Checklist WRS

This checklist is used to record the relevant data on site. Please use one checklist per compressed air system and label them clearly.

Company	Contact person, position
	E-Mail
Address	Tel.

What goals do you have with regard to compressed air? What is important to your company?	
Is an energy management system in use currently? Name/manufacturer?	☐ Yes ☐ No Name:
Which measured variables are measured in the area of compressed air? Is a data export (e.g. csv) possible?	

What electricity price do you currently pay? [€/kWh]	
Which shifts do you work?	
Is compressed air needed 24/7 (also on Sundays)?	
Are compressors switched off at night/at weekends?	

Number of compressors:	
Number of compressor rooms:	
Service provider:	

List of compressors	Number	
	Name	
	Manufacturer	
	Nominal power [kW]	
	Year of manufacture	
	Location	
Are there requirements for the quality of the compressed air? Is this monitored by measurement (e.g. pressure dew point sensor)?		
Are there critical times in summer/winter when the compressor room is very hot/cold?		
Are the compressors connected to a heat recovery system?		
What material are the compressed air lines made of? Are there any special requirements?		

For better documentation, please take pictures of the following areas:

☐	Compressor room (general)
☐	Compressor rating plates
☐	Compressed air quick-release coupling in the compressor room (if available)
☐	Location plan of compressors (if available)
☐	Compressed air storage tank
☐	Socket in the compressor room (relevant for data recording)

Drawings:

Please draw the arrangement of the compressors in the following diagram:

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St.-Nr. 65205/88673
Amtsgericht Stuttgart, HRB 777677
Geschäftsführer:
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Bank: Commerzbank Esslingen
IBAN: DE61 6114 0071 0829 7343 00
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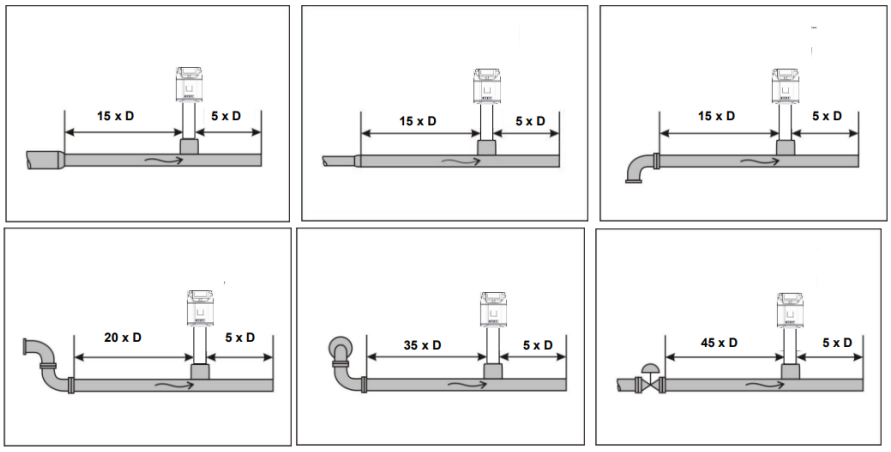
Installation of volumetric flow sensors

1. Consider inlet and outlet sections



2. Sensor type

	Slide-in variant	Flange variant	Thread variant	Ultrasound variant
Installation under pressure	Yes	No	No	Yes
Pipe diameter	½ inch up to DN 1000	DN 15 to DN 80	R ¼ inch to R 2 inch	¾ inch to 8 inch
Materialart Rohr	Irrelevant	Irrelevant	Irrelevant	Stainless steel or steel (no plastic)
Output signals	4-20 mA, Modbus RTU, Modbus TCP, Pulse, M-Bus, IO Link	4-20 mA, Modbus RTU, Modbus TCP, Pulse, M-Bus, IO Link	4-20 mA, Modbus RTU, Modbus TCP, Pulse, M-Bus, IO Link	4-20 mA, Modbus TCP, IO Link, pulse
Gases	Air, nitrogen, argon, helium, CO2, oxygen, vacuum	Air, nitrogen, argon, helium, CO2, oxygen, vacuum	Air, nitrogen, argon, helium, CO2, oxygen, vacuum	Air, nitrogen

3. Locality sensor

Volume flow sensors can measure in both wet and dry compressed air areas. Recommendation: dry area (after drying unit)

There are bi-directional volumetric flow sensors. The flow direction should therefore be checked.

4. Documentation of required sensors

No.	Name	Sensor variant	Exact outer pipe diameter	Image documentation?	Inlet and outlet sections checked?
1				☐	☐
2				☐	☐
3				☐	☐
4				☐	☐
5				☐	☐
6				☐	☐
7				☐	☐