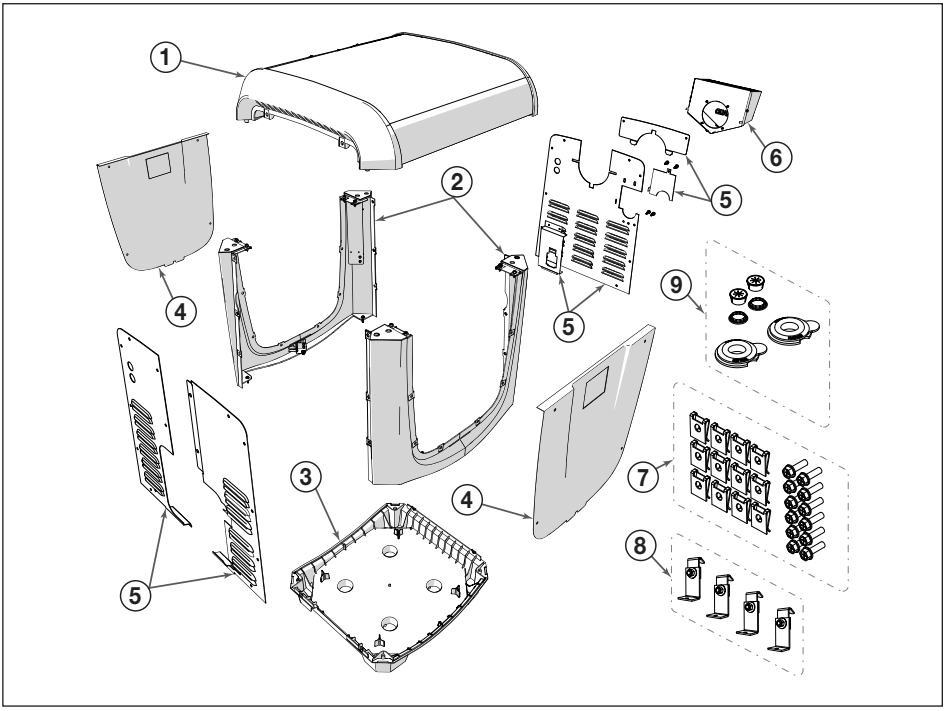


Figure 43. ASME Cabinet Assembly Components

13.4.1 Combustion Chamber Assembly

(From Section 12.3.1, Combustion Chamber Assembly)

Key No	Description	Model 260	Model 400
1	Exhaust Elbow Assembly Kit	R0590200	R0590200
2	Band Clamp Kit	R0590400	R0590400
3	Refractory Kit, Internal	R0590500	R0590500
4	Combustion Chamber Shelf (set of 2: Models 200, 260)	R0590700	N/A
5	Combustion Chamber Lid Kit	R0590800	R0590800
6	Gasket Kit	R0590900	R0590900
7	Sight Glass Kit	R0305400	R0305400
8	Igniter Kit	R0457502	R0457502
9	Insulation Kit, External	R0591000	R0591000
10	Isolator Kit (Thermal)	R0593200	R0593200
11	Combustion Chamber Assembly (Includes Header)	R0810203	R0810205
11a	Combustion Chamber Assembly, ASME CuNi versions (Includes Header)	R0961000	R0961001
12	Heat Exchanger Kit	R0828700	R0828701
12a	Heat Exchanger Kit, ASME CuNi versions	R0961100	R0961101

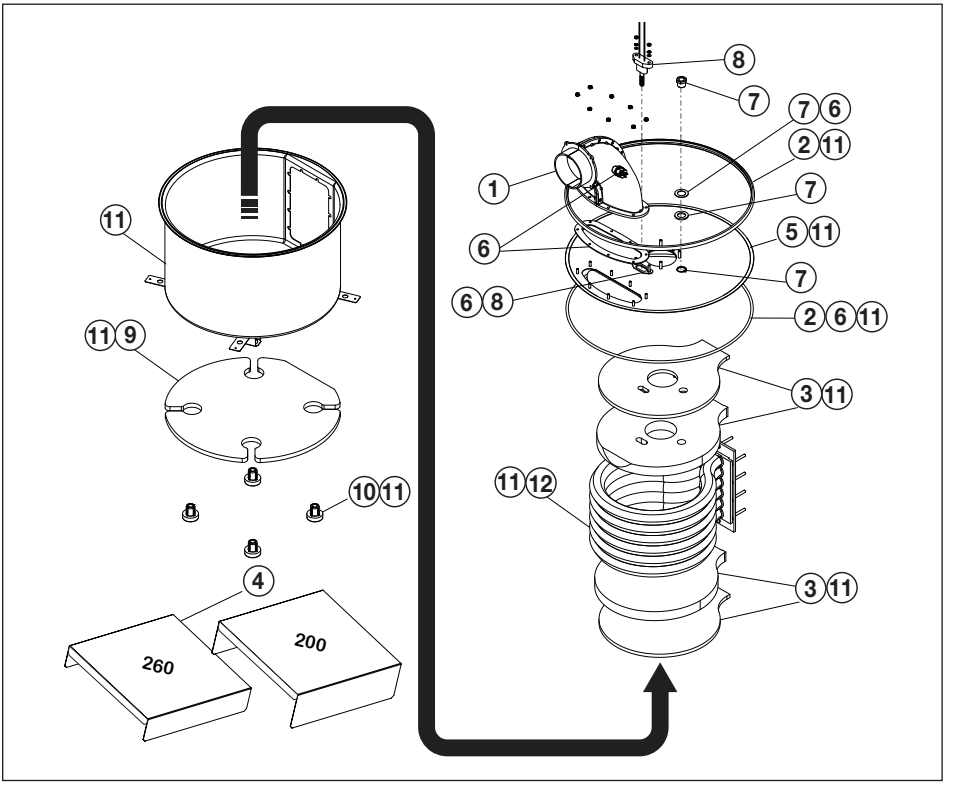


Figure 44. ASME Combustion Chamber Components

13.5 Water System Spare Parts List and Exploded Parts Diagram

(From Section 12.4, Water System Spare Parts List and Exploded Parts Diagram)

Key No	Description	Model 260	Model 400
1	Thermal Regulator Valve Access Plate Kit	R0820400	R0820400
2	Thermal Regulator Valve Kit (TRV)	R0589700	R0589700
3	Thermal Regulator Valve Retainer Kit	R0820500	R0820500
4	Bypass Kit	R0589800	R0589800
5	Drain Plug Kit	R0820600	R0820600
6	Gasket and Seals Kit	R0820700	R0820700
7	Header Backplate Kit	R0828403	R0828405
8	Header, 2 Port (no backplate included;must order separately)	R0820800	R0820800
9	Water Pressure Switch Kit	R0828501	R0828501
10	Pressure Relief Valve (PRV) Install Kit	R0336102	R0336102
11	Flow Plate Assembly	R0828602	R0828603
12	Connector Flange Kit	R0461500	R0461500
13	Connector Flange Hardware	R0477800	R0477800
14*	Goody Bag Kit (Goody Bag Kit Includes the Installation and Operation Manual and the Universal Controller Quick Guide)	R0820900	R0820900
*Not Shown in Exploded View			

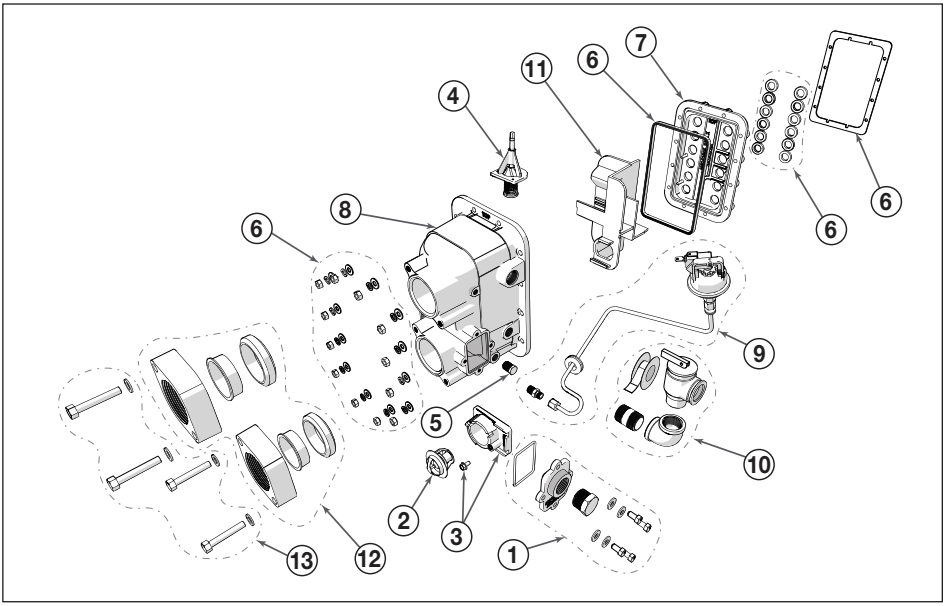


Figure 45. ASME Water System Components

NOTES

NOTES

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