



Pressure Independent Control Valves

VPE Series

INSTALLATION INSTRUCTIONS

PREREQUISITE

- Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
- Check ratings given in instructions and on the product to ensure the product is suitable for your application.
- The installer must be a trained, experienced service technician.
- After installation is complete, check out product operation as provided in these instructions.

PRODUCT INTERFACE

See, Figure 1 to familiarize yourself with the valve and its components. The Valve body (A) is the housing marked with an arrow (B) to show flow direction. The Flow Insert (C) which is pre-installed in valve body, regulates flow. Pressure ports (D) facilitates user to gauge pressure across ends.

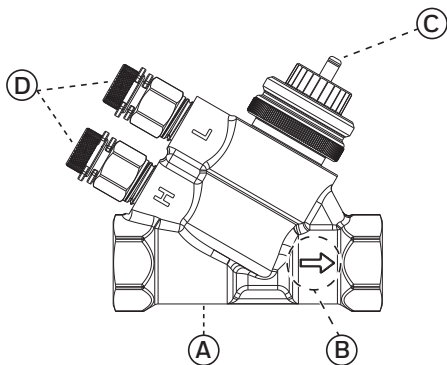
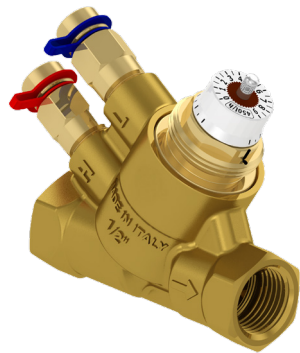


Figure 1. Valve components



TECHNICAL DATA

Parameter	Description
Medium Temperature	-10 to +120 deg. C
Maximum Working Pressure	25 bar / 2500 kPa
Maximum Close Off Pressure	6 bar / 600 kPa
Minimum PN Rating	PN25
Flow Accuracy	Up to 1 bar: $\pm 5\%$
	Above 1 bar: $\pm 10\%$

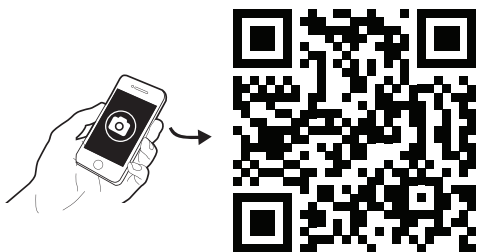
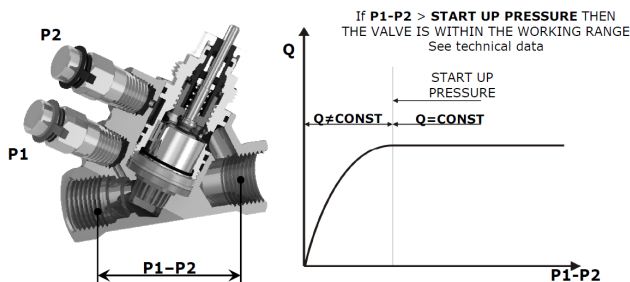
DECLARATION OF REACH CONFORMITY

Article 33 Communication

REGULATION (EC) NO 1907/2006 [REACH]

According to Article of Reach Regulation be informed that these products may contain lead any brass used in valve housings, headnuts, p/t plugs, etc.

PRESSURE READING FOR VERIFICATIONS



**WARNING**

The manufacturer does not accept any liability for improper or wrong use of this product. Always protect the pressure regulator by using strainers upstream of the valve and, in any case, make sure water quality complies with UNI 8065 standards. The manufacturer suggests to follow recommendations of VDI 2035/1 too. (Fe < 0.5 mg/kg and Cu < 0.1 mg/Kg).

Furthermore, maximum iron oxide in the water passing through control valve (PICV) should not exceed 25 mg/Kg (25 ppm). To ensure the main pipework is cleaned appropriately, flushing by-passes should be used without flushing through the pressure regulator of the PICV thereby preventing debris that might clog the valve.

TECHNICAL DATA

SKU	Pressure Ports	Minimum flow rate	Maximum flow rate	Differential Pressure range (Min - Max)	Valve End connection
VPE15F15AV	Yes	19 lph	150 lph	25 kPa - 600 kPa	Internal Threads 15mm (Rp 1/2" F) (EN 10226-1)
VPE15F15AL	Yes	42 lph	450 lph	35 kPa - 600 kPa	Internal Threads 15mm (Rp 1/2" F) (EN 10226-1)
VPE15F15AH	Yes	157 lph	850 lph	30 kPa - 600 kPa	Internal Threads 15mm (Rp 1/2" F) (EN 10226-1)
VPE20F20AL	Yes	169 lph	1000 lph	30 kPa - 600 kPa	Internal Threads 20mm (Rp 3/4" F) (EN 10226-1)
VPE20F20AH	Yes	276 lph	1850 lph	35 kPa - 600 kPa	Internal Threads 20mm (Rp 3/4" F) (EN 10226-1)
VPE25F25AL	Yes	339 lph	2500 lph	30 kPa - 600 kPa	Internal Threads 25mm (Rp 1" Union F) (EN 10226-1)
VPE15M15BV	No	19 lph	150 lph	25 kPa - 600 kPa	External Threads 15mm (G 1/2" M) (ISO 228-1)
VPE15M15BL	No	42 lph	450 lph	35 kPa - 600 kPa	External Threads 15mm (G 1/2" M) (ISO 228-1)
VPE20M20BV	No	157 lph	850 lph	30 kPa - 600 kPa	External Threads 20mm (G 3/4" M) (ISO 228-1)
VPE20M25BH	No	276 lph	1850 lph	35 kPa - 600 kPa	External Threads 25mm (G 1" M) (ISO 228-1)
VPE25M25BL	No	339 lph	2500 lph	30 kPa - 600 kPa	External Threads 25mm (G 1" M) (ISO 228-1)

FLOW RATES

Pre-setting Positions	VPE15F15AV VPE15M15BV		VPE15F15AL VPE15M15BL		VPE15F15AH VPE20M20BV		VPE20F20AL		VPE20F20AH VPE20M25BH		VPE25F25AL VPE25M25BL	
	Flow rate		Flow rate		Flow rate		Flow rate		Flow rate		Flow rate	
	l/h	l/s	l/h	l/s	l/h	l/s	l/h	l/s	l/h	l/s	l/h	l/s
9	150	0,043	450	0,125	850	0,236	1000	0,277	1850	0,514	2500	0,694
8	133,2	0,037	387	0,108	774	0,215	911	0,253	1734	0,484	2202	0,612
7	114	0,032	328,8	0,091	689	0,191	804	0,223	1548	0,430	1875	0,521
6	99,6	0,028	261	0,073	606	0,168	722	0,201	1320	0,367	1577	0,438
5	85,2	0,024	207	0,058	496	0,138	573	0,159	1080	0,300	1304	0,362
4	70,8	0,020	165	0,046	393	0,109	451	0,125	846	0,235	1048	0,291
3	55,2	0,015	121,2	0,034	331	0,092	376	0,104	624	0,173	798	0,222
2	39,6	0,011	81,6	0,023	265	0,074	291	0,081	492	0,137	560	0,155
1	19,2	0,005	42	0,012	157	0,044	169	0,047	276	0,077	339	0,094
0	0	0	0	0	0	0	0	0	0	0	0	0

ACTUATORS** COMPATIBILITY

Actuator SKU *		M400 SERIES	M800 SERIES	M7410A1001	M7410C1007 M6410C2023 M6410C4029 M6410L2023 M6410L4029	M7410E5001	M7410E1002 M7410E2026 M7410E4022	M4100E1510 M4100K1515
Adapter SKU		VPE0A7010**	VPE0A748X**	VPE0A7010**	VPE0A748X**	VPE0A7010**	VPE0A748X**	VPEVA64***
Valve SKUs	VPE15F15AV	✓	✗	✓	✗	✓	✗	✓
	VPE15F15AL	✓	✗	✓	✗	✓	✗	✓
	VPE15F15AH	✓	✗	✓	✗	✓	✗	✓
	VPE20F20AL	✓	✗	✓	✗	✓	✗	✓
	VPE20F20AH	✓	✗	✓	✗	✓	✗	✓
	VPE25F25AL	✗	✓	✗	✓	✗	✓	✗
	VPE15M15BV	✓	✗	✓	✗	✓	✗	✓
	VPE15M15BL	✓	✗	✓	✗	✓	✗	✓
	VPE20M20BV	✓	✗	✓	✗	✓	✗	✓
	VPE20M25BH	✓	✗	✓	✗	✓	✗	✓
	VPE25M25BL	✗	✓	✗	✓	✗	✓	✗

* To be ordered separately. Honeywell is not responsible or liable for any damage caused to the VPE series Pressure Independent Control Valves by use of any non-recommended actuators.

** Adapter VPE0A7010 and VPE0A748X will be in the unit pack of all compatible valves.

*** To be ordered separately.

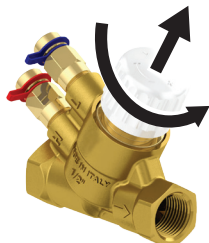
INSTALLATION

BEFORE INSTALLATION

The valve has to be mounted with the arrow in the direction of the flow.

MANUAL FLOW PRE-SETTING

1. Remove the handwheel or the actuator.



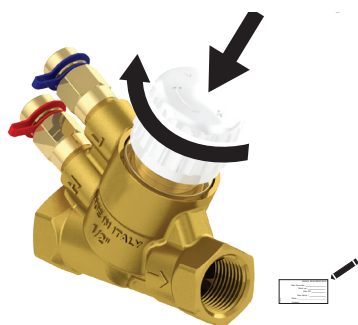
2. On the top of the valve there's a black mark which indicates the current position of the presetting. Default setting: **pos. -9-**.



3. Turn the Flow selector to the target position to set flow rate. Example: New selected flow rate is **pos. -6-**



4. Mark the setting value on the provided label (in the box) and attach it to the valve. Replace the handwheel or the actuator.

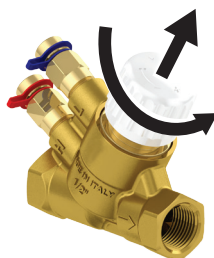


INSTALLATION OF M4100 SERIES THERMOELECTRIC ACTUATORS



IMPORTANT: Do not connect power to the actuator unless the actuator is already fitted on the valve.

1. Remove the handwheel.



2. Mount the adaptor ring (ordered separately) on top of the valve and finger tighten.



3. Push down the actuator on the adapter ring. A click noise will indicate that the actuator is correctly fitted as shown below.



INSTALLATION OF OTHER ACTUATORS



IMPORTANT: Do not connect power to the actuator unless the actuator is already fitted on the valve.

1. Remove the handwheel.



2. Mount the adaptor ring (included in the actuator package) on top of the valve and finger tighten.

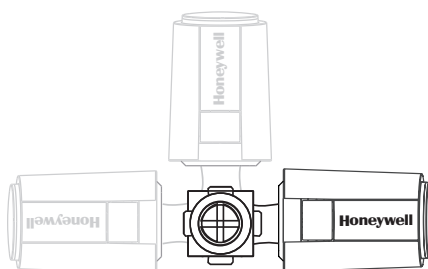


3. Screw the actuator on the adapter ring.



PERMISSIBLE MOUNTING POSITION OF ACTUATORS

Honeywell recommends to avoid the Upside down mounting position.



MAINTENANCE

PROCEDURE TO REMOVE THE FLOW INSERT

1. Completely remove the handwheel or installed actuator and it's adapter ring.



2. Using a 21mm spanner unscrew the Flow Insert.



3. Remove the Flow Insert.



PROCEDURE TO CLEAN THE FLOW INSERT



WARNING

During valve cleaning operations, use a damp cloth. Do not use any detergent or chemical product that may seriously damage or compromise the proper functioning and the reliability of the valve.

1. Push down the control valve stem and pull the diaphragm out.



2. Clean the diaphragm with water and a cloth. Do not use chemical products.



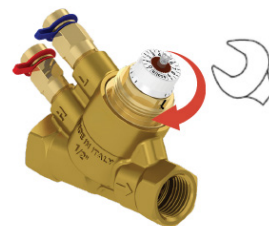
3. Put back the diaphragm in the Flow Insert. Push it in it's seat.



4. Replace the Flow Insert.



5. Screw the Flow Insert with 20 Nm torque using a 21mm spanner.



6. Replace the actuator with its adapter or the handwheel.



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