

Operating Instruction

Diaphragm Valve T4 PVC-U

1. Installation instruction

1. Flange connection
 1. Slide flange on pipe
 2. Mount flange socket onto pipe (solvent)
 3. Insert Diaphragm valve with flanges into pipeline
 4. Connect flanges with proper bolts (make sure that flange gasket sits in proper location)

2. Solvent connection
 1. Connect Diaphragm valve and pipe ends with solvent

3. Solvent connection for Diaphragm valve with union
 1. Dismantle union nuts and slide them on pipe
 2. Mount sockets on pipe (solvent, screw)
 3. Insert Diaphragm valve between premounted sockets
 4. **Hand tighten** union nuts (make sure that o-rings are in proper location)

Note

In order to release the Diaphragm valve from overlapping stresses and not to apply operating forces to the pipeline it is recommended to mount pipe right next to the valve onto the wall (DN15-DN50 with mold in threaded socket and mounting plates, DN 65 – 125 with integrated mounting link).

Furthermore the Diaphragm valve and pipes should be aligning.

Solvent according to DVS-guidelines DVS 2204 Part 5 for PVC.

Pipe installation have to performed in accordance with DVS 2210 Part 1.

2. Operation

Please control in unpressurized status the body-connection-screw torque with the table below (Torque for Body – connection – screw), and if it necessary please retightening.

Torque for Body – connection - screw

Dimensions	Diaphragm EPDM oder FPM	Diaphragm PTFE
	Torque [Nm]	Torque [Nm]
DN15	3,5	6,5
DN20	3,5	6,5
DN25	5	7,5
DN32	12	15
DN40	12	15
DN50	15	20
DN65/80	20	30
DN100/125	40	45

The valves are factory tested for leakage according to DIN 3230 leak rate 1.

A pressure test to DGR 97/23/EG has to be performed before start up and documented. The test pressure will be calculated with the lowest nominal pressure by pressure testing device.

After the pressure check of the whole piping-system, you have to redraw all union nuts in unpressurized system.

3. Current use

The rated and published pressure and temperature limits have to be obeyed-see our technical catalogue or visit our website (www.praher.com).

Pressure and temperatures relate to media which PVC inert to (see chemical resistance list).

4. Service

- Do not loosen bolts or screws in a pressurized system
- The wastage of the diaphragm refer to the operating cycles and media
- Control Diaphragm constant to wastage – if necessary change them

5. Dismantling instruction

Caution: Do not dismantle pressurized system.

- a) Flange Connection
1. Drain pipeline
 2. Loosen flange bolts
 3. Take valve out of system and do not misplace gaskets
- b) Thread socket
1. Drain pipeline
 2. Loosen union nuts
 3. Take valve out of system and do not misplace gaskets

6. Caution

- Do not loosen bolts or screws in a pressurized system
- Drain system before dismantling

7. Declaration of Conformity

acc. to Annex VII of the Directive 97/23/EG

We, the

Praher Plastics Austria GmbH
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declare, that the product

PVC Diaphragm valve T4
DN32 / d40 – DN125 / d140
EPDM/FPM - PTFE

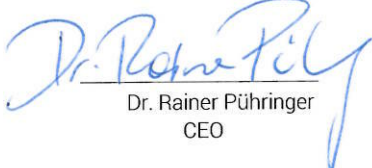
to which this declaration is referring, is in conformity with the directive 97/23/EG and has been tested according to the following procedure of conformity assessment: Category I Module A

There exists an EC declaration of conformity for pressure equipment. The Directive 97/23/EG doesn't allow a conformity for dimensions <DN32.

We make the advise that each self-contained change, through which the technical data are changed, excuses the Praher Plastics Austria GmbH from this declaration

Schwertberg, 20.02.2015:


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