

PRESSURE CONTROL UNIT

Pressure control unit for the compensation of fluctuations of the system pressures. For the supply of WITT gas mixing and metering systems (MD, MDV and MDE). Available for 2 or 3 gases.

Benefits

- for safe operations in conformity with all relevant standards. This system has been certified according to: DIN EN 746-2:2006 (Industrial thermoprocessing equipment, Part 2: Safety requirements for combustion and fuel handling systems)
- little space requirements due to compact design
- full integration of all required safety components for convenient installation
- only high quality components for maximum safety
- easy access to all components without disassembly of the entire system for convenient maintenance work

Components

Ball valves – manual shut-off of the gas supplies

Gas filters – protection of downstream components from pollution

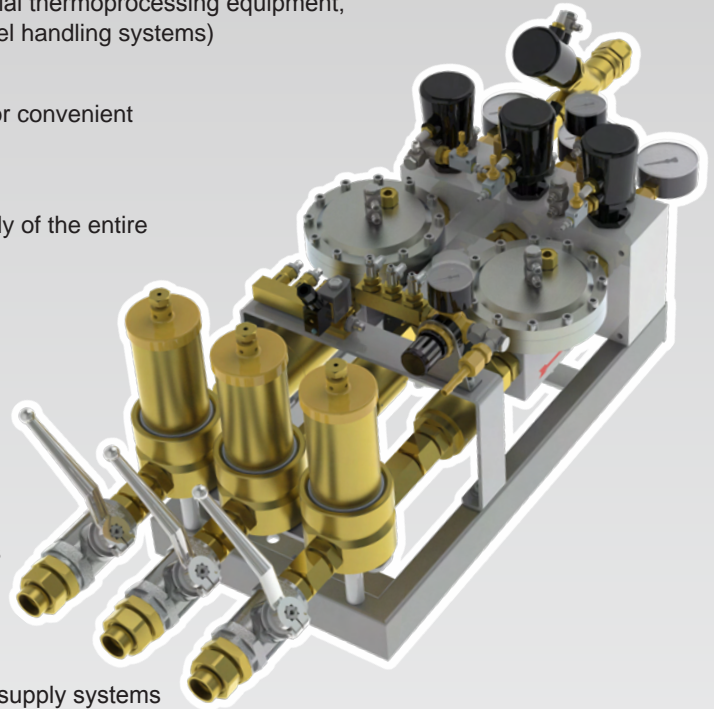
Flashback arrestors – against dangerous reverse gas flows and flashbacks

Pressure switches – monitoring the gas supplies

Fluid loaded pressure regulators – compensating pressure fluctuations in the main gas supply systems

Solenoid valves – remote shut-off of the gas supplies

Purging system – cooling burners and protecting gas supply lines



For detailed technical information please refer to the technical data sheets of the individual components.

Product Information

Type	pressure control unit according to DIN EN 746-2	Materials	aluminium, stainless steel, brass
Gases	hydrogen, propane, air, natural gas, oxygen (others on request)	Weight	with all components approx. 42 kg
Gas inlet pressures	low pressure version 0.2 bar to 0.8 bar high pressure version 0.1 bar to 4.0 bar	Dimensions (HxWxD)	approx. 320 x 315 x 1010 mm (12.60 x 12.40 x 39.76 inch)
Gas outlet pressures	low pressure version 0.1 bar to 0.6 bar high pressure version 0.4 bar to 3.8 bar	Voltage (solenoid valves)	230 V AC or 24 V DC others on request
Flow capacity (air)	see table	Approvals	Company certified according to ISO 9001:2000 and ISO 14001 Pressure control unit certified according to DIN EN 746-2:2006 CE-marked according to: - EMC 2004/108/EC - Low Voltage Directive 2006/95/EC
Temperatures (gas/environment)	0 °C to +40 °C (30 °F to 105 °F)		
Gas connections			
Inlets	soldering nipples for copper pipe 22 mm OD; others on request		
Outlets	soldering nipples for copper pipe 22 mm OD; others on request		

Technical Data

THERMAL PROCESSING

Flow (in Nm³/h) in relation to air

		outlet pressure in barg									
		0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8
inlet pressure in barg	0.0	-	-	-	-	-	-	-	-	-	-
	0.2	7.1	-	-	-	-	-	-	-	-	-
	0.4	10.1	7.8	-	-	-	-	-	-	-	-
	0.6	12.4	11.0	8.4	-	-	-	-	-	-	-
	0.8	14.3	13.5	11.9	9.0	-	-	-	-	-	-
	1.0	15.9	15.6	14.6	12.7	9.5	-	-	-	-	-
	1.2	17.5	17.5	16.8	15.6	13.5	10.1	-	-	-	-
	1.4	18.9	19.1	18.8	18.0	16.5	14.2	10.5	-	-	-
	1.6	20.2	20.6	20.6	20.1	19.1	17.4	14.9	11.0	-	-
	1.8	21.4	22.1	22.3	22.0	21.3	20.1	18.3	15.6	11.5	-
	2.0	22.6	23.4	23.8	23.8	23.4	22.5	21.1	19.1	16.2	11.9