INSTALLATION AND OPERATION INSTRUCTION

FlowCon A

FlowCon AB

FlowCon ABV

1/2"-1", 15-25mm

1/2"-1 1/4", 15-32mm

1/2"-1 1/2", 15-40mm

Install the **FlowCon A / AB / ABV** as called for in the design drawings. Although the performance of the valve is not affected either way, industry standards call for balancing devices to be installed on the downstream side of the terminal unit. Especially for the ABV with its isolation ball valve, it is recommended to ensure the isolation valve is downstream of the balancing device. INSTALL THE VALVE HOUSING WITH THE FLOW DIRECTIO-NAL ARROW POINTING IN THE COR-RECT DIRECTION.

The **FlowCon A** valve (Model Nos. A15.X and A20.X) is available with fixed femaleby-female threaded connections, i.e. figure 1.



The thread standard for the A model is either ISO 228, which is a straight metric thread (compatible with BS-2779) or NPT threading standard, depending on the product number ordered.

For all threaded connections please clear threads on both valve and piping of debris. Sealant such as pipe dope or teflon tape is recommended. WHEN USING HEMP AS PIPE SEALANT, ENSURE NO STRANDS ARE LEFT IN THE VALVE OR PIPING.



Denmark Dubai

ai USA

Brasil

Singapore

AB15.X, AB20.X, AB25.X and AB32.X) is similarly available with fixed female-byfemale threaded connections, i.e. figure 2.

The FlowCon AB valve (Model Nos.



The thread standard for the AB model is equal to what is available for the A model.

For all threaded connections please clear threads on both valve and piping of debris. Sealant such as pipe dope or teflon tape is recommended. WHEN USING HEMP AS PIPE SEALANT, ENSURE NO STRANDS ARE LEFT IN THE VALVE OR PIPING.

Pressure/temperature fittings (p/t plugs) are available upon request for the AB valve. Before finger mounting the p/t plugs in the body tappings, pls. seal the threads of the p/t plugs (DO NOT OVER TIGHTEN).

Alternatively to p/t plugs, the valve body can be ordered with **plugs** for the body tappings. Each plug is sealed by a gasket. The **FlowCon ABV** valve (Model Nos. ABV1 and ABV2) is available with double union end connections, i.e. figure 3.



Two types of end connections are available for use with the union nut:

Threaded (male or female):

The thread standard is ISO 228, which is a straight metric thread (compatible with BS-2779) or NPT threading standard, depending on the end connections ordered. The threads on both the connection and piping should be cleaned carefully. As these models are union end connected, the union nuts and the end connections should be removed for installation.

O-rings are supplied with the valve body and used to seal the connections. It is recommended to grease the o-rings with silicone grease before installation. **IMPORTANT:** Never use mineral oil or petrol based grease or oil on the o-rings. Pls. make sure these are in place in the o-ring grooves in the inlet and outlet of the valve body, when installing the housing and REMEMBER TO TIGHTEN THE UNION NUTS TO ENSURE SEALING.

For all threaded connections pls. clear threads on both valve and piping of debris. Sealant such as pipe dope or teflon tape is recommended. WHEN USING HEMP AS PIPE SEALANT, ENSURE NO STRANDS ARE LEFT IN THE VALVE OR PIPING.

HOWCON *international* 1B95000NPT

Denmark Dubai

USA Brasil

Singapore

Soldered end (sweat):

REMOVE THE END CONNECTIONS FROM THE HOUSING BEFORE SOLDE-RING. THIS ENSURES THAT THE O-RINGS AND INTERNAL PARTS ARE NOT DAMAGED BY HEAT.

Pressure/temperature fittings (p/t plugs) are available upon request for the ABV valve. Before finger mounting the p/t plugs in the body tappings, pls. seal the threads of the p/t plugs (DO NOT OVER TIGHTEN).

Alternative to p/t plugs the valve body can be ordered with **plugs** for the body tappings. Each plug is sealed by a gasket.

Choice of cartridge:

Valve bodies in this serie, i.e. A, AB or ABV can be installed with either a standard composite cartridge, internally adjustable to one of eight flow rates or the FlowCon E-JUST cartridge, externally adjustable to one of 41 different flow rates in the same cartridge.

It is recommended that the o-rings located around the cartridge are lubricated with silicone grease, before the cartridge is installed into the valve body. **IMPORTANT:** Never use mineral oil or petrol based grease or oil on the o-rings.

General.

It is recommended flushing the system before installing the cartridge in the valve body. Suitable flushing caps are available. Water must always be suitable treated, clean and free of debris. It is recommended that a strainer be installed prior to the valve body to prevent damage or blockage due to debris. Further, it is recommended not to exceed maximum differential pressure control range of the cartridge.

Assembly drawing FlowCon A:

- A: Valve housing
- B1: E-JUST cartridge
- B2: Standard composite cartridge
- C: Adjustment key.

B1 B1 B1 B1 B2 Figure 4



Denmark Dubai

USA Brasil

Warranty obligation.

Failure to abide by all recommendations as per this installation and operation instruction will void warranty.

For latest updates please see www.flowcon.com

Assembly drawing FlowCon AB:

- A: Valve housing
- B1: E-JUST cartridge
- B2: Standard composite cartridge
- C: Adjustment key
- D1: P/t plug (2 pcs.)
- D2: Plug and gasket (2 of each).



Figure 5

Assembly drawing FlowCon ABV:

- A: Valve housing
- B1: E-JUST cartridge
- B2: Standard composite cartridge
- B3: Stainless steel cartridge with adaptor
- C: Adjustment keys
- D1: P/t plug (2 pcs.)
- D2: Plug and gasket (2 of each)
- E: Union end connections.





Denmark Dubai

USA Brasil

Singapore

FlowCon International assumes no responsibility for mistakes, if any, in any printed material