

QUESTIONNAIRE – PRESSURE CONVEYING SYSTEM PSU

Please complete the form fields and return the questionnaire to biuro@interprocess.pl – we will prepare our quotation on this basis. Any questions: tel. +48 787 783 590.

CONTACT DETAILS

Full name:		Phone number:	
Company:		E-mail address:	
Street and number:		Country:	
Postcode, town:		Date completed:	

ORDER

Number of lines:		Required delivery date:	
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REQUIREMENTS

Conveying rate [kg/h, t/h]:	min.:	nominal:	max.:
Operating mode:	☐ continuous ☐ batch → batch weight [kg]: operating time [h/day]:		
Conveying distance [m]:	total:	horizontal sections:	vertical sections:
Number of bends in line:	90°:	45°:	diverter valves:
System layout:	number of feed points: number of delivery points:		
Conveying mode:	☐ dilute phase ☐ dense phase (friable, abrasive products) ☐ to be selected		

MATERIAL FEED AND DELIVERY POINTS

Material fed from:	☐ silo / hopper ☐ big-bag discharge station ☐ sack tipping station
	☐ road tanker / rail wagon ☐ mixer ☐ mill / dryer ☐ other:
Feeding into conveying line:	☐ rotary valve ☐ blow tank (pressure vessel) ☐ venturi injector
	☐ screw feeder ☐ to be selected by InterProcess
Supply to feeding device:	☐ flood feed (full hopper) ☐ metered – device:
Material delivered to:	☐ silo / hopper → capacity [m³]: permissible overpressure [mbar]:
	☐ mixer ☐ scale / feeder ☐ packaging machine ☐ other:
Vent filter at delivery point:	☐ existing ☐ in InterProcess scope of supply
Available height [mm]:	at feed point: above receiving equipment:

COMPRESSED GAS SOURCE AND UTILITIES

Conveying gas:	☐ air ☐ nitrogen (closed loop) ☐ other:
Gas source:	☐ Roots blower ☐ side channel blower ☐ compressor ☐ to be selected
	☐ compressed air network → pressure [bar(g)]: flow rate [Nm³/h]:
Requirements:	☐ oil-free air ☐ air cooler (temperature-sensitive product)
	☐ acoustic enclosure → permissible noise level [dB(A)]:
Gas source distance [m]:	(from feed point) supply: ☐ 3×400 V, 50 Hz ☐ other:

MATERIAL

Material name:			
Particle size [mm]:		Bulk density [kg/m³]:	
Moisture content [%]:		Angle of repose [°]:	
Air humidity [%]:			
Material temperature [°C]:	☐ 0–40 ☐ other:		
Material properties:	☐ free-flowing ☐ medium-flowing ☐ poor-flowing ☐ dusty ☐ abrasive ☐ friable		
	☐ sticky ☐ cohesive (caking) ☐ hanging up, bridging ☐ hygroscopic		
	☐ aeratable (flooding) ☐ toxic ☐ chemically aggressive (corrosive)		
	☐ intended for food contact / pharmaceutical product		
Particle shape:	☐ powder ☐ granules ☐ crystals ☐ flakes ☐ fibres ☐ tablets / capsules		
Product sensitivity:	☐ to particle breakage ☐ to segregation ☐ to temperature ☐ prone to static charge		
Chemical reactivity:	☐ no ☐ yes → materials not permitted in contact with product		
	(e.g. aluminium, stainless steel, silicone, polyethylene):		

If the system is to convey several products, please give data for each in the remarks or in an attachment.

+ CONSTRUCTION

Product-contact parts: ☐ stainless steel 1.4301 (AISI 304) ☐ stainless steel 1.4404 (AISI 316L)
☐ carbon steel finish: ☐ standard ☐ ground Ra < 0.8 µm
Conveying line: ☐ carbon steel ☐ stainless steel ☐ aluminium ☐ plastic
bends: ☐ long-radius ☐ wear-resistant diameter [mm]:
Pressure vessel (if any): ☐ to Pressure Equipment Directive PED (2014/68/EU) ☐ other regulations:
Requirements and certificates: ☐ FDA / (EC) No 1935/2004 ☐ GMP ☐ HACCP ☐ ATEX
Line equipment: ☐ diverter valves ☐ non-return valves ☐ magnetic separator ☐ check sieve

☀ OPERATING ENVIRONMENT AND EXPLOSION HAZARD ZONES

Location	Ambient temperature [°C]	Gases/vapours – inside	Gases/vapours – outside	Dusts – inside	Dusts – outside
Feed point	☐ 0–40 ☐ other:	☐ 0 ☐ 1 ☐ 2	☐ 1 ☐ 2	☐ 20 ☐ 21 ☐ 22	☐ 21 ☐ 22
Gas source (blower, compressor)	☐ 0–40 ☐ other:	☐ 0 ☐ 1 ☐ 2	☐ 1 ☐ 2	☐ 20 ☐ 21 ☐ 22	☐ 21 ☐ 22
Delivery point	☐ 0–40 ☐ other:	☐ 0 ☐ 1 ☐ 2	☐ 1 ☐ 2	☐ 20 ☐ 21 ☐ 22	☐ 21 ☐ 22

Please mark explosion hazard zones (ATEX) only if present; otherwise leave the fields blank.

Installation: ☐ indoors ☐ outdoors site altitude a.s.l. [m]:
Gases, flammable liquid vapours: explosion group and temperature class:
Dust parameters: dust explosion class: ☐ St 1 ☐ St 2 ☐ St 3 ☐ conductive dust (IIIC)
min. ignition energy [mJ]: Kst [bar·m/s]: Pmax [bar]:
min. ignition temp. [°C] – dust cloud: 5 mm dust layer:

🔧 CONTROL SYSTEM

Scope of supply: ☐ with control system ☐ without control system (control by customer)
HMI operator panel: ☐ no ☐ yes
Control cabinet IP65: ☐ powder-coated steel ☐ stainless steel 1.4301 (AISI 304) ☐ other:
Communication: ☐ Modbus TCP ☐ Modbus RTU ☐ EtherNet/IP ☐ PROFIBUS DP
☐ PROFINET ☐ other:

≡ INSTALLATION SITE AND ADDITIONAL REMARKS

System description: line routing, feed and delivery points, associated equipment (please attach a sketch):

Additional remarks/requirements (e.g. process description, special requirements, scope of supply, documentation, installation, commissioning):

If possible, please attach drawings, a plant layout or photos of the installation site and the material safety data sheet (SDS).