

E-mail: wernig@wernig.com

Internet: http://www.wernig.com

Documentation Vacuum Angle Valve DN 800

WER Dok.E.02.073

1.	Introduction / Safety Instructions		
2.	Description		
3.	Dimensions		
4.	Technical Data		
5.	Assembly Instructions		
6.	Actuator		
7.	Maintenance Instructions		
8.	Spare Parts		
9.	Order Numbers Angle Valves		
10.	Warranty conditions		

Tel: 06051 / 8836-0

Fax 06051 / 8836-29





E-mail: wernig@wernig.com Internet: http://www.wernig.com



 \in -mail: wernig@wernig.com

Internet: http://www.wernig.com

1. Introduction / Safety Instructions

This documentation should be carefully read before installation and operation of this vacuum gate valve, in order to avoid harm to personnel or damage to materials. All statutory rules and regulations must be observed.

2. Description

Angle valves are valves which are often used in vacuum technology systems are used and distinguished openable and close by low vibration. WERNIG-Valves are made to order, thereby versatile options possible.

Standard Features:

- Bypass flange: DN 100 ISO-K, flanged blind
- Drive electro pneumatic (normally closed) with pilot valve 24 V and noncontact limit sensors
- Material quality: Carbon-Steel, Valve plate gasket Viton, all other gaskets NBR.

Options:

- Additional outlet flanges
- Other pilot valve voltages
- Savety position normally open
- Various material combinations possible, for example complete stainless steel

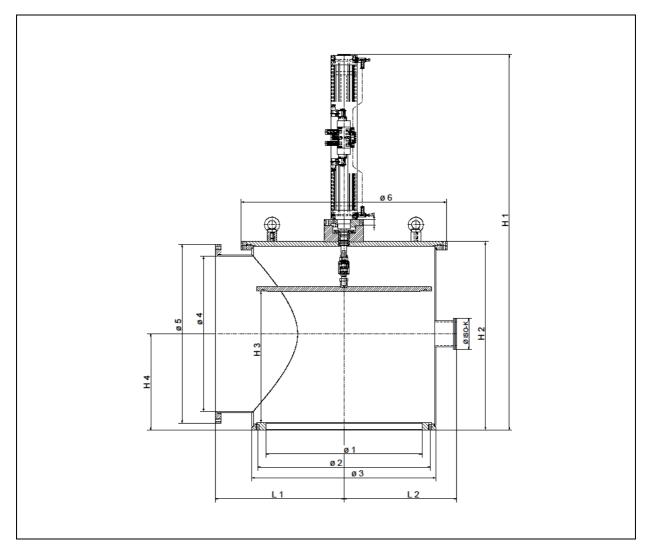
Tel: 06051 / 8836-0 Fax 06051 / 8836-29

• Exterior paint to customer's specifications

Example of use: Shut-off valve for the suction side of diffusion pumps



3. Dimensions



	I	
Nominal width DN	mm	800 ISO-F
Bypass flange ø ISO-K	mm	DN 100
Measure H 1	mm	2091
Measure H 2	mm	1073
Measure H 3	mm	725
Measure H 4	mm	550
Measure L 1	mm	600
Measure L2	mm	560
Measure ø 1	mm	800
Measure ø 2	mm	PC 890
Measure ø 3	mm	938
Measure ø 4	mm	800
Measure ø 5	mm	920
Measure ø 6	mm	1030
Weight	kg	600

E-mail: wernig@wernig.com Internet: http://www.wernig.com



E-mail: wernig@wernig.com Internet: http://www.wernig.com

4. Technical Data

5. Assembly Instructions

The installation position of the valves is normally vertical, pneumatic cylinders above. Installation may only be carried out under clean, standard conditions in vacuum technology. It is particularly important to ensure that the sealing surfaces are not damaged. In case of faulty, messy installation and improper operation of any warranty claim expires.

Additional forces from attachments etc. are to be avoided. Decouplings for example bellow units are preferable.

Compressed air

63571 Gelnhausen

Only clean, dry and lightly oiled compressed air must be used!

Pressure range: 5-7 bar_g / 72-101 psig

¹ ΔP = 0 bar, compressed air 6 bar_ü

² Standard, customer requirements possible!





Compressed air do not connect when the valve is installed in the vacuum system, and when the valve disc or other moving parts can not be touched.

6. Actuator

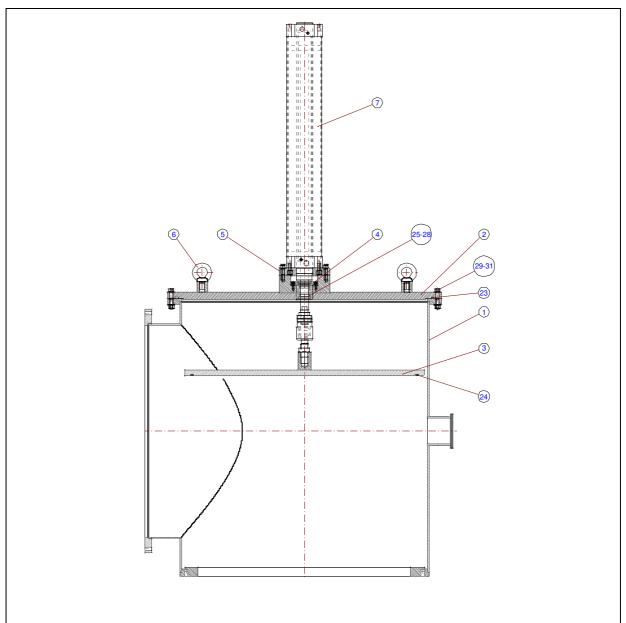
Maintenance-free, double-acting pneumatic standard cylinder.

Angle valve DN	DN 800 ISO-F		
Standard cylinder	WER 02073.07		
Flexo-coupling	WER 02073.08		
Pilot valve	WER 02073.09		
Solenoid	WER 02073.10		
Silencer	WER 02073.16		
Display connector	WER 02073.11		
Proximity switch	WER 02073.12		
Throttle check valve	WER 02073.15		

63571 Gelnhausen Am Spitalacker 5 Tel: 06051 / 8836-0 E-mail: wernig@wernig.com Fax 06051 / 8836-29 Internet: http://www.wernig.com



7. Maintenance Instructions



Change the valve plate gasket, Item 24

- Disassembly of the valve bonnet item 2 by loosening item 29, 30, 31
- Complete lifting of the valve bonnet with a lifting tool (crane), eyebolts are present on the lid.
- Replacement of the seals that are included in gasket kit (item 23, 24 + 25-28) and cleaning the valve inside
- Mounting of upper and lower part

All maintenance can be taken over by WERNIG Maschinen- und Apparatebau GmbH & Co. KG. For this purpose, please contact us.

€-mail: wernig@wernig.com
Internet: http://www.wernig.com



8. Spare Parts

Nominal width	DN 800 ISO-F	
Gasket kit (Item 23 und 24)	WER DS01.02073	
Gasket kit pressure stage casing	WER DS02.00000099	
(Item 25 bis 28)		

Further spare parts on request.

9. Order Numbers

Nominal width	Material quality	Switching cycles	Order numbers
DNI 000 ICO E	Caulaga ataal		WED 00070 CT
DN 800 ISO-F	Carbon steel		WER 02073.ST
<u>I</u>			

Further options on request.

Tel: 06051 / 8836-0

Fax 06051 / 8836-29

E-mail: wernig@wernig.com

Internet: http://www.wernig.com



10. Warranty conditions

- 1. The manufacturer assumes the guarantee for all manufacturing or assembly defects on the product for a period of 12 months after commissioning, maximum 15 months after delivery (delivery date is decisive).
- 2. Parts and assemblies that are not from the supplier are subject to the supplier's warranty
- The warranty covers only defective parts, All other costs (travel, labor costs, transportation, loading and unloading, penalties, etc ...) shall be borne by the operator.
- If the manufacturer considers this to be appropriate, the product must be transported to the company for the purpose of diagnosis and repair with the appropriate means
- The manufacturer rejects any legal liability for damages or accidents that are directly or indirectly attributable to our materials, regardless of the guarantee period.
- The warranty expires if:
 - The product is rebuilt in a manner not approved by the manufacturer, replacement parts not supplied by the manufacturer, or an unauthorized workshop on the product.
 - The product is used without having previously read the documentation
 - The product is operated outside the limits of use (temperature / pressure, etc.)
 - The product is damaged by excessive use.
 - The product is negatively affected by contamination
 - The copy of this warranty has not been duly completed and sent to WERNIG Maschinen- und Apparatebau GmbH & Co. KG
- 7. The operator declares that the documentation has been read and understood before commissioning.
- Defective parts or spare parts covered by the warranty are made available to the customer. Free of charge will only take place if the faulty parts or spare parts have been received by the manufacturer for inspection.
- Transport: Complaints of damages during transport are not accepted, these are to be addressed to the transport company.

ATTENTION. THIS WARRANTY APPLIES ONLY IF A COPY OF THIS DOCUMENT IS SIGNED TO THE MANUFACTURER.

63571 Gelnhausen	Am Spitalacker 5	Tel: 06051 / 8836-0	E-mail: wernig@wernig.com
Signature:			-
Printed Name:			_
Date:			-
Operator:			-
Serial number:			-
Part number:			_
Product:			-

Fax 06051 / 8836-29

Internet: http://www.wernig.com