6.) SUPPLYING THE TOP / LOWER LIFT-OFFS

Feeding air through coupling (rep A) makes it possible to lift the lower plug in order to wash the seal and the bottom seal-bearing surface of the body. Feeding air through coupling (rep B) allows you to lift the upper plug in order to wash the seal and the top seal-bearing surface of the body.

7.) WORKING CONDITIONS

The actuator is supplied with dry, filtered air at a pressure of 5 bar (minimum) to 8 bar (maximum). The maximum working fluid pressure is 10 bar irrespective of the direction of flow. The operator air couplings are designed for a 4/6 diameter hose fitting (6/8 on large models). The valve accepts a maximum temperature of 140 °C and a vacuum of 0.7 bar.

8.) CLEANING PROCEDURE

To provide a correct cleaning of this valve, procedures have to take into account seat lifts for each cycle. During implementation, you have to be sure that the procedures that have been established clean and rinse the valve correctly, in order to avoid bacteriological development or corrosion (from aggressive or sensitive products under the valve seats).

9.) EEC CONFORMITY

- A - Our valves comply with European regulations (EEC) within the limits of use described in paragraph B.
The CE mark on the valve indicates conformity to the following regulations :

CE

- 89/336 "Electromagnetic compatibility"
- 97/23 "Equipment under Pressure"
- 73/23 "Low pressure"

- B - Use limits :

- Usage pressure must be lower than 10 bar for all products.
- In case of dangerous gas[(1)] valve diameter (line) must be below 100 mm.
- For use outside these limits, please contact our technical service.

[(1)]dangerous gas : group 1 gas, identified by a letter on the label and on the security card of the product :
E (for detonating gas), O (for fuel), F+, F and R10 (inflammable), T+ and T (toxic).
For additional information, please see regulation 67/548/EC "Labelling of dangerous products".

10.) SPARE PARTS AND ACTUATOR DISASSEMBLY

For removed parts and assembly / disassembly, please consult the product maintenance sheet. In the event of a malfunction, please contact us.
Please contact us for these instructions or to request maintenance operations at our premises or on site.

NOTE !

N.B: The valve must be out of service prior to any intervention.
Disassembly of the parts with the pretensioned spring must be carried out in accordance with the instructions on the maintenance sheet.

DEFINOX

INSTALLATION GUIDE

VDCI MC PMO-C DOUBLE BLOCK AND BLEED VALVE

www.definox.com

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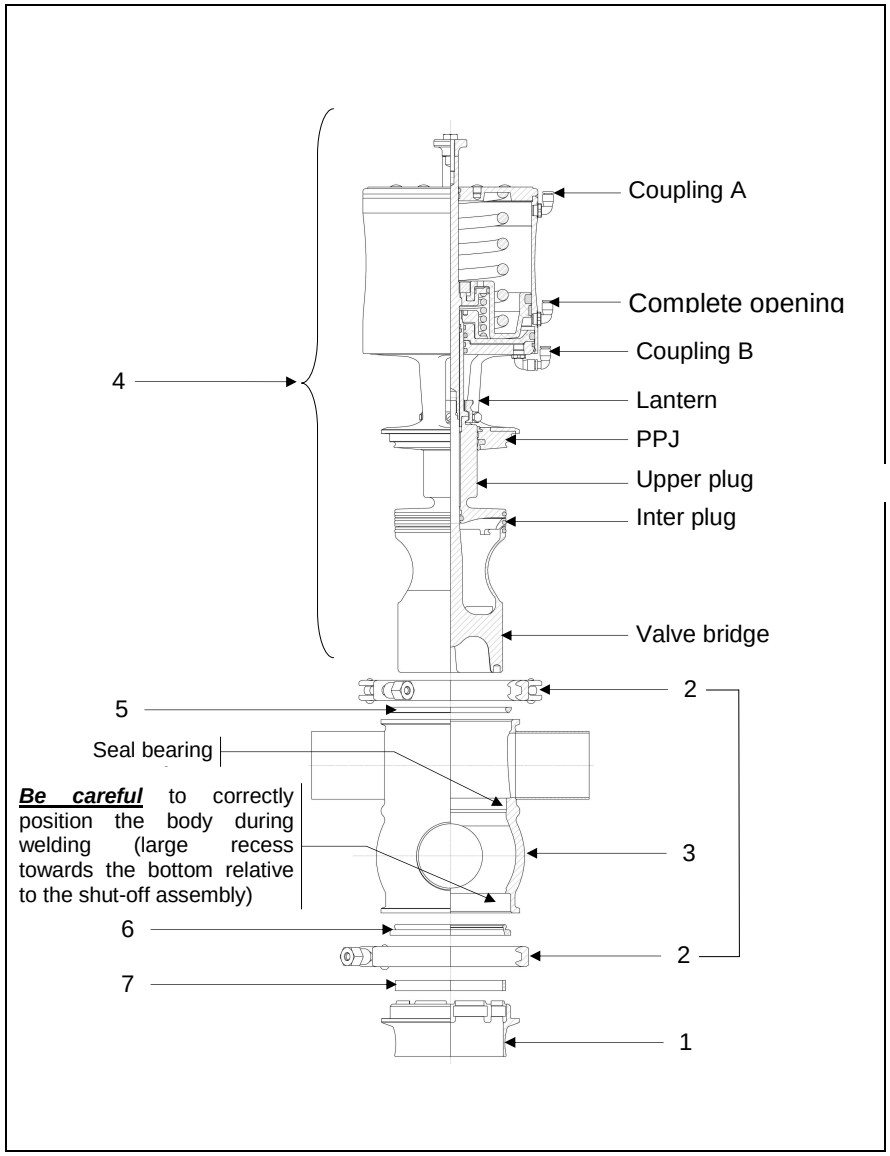
Sample layout diagram



1 : Protector
2 : Clamp (Qty 2)
3 : VDCI valve body
4 : Shut-off sub-assembly
5 : Seal
6 : Seal
7 : Ring
8 : Take-off actuator

Observe the assembly and installation guide. Take your actual conditions of use into account and observe the valve specifications stated in the DEFINOX catalogue.

1.) SAFETY

DANGER — Failure to observe these instructions can result in serious bodily injury or loss of life.

CAUTION — This can also result in less serious injuries or damage to the equipment.

NOTE — The following advice is given to ensure optimum use of the equipment.

2.) VALVE IDENTIFICATION

DEFINOX VDCI MC PFA double block and bleed valves have an identification number. You will need this number in order to identify the spare parts you may request.

3.) INSTALLING VDCI MC PFA VALVES

Store your valve in its original packaging to prevent damage. Disassemble the valve before welding it to your process line. Supply air to the shut-off sub-assembly operator (4) to put it in the "valve open" position. Remove the clamps (2). Cut the air supply and remove the shut-off sub-assembly and the protector (1) from the body (3). Check that the seals (5 and 6) are properly in place. Connect the body to your process line taking care to direct the large recess downward relative to the shut-off sub-assembly.(see drawing opposite). Never block or reduce the leakage chamber. Ensure that the grease used is compatible with elastomer seals, particularly EPDM.

4.) PRECAUTIONS TO BE TAKEN WHEN WELDING THE BODIES

CAUTION

Adjust the pipes : check the perpendicularity, out-of-roundness and offset (play<0.5 mm), to limit stresses due to welding.
Any modifications to the valve body for welding must be made in agreement with Definox.
Support the pipework within 10D of the valve (Nominal valve diameter).

5.) FITTING VDCI MC PFA VALVES

Check that the seal bearing surfaces inside the body are clean (no stainless steel chips, no remains of welding filler, etc.). Check that the seals (5 and 6) and ring (7) are correctly positioned. Mount the protector on the body with the lower clamp (rep 2) "LOOSELY" (we can turn the guide and the collar), then thread the shut-off sub-assembly, align the air outlets.

CAUTION — **Beware:** the shut-off sub-assembly needs to be lowered vertically along the axis of the valve body to avoid damaging the seals and the valve bridge.
Supply air to the operator to open the valve. Place the upper clamp collar. Check the correct positioning of the clamp collars and if necessary use a mallet to reposition them to ensure a proper grip on the upper clamp. Shut off air to close the valve and tighten the lower clamp with the same precautions as for the upper clamp. When using for the first time, check the top connection(s) for leaks, at low pressure first of all then at higher pressure. Next check the bottom connection(s) for leaks. To assist valve assembly and disassembly, a lifting ring can be supplied that screws onto the top of the stem. Special tools are required to strip down the valve completely.

NOTE ! — **Note:** During cutting operations, avoid getting chips or filings in the pipes and rinse the pipes thoroughly with the valve open to avoid damaging the seals when the valve is put into service.