Honeywell

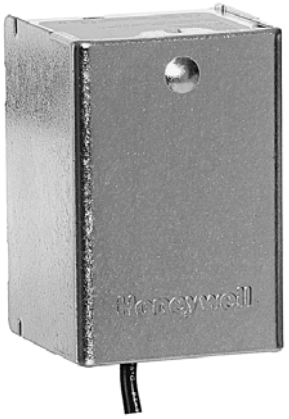
40003916 Replacement Powerhead

INSTALLATION INSTRUCTIONS

APPLICATION

The 40003916 replacement heads are for field replacement of heads in Honeywell diverting and straight through motorised valves. They can be used to replace the valve heads removable without draining the system and also valves which require draining the system. A head which does not require the system to be drained is identified by a small round bump on the cover and the “6” or higher suffix number after the OS number. Also only two screws and two locating pegs are used to connect the heads to the body.

For older style heads which require the system to be drained, an adaptor kit 40003918-006 must be used with the 40003916 head.



SPECIFICATIONS

Voltage: 230V ~ 50Hz

Power Consumption: 6W (0.04)

Lead Supplied: 1 metre

Operating Temperature Range: +5 to +88° C

Maximum Ambient Temperature: +52° C

*Replacement head 40003916-001 has 6 core flying lead. When used with V4043H1056/V4043H1007 series valves, the white wire must be electrically isolated.

Zone Valve	Replacement Head Number	Adaptor Kit Number
V4043H1007	40003916-001*	40003918-006
V4043H1056	40003916-001*	40003918-006
V4043H1080	40003916-001	40003918-006
V4043H1106	40003916-001	40003918-006
V4044C1288	40003916-002	40003918-007
V4044C1098	40003916-002	40003918-007

INSTALLATION

REMOVING OLD STYLE HEAD FROM OLD STYLE BODY

⚠ CAUTION

It is not necessary to remove the valve body from the pipeline but the system must be drained of water before removing the old valve unless isolating valves have been fitted.

This product MUST be installed by a competent person. The installation MUST conform to I.E.E. Regulations and with The Electricity at Work Regulations.

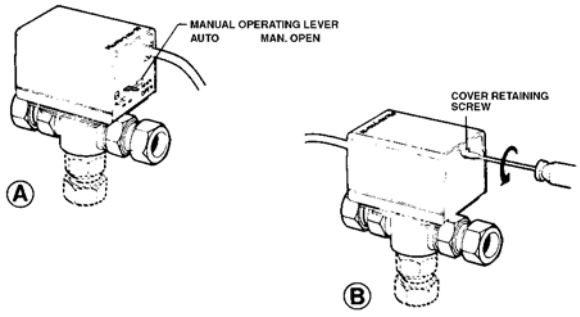


Fig. 1. Removing Cover

1. Switch power supply OFF. Disconnect electrical leads noting the position and colour of each lead.
2. Place the manual operating lever in the “MAN. OPEN” position. (See Fig. 1A.)
3. Remove cover. (See Fig. 1B.)
4. Remove the four screws that secure powerhead to the valve body and remove the powerhead and O-ring. (See Fig. 2.)

   V4043/V4044 incorporates a manual lever, the lever should normally be in “AUTO” position, but can be moved to “MAN. OPEN” position for system draindown and filling purposes only.

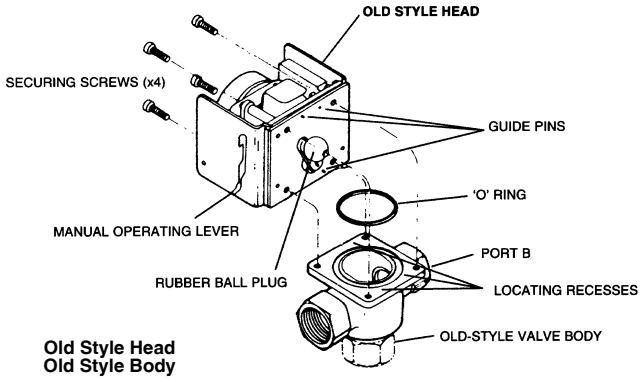


Fig. 2. Removing Powerheads

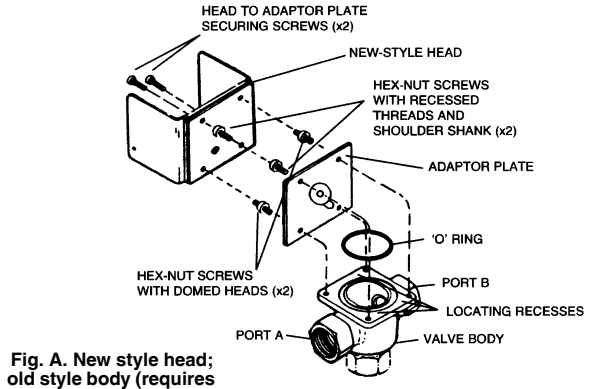


Fig. A. New style head; old style body (requires an adaptor kit)

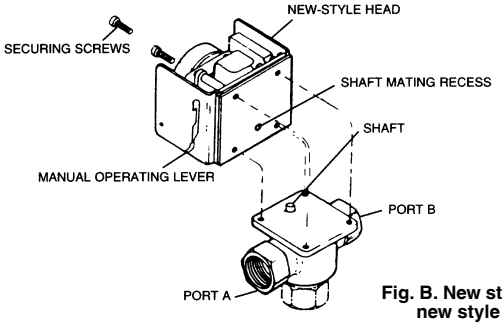


Fig. B. New style head; new style body

Fig. 3. Installing Replacement Heads

INSTALLING REPLACEMENT HEAD ON OLD STYLE VALVE BODY (*REQUIRES THE ADAPTOR KIT*)

1. Insert the new O-ring (supplied with the Adaptor Kit) into the circular slot on top of the valve body. (See Fig. 3A.)
2. Place the adaptor on the valve body and secure it with the four hex-nut screws provided - ensuring that the three guide pins engage in their mating recesses.
3. Place the manual operating lever of the replacement head in the “MAN. OPEN” position and fit the head onto the valve body assembly - ensuring that the shaft seats correctly.
4. Secure the head to the valve body adaptor assembly with the two screws provided.
5. Reconnect the wiring as shown in Fig. 4.

REMOVING NEW STYLE HEAD FROM NEW STYLE VALVE BODY (*OR OLD STYLE VALVE BODY WITH ADAPTOR*)

NOTE: It is not necessary to drain the system if the new style valve body or old style valve body with adaptor remain in the pipeline.

1. Switch power supplies OFF. Disconnect electrical leads, carefully noting the position and colour of each lead.
2. Place the manual operating lever in the “MAN. OPEN” position. (See Fig. 1A.)
3. Remove cover. (See Fig. 1B.) Remove the two screws that secure the head to the valve body assembly (Fig. 3A) or to the valve body adaptor assembly. (Fig. 3B.)

INSTALLING NEW STYLE HEAD ON NEW STYLE VALVE BODY ASSEMBLY (*OR OLD STYLE BODY WITH ADAPTOR ATTACHED*)

1. Place manual operating lever on the replacement head in the “MAN. OPEN” position and fit the head onto the valve body, ensuring that the shaft seats correctly. (See Fig. 3B.)
2. Secure the head to the valve body with the two screws provided.
3. Rewire as shown in Fig. 4.

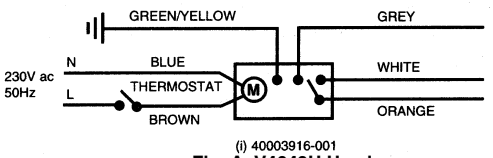


Fig. A. V4043H Head replacement.

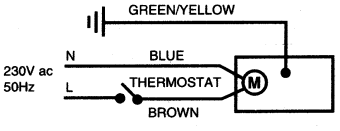


Fig. B. V4044 Head replacement.

When replacing the heads of V4043H1056 and V4043H1056-6 zone valves with replacement head 40003916-001, isolate and make the white wire safe.

Fig. 4. Wiring Diagram

OPERATION

When there is a call for heat from the room thermostat or other controller, the motor drives the valve open allowing water to flow through the valve.

When fully open position is reached, the motor stalls and keeps the valve open. This situation exists until the controller stops “calling for heat”, at which point a spring connected to the gear train drives the valve to the closed position.

CHECKOUT

Inspect the head installation and the valve body assembly to ensure that all connections have been correctly made. Set the room temperature (or other controller) so that the valve in energised, then change the control setting so that it is de-energised. Observe that the motorised valve runs smoothly from closed to open to closed again.

Whilst Honeywell takes all practicable steps to design and manufacture its products to comply with the requirements of the Heath and Safety at Work Act 1974, all products must be properly used and Purchasers are reminded that their obligations under the Act are to ensure that the installation and operation of such products at a place of work should be safe and without risk to them.

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The wiring diagrams and installation instructions in this publication are provided for guidance purposes when installing recognised standard systems only. Any application of this product not shown here, or any deviation from these instructions, is neither recommended nor advised. Any such application or deviation should be referred to Honeywell for technical assistance.

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