

Wallace & Tiernan® Gas Feed Systems

V-015, A-015, AU-015

Automatic changeover modules with CCU control unit

Proper disinfection of potable, pool and process water with gaseous or liquid substances is guaranteed only if the supply of these chemicals remains uninterrupted. Various automatic changeover modules are available for this purpose. Once a storage container reaches a specific low level, this module switches to the next available full tank. This means all available chemicals are optimally utilised.

V-015 vacuum changeover

The electrical V-015 changeover module is designed for the alternate switching of gas cylinders in vacuum gas lines. This changeover module primarily consists of a motor-driven 2 or 3-way valve, an underpressure contact gauge and an electronic CCU control unit. If the underpressure in the supply system increases to approx. -400 mbar, the changeover process is initiated by a contact on the underpressure gas gauge. An electrical positioner (servomotor) carries out the actual changeover. The motor-driven V-015 changeover valve is also available without directly attached contact pressure gauge (special model).

A-015 pressure gas changeover

The A-015 changeover module is designed for switching gas cylinders in pressure gas lines. This cylinder changeover module consists of a motor-driven 2 or 3-way valve, an underpressure contact gauge and an electronic changeover valve, all of which are controlled by the CCU control unit.

AU-015 pressure gas and liquid changeover

The changeover module AU-015 is designed for liquid and gaseous chlorine or sulphur dioxide. It consists of an overpressure contact gauge with check valve as well as two motor-driven and two manually operated full-bore ball valves for the alternate evacuation of the connected gas cylinders. The motorised valves are actuated by the CCU control unit. The changeover pressure is set at the

Benefits:

- Continuous chemical supply for broad range of applications
- Suitable for chlorine, sulphur dioxide and carbon dioxide and others
- Extremely safe and reliable, optimal utilisation of applied chemicals
- User-friendly, automated system; manual lever for emergencies
- Depletion limit device to avoid corrosion in the chlorine gas cylinder (A-015, AU-015)



A-015 pressure gas changeover



V-015 vacuum changeover



AU-015 pressure gas and liquid changeover

Product Sheet

contact pressure gauge. An external pressure source to check the manometer is connected to the check valve.

All changeover modules are compact units for wall mounting. The actuated valves are equipped with a lever which provides manual valve closure in the event of an emergency.

Technical data changeover modules

	V-015	A-015	AU-015
Description	Vacuum changeover	Pressure gas changeover	Pressure gas and liquid changeover
Flow rate (at 20 °C)	10 kg/h Cl ₂ /SO ₂ 8 kg/h CO ₂	20 kg/h Cl ₂ 8 kg/h SO ₂	200 kg/h Cl ₂ /140 kg/h SO ₂ (gas) 1000 kg/h Cl ₂ /SO ₂ (liquid)
Max. operating pressure	-	15 bar	25 bar
Changeover pressure	- 400 mbar	1 bar falling	1 bar falling
Ambient temperature	0 – 50 °C	0 – 50 °C	2 – 50 °C
Connection type	PVC tube DN 15/20	Connected to flexible line with union nut 5/8-18 UNF	R1 " screwed flange acc. to DIN 2999
Electrical connection	85 – 240 V AC, DC	85 – 240 V AC, DC	85 – 240 V AC, DC
Dimensions (W x H x D)	385 x 555 x 200 mm	165 x 530 x 200 mm	875 x 600 x 265 mm
Weight	approx. 16 kg	approx. 16 kg	approx. 28 kg

Additional gases available upon request.

CCU control unit

The CCU control unit (Chemical Changeover Unit) controls the automatic changeover between two cylinders or tanks and thus ensures a continuous supply. One or two contact pressure gauges initiate the switching process as soon as the pressure falls below the set value. Switching can also be initiated through level contacts. The CCU consists of a plastic housing mounted to the wall and displays the operating state of the switching valves or level contacts.

Mechanical vacuum changeovers for 4 or 10 kg/h chlorine gas are available. These consist of two

combined changeover valves with filter, catchpot pressure gauge and heating element. They are also connectable to barrels or vats.

Technical data CCU

To connect to V-015, A-015, AU-015 or two solenoid valves:

Display:

Power supply
Display for cylinder 1 and 2 (open/empty)

Digital inputs:

2 for external, voltage-free contacts
(e.g. for contact pressure gauge, emergency-off signal, level switch)

Output contacts:

2 voltage-free contacts (cylinder 1 empty/alarm)
2 voltage-free contacts (cylinder 2 empty/alarm)
1 voltage-free contact (cylinder 1 open)
1 voltage-free contact (cylinder 2 open)
1 voltage-free contact (to lock a chloride dioxide system)
Connection for valve heater

Power supply:

1/N/PE AC 230V, 47– 63 Hz or 1/N/PE AC 115V, 47– 63 Hz

Type of enclosure: IP 66

Dimensions (W x H x D): 359 x 237 x 100 mm

Weight: approx. 2.4 kg



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WT.025.215.000.EE.PS.0908
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