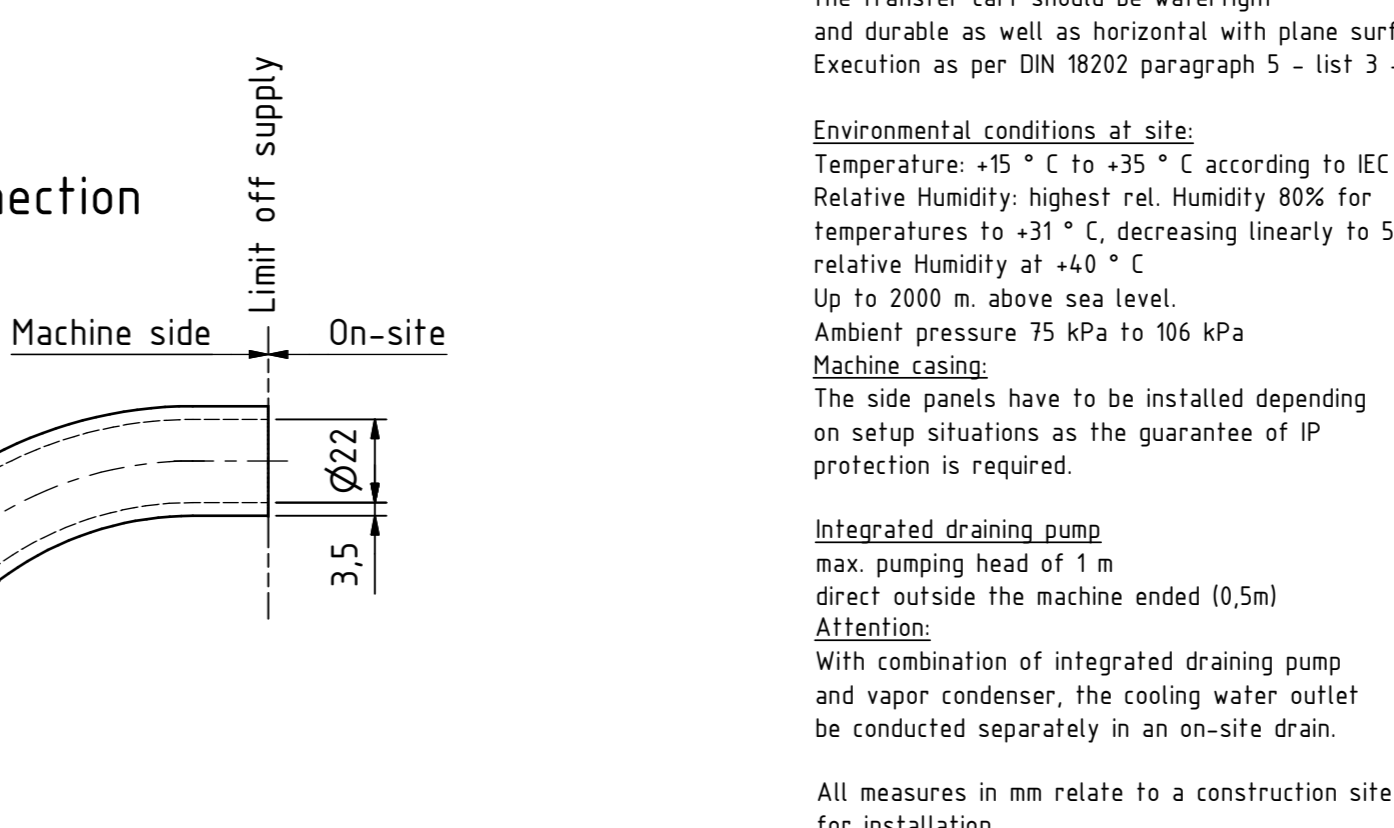
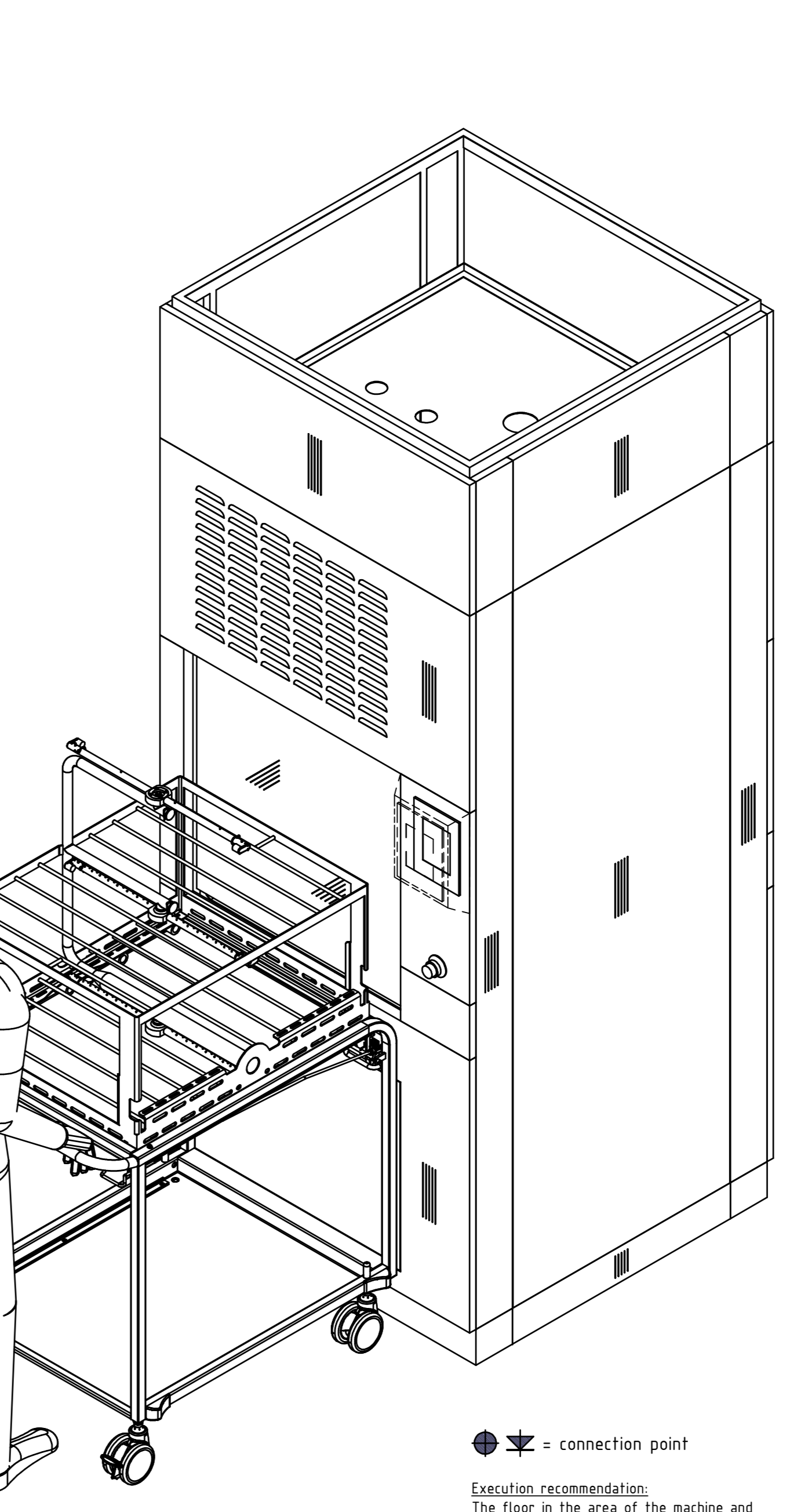
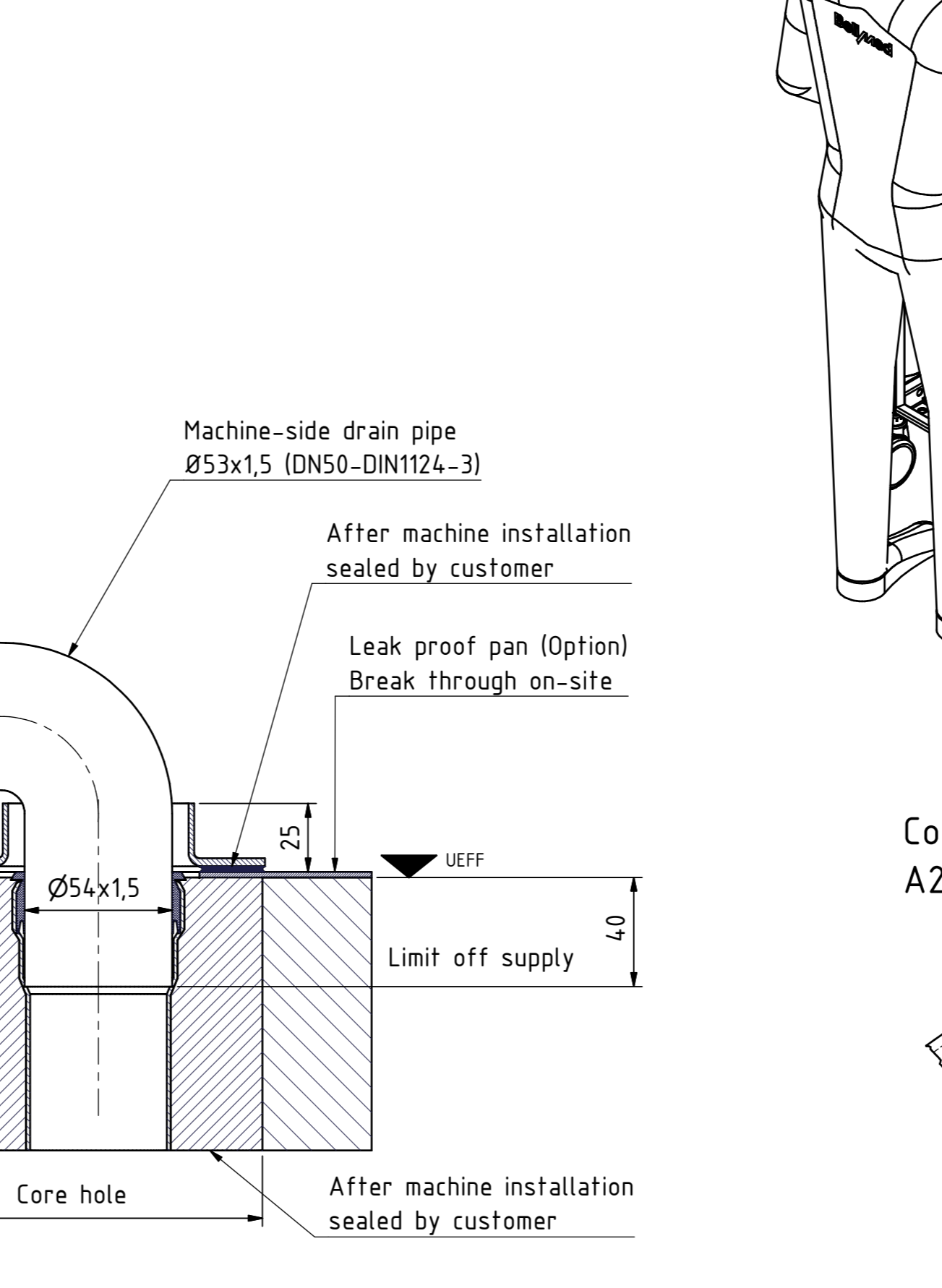
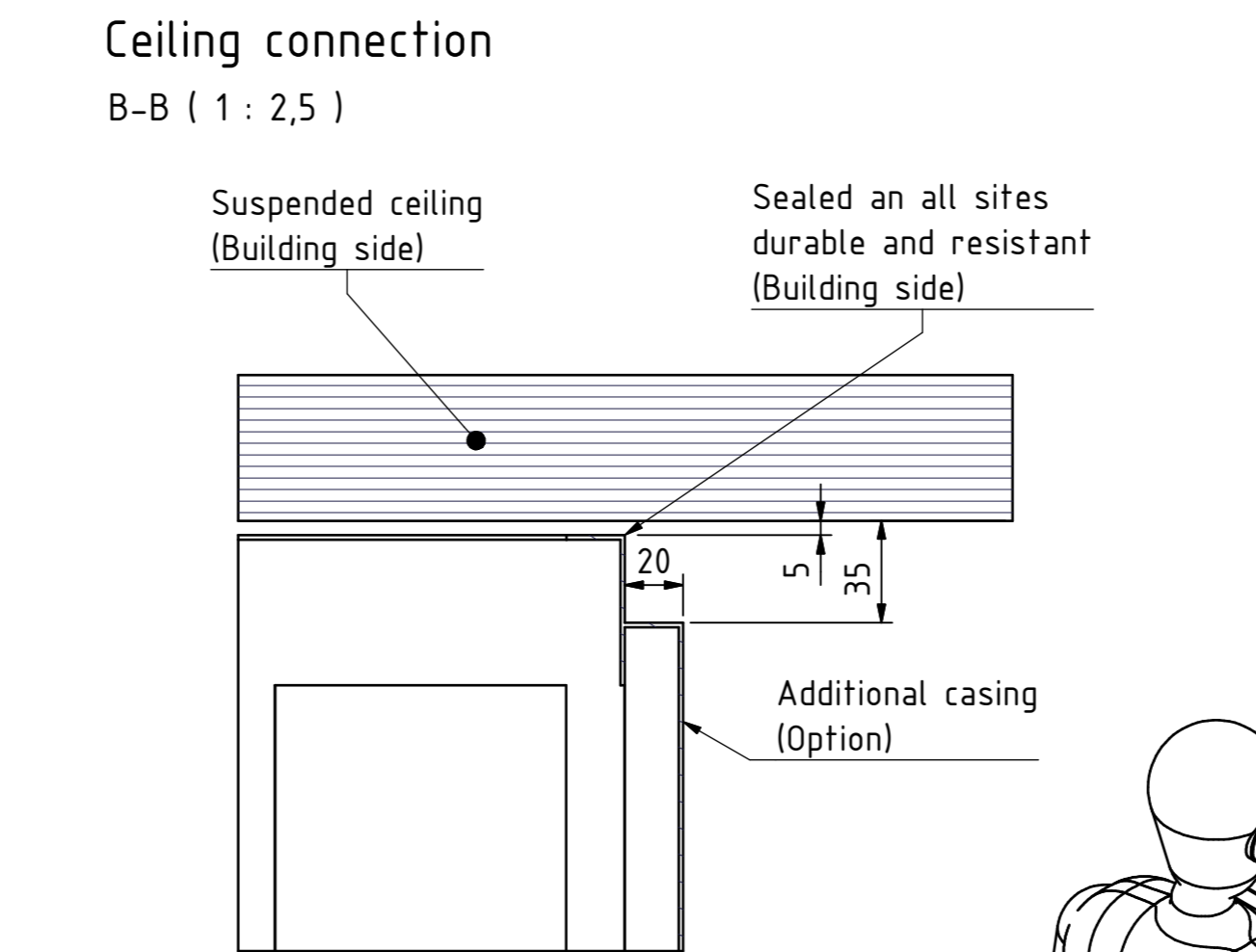
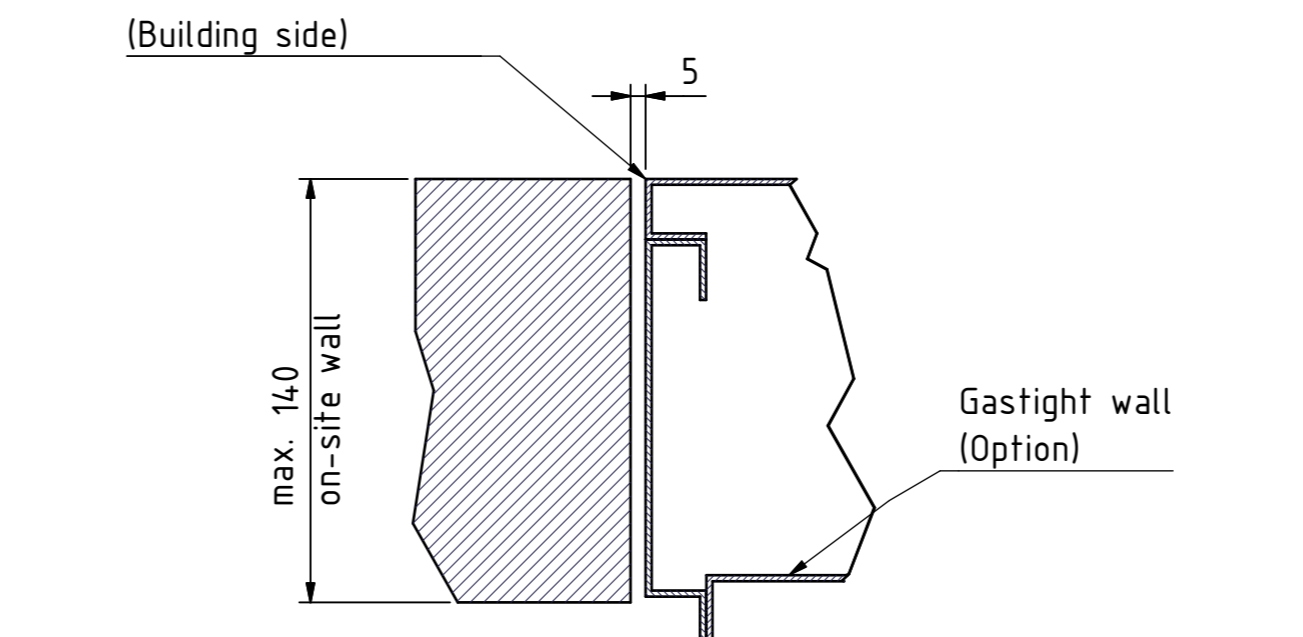
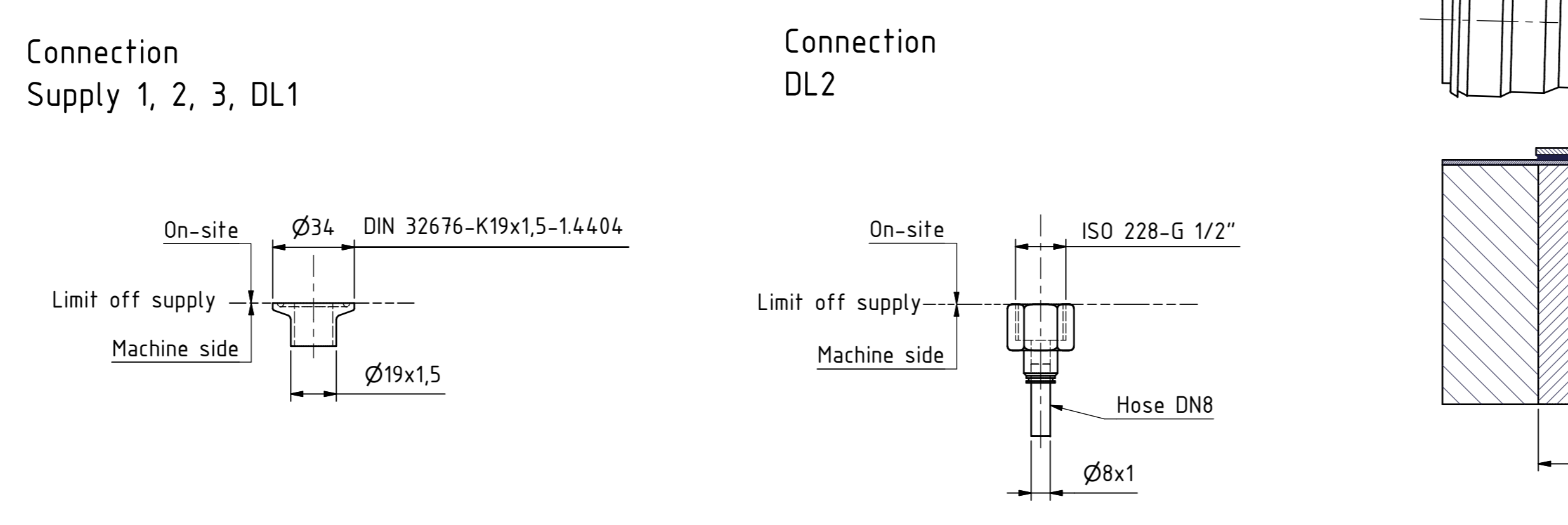
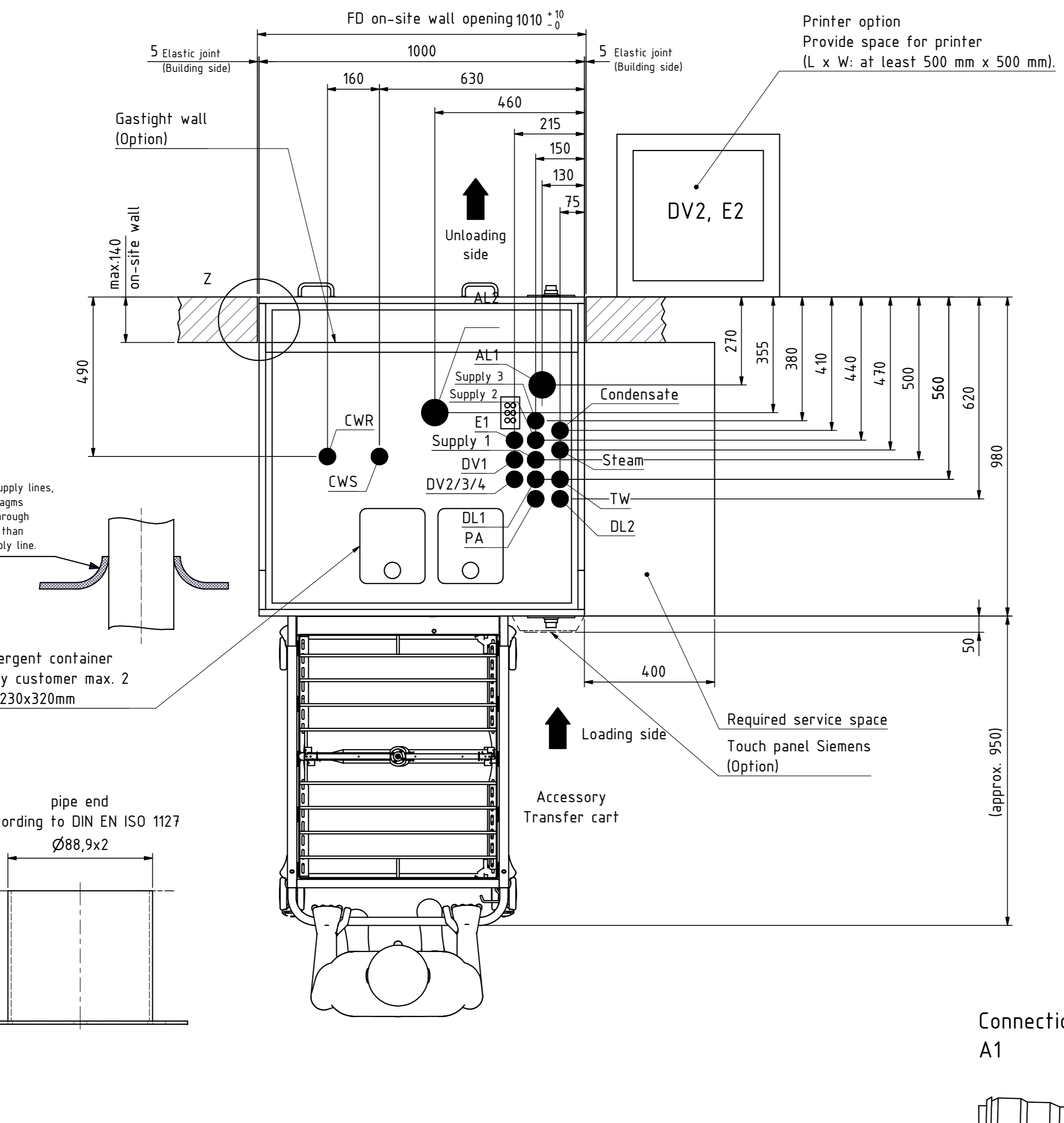
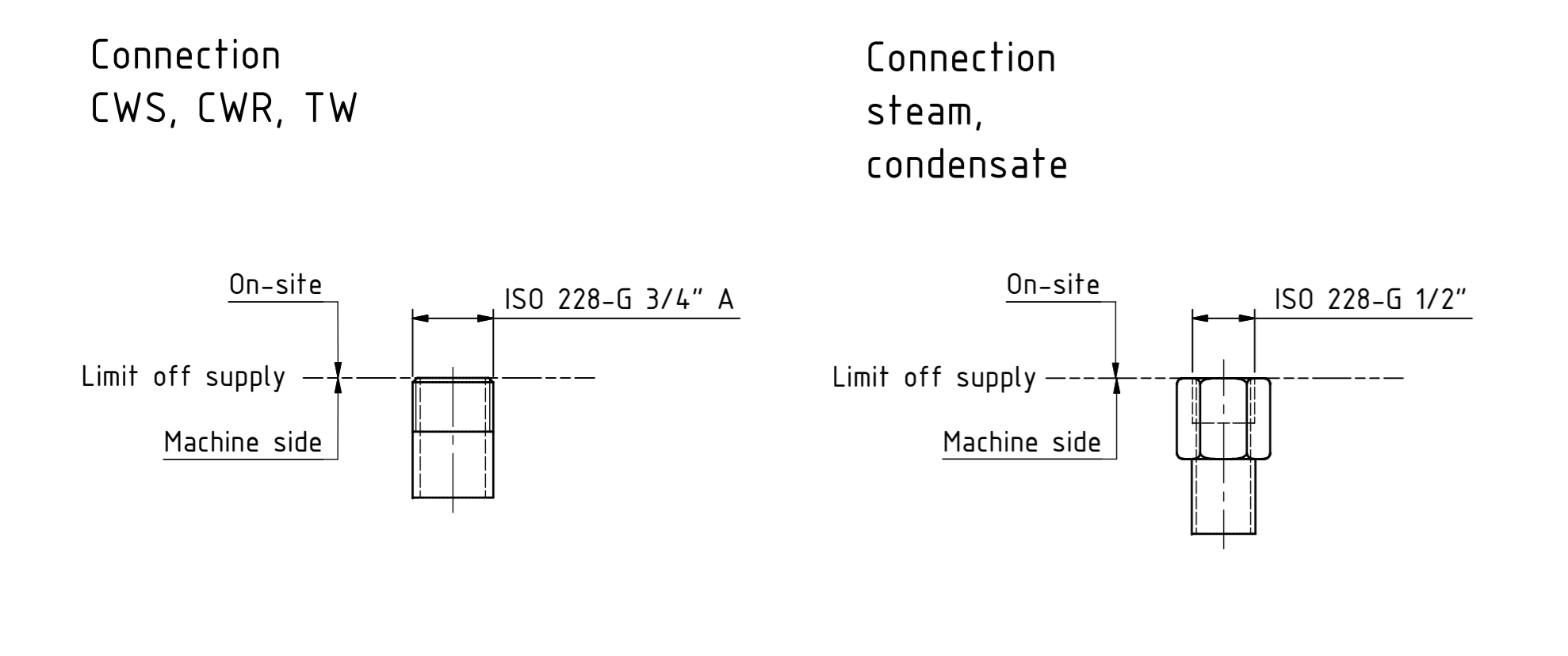
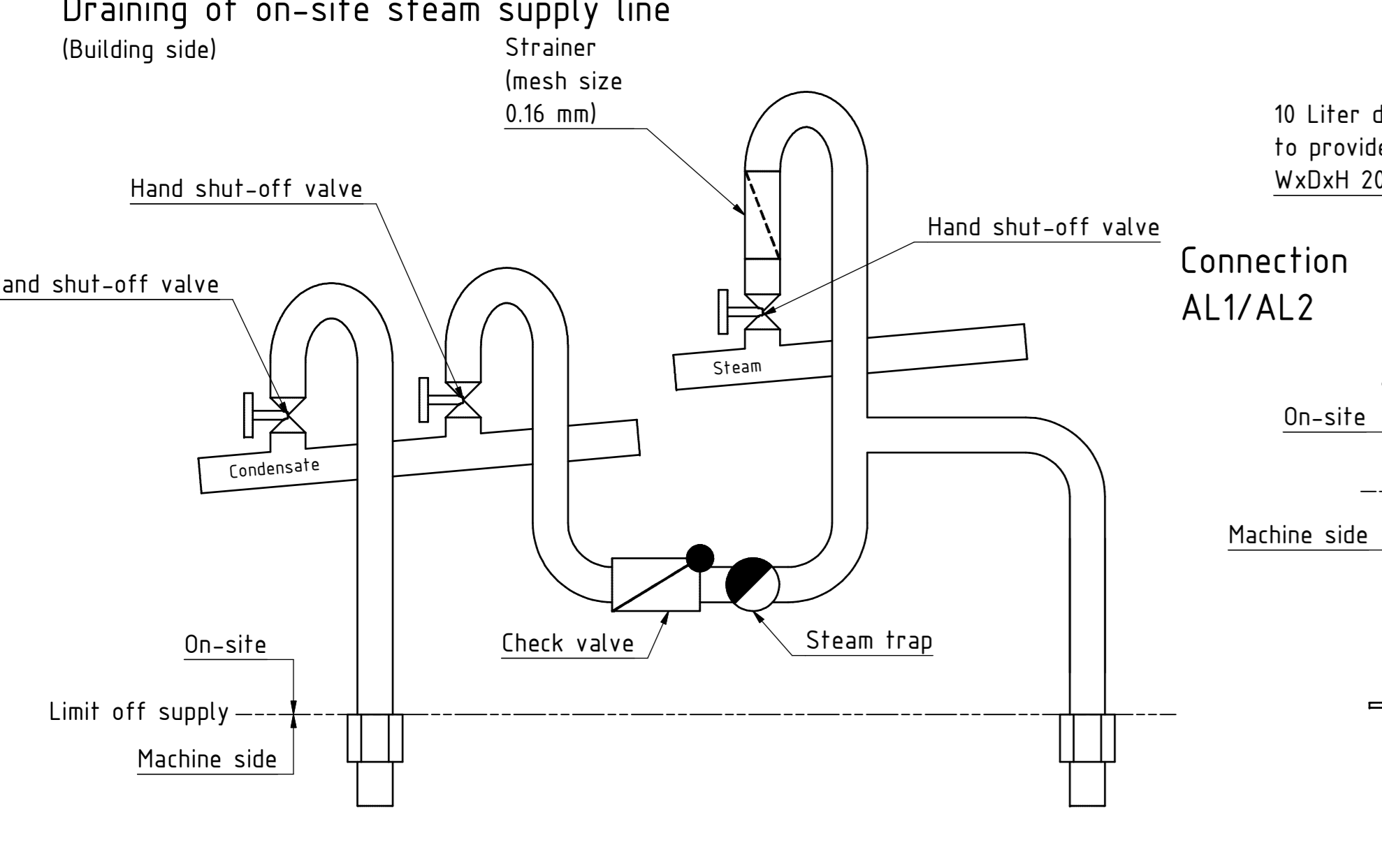
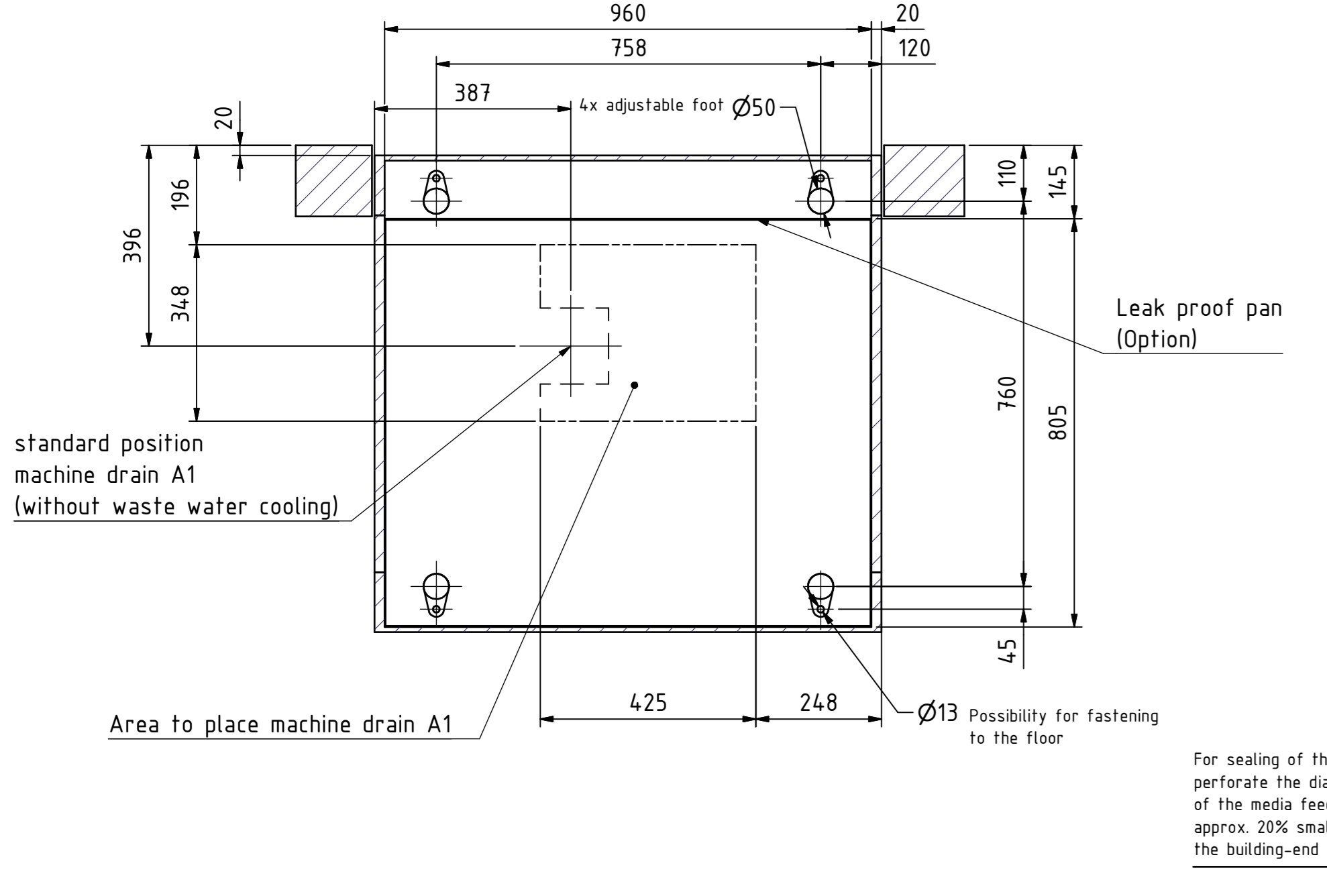


Technical Data Sheet for Cleaning machine		PH 810 VS2								
Series	PH	Type	810 VS2							
Works by The customer										
1. Installation preparation: Transport inside ways and openings according to our installation drawing. Minimum dimensions have to be observed.										
2. Media supply, feed, drain and connection lines: According to the installation / material requirements. Otherwise you have to calculate with an unsatisfactory function, cleaning and drying efficiency, negative influence on the cleaning items and reduced life time of the machine.										
3. Pipe installation: All feed, drain and connection lines must be carried out as shown on the installation drawing and diagram. The on-site nominal width of pipes is to be adapted to the capacity. All piping has to be properly laid and fixed. The max. pressure indicated must not be exceeded, install overpressure valves on-site.										
4. All pipe feed lines on site have to be provided with shut off valves.										
5. All data refer to 1 cleaning machine.										
6. All joints between the machine and the building site wall are to be silicone sealed.										
7. After machine installation connection of the machine to the supplies on site (on part of the builder).										
8. Contaminated waste water is to be disposed of in compliance with the law.										
Heat radiation:										
Machine	900 W									
Wash-Items	150 W									
Noise emission	-88 dBA									
Weight:										
including wash tank filling (38kg) + 100kg for wash-rack and wash-items + 2x detergent container (20kg)	160kg									
Specific floor loading	1600N/m²									
Necessary transport ways into the building (complete transport way):										
Width:	1050 mm									
Height:	2150 mm									
Depth:	1100 mm									
Building side potential equalization:										
Only needed if the room is used medically according to VDE 0100-110. Length of cable end 3 m from upper edge of finished floor.										
Code		Name	Nominal size	Capacity	Consumption	Temperature	Assembly arrangement	Material		
E1		Electric connection machine:	3 N AC 400V (380-415V), 50Hz							
Wash tank	Drying	Fuse [A]	Nominal current [A]	Nominal rating [kW]			Junction box max. 2m cable length, flexible terminals 6mm² / AWG10	Connection cable lined out Outside diameter of 15.8 mm		
Electric	Electric	40	28	17.5						
Steam	Electric	25	23.5	8.6						
Steam	Steam	20	7	2.5						
E1		Electric connection machine:	3 AC 220V (200-220V), 50Hz							
Wash tank	Drying	Fuse [A]	Nominal current [A]	Nominal rating [kW]			Junction box max. 2m cable length, flexible terminals 6mm² / AWG6	Connection cable lined out Outside diameter of 22.8 mm		
Electric	Electric	60	44	15						
Steam	Electric	50	36	13						
Steam	Steam	20	10	2.5						
E1		Electric connection machine:	3 AC 208V (200-220V), 60Hz							
Wash tank	Drying	Fuse [A]	Nominal current [A]	Nominal rating [kW]			Junction box max. 2m cable length, flexible terminals 6mm² / AWG 6	Connection cable lined out Outside diameter of 22.8 mm		
Electric	Electric	60	44	15						
Steam	Electric	50	36	13						
Steam	Steam	20	10	2.5						
E2		Electrical supply printer					Socket IEC 204V, 50Hz or the printer location (i.e. Adapter non-IEC countries)	Lens flut plug (Type C IEC 7-11)		
DV1		Data line for potential-free contact/slogation, alarm, exhaust air, program and					Control line shielded outer diameter 4-10mm or 5mm max. +5A	Terminals fixed/flexible outer diameter 0.8-1.5mm³ (max. 2x 0.8 VCC max. +5A)		
DV2		Data line for documentation on printer					Patch cable Cat.5e if cable length > 20m	USB-Extender to the control unit and the printer, Cat5 patch cable, cable length 20m		
DV2		Data line for documentation on printer					max. 100m	RJ45 connection to router/switch		
DV3		Connection to building site process control system (PCS)					max. 100m	RJ45 connection to router/switch		
DV4		Wiring modem connection for remote maintenance					Telephone line	RJ45 or RJ11 connection to modem		
PA		Potential equalization					Potential equalization cable min. 6mm² and ring-type terminal	Threaded bolt M8		
PA		Potential equalization					Potential equalization cable min. 10mm² / AWG 6 and ring-type terminal	Threaded bolt M8		
A1		Machine drain pH-value 5-12	DN5	DA 53mm	60L/min	Depending on used program	up to max. +30°C with water separator	Drain job DN 50 with water separator through a siphon, engineering fire protection section through a siphon	Pipe Ø53x5mm	Stain less stainless steel (304-316L)
A2		Machine drain pH-value 5-12 (with integrated draining pump)	DN5	DA 29mm	30L/min	Depending on used program	up to max. +30°C for free, protected against backflow. Flushable through a siphon	Drain job DN 50 with water separator through a siphon	hose Ø22x3.5	Stain less stainless steel (304-316L)
AL1		Exhaust air rel. air humidity up to 100%	DN 80	DN 80	350m³/h	from external ventilation sucked off	up to max. +10°C	Fix connection with condenser return system	Exhaust air connection according to DIN EN ISO 1127	Stain less stainless steel (304-316L)
AL2		Air intake			350m³/h		up to max. +10°C with vapor condenser by the machine	Fix connection with condenser return system	Exhaust air connection according to DIN EN ISO 1127	Stain less stainless steel (304-316L)
Steam		350-450 kPa (absolute)	DN5	DN5	0.45kg/min	0.43kg/min	up to max. +10°C	Pipe with gate valve, stroke limiter	Internal thread ISO 228-G 1/2"	Stain less stainless steel (304-316L)
Condensate			DN5	DN5			up to max. +10°C	Pipe with gate valve, lead away condensate without pressure on-site	Internal thread ISO 228-G 1/2"	Stain less stainless steel (304-316L)
DL1		Compressed air (air) 650-900 kPa (absolute)	DN5	DN5	10 Nm³/h	1.2 Nm³/h	up to max. +5°C	Pipe with gate valve	Clamp connection DN 26/6, pressure controller, pre-lock valve, filters	Stain less stainless steel (304-316L)
DL2		Compressed air (control air) 650-900 kPa (absolute)	DN5	DN8	0.25Nm³/h	0.25 Nm³/h	up to max. +5°C	Pipe with gate valve	Adapter with internal thread ISO 228-G 3/4"	Stain less stainless steel (304-316L)
Supply 1		High-purity water 300-600 kPa (absolute)	DN5	DN5	300/min	30-38 L/hatch	up to max. +45°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 26/6	Stain less stainless steel (304-316L)
Supply 2		Warm water 300-600 kPa (absolute)	DN5	DN5	300/min	30-38 L/hatch	up to max. +45°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 26/6	Stain less stainless steel (304-316L)
Supply 3		High-purity water 300-600 kPa (absolute)	DN5	DN5	300/min	30-38 L/hatch	up to max. +45°C	Pre-shut-off valve with stroke limiter	Clamp connection DN 26/6	Stain less stainless steel (304-316L)
CWS		Drinking water supply 300-600 kPa (absolute)	DN5	DN5	300/min	30-38 L/hatch	Depending on used program	Pipe DN5 with gate valve and strainer	External thread ISO 228-G 3/4"	Stain less stainless steel (304-316L)
CWR		Drinking water vapour condenser	DN5	DN5	300/min	30-38 L/hatch	Depending on used program	Pipe DN5 with gate valve	External thread ISO 228-G 3/4"	Stain less stainless steel (304-316L)
TW		Tap water waste water cooling (absolute) max. 5bar	DN5	DN5	140/min	140/min	up to max. +15°C	Pipe DN5 with gate valve	External thread ISO 228-G 3/4"	Stain less stainless steel (304-316L)



Symbol	Equipment	Standard	Symbol	Equipment	Standard
○	ISO 228-G 3/4"	ISO 228-G 3/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 1/2"	ISO 228-G 1/2"	○	ISO 228-G 3/4"	ISO 228-G 3/4"
○	ISO 228-G 1/4"	ISO 228-G 1/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 3/4"	ISO 228-G 3/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 1/2"	ISO 228-G 1/2"	○	ISO 228-G 3/4"	ISO 228-G 3/4"
○	ISO 228-G 1/4"	ISO 228-G 1/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 3/4"	ISO 228-G 3/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 1/2"	ISO 228-G 1/2"	○	ISO 228-G 3/4"	ISO 228-G 3/4"
○	ISO 228-G 1/4"	ISO 228-G 1/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"
○	ISO 228-G 3/4"	ISO 228-G 3/4"	○	ISO 228-G 1/2"	ISO 228-G 1/2"

Execution recommendation:
The floor in the area of the machine and the transfer cart should be watertight and durable as well as horizontal with plane surface. Execution as per DIN 9022 paragraph 5 - list 3 - line 3

Environmental conditions at site:
Temperature: +5 °C to +35 °C according to IEC 61010-1
Relative Humidity: highest rel. humidity 80% for temperatures to +31 °C, decreasing linearly to 50% relative humidity at +10 °C
Up to 2000 m above sea level. Ambient pressure 75 kPa to 106 kPa
Machine casing:
The side panels have to be installed depending on setup situations as the guarantee of IP protection is required.

Integrated draining pump:
max. pumping head of 1 m direct outside the machine ended 10.5m

Attention:
With combination of integrated draining pump and vapor condenser, the cooling water outlet be connected separately in an on-site drain.

Approved by: AR 08.06.2012

Customer/Manufacturer: ARA 08.06.2012

Montagezeichnung, Montageanleitung MoAn

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PH 810 VS2

PH 810

V6

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