



FRAMEWORK PURCHASE CONTRACT

This framework purchase contract ("**Contract**") was concluded pursuant to section 2079 *et seq.* of the act no. 89/2012 Coll., Civil Code ("**Civil Code**") on the day, month and year stated below by and between:

(1) Institute of Physics of the Academy of Sciences of the Czech Republic, a public research institution,

with its registered office at:

Na Slovance 2, Praha 8, PSČ: 182 21,

registration no.: 68378271,

represented by: RNDr. Michael Prouza, Ph.D., director

("Buyer"); and

(2) Kurt J. Lesker Company Ltd,

with its registered office at: Austin House, Sidney Little Road Churchfields Industrial Estate St. Leonards-on-Sea TN38 9PU United Kingdom,

registration no.: 2426614,

represented by: Richard Whitehouse

("Seller").

(The Buyer and the Seller are hereinafter jointly referred to as "Parties" and individually as "Party".)

WHEREAS

- (A) The Buyer is a public contracting authority and the beneficiary of a grant of the Ministry of Education, Youth and Sports of the Czech Republic for project ADONIS - Pokročilý výzkum s využitím fotonů a částic vytvořených vysoce intenzivními lasery", reg. č. CZ.02.1.01/0.0/0.0/16_019/0000789 and other projects ("Projects"), all within the Operational Programme Research, Development and Education.
- (B) For the successful realization of Projects it is necessary to purchase the Objects of Purchase (as defined below) in accordance with Rules for the Selection of Suppliers within the Operational Programme Research, Development and Education and the Act no. 134/2016 Coll., on Public Procurement.
- (C) The Seller wishes to provide the Objects of Purchase to the Buyer for consideration.
- (D) The Seller's bid for the public procurement entitled "Vacuum valves (TP20_119) reissue", whose purpose was to procure the Objects of Purchase ("Public Procurement"), was selected by the Buyer as the most suitable.





IT WAS AGREED AS FOLLOWS:

1. **BASIC PROVISIONS**

- 1.1 Under this Contract the Seller shall (for the whole duration of this Contract), on the basis of written requests, hand over to the Buyer devices, which shall meet requirements listed in <u>Annex 1</u> (*Technical Specification*) to this Contract ("**Objects of Purchase**") and shall transfer to the Buyer ownership right to the Objects of Purchase, and the Buyer shall take over the Objects of Purchase and shall pay the Seller the Purchase Price (as defined below), all under the terms and conditions stipulated in this Contract.
- 1.2 Under this Contract the Seller shall ("**Related Activities**"):
 - a) package and transport the Objects of Purchase to the place of delivery under the conditions stipulated in <u>Annex 1</u> (*Technical Specification*) to this Contract,
 - b) verify that the Objects of Purchase meet all requirements stipulated in this Contract;
 - c) verify that the Objects of Purchase are fully functional; and
 - d) cooperate with the Buyer during the performace of this Contract.
- 1.3 The Objects of Purchase shall be supplied new (not remanufactured).

2. WRITTEN REQUESTS

- 2.1 The Seller shall supply the Objects of Purchase on the basis of written requests of the Buyer ("**Requests**").
- 2.2 In each Request the Buyer shall specify the quantity and the type of Objects of Purchase that the Buyer wishes to procure.
- 2.3 The Seller shall confirm in writing the acceptance of the Request within two working days from its receipt, at the latest.
- 2.4 By delivering the confirmation of the acceptance of the Request the individual purchase contract is concluded.
- 2.5 The Request is considered to be made in writing even if it was sent via email. The Request is considered as confirmed in writing even if it was confirmed via email.

3. NO MINIMUM QUANTITY OF THE OBJECTS OF PURCHASE

The Buyer is not obliged to order any minimum quantity of the Objects of Purchase under this Contract. The quantities stated in <u>Annex 2</u> (*Price sheet*) are indicative only (not binding).





4. **THE PLACE OF DELIVERY**

The place of delivery is at the address: ELI Beamlines, Průmyslová 836, post code 252 41, Dolní Břežany, Czech Republic or other address in Dolní Břežany specified by the Buyer prior to the delivery of Objects of Purchase.

5. **DURATION OF THE CONTRACT**

- 5.1 This Contract is concluded for the period of two years.
- 5.2 Under this Contract, the Buyer is not entitled to purchase Objects of Purchase in the total amount that exceeds 204 370 EUR. This Contract shall terminate also if this amount is reached, i.e. the Buyer cannot purchase more Objects of Purchase without breaching the maximum amount.

6. **THE TIME OF DELIVERY**

6.1 The Seller shall deliver the Objects of Purchase (with the exception of pendulum valves described in <u>Annex 1</u>, Article 6.5 and large gate valves desribed in <u>Annex 1</u>, Article 6.10) and shall carry out Related Activities within 10 weeks from the conclusion of the individual purchase contract (i.e. the delivery of the confirmation that the Request was accepted).

The pendulum valves described in <u>Annex 1</u>, Article 6.5 shall be delivered and the Related Activities shall be carried out within 15 weeks from the the conclusion of the individual purchase contract (i.e. the delivery of the confirmation that the Request was accepted).

The large gate valves described in <u>Annex 1</u>, Article 6.10 shall be delivered and the Related Activities shall be carried out within 20 weeks from the the conclusion of the individual purchase contract (i.e. the delivery of the confirmation that the Request was accepted).

- 6.2 If the Seller cannot perform this Contract in time due to the circumstances that were hard to foresee and the Seller had no control over (e.g. COVID-19 measures), the Seller shall request the Buyer for the extension of the time of delivery. Such a request shall be accompanied with the supporting evidence. In such a case, the time of delivery shall be extended for the period of time that corresponds to the duration of the unforeseen circumstances. Due to the above mentioned reasons Parties do not need to conclude an amendment to this Contract.
- 6.3 The Seller is entitled to handover the Objects of Purchase during working days between 7:30 and 17:30 hours, unless otherwise agreed by the Parties. Exact working days shall be determined on the basis of mutual agreement. If the agreement is not reached, the Seller shall perform during the last day, on which it is possible to fulfill this Contract in time and the Buyer shall provide to the Seller for this purpose necessary cooperation.

7. **THE OWNERSHIP RIGHT**

The ownership right to the Objects of Purchase shall be transferred to the Buyer upon the acceptance of the Objects of Purchase by the Buyer.

8. **PRICE AND PAYMENT TERMS**





- 8.1 The purchase price of Objects of Purchase is stated in <u>Annex 2</u> (*Price sheet*) to this Contract ("**Purchase Price**").
- 8.2 The Purchase Price cannot be exceeded and includes all costs and expenses of the Seller related to the performance of this Contract. The Purchase Price includes, among others, all expenses related to the handover of the Objects of Purchase and execution of Related Activities, costs of copyright, insurance, customs, warranty service and any other costs and expenses connected with the performance of this Contract.
- 8.3 The Purchase Price for the Objects of Purchase shall be paid in EUR on the basis of a tax document invoice, to the account of the Seller designated in the invoice.
- 8.4 The Purchase Price shall be paid after the acceptance of the Objects of Purchase by the Buyer. The copy of the acceptance protocol must be attached to the invoice.
- 8.5 The Buyer shall realize payments on the basis of duly issued invoices within 30 days from their receipt. The invoice shall be considered to be paid for on the day when the invoiced amount is deducted from the Buyer's account on behalf of the Seller's account.
- 8.6 The invoice issued by the Seller as a tax document must contain all information required by the applicable laws of the Czech Republic. Invoices issued by the Seller in accordance with this Contract shall contain in particular following information:
 - a) name and registered office of the Buyer,
 - b) tax identification number of the Buyer,
 - c) name and registered office of the Seller,
 - d) tax identification number of the Seller,
 - e) registration number of the tax document,
 - f) scope of the performance (including the reference to this Contract),
 - g) the date of the issue of the tax document,
 - h) the date of the fulfilment of the Contract,
 - i) Purchase Price,
 - j) registration number of this Contract, which the Buyer shall communicate to the Seller based on Seller's request before the issuance of the invoice, and
 - k) declaration that the performance of the Contract is for the purposes of a certain project (the Seller shall ask the Buyer for the indentification data of the project prior to issuing the invoice).
- 8.7 In case that the invoice shall not contain the above mentioned information, the Buyer is entitled to return it to the Seller during it maturity period and this shall not be considered as a default. The new maturity period shall begin from the receipt of the supplemented or corrected invoice to the Buyer.





8.8 Last invoice of every calendar year must be delivered to the Buyer on December 15 of that calendar year, at the latest.

9. **SELLER'S DUTIES**

- 9.1 The Seller shall ensure that the Objects of Purchase and Related Activities are in compliance with this Contract including all its annexes and applicable legal (e.g. safety), technical and quality norms.
- 9.2 During the performance of this Contract the Seller proceeds independently. If the Seller receives instructions from the Buyer, the Seller shall follow such instructions unless these are against the law or in contradiction to this Contract. If the Seller finds out or should have found out if professional care was exercised that the instructions are for any reason inappropriate or illegal or in contradiction to this Contract, then the Seller must notify the Buyer.
- 9.3 All things necessary for the performance of this Contract shall procure the Seller, unless this Contract stipulates otherwise.

10. ACCEPTANCE OF THE OBJECTS OF PURCHASE

10.1 If the Objects of Purchase do not meet requirements of this Contract, the Buyer is entitled to refuse the takeover of the Objects of Purchase. In such a case the Seller shall remedy the deficiencies within ten (10) working days, unless Parties agree otherwise. The Buyer is entitled (but not obliged) takeover the Objects of Purchase despite the above mentioned deficiencies, in particular if such deficiencies do not prevent the Buyer in the proper use of the Objects of Purchase. In such a case the Seller and the Buyer shall list the deficiencies in the acceptance protocol, including the manner and the date of their removal (remedy). If the Parties do not reach agreement in the Handover Protocol regarding the date of the removal, the Seller shall remove the deficiencies within ten (10) working days.

11. WARRANTY

- 11.1 The Seller shall provide a warranty of quality of the Objects of Purchase for the period of 2 years. If on the warranty list or other document is the warranty period of longer duration, then this longer warranty period shall have priority over the period stated in this Contract.
- 11.2 The warranty period shall begin on the day of the signature of the acceptance protocol. If the acceptance protocol lists any deficiencies, the warranty period shall begin on the day, which follows the day, in which the last deficiency was removed.
- 11.3 The Seller shall remove defects that occur during the warranty period free of charge and in the terms stipulated in this Contract.
- 11.4 If the Buyer ascertains a defect of the Objects of Purchase during the warranty period, the Buyer shall notify such defect without undue delay to the Seller. Defects may be notified on the last day of warranty period, at the latest.





- 11.5 The Buyer notifies defects in writing via e-mail. The Seller shall accept notifications of defects on the following e-mail address: michalp@lesker.com. The Seller shall confirm within 24 hours from the receipt of the notification.
- 11.6 In the notification the Buyer shall describe the defect and the manner of removal of the defect. The Buyer has the right to:
 - a) ask for the removal of the defect by the delivery of new Objects of Purchase or its individual parts, or
 - b) ask for the removal of the defect by repair, or
 - c) ask for the reasonable reduction of the Purchase Price.

The choice among the above mentioned rights belongs to the Buyer. The Buyer is also entitled to withdraw from this Contract, if by delivering the Objects of Purchase with defects this Contract is substantially breached.

- 11.7 The Seller shall remove the defect within 4 weeks from its notification, unless Parties agree due to the nature of the defect otherwise.
- 11.8 The Seller shall remove the defect within terms stipulated in this Contract even if the notification of the defect is in his opinion unjustified. In such a case the Seller is entitled to ask for reimbursement of the costs of removal of the defect. If Parties disagree on whether the notification of the defect is justified or not, the Buyer shall ask an expert for the expert's opinion, which shall determine whether the notification of the defect was justified or not. In the case that the expert shall consider the notification as justified, then the Seller shall bear costs of the expert's opinion. If the expert considers the notification to be unjustified, then the Buyer shall reimburse the Seller for verifiably and effectively incurred costs of removal of the defect.
- 11.9 Parties shall execute a protocol on the removal of the defect, which shall contain the description of the defect and the confirmation that the defect was removed. The warranty period shall be extended by a period of time that elapses between the notification of the defect until its removal.
- 11.10 In case that the Seller does not remove the defect within stipulated time or if the Seller refuses to remove the defect, then the Buyer is entitled to remove the defect at his own costs and the Seller shall reimburse these costs within 10 days after the Buyer's request to do so.
- 11.11 The warranty does not cover defects caused by unprofessional manipulation or by the failure to follow Seller's instructions for the operation and maintanence of the Objects of Purchase.

12. **PENALTIES**

- 12.1 If the Seller is in delay with the removal of the defect, the Seller shall pay to the Buyer a contractual penalty in the amount of 0,05% of the Purchase Price for every (even commenced) day of delay.
- 12.2 The Seller shall pay contractual penalties within fifteen (15) days from the day, on which the Buyer enumerated its claims. The payment of contractual penalties shall not affect the right of the Buyer to damages even to the extent to which such damages exceeds the contractual penalty.





12.3 The Buyer is entitled to unilaterally set off claims arising from the contractual penalties against the claim of the Seller for the payment of the Purchase Price (regardless of whether such claims for payment are payable or not).

13. **TERMINATION BY NOTICE**

- 13.1 The Buyer is entitled to terminate this Contract by a written notice anytime without stating its reasons.
- 13.2 The notice period is one (1) month and shall start on the first day of the month that follows the month in which the Seller received the written notice.

14. **RIGHT OF WITHDRAWAL**

- 14.1 The Buyer is entitled to withdraw from this Contract or individual purchase contracts without any penalties, if any of the following circumstances occur:
 - d) the Seller shall be in delay with the delivery of the Objects of Purchase and such delay lasts more than 3 weeks;
 - e) the insolvency proceeding is initiated against the Seller; or
 - f) the Buyer ascertains that the Seller provided in its bid for the Public Procurement information or documents that do not correspond to the reality and that had or could have had impact on the result of the award procedure, which preceded the conclusion of this Contract.

15. SPECIAL PROVISIONS

By signing this Contract, the Seller becomes a person that must cooperate during the finance control within the meaning of Section 2 letter e) of the act no. 320/2001 Coll., on finance control in the public administration, and shall provide to the Directing Body of the Operational Programme Research, Development and Education or other control bodies acces to all parts of the bid, Contract or other documents that are related to the legal relationship formed by this Contract. This duty also covers documents that are subject to the protection in accordance with other acts (business secrets, secret information, etc.) provided that control bodies fulfil requirements stipulated by these acts. The Seller shall secure that all its subcontractors are also obliged to cooperate with control bodies in the above stipulated extent. The possibility of effective control must be preserved until the year 2033.

16. **CONFIDENTIALITY**

16.1 Parties shall not disclose information that shall become available to them in connection with this Contract and its performance and whose disclosure could harm the other Party. Duties of the Buyer ensuing for the applicable legal regulations remain unaffected. The Seller is particularly aware that the Buyer must made this Contract including all its annexes publicly available in accordance with the act no. 134/2016 Coll., on Public Procurement and act no. 340/2015 Coll., on the register of contracts.





17. **FINAL PROVISIONS**

- 17.1 This Contract is governed by the laws of the Czech Republic, especially by the Civil Code.
- 17.2 All disputes arising out of this Contract or out of legal relations connected with this Contract shall be preferable settled by a mutual negotiation. In case that the dispute is not settled within sixty (60) days, such dispute shall be decided by courts of the Czech Republic in the procedure initiated by one of the Parties.
- 17.3 The Seller bears the risk of changed circumstances within the meaning of Section 1765 of the Civil Code.
- 17.4 The Seller takes into account that the Buyer is not in relation to this Contract an entrepreneur, nor the subject matter of this Contract is connected with the business activities of the Buyer.
- 17.5 The Seller is not entitled to set off any of its claims or his debtor's claims against the Buyer's claims. The Seller is not entitled to transfer its claims against Buyer that arose on the basis or in connection with this Contract on third parties. The Seller is not entitled to transfer rights and duties from this Contract or its part on third parties.
- 17.6 All modifications and supplements of this Contract must be in writing.
- 17.7 If any of provisions of this Contract are invalid or ineffective, the Parties are bound to change this Contract is such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent correspond to the original invalid or ineffective provision.
- 17.8 If any Party breaches any duty under this Contract and knows or should have known about such breach, it shall notify it to the other Party and shall warn such Party of possible consequences of the breach.
- 17.9 This Contract is executed in four (4) counterparts and every Party shall receive two (2) counterparts.
- 17.10 An integral part of this Contract is <u>Annex 1</u> (*Technical Specification*) and <u>Annex 2</u> (*Price sheet*). If in <u>Annex 1</u> (*Technical Specification*) is used term "Contracting Authority", it is meant Buyer and by term "supplier" is meant the Seller.
- 17.11 This Contract shall be valid on the date of the signature of both Parties and effective on the day, on which it was published in the register of contracts within the meaning of the act no. 340/2015 Coll., on the register of contracts.

IN WITNESS WHEREOF attach Parties their handwritten signatures:

Buyer

Signature:

Name: RNDr. Michael Prouza, Ph.D.



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Position: director

Date:

Seller

Signature:

Name: Richard Whitehouse

Position: EMEIA Compliance and Commercial Manager Date: 26th April 2021



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ANNEX 1 TECHNICAL SPECIFICATION



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PBS code		4, Beam Transport ar framework contract.	nd Experimental halls will The future PBS codes will BDS and E.E[x]			
Project branch	Engineering & Scientific	documents (E&S)				
Document Type	Specification (SP)					
Vacuum valves (TP20_119) – reissue						
	_	words				
	_	words				
	_	s, particles, flange	Name			
Responsible person	vacuum, valves	s, particles, flange n	Name Lukáš Brabec			









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	Approved				
Name (Approver)	Position	Position			Signature
Martin Laub	Chief Engineer				
Lukáš Brabec	Group Leader of Va	ruum	- <u>Viz TC</u>		

Reviewed By						
Name (Reviewer)	Position	Date	Signature			
Luboš Nims	Head of Electrical Engineering	NOT	ICE			
Lucie Kaletusová	Clean room specialist	NOTICE				
Jack Naylon	Team Leader Control system group	NOTICE				
Ladislav Půst	Manager installation of technology	NOTICE				
Petr Vobořil	Designer	NOT	ICE			
Veronika Olšovcová	Safety Coordinator	NOT	ICE			
Viktor Fedosov	Quality Manager	NOT	ICE			
Martin Laub	Chief Engineer	NOT	ICE			

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3	D.Hanusková	08.09.2020	RSD approved, final version	С			











Fyzikální ústav AV ČR, v. v. i., Na Slovance 2, 182 21 Praha 8

info@eli-beams.eu | www.eli-beams.eu

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1. Introduction

1.1. Purpose

This Requirements Specification Document (RSD) lists the technical requirements and constraints on product/device (**Vacuum valves**) of ELI Beamlines. This can lead to the identification of product interfaces with the ELI science-based technology and ELI building facility. This RSD also acts as the parent document for the technical requirements that need to be addressed in lower level design description documents.

1.2. General description

Vacuum valves will be a part of an extended vacuum system that centrally provides backing and roughing vacuum to large vacuum vessels at ELI Beamlines facility. The valves will provide sealed separation between two regions with different pressures. Vacuum valves will be used for applications under high vacuum or ultra-high vacuum. The vacuum valves categorized according to the type of flange, drive and applicable pressure range.

1.3. Scope

This RSD contains all of the technical requirements: *functional, performance, operational and design, transportation, safety and quality requirements* for the product/device **Vacuum valves.** The PBS codes are not known at the moment.

This product is a product of the **category A**. The category A is an off-the-shelf product without necessity of modifications and necessity to be subjected to a verification program (design, inspection and testing review) according to the ELI Beamlines project. All verification activities shall be executed by Supplier in accordance with the supplier's outgoing inspection plan.

1.4. Terms, Definitions and Abbreviations

For the purpose of this document, the following abbreviated terms apply:

Abbreviation	Meaning
ELI	Extreme Light Infrastructure
HV	High Vacuum
TMP	Turbo Molecular Pump
SS	Stainless Steel
AI	Aluminium
DN	Diameter Nominal
CA	Contract Authority











2. General Functional, Performance and Design requirements

REQ-023170/A

Sizes, types of flanges, actuators and drives shall be according to ANNEX I.

REQ-023171/A

Maximum leak rate shall be according to ANNEX I.

REQ-023172/A

Differential pressure at opening of valves shall be according to ANNEX I.

- REQ-023173/A It shall be possible to install and operate the vacuum valves in any mounting position.
- REQ-023174/A

Gate valves specified in chapter 6.5 of ANNEX I (*Gate valve - Al – pneumatic actuator*) shall be compatible with TMP mounting.

REQ-023175/A

Gate valves specified in chapter 6.6 of ANNEX I (*Gate valve - SS – pneumatic actuator*) shall be compatible with TMP mounting.

REQ-023176/A

All solenoids valves specified in ANNEX I shall use 24V DC power supply.

REQ-023177/A

The maximal amount of particles (particles bigger than 300 nm) generation of the valve during one cycle shall be according to ANNEX I.

REQ-023178/A

The electro-pneumatic valves shall be closed (NC-normally closed) during a power outage and/or interruption in the supply of compressed air.

REQ-023179/A

The valves specified in ANNEX I (6.1, 6.3, 6.5, 6.6, 6.7, 6.9, 6.10) shall be equipped with an electro-pneumatic actuator with OPEN/CLOSED limit switches and with the possibility of connection to the control system. Connection type shall be specified e.g. DIN 7 pin etc.

REQ-023180/A

Maximum closing or opening time shall be according to ANNEX I.

REQ-023181/A

Valve body material shall be according to ANNEX I.

REQ-023182/A

Valves with pneumatic actuator shall work at (or operate at min) pressure (5-6) bar.

REQ-023185/A

Valves sealing surfaces shall be without scratches.





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3. Transportation requirements

REQ-023183/A

Valves shall be assembled and packed in cleanroom environment ISO 8 according to standard ČSN EN ISO 14644 (or equivalent, e.g. EN ISO 14644) or cleaner.

REQ-023186/A

The transportation to the final destination of the technologies and the instruments shall be conducted by the supplier.

REQ-023187/A

The technologies and instruments shall be delivered in protective package preventing damage and contamination.

4. Product Safety Requirements

REQ-023188/A

The Supplier shall supply a **Declaration of Conformity** or any other equivalent document legally recognized and accepted in the Czech Republic for each product type if the appropriate legislation determines the Supplier's obligation to have a Declaration of Conformity (or the equivalent document) for the purposes of a Device sale in the Czech Republic to fulfil the requirements of 2001/95/EC directive or applicable Czech law.

5. Product Quality Requirements

REQ-023189/A

The Supplier shall provide **Instructions for use** (Product User Manual) as part of the delivered Product. The Instructions for use shall include the instructions and descriptions regarding the following:

- transport and handling;
- storage and installation;
- safe operation and maintenance procedures.

REQ-023190/A

The Supplier shall supply the **3D model and 2D sketch**.

REQ-023195/A

The Supplier shall use following data formats:

- *.JPG, *.PNG, *.PDF/A, *.HTML;
- CAD 2D: *.dwg;
- CAD 3D: STEP file types (*.stp;*.ste;*.step);
- text processors *.doc, *.docx, OpenDocument Format;
- spreadsheet processors *.xls, *.xlsx, OpenDocument Format;
- presentations *.ppt, *.pptx; OpenDocument Format.









REQ-023191/A

The Supplier shall provide information on executed of outgoing check of the Product. At least this information shall comprise declaration about execution of outgoing check and **declaration of conformity with technical requirements** defined by the product RSD and completeness of the Product.

NOTE: Alternatively the Supplier might provide the CA with information (e.g.: catalogue/technical data sheets, product manuals or other similar documentation) if such documentation is detailed enough to prove meeting all requirements stipulated herein.

REQ-023192/A

The Supplier shall establish and maintain a non-conformance control system compatible with ČSN EN ISO 9001 (equivalent to EN ISO 9001).

5.1. International standards

REQ-023193/A

Valves shall be equipped with ISO F or ISO K flange according to ISO 1609:2020 - Vacuum technology - Flange dimension.

REQ-023194/A

Valves shall be equipped with ISO KF flange according to ISO 2861:2013 - Vacuum technology - Dimensions of clamped - type quick-release couplings.









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6. ANNEX I

6.1. HV Angle valve - AI – pneumatic actuator

DN	DN16	DN25	DN40	DN50		
Body material	Aluminium					
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)		
Body shape	Angle	Angle	Angle	Angle		
Feedthrough	Bellows	Bellows	Bellows	Bellows		
Solenoid valve [VDC]	24	24	24	24		
Min. differential pressure at opening [mbar]	1000	1000	1000	1000		
Minimal cycles until first service	9·10⁵	9·10⁵	9·10⁵	9·10 ⁵		
Max. leak rate [mbar. ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹		
Max. consumption of compressed air [l/stroke]	0,02	0,025	0,05	0,06		
Position indicator	YES	YES	YES	YES		
Max. closing time [s]	0,2	0,3	0,7	0,8		
Max. particles generation of the valve	20					

Tab. 1 Specification – HV Angle valves Al – pneumatic actuator







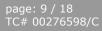




6.2. HV Angle valve - Al - manual actuator

DN	DN16	DN25	DN40	DN50			
Body material	Aluminium						
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)			
Body shape	Angle	Angle	Angle	Angle			
Feedthrough	Bellows	Bellows	Bellows	Bellows			
Min. differential pressure at opening [mbar]	1000	1000	1000	1000			
Minimal cycles until first service	8000	8000	8000	8000			
Max. leak rate [mbar. ls⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹			
Actuator	Handwheel						
Max. particles generation of the valve		2	0				

Tab. 2: Specification – HV Angle valves Al – manual actuator













6.3. HV Inline valves - Al – pneumatic actuator

DN	DN16	DN25	DN40		
Body material	Aluminium				
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)		
Body shape	Inline	Inline	Inline		
Feedthrough	Bellows	Bellows	Bellows		
Solenoid valve [VDC]	24	24	24		
Min. differential pressure at opening [mbar]	1000	1000	1000		
Minimal cycles until first service	9·10 ⁵	9·10 ⁵	9·10 ⁵		
Max. leak rate [mbar. ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹		
Max. consumption of compressed air [l/stroke]	0,02	0,025	0,05		
Position indicator	YES	YES	YES		
Max. closing time[s]	0,2	0,3	0,7		
Max. particles generation of the valve	20				

Tab. 3: Specification – HV Inline valves Al – pneumatic actuator











6.4. HV Inline valves - Al - manual actuator

DN	DN16	DN40				
Body material	Aluminium					
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)			
Body shape	Inline	Inline	Inline			
Feedthrough	Bellows	Bellows	Bellows			
Min. differential pressure at opening [mbar]	1000	1000	1000			
Minimal cycles until first service	8000	8000	8000			
Max leak rate [mbar. Is⁻¹]	5·10 ⁻⁹ 5·10 ⁻⁹		5·10 ⁻⁹			
Actuator	Handwheel					
Max. particles generation of the valve	20					

Tab. 4: Specification – HV Inline valves Al – manual actuator









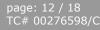




6.5. Pendulum valve - Al – pneumatic actuator

DN	DN400	DN500		
Body material	Aluminium			
Flange	ISO-F (according to ISO 1609)	ISO-F (according to ISO 1609)		
Body shape	Pendulum	Pendulum		
Solenoid valve [VDC]	24	24		
Min. differential pressure at opening [mbar]	2	2		
Minimal cycles until first service	150000	150000		
Max. leak rate [mbar ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹		
Max. consumption of compressed air [l/stroke]	1	4		
Position indicator	YES	YES		
Max. closing time[s]	10	20		
Max. particles generation of the valve [nm]	1200			

Tab. 5: Specification - Pendulum valves Al - pneumatic actuator







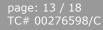




6.6. Gate valve - SS - pneumatic actuator

DN	DN63	DN80	DN100	DN160	DN200	DN250	DN320		
Body material	Stainless steel								
Flange	ISO-F (according to ISO 1609)								
Body shape	Gate								
Feedthrough	Bellows / rotary	Bellows / rotary	Bellows	Bellows	Bellows	Bellows	Bellows		
Solenoid valve [VDC]	24	24	24	24	24	24	24		
Min. differential pressure at opening [mbar]	25	25	25	25	25	25	25		
Minimal cycles until first service	150000	150000	150000	150000	150000	150000	150000		
Max. leak rate [mbar.ls ⁻¹]	5·10 ⁻⁹								
Max. consumption of compressed air [l/stroke]	0,2	0,2	0,3	0,3	0,5	0,5	0,7		
Position indicator	YES								
Max. closing time[s]	2,5	2,5	3	4	8	8	10		
Max. particles generation of the valve Tab. 6: Spec	ification	1200							

Tab. 6: Specification – Gate valves SS – pneumatic actuator











6.7. Angle valve with soft-pump function - AI - pneumatic actuator

DN	DN25	DN40	DN50	DN63	DN80	DN100	DN160		
Body material				Aluminium					
Flange	ISO-KF (according to ISO 2861)	ng (according (accord		ISO-K (according to ISO 1609)	ISO-K (according to ISO 1609)	ISO-K (according to ISO 1609)	ISO-K (according to ISO 1609)		
Body shape	Angle	Angle	Angle	Angle	Angle	Angle	Angle		
Solenoid valve [VDC]	24	24	24	24	24	24	24		
Min. differential pressure at opening [mbar]	1000	1000	1000	1000	1000	1000	1000		
Minimal cycles until first service	9·10⁵	9·10⁵	9·10⁵	9·10 ⁵	9·10⁵	9·10 ⁵	9·10⁵		
Max. leak rate [mbar. ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹		
Max. consumption of compressed air [l/stroke]	0,03	0,05	0,07	0,25	0,25	0,5	1,2		
Position indicator	YES	YES	YES	YES	YES	YES	YES		
Max. closing time[s]	0,35	0,8	0,9	1	1	1,5	3,5		
Max. particles generation of the valve	150								

Tab. 7: Specification - Soft start valves Al – pneumatic actuator





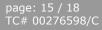




6.8. Manually actuated venting valve

DN	DN10
Body material	Stainless steel
Flange	ISO-KF (according to ISO 2861)
Min. differential pressure on plate in opening direction [mbar]	1000
Max leak rate – valve seat [mbar. ls ⁻¹]	5·10 ⁻⁹

Tab. 8: Specification – Manually actuated venting valves











6.9. Mini vacuum gate valve for flange KF - Al - pneumatic actuator

DN	DN16 DN25 DN40 DN5							
Body material	Aluminium							
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)				
Body shape	Gate	Gate	Gate	Gate				
Feedthrough	Shaft feedthrough	Shaft feedthrough	Shaft feedthrough	Shaft feedthrough				
Solenoid valve [VDC]	24	24	24	24				
Min. differential pressure at opening [mbar]	25	25	25	25				
Minimal cycles until first service	30000	30000	30000	30000				
Max. leak rate [mbar. ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹	5·10 ⁻⁹				
Max. consumption of compressed air [l/stroke]	0,05	0,08	0,1	0,1				
Position indicator	YES	YES	YES	YES				
Max. closing time [s]	1	1,5	1,8	2				
Max. particles generation of the valve	150							

Tab. 9: Specification – Mini vacuum gate valve for KF AI – pneumatic actuator





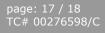




6.10. Large gate valve - pneumatic actuator

	DN	DN630				
Valve body materia	Stainless steel					
Flange	ISO-F (according to ISO 1609)					
Body shape		Gate				
Feedthrough		Bellows				
Solenoid valve [VD	PC]	24				
Min. differential pr [mbar]	essure at opening	8				
Minimal cycles unt	20000					
Max. leak rate [mb	5·10 ⁻⁹					
Max. consumption [l/stroke]	5					
Position indicator	contact	YES				
Position indicator	visual (mechanical)	YES				
Max. closing time	[s]	15				
Working position	ANY					
Max. weight [kg]	500					
Max. dimension wi actuator L x W x H	1100 x 310 x 2000					

Tab. 10: Specification – Large gate valve - pneumatic actuator.











6.11. HV Angle valve - Al - manual actuator, with position indicator

DN	DN25	DN40			
Body material	Alumi	inium			
Flange	ISO-KF (according to ISO 2861)	ISO-KF (according to ISO 2861)			
Body shape	Angle	Angle			
Feedthrough	Bellows	Bellows			
Min. differential pressure at opening [mbar]	1000	1000			
Minimal cycles until first service	8000	8000			
Max. leak rate [mbar. ls ⁻¹]	5·10 ⁻⁹	5·10 ⁻⁹			
Actuator	Handwheel				
Max. particles generation of the valve	20				
Position indicator	YES				

Tab. 11 Specification - HV Angle valves Al - manual actuator, with position indicator











EUROPEAN UNION European Structural and Investing Funds Operational Programme Research, Development and Education



ANNEX 2 PRICE SHEET

6.1. be/Addge value: Al-potentic actuator 25 50-647 Automium VAI Group Add VAI Streins 28.4 2433 84.41000 0 3 308.824 373.84 928.75 110.17 6.2. 11V Augle value: Al - manual actuator 50 50-647 Automium VVI Group Ad VVI Streins 28.4 2433 44.0100 0 1 373.64 928.75 110.17 433.6 303.82 373.84 120.75 110.17 433.6 100.17 433.6 100.25 110.17 433.6 100.17 433.6 100.25 110.17 433.6 100.25 110.17 433.6 100.17 <th></th> <th>Vacuum valves</th> <th>1</th> <th></th>		Vacuum valves	1											
6.1. HV Argle valve - A - pseumate setuator 16 Box A Juminian VVT Group AG VVT Serves XA 2842-844.000 0 1 1 Process Pro		Туре	DN	Flange	Body material	Manufacturer	Trade name of the product	Ordering number		<u> </u>				· ·
6.1. NFA degle value: Al - pneumatic actuator 25 50-57 Aumatian VAI Group Add VAI Streis 28.4 3423 Addition 0 3 308.82 373.83 92.87.6 110.17 6.1. MV Argine value: Al - pneumatic actuator 50 50-57.8 Aumatian VVI Group Add VVI Streis 28.4 2424 Addition 0 1 373.64 92.87.6 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 433.6 100.2 110.17 100.17 <td>I</td> <td></td> <td>16</td> <td>ISO-KF</td> <td>Aluminium</td> <td>VAT Group AG</td> <td>VAT Series 26.4</td> <td>26424-KA41-000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	I		16	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26424-KA41-000						
interm	c 1		25		Aluminium	VAT Group AG	VAT Series 26.4	26428-KA41-000	0	3				
6.2. 16 0.0.4* Aunimum VAT Group AG VAT Series 26.4 2624-800.00 0 1 191.38 170.95 191.38 170.95 191.38 170.95 191.38 170.95 191.38 170.95 191.38 170.95 191.38 170.95 17	0.1.	HV Angle valve - AI – pheumatic actuator	40	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26432-KA41-000	0	5	326.47€	395.03€	1,632.35€	1,975.15€
6.2. If Marge wher -Al - manual actuator 25 100 × 10 VAT Group Ada VAT Series 2A. 2042 × 40.000 0 1 101 / 102 × 102 × 100 ×			50	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26434-KA41-000	0	1	379.41€	459.09€	379.41€	459.09€
O. A. Invalue Invalue <thinvalue< th=""> <thinvalue< th=""> <thin< td=""><td></td><td></td><td>16</td><td>ISO-KF</td><td>Aluminium</td><td>VAT Group AG</td><td>VAT Series 26.4</td><td>26424-KA01-000</td><td>0</td><td>1</td><td>141.18€</td><td>170.82€</td><td>141.18€</td><td>170.82€</td></thin<></thinvalue<></thinvalue<>			16	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26424-KA01-000	0	1	141.18€	170.82€	141.18€	170.82€
image: bit image: bi	6.2	HV Angle valve AI - manual actuator	25	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26428-KA01-000	0	1	167.65€	202.85€	167.65€	202.85€
6.3. If Vinite values - Al - pneumatic actuator 16 8.9.47 Aluminium VAT Group AG VAT Series 2.5 25524-A41.000 0 1. 332.24 4.27.05 332.34 <th< td=""><td>0.2.</td><td>The Angle valve - Al – Inditual actuator</td><td>40</td><td>ISO-KF</td><td>Aluminium</td><td>•</td><td></td><td></td><td>0</td><td>5</td><td>211.76€</td><td></td><td>1,058.82€</td><td>1,281.18€</td></th<>	0.2.	The Angle valve - Al – Inditual actuator	40	ISO-KF	Aluminium	•			0	5	211.76€		1,058.82€	1,281.18€
6.3. If Vinite values - Al - preunatic actualor 15 0.0-0F Atuminium VAT Group AG VAT Striets 2.5 25238-AAL-000 0 1 338.24 (49.77 338.24 (49.77 6.4. 10 0.0-0F Atuminium VAT Group AG VAT Striets 2.5 25338-AAL-000 0 1 338.24 (49.77 338.24 (49.77 338.24 (49.77) 6.4. 10 0.0-0F Atuminium VAT Group AG VAT Striets 2.5 25338-AAD-00 0 1 270.05 (20.91) 270.95 (20.91) 270.95 (20.91) 270.95 (20.91) 270.95 (20.91) 270.95 (20.92) 270.95 (20.9			50	ISO-KF	Aluminium	VAT Group AG		26434-KA01-000	0	1	291.18€	352.32€	291.18€	352.32€
Image: bit image: bi			16	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.5	26524-KA41-000	0	1	352.94 €	427.06€	352.94€	2 427.06€
6.4. HV Inline valves - AI - manual actuator 15 500.45 Auminium VMT Group AG VMT Series 26.5 2552 FA01.000 0 1 220.99	6.3.	HV Inline valves - Al – pneumatic actuator	25		Aluminium				0	1	388.24€	469.76€		
6.4. HV Inline values -AI - manual actuator 25 10.00000000000000000000000000000000000			40	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.5	26532-KA41-000	0	1	405.88€	491.12€	405.88€	491.12€
Image: border			16	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.5	26524-KA01-000	0	1	220.59€	266.91€	220.59€	266.91€
6.5. Pendulum valve - Al - pneumatic actuator 400 150-F Aluminium VAT Group AG VAT Series 16.2 16322-PA41 0 1 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02 12/04/321 20.85/02	6.4.	HV Inline valves - Al – manual actuator	25	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.5	26528-KA01-000	0	1	247.06€	298.94 €	247.06€	298.94€
b.5. Pendulun valve : Al – pneumatic actuator 500 Sort Aurminum VAT Group AG VAT Series 15.2 12354 PA41 0 1 20,470.05 24,982.91 20,417.05 24,982.91 20,417.05 24,982.91 20,417.05 24,982.91 20,417.05 24,982.91 20,413.03 21,433.91 20,413.03 21,433.91 20,413.03 21,433.91 20,413.03 21,433.91 20,413.03 21,433.91			40	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.5	26532-KA01-000	0	1	291.18€	352.32€	291.18€	352.32€
6.6. Normality Out or part of the	6 E	Dondulum value Al provincia actuator	400	ISO-F	Aluminium	VAT Group AG	VAT Series 16.2	16252-PA41	0	1	17,243.82€	20,865.02€	17,243.82€	20,865.02€
6.6. 80 80.4 80.4 80.4 80.4 80.4 80.4 9	0.5.	Pendulum valve - Al – pheumatic actuator	500	ISO-F	Aluminium	VAT Group AG	VAT Series 16.2	16254-PA41	0	1	20,647.05€	24,982.93€	20,647.05€	24,982.93€
6.6. 0 1 2,432.94 2,293.04 2,432.94 2,293.04 2,293.05			63	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11036-PE44-000	0	1	2,013.53€	2,436.37€	2,013.53€	2,436.37€
6.6. Gate valve - SS - pneumatic actuator 160 BO-F Stainless steel VAT Group AG VAT Series 11 11044-Ft44000 0 1 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,33 € 3,38.9.2 € 3,168,34 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.9.2 € 3,168,37 € 3,38.3.9.2 € 3,168,37 € 3,18.37			80	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11038-PE44-000	0	1	2,452.94 €	2,968.06€	2,452.94 €	2,968.06€
Provide Statiles VAT Group AG VAT Series 11 10464-F64-000 0 1 4,271.47 5,68.47 5,68.47 5,68.47 20 50-F Statiles stee VAT Group AG VAT Series 11 10464-F64-000 0 1 64,70.76 64,70.76 64,70.76 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 64,70.76 7,81.30.4 7,97.67 <td< td=""><td></td><td></td><td>100</td><td>ISO-F</td><td>Stainless steel</td><td>VAT Group AG</td><td>VAT Series 11</td><td>11040-PE44-000</td><td>0</td><td>1</td><td>2,452.94 €</td><td>2,968.06€</td><td>2,452.94 €</td><td>2,968.06€</td></td<>			100	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11040-PE44-000	0	1	2,452.94 €	2,968.06€	2,452.94 €	2,968.06€
250 150-F 5tainless steel VAT Group AG VAT Series 11 11048-PE44-000 0 1 6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (6.457.06 (7.813.04 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (9.026.07 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (10.922.03 (<t< td=""><td>6.6.</td><td>Gate valve - SS – pneumatic actuator</td><td>160</td><td>ISO-F</td><td>Stainless steel</td><td>VAT Group AG</td><td>VAT Series 11</td><td>11044-PE44-000</td><td>0</td><td>1</td><td>3,168.53€</td><td>3,833.92€</td><td>3,168.53€</td><td>3,833.92€</td></t<>	6.6.	Gate valve - SS – pneumatic actuator	160	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11044-PE44-000	0	1	3,168.53€	3,833.92€	3,168.53€	3,833.92€
Image: bit is series in the series			200	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11046-PE44-000	0	1	4,271.47€	5,168.48€	4,271.47€	5,168.48€
6.7. 25 150-KF Aluminium VAT Group AG VAT Series 29 29028-KA1-000 0 1 796-76 € 964.09 € 776-76 € 976-76			250	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11048-PE44-000	0	1	6,457.06€	7,813.04€	6,457.06€	7,813.04€
40 ISO-KF Aluminium VAT Group AG VAT Series 29 2903-KA41-000 0 1 937.94 (1,134.91 (937.91 (1,283.			320	ISO-F	Stainless steel	VAT Group AG	VAT Series 11	11050-PE44-000	0	1	9,026.47 €	10,922.03 €	9,026.47 €	10,922.03€
50 ISO-KF Aluminium VAT Group AG VAT Series 29 29034-KA41-000 0 1 1,061.47 € 1,284.38 € 1,061.48 € 1,284.38 € 1,284.38			25	ISO-KF	Aluminium	VAT Group AG	VAT Series 29	29028-KA41-000	0	1	796.76€	964.09€	796.76€	964.09€
6.7. Angle valve with soft-pump function - Al – pneumatic actuator 63 ISO-K Aluminium VAT Group AG VAT Series 29 29036-QA41-000 0 1 1,200.000 1,452.000 1,200.000 1,452.000 1,200.000 1,452.000 1,200.000 1,452.000 1,200.00			40	ISO-KF	Aluminium	VAT Group AG	VAT Series 29	29032-KA41-000	0	1	937.94 €	1,134.91€	937.94 €	1,134.91€
80 80 80 80 80 80 VAT Group AG VAT Group AG VAT Series 29 29038-QA41-000 0 1 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76€ 1,288.24€ 1,588.76 6,630.0 6.8 Manually actuated venting valve 10 ISO-KF Aluminium VAT Group AG VAT Series 21.3 21320-KE01-000 0 1 109.41 € 132.39 109.41 € 90.64.3 90.64.3 90.64.3 90.64.3 90.64.3 90.64.3 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64.3 € 90.64			50	ISO-KF	Aluminium	VAT Group AG	VAT Series 29	29034-KA41-000	0	1	1,061.47€	1,284.38€	1,061.47€	1,284.38€
100 ISO-K Aluminium VAT Group AG VAT Series 29 29240-QA41-000 0 3 1,826.7 € 2,210.3 € 5,479.41 € 6,630.0 6.8. Manually actuated venting valve 10 ISO-K Aluminium VAT Group AG VAT Series 29 29240-QA41-000 0 3 1,826.7 € 2,210.3 € 5,479.41 € 6,630.0 6.8. Manually actuated venting valve 10 ISO-K Stainless steel VAT Group AG VAT Series 21.3 21320-KE01-000 0 1 109.41 € 132.39 109.41 € 90.64.3 6.9. Mini vacuum gate valve for flange KF - Al – pneumatic actuator 10 ISO-KF Aluminium VAT Group AG VAT Series 012 01224-KA44-000 0 1 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € 749.12 € 90.64.3 € <t< td=""><td>6.7.</td><td>Angle valve with soft-pump function - Al – pneumatic actuator</td><td>63</td><td>ISO-K</td><td>Aluminium</td><td>VAT Group AG</td><td>VAT Series 29</td><td>29036-QA41-000</td><td>0</td><td>1</td><td>1,200.00€</td><td>1,452.00€</td><td>1,200.00€</td><td>1,452.00€</td></t<>	6.7.	Angle valve with soft-pump function - Al – pneumatic actuator	63	ISO-K	Aluminium	VAT Group AG	VAT Series 29	29036-QA41-000	0	1	1,200.00€	1,452.00€	1,200.00€	1,452.00€
Index Index Index Index VAT Group AG VAT Series 29 29244-QA41-000 0 3 2,497.06 3,021.44 7,491.18 9,064.3 6.8. Manually actuated venting valve 10 ISO-KF Stainless steel VAT Group AG VAT Series 21.3 21320-KE01-000 0 11 109.41 132.39 109.41 132.39 6.9. Mini vacuum gate valve for flange KF - Al – pneumatic actuator ISO-KF Aluminium VAT Group AG VAT Series 012 01224-KA44-000 0 1 109.41 132.39 109.41 9,064.3 6.9. Mini vacuum gate valve for flange KF - Al – pneumatic actuator In SO-KF Aluminium VAT Group AG VAT Series 012 01224-KA44-000 0 1 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02 795.88 963.02			80	ISO-K	Aluminium	VAT Group AG	VAT Series 29	29038-QA41-000	0	1	1,288.24€	1,558.76€	1,288.24€	1,558.76€
6.8. Manually actuated venting valve 10 ISO-KF Stainless steel VAT Group AG VAT Series 21.3 21320-KE01-000 0 1 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 132.39 € 109.41 € 10			100	ISO-K	Aluminium	VAT Group AG	VAT Series 29	29240-QA41-000	0	3	1,826.47€	2,210.03€	5,479.41€	6,630.09€
6.9. 16 ISO-KF Aluminum VAT Group AG VAT Series 012 01224-KA44-000 0 1 749.12 906.43 749.12 906.43 749.12 906.43 749.12 906.43 749.12 906.43 749.12 906.43 749.12 906.43 906.44 906.44 906.44 906.43 906.4			160	ISO-K	Aluminium	VAT Group AG	VAT Series 29	29244-QA41-000	0	3	2,497.06€	3,021.44 €	7,491.18€	9,064.32€
6.9.Mini vacuum gate valve for flange KF - AI - pneumatic actuator25ISO-KFAluminiumVAT Group AGVAT Series 01201228-KA44-00001795.88 €963.02 €795.88 €963.0240ISO-KFAluminiumVAT Group AGVAT Series 01201232-KA44-00001879.71 €1,064.44 €879.71 €1,064.441,074.441,074.441,074.441,074.441,074.44<	6.8.	Manually actuated venting valve	10	ISO-KF	Stainless steel	VAT Group AG	VAT Series 21.3	21320-KE01-000	0	1	109.41€	132.39€	109.41€	132.39€
6.9.Mini vacuum gate valve for flange KF - Al – pneumatic actuator40ISO-KFAluminiumVAT Group AGVAT Series 01201232-KA44-00001879.71 €1,064.44 €879.71 €<		Mini vacuum gate valve for flange KF - Al – pneumatic actuator	16	ISO-KF	Aluminium	VAT Group AG	VAT Series 012	01224-KA44-000	0	1	749.12€	906.43€	749.12€	906.43€
40 SO-KF Atumnium VAI Group AG VAI Series 012 01232-KA44-000 0 1 889.71 € 1,064.44 € 899.71 € 1,010.44 € 1,064.44 € 899.71 € 1,010.44 € 1,064.44 € 899.71 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 € 1,010.44 €			25	ISO-KF	Aluminium	VAT Group AG	VAT Series 012	01228-KA44-000	0	1	795.88€	963.02€	795.88€	963.02€
6.10. Large gate valves - pneumatic actuator 630 ISO-F Stainless steel VAT Group AG VAT Series 19.1 19156-PE44-000 0 2 48,235.29 € 58,364.71 € 96,470.59 € 116,729.4 6.11. HV Angle valve - AI - manual actuator- with position indicator 25 ISO-KF Aluminium VAT Group AG VAT Series 26.4 26428-KA08-000 0 1 344.12 € 416.38 € 344.12 € 416.38 € 344.12 € 416.38 € 344.12 € 416.38 € 348.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 70tal price Total price Total price recluding VAT	0.9.		40	ISO-KF	Aluminium	VAT Group AG	VAT Series 012	01232-KA44-000	0	1	879.71€	1,064.44 €	879.71€	1,064.44 €
And the set of the set o			50	ISO-KF	Aluminium	VAT Group AG	VAT Series 012	01234-KA44-000	0	1	926.47 €	1,121.03€	926.47 €	1,121.03€
And the set of the set o	6.10.	Large gate valves - pneumatic actuator	630	ISO-F	Stainless steel	VAT Group AG	VAT Series 19.1	19156-PE44-000	0	2	48,235.29€	58,364.71€	96,470.59€	116,729.41€
O.11. If V Angle Value - All-manual actuator- with position indicator 40 ISO-KF Aluminium VAT Group AG VAT Series 26.4 26432-KA08-000 0 1 388.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 388.24 € 469.76 € 70tal price Total price including VAT Fill in just orange cells VAT Group AG VAT Series 26.4 26432-KA08-000 0 1 388.24 € 469.76 € 469.76 € 388.24 € 469.76 € 469.76 € 469.76 € 469.76 € 469.76 €			25	ISO-KF	Aluminium	VAT Group AG	VAT Series 26.4	26428-KA08-000	0	1	344.12 €	416.38€	344.12€	416.38€
Fill in just orange cells Total price Total price excluding VAT including VAT									0	1				
excluding VAT including VAT								•	•	·				
		Fill in just orange cells											-	including VAT
I 193.428.81 €I 234.048.81													193,428.81 €	234,048.86€