



FRAMEWORK PURCHASE AGREEMENT

*concluded pursuant to relevant provisions of the Act No. 134/2016 Coll., on Public Procurement,
and pursuant to § 2079 et seq of the Act No. 89/2012 Coll., Civil Code, as amended*

Contractual parties:

1. Fyzikální ústav AV ČR, v. v. i.

Seat: Na Slovance 2, 182 21 Praha 8

Authorized representatives:

- in contractual matters: RNDr. Michael Prouza, PhD., Director
- in technical matters: Fabuľa Peter
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ID No.: 683 78 271

Registered in the Registry of public research institutions kept by the Ministry of education, youth and sports

(hereinafter the “**Buyer**”), and

2. Ventile & Fittings Praha spol. s r.o.

Seat: Líbeznice, Družstevní 72, PSČ 25065

Authorizes:

- in contractual matters: Ing. Karel Feltl, statutory representative
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Registered in Municipal court in Prague, [section C, file 14932]

(hereinafter the “**Seller**”);

the parties jointly may be referred to as the “**Parties.**”

The Parties have agreed, on the day, month and year specified below, and on the basis of a completed public contract awarding procedure (carried out pursuant to Act No. 134/2016 Coll., on Public Procurement) for the public contract entitled “**Components for Compressed Gases and Cooling Water Distribution (TP20_069)**” (hereinafter the “**Procurement procedure**”), to conclude the following Framework Purchase Contract (hereinafter the “**Contract**”):



I. Subject of the Contract and General Provisions

1. The subject of this Contract is the commitment of the Seller to deliver components corresponding to the parameters agreed herein and to provide certain associated services (the components and the services hereinafter the “**Components**”) to the Buyer in the quality requested by the Buyer, under the terms agreed upon herein. Any provisions hereof must be interpreted in accordance with the terms and conditions of the Procurement procedure and the bid submitted by the Seller thereto. The subject of this Contract is also the commitment of the Buyer to pay the purchase price agreed upon between the Parties in Art. III. hereof.
2. Detailed specification of the Components is provided in Annexes hereof which form an integral part of this Contract:
Annex 1: Technical Specifications (Requirements Specification Document)
Annex 2: Products and Prices
3. The Seller shall deliver Components identified in Annex 2 hereto by their catalogue numbers or by other designation or another Components that fully meet the requirements on the Components set forth by this Contract.
4. The Seller acknowledges that the Buyer is not, in relation to the performance agreed upon hereunder, in a position of an entrepreneur and that the performance is in no manner related to business activities of the Buyer.
5. The Components shall be new (unused).

II. Place of Delivery and Deadlines

1. Place of Delivery shall be the Buyer’s ELI Beamlines facility: Průmyslová 836, 252 41 Dolní Břežany, Czech Republic.
Framework contract
2. This Contract is a framework contract under which the Buyer will order individual batches of Components in accordance with its actual needs based on individual written orders. The Buyer is entitled to execute individual orders as specified herein within the entire term of validity of this Contract.
3. The Seller acknowledges that the numbers of Components to be ordered by the Buyer depend solely on the discretion of the Buyer, i.e. the Buyer does not promise to buy any minimum number of Components, except for the initial purchase described below.

Should the Buyer not buy Components of any type in the numbers stipulated in Annex 2 hereto as “Maximum quantity”, the Buyer shall have the right, in the financial extent remaining regarding the respective type of Component, to order any other type of Components (even the



ones where the maximum quantity has already been reached). But the maximum total value of this Contract defined in Art. VII.2 hereof must not be exceeded.

Initial Purchase

4. Where Annex 2 hereto stipulates regarding any type of Components any minimum quantity to be purchased the Buyer shall order all the minimum quantities of all Components upon conclusion of this Contract.
5. The deadline for the delivery of the Components to the Place of Delivery under the individual orders and also of the Components forming the Initial purchase shall be 4 weeks from the date when the Seller received a written order from the Buyer.

III. Price and Payment Terms

1. The unit prices for the Components are stipulated in Annex 2 hereto. VAT shall be added on top of the unit price in accordance with valid legislation.
2. The unit prices have been agreed as the highest acceptable (maximum) prices including any and all associated costs, fees and payments and reflect any and all costs of the Seller associated with the performance of the Seller hereunder. The price includes all costs of the Seller accrued in production, delivery, support that may be provided by the Seller by telephone, operational overhead, IP rights, insurance, taxes, customs, provision of warranty and any other costs that may be in any manner associated with performance hereunder.
3. In cases when the Buyer orders Components defined in Annex 2 hereto and such Components are no longer available, primarily due to the technological development of the product, the Seller shall offer to the Buyer other corresponding Components. The technical parameters of such Components must not be in any manner below the standard that was defined herein. Should the production of any of the Components be stopped or should any Component become unavailable for other reasons, the Seller shall be obliged to inform the Buyer of such fact in sufficient advance so that the Buyer may order needed number of such Components.
4. The price for the Components shall be paid to the Seller in CZK on the basis of invoices – tax receipts, by bank transfers to the Seller's account provided in individual invoices. The Seller shall be authorized to issue invoices only after timely and proper delivery and take over of the Components; all invoices must be accompanied by copies of delivery notes confirmed by the Buyer. The Buyer accepts only electronic invoices delivered to the email address efaktury@fzu.cz.
5. The invoices shall be due in 30 days of their receipt by the Buyer. If an invoice states any other due period such period is deemed irrelevant and the due period stipulated here applies.
6. Payment date shall be understood as the day the invoiced amount was remitted from the Buyer's account to the Seller's account.
7. Invoices issued by the Seller shall comply with all requirements defined by applicable legislation, particularly by provisions of Act No. 563/1991 Coll., on Accounting, as amended,



and Act No. 235/2004 Coll., on VAT, as amended (for tax receipts). In case of any invoice failing to meet the requirements the Buyer shall be authorized to return such invoice before the due date to the Seller for correction. Once the invoice is corrected and delivered to the Buyer, the due period starts to run from the beginning.

8. The Buyer is entitled to request that any invoice contains identification of a dotation project from which the respective purchase is funded.

IV. Right and Obligation of the Parties

1. Due to the nature of the Components and in some cases due to the need to unpack and install the Components under special conditions (for instance in cleanroom premises), the Buyer shall be authorized to inspect the Components and to identify apparent defects within 60 days of taking over the delivery.
2. The ownership right to the delivered Components and the risk of loss and damage thereto pass to the Buyer upon the takeover of the Components in the Place of delivery based on a confirmed delivery note.
3. The Buyer can't store original packaging of the delivered Components. Absence of original packaging cannot constitute valid reason for denial of potential claims related to the Components.
4. The Seller shall not assign any rights or obligations hereunder to third persons without a previous written consent of the Buyer.
5. The Seller expressly agrees that he shall not have any right to assign or unilaterally set off any of the receivables he may have against the Buyer arising in connection with this Contract.

V. Defects and Warranty for Quality

1. The Seller provides warranty (guarantee) for the quality of the delivered Components for the period stated in Annex 1 hereto starting on the date of their delivery to the Buyer.
2. The Seller is liable for defects present in the Components upon their handover to the Buyer and for defects that will occur throughout the warranty period.
3. The Buyer shall make any defect claims in writing (including the form of a simple email). The Seller shall establish a special email address for reception of defect claims. The Seller shall receive defect claims during the entire term hereof and the warranty period at: ventile@ventile.cz
4. The Buyer shall specify, in the claim and in writing, the description of the defect and provide, if available, additional documentation (photo or other documentation). Should the Seller not be able to assess existence of the defect without inspecting the Components, the Parties shall agree whether the Components shall be shipped to the Seller or whether the Seller will inspect the Components at the Buyer's site. Should the Buyer incur any costs in relation to claiming the defect (such as shipping costs), for which the Seller is liable, the Seller shall compensate



the Buyer for any such costs. The Seller shall confirm to the Buyer the receipt of the defect claim within 2 working days of its delivery and shall inform the Buyer, within 5 working days from receiving the claim, carrying out the inspection or receiving the shipped Components for inspection, whether he recognizes the claim or not, and to propose the method of rectifying the defect in accordance with this Contract.

5. The Seller shall rectify the defect by repair or by providing a replacement within 4 weeks from receiving the defect claim, unless a different deadline is agreed by the Parties due to the existence of objective obstacles.
6. In case of an irremovable defect and if the Buyer agrees, the defect might be also removed by provision of an adequate discount.
7. In case the Seller fails to remove any defect within deadlines defined in Section 5 of this Article, or within additional period that may be agreed in writing between the Parties not exceeding 30 days, the Buyer shall be authorized to have the defect rectified by a third person at his own cost and the Seller shall be obliged to compensate the Buyer for these costs within 15 business days from the Buyer claiming these in writing against the Seller. The Seller's liability (warranty) shall not be in any manner prejudiced by such actions.
8. Warranty does not cover defects caused by unprofessional handling, incorrect or inappropriate maintenance, failure to follow instructions of the manufacturers related to operation or maintenance of the Components, which were provided to the Buyer in writing.

VI. Delays, Penalties

1. In case the Seller is in delay with delivery of any Component to the Buyer, the Buyer shall be entitled starting with the first day of the eleventh week of the delay to claim a contractual penalty against the Seller in the amount of 0.3% of the price of the undelivered Component for each commenced day of delay; such contractual penalty shall not exceed 20% of the price of the undelivered Component.
2. In case the Seller is in delay with rectifying defects, claimed by the Buyer during the warranty term, within the deadlines defined herein, the Seller shall starting with the first day of the fifth week of the delay pay a contractual penalty in the amount of 0.1% of the price of the defective Component for each commenced day of delay; such contractual penalty shall not exceed 10% of the price of the defective Component.
3. In case the Buyer is in delay with any payment due, the Buyer shall be obliged to pay late interest to the Seller in the amount specified by applicable legislation (Government Resolution No. 351/2013 Coll., as amended, or law replacing this resolution).
4. Contractual penalties shall be payable within 15 days of delivery of their enumeration by the other Party. Payment of contractual penalty does not prejudice the right to damages in the extent such damages exceed the amount of the contractual penalty.



5. The Buyer shall be entitled to unilaterally set off any contractual penalty against any payments invoiced by the Seller, even against those which have not become due yet.

VII. Term, Validity and Effective Date

1. This Contract becomes valid upon its signature and effective upon its publication in accordance with the applicable law.
2. This Agreement is concluded for the period of 18 months (or a longer period if automatically extended in accordance with the following sentence) or until exhausting the financial limit of 11 600 000 CZK excl. VAT, whichever comes first. If neither of the Parties states in written no later than 2 months before time expiration of this Contracts that it does not wish time extension of the term of this Contract, the term of the Contract is automatically extended by 6 months (maximum four times). The total financial limit of the Contract must not be exceeded.
3. This Contract may be terminated by:
 - a) agreement of the Parties in writing;
 - b) termination notice in writing subject to conditions described below;
 - c) Withdrawal from the Contract by either Party due to reasons defined herein or by law.
4. The Buyer shall be entitled to terminate this Contract by a three-month termination notice in writing, without specifying the reason; the termination notice period starts to run on the first day of the month following the month in which the notice was delivered to the Seller.
5. The Parties are entitled to withdraw from the Contract in case of material breaches of contractual obligations by the other Party, if such material breaches affected the contractual rights of the withdrawing Party. Withdrawal must be made in writing and must be delivered to the other Party. The Buyer shall be entitled to withdraw from this Contract also partially in relation to an individual order.
6. The following instances represent material breaches of the Contract, including but not limited to:
 - a) seller's delay with delivery of any Components exceeding 90 days;
 - b) seller's delay with removal of defects exceeding three times the applicable period granted hereunder;
 - c) repeated delay on the Buyer's part with payment of invoiced amounts for the Components exceeding 90 days.
7. All obligations of the Parties hereunder cease to exist when this Contract becomes ineffective. The rights related to damages compensation and the rights to contractual penalties arising before this Contract became ineffective survive as well as those obligations of the parties which are, by law, under this Contract or by their nature, meant to survive.



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VIII. Final Provisions

1. This Contract shall be governed by the laws of the Czech Republic, in particular by the Civil Code.
2. This Contract constitutes the entire agreement between the Parties.
3. This Contract may be supplemented or amended solely by the way of written and numbered amendments.
4. Following annexes form an integral part of the Contract:
Annex No. 1: Technical Specifications (Requirements Specification Document)
Annex No. 2: Products and Prices
5. The Parties confirm they have read the Contract before signing and they understand and agree to its contents. Both Parties confirm their agreement by signing.

On behalf of the Buyer:

Fyzikální ústav AV ČR, v. v. i.

On behalf of the Seller:

Ventile & Fittings Praha spol. s r.o.

.....
RNDr. Michael Prouza, PhD.
Director

.....
Ing. Karel Feltl
Statutory representative



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



Annex No. 1 – Technical Specifications (Requirements Specification Document)

| | | | |
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[RSD product category A]

Framework contract for Components for compressed gases and cooling water distribution

(TP20_069)



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1. Introduction

1.1. Purpose

This Requirements Specification Document (RSD) lists the technical requirements and constraints on set of components necessary for installation of high reliability stainless steel distribution of fluids and compressed gases in the ELI-Beamlines facility.

1.2. General description

The purpose of this public procurement is to purchase industry standard, high reliability, stainless steel components for in-house installation of specialized technology cooling systems and distribution of compressed gasses. These applications will include ultra high purity compressed air distribution for venting of extensive vacuum systems of the laser pulse compressors, beam distribution and experimental vacuum chambers, also distribution of compressed air to critical components within personal safety interlock (PSI) systems, as well as for cooling circuits using deionized water in radiation areas and other specialized systems. The components generally include stainless steel piping, pipe connectors, elbows, size reducers, and adaptors to various industry standards, as well as various types of valves, manometers, hoses and similar components.

The primary mechanism of sealing two pipe components is required to be through an industry standard all-metal seal, using two ferules that have separate sealing and gripping functions. Additionally, adaptors for to other industry standard stainless steel connections (such as NPT, ISO parallel threads, KF, EN 1092-1 flanges, weld ends) for range of pipe sizes must be readily available.

1.3. Scope

This RSD contains all of the technical requirements: *functional, performance, operational & design, transportation & installation, safety & quality requirements* for the requested type of products.

The PBS number will be determined at point of use in individual support systems. The temporary designation for PBS is SE.SS.AIR.SPAR.

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 to the supplier's outgoing inspection plan. The internal acceptance procedure of the product category A shall be established and applied before the product implementation (operation phase).

1.4. Terms, Definitions and Abbreviations

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

| Abbreviation | Meaning |
|--------------|---|
| Al | Aluminium |
| CA | Contract Authority |
| CE | Conformité Européenne - Certification of conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA) |
| DI water | De-ionized water |
| ELI | Extreme Light Infrastructure |
| HV | High vacuum |
| NVR | Non-volatile residues |
| OD | Outer diameter |
| PED | The Pressure Equipment Directive (PED) (2014/68/EU) |
| SS | Stainless Steel |
| UHP | Ultra High Purity |

1.5. Reference documents

| Doc number | TC ID number | Title of document |
|------------|--------------|--|
| RD-01 | 0261247 | <i>Tender fittings to the Components for compressed...</i> |

1.6. References to standards

In case of this document includes references to standards or standardized/standardizing technical documents, the CA allows offer of another equal solution, too. In case of this document includes references to standards or standardized/standardizing technical documents, the CA allows offer of another equal solution, too. If the supplier demonstrates that the offered supplies, services or building works meet in an equivalent manner the requirements framed by technical conditions (including standards or technical documents), the CA shall not reject it.

2. General Functional, Performance and Design requirements

REQ-028766/A

The supplier shall supply components with parameters and quantities specified in **RD-01** (excel table – Tender fittings).

REQ-028767/A

Where table mentions a "tube fitting", the supplied fitting shall use industry standard all-metal seal, using two ferules that have separate sealing and gripping functions to provide leak free, reliable seal on the specified tube diameter.

REQ-028768/A

Where table mentions connection as "Tube Stub", the supplied part shall have connection in form of a tube of appropriate length and diameter to connect directly to a "tube fitting".

REQ-028769/A

The all "tube fitting" parts must be suitable for use in temperature range between -20 degrees Celsius and +200 degrees Celsius

REQ-028770/A

The "tube fitting" of the type described in REQ-028767/A shall be designed for working pressure of at least 150 bar for all offered dimensions.

REQ-028771/A

The assemblies constructed using the supplied tubes and "tube fittings" as defined in REQ-028767/A shall be suitable for use as part of HV vacuum systems.

REQ-028773/A

The "tube fitting" of the type described in REQ-028767/A shall exhibit no measurable leak at minimum working pressure of 150 bar, confirmed by underwater test (for example using nitrogen gas) where no observable bubble is formed over period of 5 minutes. The test shall be repeated for tube fitting with OD 1/4", 3/8", and 1/2" and for each of those ODs on at least two types of fitting body out of the following: straight union fitting, elbow union fitting, Tee union fitting, cross union fitting, male connector fitting, female connector fitting, cap fitting or plug fitting. For each of those two types of fitting body the test shall be repeated on at least 5 identical samples (30 test measurements in total).

REQ-028774/A

The "tube fitting" of the type described in REQ-028767/A must be designed for multiple cycles of disconnection and reconnection of tube and the fitting. The "tube fitting" must be demonstrably capable of at least five reconnection cycles without loss of seal performance. This requirement must be satisfied for tube diameters with OD 1/4", 3/8",

and 1/2". The supplier shall demonstrate this by test report confirming that after total of 5 re-assemblies of the "tube fitting" done according to installation instructions the assembly still satisfies requirement REQ-028773/A.

Such repeatability test (for example using nitrogen gas) shall be repeated for tube fittings with OD 1/4", 3/8", and 1/2" and for each of those ODs on at least two types of fitting body out of the following: straight union fitting, elbow union fitting, Tee union fitting, cross union fitting, male connector fitting, female connector fitting, cap fitting or plug fitting. For each of those two types of fitting body the test shall be repeated on at least 5 identical samples (30 test measurements in total).

REQ-028775/A

All surfaces in contact with the fluid (gas or liquid) shall be oil and chemical contamination free.

REQ-028776/A

The parts in contact with the fluid, with the exception of o-rings and gaskets, shall be manufactured from AISI 316/316L low carbon stainless steel and shall be suitable for cleaning with deionized water and solvents such as IPA, Methanol or Acetone.

REQ-028777/A

The Supplier shall make available 3D models for all offered parts as STEP file types (*.stp;*.ste;*.step).

REQ-028778/A

All parts and components shall be delivered clean, without dirt, loose particles, surface stains, burrs and oil residues must be removed with suitable detergent and rinsed with clean water and subsequently dried with clean air or nitrogen. Oil contamination must not exceed 200mg/m².

REQ-028779/A

All products marked as UHP shall be delivered cleaned for high vacuum use and therefore the internal surfaces in contact with the fluid shall be additionally:

- Free from residual oils; NVR contamination corresponding to Level C according to ASTM G93 i.e. not exceeding 66 mg/m²
- Finished with surface roughness of Ra<0.25 µm
- Rinsed with DI water, filtered < 0.1 micrometer contaminant diameter, with resistivity higher than 16 MΩ.cm, temperature over 50 degrees Celsius

3. Requirements on valves

REQ-028780/A

- REQ-028781/A The offered ball valves and needle valves shall have black Nylon or stainless steel handles
- REQ-028782/A The ball valve seal leak rate shall be lower than 2×10^{-3} mbar L/sec at maximum working pressure.
- REQ-029168/A The valve handles REQ-028780/A shall be easily replaceable and available to buy in all of the following colors: black, blue, red and green.
- REQ-028783/A The supplier shall provide a declaration of conformity with the requirements of the The Pressure Equipment Directive (PED) (2014/68/EU).
Verification method: R-review
- REQ-028784/A The needle valves shall have such regulation of the flow that valve opening to 50% of the maximum flow coefficient C_v is achieved with at least of two full turns of the handle.
- REQ-029169/A Check valves shall reseal within maximum of 5 seconds at the appropriate reseal pressure
- REQ-028785/A The supplier shall provide pressure test protocols or records for the given product type.
Verification method: R-review

4. Requirements on tubing

- REQ-028785/A The tubing shall be delivered in lengths of 6 m sections with ends appropriately covered to maintain cleanliness of the surface that will be in contact with the fluid.
- REQ-028786/A The hardness of the tubing shall not exceed 90 HRB or 200 HV.
- REQ-028787/A The tube OD and its dimensional tolerance must be compatible with "tube fitting" for the corresponding OD.
- REQ-028788/A The tubing must be suitable for bending using hand tools for tube outer diameter of up to 1/2 inch inclusive.
- REQ-028789/A

The tubing shall be free of scratches that would affect the required leak rate for the "tube fitting" seal. This must be satisfied along the whole length of tubing.

5. Requirements on manometers

REQ-028790/A

The manometers that are specified with connection through a “tube stub” shall have the “tube stub” directly welded to the manometer without an additional intermediate interface of, for example, threaded fitting.

REQ-029170/A

Supplier shall supply a valid calibration protocol for each manometer.
Verification method: R – review

6. Transportation requirements

REQ-028791/A

The supplier shall transport the goods to the ELI facility.

REQ-028792/A

The technologies and instruments shall be delivered in protective package preventing damage and contamination and a minimum of one ply of separate clean packaging.

REQ-028794/A

Tubing shall be packed in rigid protective packaging (e.g. cardboard paper tube or wooden case) to protect them from damage during transport and storage.

REQ-028795/A

The products marked as UHP shall be packed in the cleanroom of at least Class 5 according to ČSN EN ISO 14644-1 (equivalent to EN ISO 14644-1) in minimum of two plies of separate packaging plus and additional transport packaging.

7. Product Safety Requirements

REQ-028796/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 Product sale in the Czech Republic to fulfil the requirements of 2001/95/EC directive or applicable Czech law.

REQ-029171/A

The Supplier shall supply a Conformité Européenne - Certification of conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA) for each product type.

8. Product Quality Requirements

REQ-028797/A

The Supplier shall provide the Product Manual as part of the delivered Device. Completeness of the Manual shall be approved by the CA. The Manual shall include the instructions and descriptions regarding the following procedures:

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

REQ-028798/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-028799/A

The Supplier shall provide information of outgoing check control 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 the information detailed enough to prove meeting all requirements stipulated herein (e.g.: catalogue/technical datasheets, product manuals or other similar documentation).

REQ-028800/A

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

9. Warranty

REQ-028801/A

All parts and components shall be delivered with 20 year warranty on material and workmanship.

| Fitting Type | Fitting Description | Size | Min. Quantity (initial purchase) | Maximum Quantity | Unit |
|--|--|----------------------|-------------------------------------|---------------------|------|
| Unions - Stainless Steel | | | | | |
| Union Tee | | | | | |
| Union Tee | Union Tee, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 10 | 150 | pcs. |
| Union Tee | Union Tee, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 0 | 100 | pcs. |
| Union Tee | Union Tee, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 20 | 150 | pcs. |
| Union Tee | Union Tee, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 5 | 50 | pcs. |
| Union Tee | Union Tee, 1 in. Tube Fitting x 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 10 | 70 | pcs. |
| Union Tee - Reducing | | | | | |
| Union Tee - Reducing | Union Tee - Reducing, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting x 1/4 in. Tube Fitting | 3/8" to 3/8" to 1/4" | 10 | 50 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 1/4 in. Tube Fitting | 1/2" to 1/2" to 1/4" | 10 | 50 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 3/8 in. Tube Fitting | 1/2" to 1/2" to 3/8" | 10 | 50 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 3/4 in. Tube Fitting | 1/2" to 1/2" to 3/4" | 10 | 60 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Female NPT x 1 in. Tube Fitting | 1" to 1" to 1" | 2 | 40 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Tube Fitting x 3/8 in. Tube Fitting | 1" to 1" to 3/8" | 2 | 40 | pcs. |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Tube Fitting x 3/4 Female NPT | 1" to 1" to 3/4" | 2 | 40 | pcs. |
| Union Cross | | | | | |
| Union Cross | Union Cross, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting x 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 1 | 35 | pcs. |
| Union Cross | Union Cross, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting x 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 0 | 35 | pcs. |
| Union | | | | | |
| Union | Union, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 10 | 120 | pcs. |
| Union | Union, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 10 | 120 | pcs. |
| Union | Union, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 10 | 120 | pcs. |
| Union | Union, 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 4 | 80 | pcs. |
| Union - Reducing | | | | | |
| Union - Reducing | Union - Reducing, 3/8 in. Tube Fitting x 1/4 in. Tube Fitting | 3/8" to 1/4" | 2 | 40 | pcs. |
| Union - Reducing | Union - Reducing, 10 mm Tube Fitting x 3/8 in. Tube Fitting | 10 mm to 3/8" | 0 | 30 | pcs. |
| Union - Reducing | Union - Reducing, 1 in. Tube Fitting x 1/2 in. Tube Fitting | 1" to 1/2" | 2 | 40 | pcs. |
| Union - Reducing | Union - Reducing, 1 in. Tube Fitting x 3/4 in. Tube Fitting | 1" to 3/4" | 2 | 60 | pcs. |
| Union Bulkhead | | | | | |
| Union Bulkhead | Union Bulkhead, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 4 | 40 | pcs. |
| Union Bulkhead | Union Bulkhead, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 6 | 60 | pcs. |
| Union Elbow 90° | | | | | |
| Union Elbow | Union Elbow, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 6 | 60 | pcs. |
| Union Elbow | Union Elbow, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 6 | 60 | pcs. |
| Union Elbow | Union Elbow, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 10 | 80 | pcs. |
| Union Elbow | Union Elbow, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 10 | 80 | pcs. |
| Union Elbow | Union Elbow, 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 2 | 90 | pcs. |
| Plugs and Cap - Stainless Steel | | | | | |
| Plug | | | | | |
| Plug | Plug, 1/4 in. Plug with Lanyard for Tube Fitting | 1/4" | 20 | 110 | pcs. |
| Plug | Plug, 3/8 in. Plug with Lanyard for Tube Fitting | 3/8" | 20 | 110 | pcs. |
| Plug | Plug, 1/2 in. Plug with Lanyard for Tube Fitting | 1/2" | 10 | 110 | pcs. |
| Plug | Plug, 3/4 in. Plug with Lanyard for Tube Fitting | 3/4" | 5 | 90 | pcs. |

| | | | | | |
|--|---|--------------|----|-----|------|
| Plug | Plug, 1 in. Plug for Tube Fitting | 1" | 6 | 90 | pcs. |
| Caps | | | | | |
| Cap | Cap, 1/4 in. Cap for Tubing | 1/4" | 10 | 70 | pcs. |
| Cap | Cap, 3/8 in. Cap for Tubing | 3/8" | 10 | 70 | pcs. |
| Cap | Cap, 1/2 in. Cap for Tubing | 1/2" | 10 | 70 | pcs. |
| Cap | Cap, 3/4 in. Cap for Tubing | 3/4" | 5 | 70 | pcs. |
| Cap | Cap, 1 in. Cap for Tubing | 1" | 5 | 70 | pcs. |
| Ports - Stainless Steel | | | | | |
| Port Connector | | | | | |
| Port Connector | Port Connector, 1/4 in. Port Connector x 1/4 in. Tube Stub | 1/4" | 10 | 110 | pcs. |
| Port Connector | Port Connector, 3/8 in. Port Connector x 3/8 in. Tube Stub | 3/8" | 10 | 110 | pcs. |
| Port Connector | Port Connector, 10 mm Port Connector x 10 mm Tube Stub | 10 mm | 0 | 30 | pcs. |
| Port Connector | Port Connector, 1/2 in. Port Connector x 1/2 in. Tube Stub | 1/2" | 10 | 110 | pcs. |
| Port Connector | Port Connector, 3/4 in. Port Connector x 3/4 in. Tube Stub | 3/4" | 5 | 90 | pcs. |
| Port Connector | Port Connector, 1 in. Port Connector x 1 in. Tube Stub | 1" | 5 | 110 | pcs. |
| Port Connector - Reducing | | | | | |
| Port Connector - Reducing | Port Connector - Reducing, 1/4 in. Port Connector x 1/8 in. Tube Stub | 1/4" to 1/8" | 0 | 30 | pcs. |
| Port Connector - Reducing | Port Connector - Reducing, 3/8 in. Port Connector x 1/4 in. Tube Stub | 3/8" to 1/4" | 0 | 30 | pcs. |
| Port Connector - Reducing | Port Connector - Reducing, 1 in. Port Connector x 3/4 in. Tube Stub | 1" to 3/4" | 6 | 90 | pcs. |
| Nuts and Ferrules - Stainless Steel | | | | | |
| Nut | | | | | |
| Nut | Nut, 1/4 in. Nut for double compression fitting | 1/4" | 10 | 70 | pcs. |
| Nut | Nut, 3/8 in. Nut for double compression fitting | 3/8" | 10 | 70 | pcs. |
| Nut | Nut, 1/2 in. Nut for double compression fitting | 1/2" | 10 | 70 | pcs. |
| Nut | Nut, 3/4 in. Nut for double compression fitting | 3/4" | 10 | 70 | pcs. |
| Nut | Nut, 1 in. Nut for double compression fitting | 1" | 6 | 70 | pcs. |
| Ferrule | | | | | |
| Ferrule | Ferrule Front, 1/4 in. Front Ferrule for double compression fitting | 1/4" | 10 | 70 | pcs. |
| Ferrule | Ferrule Back, 1/4 in. Back Ferrule for double compression fitting | 1/4" | 10 | 70 | pcs. |
| Ferrule | Ferrule Front, 3/8 in. Front Ferrule for double compression fitting | 3/8" | 10 | 70 | pcs. |
| Ferrule | Ferrule Back, 3/8 in. Back Ferrule for double compression fitting | 3/8" | 10 | 70 | pcs. |
| Ferrule | Ferrule Front, 1/2 in. Front Ferrule for double compression fitting | 1/2" | 10 | 70 | pcs. |
| Ferrule | Ferrule Back, 1/2 in. Back Ferrule for double compression fitting | 1/2" | 10 | 70 | pcs. |
| Ferrule | Ferrule Front, 3/4 in. Front Ferrule for double compression fitting | 3/4" | 10 | 70 | pcs. |
| Ferrule | Ferrule Back, 3/4 in. Back Ferrule for double compression fitting | 3/4" | 10 | 70 | pcs. |
| Ferrule | Ferrule Front, 1 in. Front Ferrule for double compression fitting | 1" | 10 | 70 | pcs. |
| Ferrule | Ferrule Back, 1 in. Back Ferrule for double compression fitting | 1" | 10 | 70 | pcs. |
| Ferrule | Nut and Ferrule Set, 1/4 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 1/4 in. | 1/4" | 10 | 70 | pcs. |
| Ferrule | Nut and Ferrule Set, 3/8 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 3/8 in. | 3/8" | 10 | 70 | pcs. |
| Ferrule | Nut and Ferrule Set, 1/2 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 1/2 in. | 1/2" | 10 | 70 | pcs. |
| Reducers - Stainless Steel | | | | | |
| Reducer | | | | | |
| Reducer | Reducer, 1/4 in. Tube Fitting x 1 in. Tube Stub | 1/4" to 1" | 20 | 90 | pcs. |
| Reducer | Reducer, 3/8 in. Tube Fitting x 1/2 in. Tube Stub | 3/8" to 1/2" | 20 | 90 | pcs. |
| Reducer | Reducer, 1/2 in. Tube Fitting x 1 in. Tube Stub | 1/2" to 1" | 8 | 90 | pcs. |
| Reducer | Reducer, 3/4 in. Tube Fitting x 1 in. Tube Stub | 3/4" to 1" | 4 | 90 | pcs. |
| Hoses* | | | | | |
| Hoses PTFE | | | | | |

| | | | | | |
|-------------------------------------|--|-------------------|----|----|------|
| Hose PTFE-Lined | Hose PTFE-Lined, SS Braided, 3/8 in. Tube Stub x 3/8 in. Tube Stub, 16.4 in. (41.7 cm) Live Length | 3/8" | 6 | 90 | pcs. |
| Hose PTFE-Lined | Hose PTFE-Lined, SS Braided, 1/2 in. Tube Stub x 1/2 in. Tube Stub, 16 in. (40.6 cm) Live Length | 1/2" | 12 | 90 | pcs. |
| Connectors - Stainless Steel | | | | | |
| Connector Male | | | | | |
| Connector Male | Connector Male, 1/4 in. Tube Fitting x 1/4 in. Male NPT | 1/4" | 10 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1/4 in. Tube Fitting x 1/4 in. Male ISO Parallel Thread | 1/4" | 20 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 3/8 in. Male ISO Parallel Thread | 3/8" | 20 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 1/2 in. Male ISO Parallel Thread | 1/2" | 20 | 80 | pcs. |
| Connector Male | Connector Male, 3/4 in. Tube Fitting x 3/4 in. Male NPT | 3/4" | 0 | 50 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1 in. Tube Fitting x 1 in. Male ISO Parallel Thread | 1" | 6 | 80 | pcs. |
| Connector Male - Reducing | | | | | |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 1/8 in. Male ISO Parallel Thread | 3/8" to 1/8" | 20 | 80 | pcs. |
| Connector Male | Connector Male, 3/8 in. Tube Fitting x 1/4 in. Male ISO Tapered Thread | 3/8" to 1/4" | 20 | 80 | pcs. |
| Connector Male | Connector Male, 3/8 in. Tube Fitting x 1/2 in. Male NPT | 3/8" to 1/2" | 10 | 50 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 1/2 in. Male ISO Parallel Thread | 3/8" to 1/2" | 20 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 3/8 in. Male ISO Parallel Thread | 1/2" to 3/8" | 20 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 3/8 in. Male ISO Tapered Thread | 1/2" to 3/8" | 20 | 80 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 3/4 in. Tube Fitting x 1 1/16-12 Male SAE/MS Straight Thread | 3/4" to 1 1/16-12 | 6 | 70 | pcs. |
| Connector Male | Connector Male, Straight Shoulder, 1 in. Tube Fitting x 1 5/16-12 Male SAE/MS Straight Thread | 1" to 1 5/16-12 | 6 | 70 | pcs. |
| Connector Male Elbow 90° | | | | | |
| Connector Male Elbow | Positionable Male Elbow, 1/4 in. Tube Fitting x 7/16-20 Male SAE/MS Straight Thread | 1/4" to 7/16-20 | 10 | 70 | pcs. |
| Connector Male Elbow | Positionable Male Elbow, 3/4 in. Tube Fitting x 1 1/16-12 Male SAE/MS Straight Thread | 3/4" to 1 1/16-12 | 6 | 70 | pcs. |
| Connector Female | | | | | |
| Connector Female | Connector Female, 1/4 in. Tube Fitting x 1/4 in. Female ISO Tapered Thread | 1/4" | 20 | 80 | pcs. |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Tapered Thread | 1/2" | 10 | 80 | pcs. |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel (Gauge) Thread | 1/2" | 20 | 80 | pcs. |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel (JIS-7501) Thread | 1/2" | 5 | 80 | pcs. |
| Connector Female - Reducing | | | | | |
| Connector Female | Connector Female, 3/4 in. Tube Fitting x 1/2 in. Female ISO Parallel Thread | 3/4" to 1/2" | 12 | 80 | pcs. |
| Connector Hose | | | | | |
| Connector - Hose | Connector Hose, 1/2 in. Hose Connector (Hose ID) x 3/8 in. Tube Stub | 1/2" | 0 | 40 | pcs. |
| Connector - Hose | Connector Hose, 1 in. Hose Connector (Hose ID) x 1 in. Tube Stub | 1" | 0 | 40 | pcs. |
| Adapters - Stainless Steel | | | | | |
| Adapter Male | | | | | |
| Adapter Male | Adapter Male, 1/4 in. Tube Stub x 1/4 in. Male NPT | 1/4" | 0 | 30 | pcs. |
| Adapter Male | Adapter Male, Straight Shoulder, 1/4 in. Tube Stub x 1/4 in. Male ISO Parallel Thread | 1/4" | 20 | 80 | pcs. |
| Adapter Male | Adapter Male, Straight Shoulder, 3/8 in. Tube Stub x 3/8 in. Male ISO Parallel Threa | 3/8" | 20 | 80 | pcs. |
| Adapter Male | Adapter Male, Straight Shoulder, 1/2 in. Tube Stub x 1/2 in. Male ISO Parallel Threa | 1/2" | 10 | 80 | pcs. |
| Adapter Male - Reducing | | | | | |
| Adapter Male | Adapter Male, 3/8 in. Tube Stub x 1/2 in. Male NPT | 3/8" to 1/2" | 10 | 50 | pcs. |
| Adapter Female | | | | | |
| Adapter Female | Adapter Female, 1/4 in. Tube Stub x 1/4 in. Female ISO Parallel (Gauge) Thread | 1/4" | 12 | 80 | pcs. |
| Adapter Female | Adapter Female, 1/4 in. Tube Stub x 1/4 in. Female ISO Tapered Thread | 1/4" | 12 | 80 | pcs. |
| Adapter Female | Adapter Female, 3/8 in. Tube Stub x 3/8 in. Female ISO Parallel (Gauge) Thread | 3/8" | 12 | 80 | pcs. |
| Adapter Female | Adapter Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel Thread | 1/2" | 12 | 80 | pcs. |
| Adapter Elbow 90° | | | | | |
| Adapter - Elbow | Adapter - Elbow, 3/8 in. Tube Stub x 3/8 in. Tube Fitting | 3/8" | 10 | 70 | pcs. |
| Valves - Stainless Steel | | | | | |

| | | | | | |
|---|--|----------------------------|----|-----|------|
| Valve - Needle - Regulating | | | | | |
| Valve - Needle | Valve - Needle , 1/4 in. Tube Fitting x 1/4 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.3 Cv, min 0.150" Orifice | 1/4" | 10 | 100 | pcs. |
| Valve - Needle | Valve - Needle , 3/8 in. Tube Fitting x 3/8 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.55 Cv, min 0.200" Orifice | 3/8" | 20 | 100 | pcs. |
| Valve - Needle | Valve - Needle , 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.7 Cv, min 0.250" Orifice | 1/2" | 20 | 100 | pcs. |
| Valve - Needle | Valve - Needle , 3/4 in. Tube Fitting x 3/4 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 1.7 Cv, min 0.350" Orifice | 3/4" | 6 | 40 | pcs. |
| Valve - Ball | | | | | |
| Valve - Ball | Valve - Ball , 3/8 in. Tube Fitting x 3/8 in. Tube Fitting, 1 Piece Ball Valve, 2 way, min. 1.5 Cv | 3/8" | 20 | 100 | pcs. |
| Valve - Ball | Valve - Ball , 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, 1 Piece Ball Valve, 2 way, min. 1.5 Cv | 1/2" | 20 | 100 | pcs. |
| Valve - Check | | | | | |
| Check Valve | Poppet Check Valve , 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, Cracking Pressure 1/3 psig (0.03 bar) | 1/2" | 10 | 70 | pcs. |
| Check Valve | Poppet Check Valve , 1 in. Tube Fitting x 1 in. Tube Fitting, Cracking Pressure 1/3 psig (0.03 bar) | 1" | 4 | 70 | pcs. |
| Handle Kit | | | | | |
| Handle Kit | Blue Handle Kit Blue Handle Kit - Bonnet Needle Valve | | 6 | 100 | pcs. |
| Handle Kit | Red Handle Kit Red Handle Kit - Ball Valve, Stainless Steel Insert | | 6 | 140 | pcs. |
| Flange Adapter - Stainless Steel | | | | | |
| Flange Adapter | | | | | |
| Flange Adapter | Flange Adapter , DN25 Flange EN 1092-1/11/DN25/PN16 B1 x 1 in. Tube Fitting | 1" | 6 | 110 | pcs. |
| Gaskets | | | | | |
| Gasket PTFE | | | | | |
| Gasket PTFE | Gasket PTFE , 1/2 in. PTFE Gasket for ISO Parallel Thread Fitting, | 1/2" | 30 | 260 | pcs. |
| Gasket SS - Stainless Steel | | | | | |
| Gasket SS | Gasket SS , 1/8 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/8" | 20 | 200 | pcs. |
| Gasket SS | Gasket SS , 1/4 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/4" | 30 | 250 | pcs. |
| Gasket SS | Gasket SS , 3/8 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 3/8" | 30 | 250 | pcs. |
| Gasket SS | Gasket SS , 1/2 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/2" | 30 | 250 | pcs. |
| Gasket SS | Gasket SS , 1 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1" | 20 | 200 | pcs. |
| Manometers - Stainless Steel | | | | | |
| Manometer | | | | | |
| Manometer | Industrial Pressure Gauge , 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, 0 to 6 Bar, | 1/4" | 6 | 60 | pcs. |
| Manometer | Industrial Pressure Gauge , 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, -1 to 3 Bar, | 1/4" | 6 | 60 | pcs. |
| Manometer | Industrial Pressure Gauge , 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, 0 to 10 Bar, | 1/4" | 6 | 60 | pcs. |
| Tubing - Stainless Steel | | | | | |
| Tubing | | | | | |
| Tubing | Tubing 1/4 , Stainless Steel Seamless Tubing, 1/4 in. OD x min 0.035 in. Wall | 1/4" | 90 | 720 | m |
| Tubing | Tubing 3/8 , Stainless Steel Seamless Tubing, 3/8 in. OD x min 0.035 in. Wall | 3/8" | 90 | 720 | m |
| Tubing | Tubing 1/2 , Stainless Steel Seamless Tubing, 1/2 in. OD x min 0.049 in. Wall | 1/2" | 90 | 720 | m |
| Tubing | Tubing 3/4 , Stainless Steel Seamless Tubing, 3/4 in. OD x min 0.065 in. Wall | 3/4" | 6 | 36 | m |
| Tubing | Tubing 1 , Stainless Steel Seamless Tubing, 1 in. OD x min 0.083 in. Wall | 1" | 24 | 228 | m |
| UHP Tubing | UHP Tubing 3/8 , Ultra High Purity, Stainless Steel Seamless Tubing, 3/8 in. OD x min. 0.035 in. Wall | 3/8" | 24 | 228 | m |
| Accessories | | | | | |
| Accessories | Tube Cutter , Tube Cutter for Stainless Steel Tubing from 3/16 to 1 in. OD | 1/4" to 3/8" to 1/2" to 1" | 0 | 5 | pcs. |
| Accessories | Tube Cutter Wheel , Tube Cutter Replacement Cutting Wheel | | 5 | 50 | pcs. |
| Accessories | Tube Deburring Tool , Tube Deburring Tool, 3/16 in. to 1 1/2 in. and 4 to 38 mm OD | 1/4" to 3/8" to 1/2" to 1" | 0 | 3 | pcs. |
| Services | | | | | |
| Bender | | | | | |

| | | | | | |
|----------|--|--|---|----|----------|
| Services | Safety and installation training for 8 ELI technicians , which must include practical onsite training in proper tube selection, cutting and deburring and proper use of supplied compression fitting assemblies, as well as correct tube bending and use of bending tools and cover safety aspects of the compressed air and water installations, minimum duration 1 day | | 1 | 2 | training |
| Services | Rental of Bench top Tube bender for tube OD 1/2" and OD 1" (price per day) | | 0 | 60 | day |
| Services | Rental of hydrolic swaging units for tube OD 1" (price per day) | | 0 | 60 | day |

General requirements: see RSD document RD-01

* Length of offered flexible hoses can differ by up to +/- 20% from specified



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Annex No. 2 – Products and Prices

| Fitting Type | Fitting Description | Size | Min. Quantity (initial purchase) | Maximum Quantity | Unit | Price/Unit (CZK ex. VAT) | Initial purchase price (CZK ex. VAT) | Max. Quantity total price (CZK ex. VAT) | Catalogue number of offered product |
|--|--|----------------------|----------------------------------|------------------|------|--------------------------|--------------------------------------|---|-------------------------------------|
| Unions - Stainless Steel | | | | | | | | | |
| Union Tee | | | | | | | | | |
| Union Tee | Union Tee, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 10 | 150 | pcs. | 331,74 Kč | 3 317,42 Kč | 49 761,29 Kč | SUT-4 |
| Union Tee | Union Tee, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 0 | 100 | pcs. | 405,29 Kč | - Kč | 40 529,03 Kč | SUT-6 |
| Union Tee | Union Tee, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 20 | 150 | pcs. | 564,39 Kč | 11 287,74 Kč | 84 658,06 Kč | SUT-8 |
| Union Tee | Union Tee, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 5 | 50 | pcs. | 835,35 Kč | 4 176,77 Kč | 41 767,74 Kč | SUT-12 |
| Union Tee | Union Tee, 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 10 | 70 | pcs. | 1 656,77 Kč | 16 567,74 Kč | 115 974,19 Kč | SUT-16 |
| Union Tee - Reducing | | | | | | | | | |
| Union Tee - Reducing | Union Tee - Reducing, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting x 1/4 in. Tube Fitting | 3/8" to 3/8" to 1/4" | 10 | 50 | pcs. | 445,94 Kč | 4 459,35 Kč | 22 296,77 Kč | SRUT-6-4 |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 1/4 in. Tube Fitting | 1/2" to 1/2" to 1/4" | 10 | 50 | pcs. | 633,68 Kč | 6 336,77 Kč | 31 683,87 Kč | SRUT-8-4 |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 3/8 in. Tube Fitting | 1/2" to 1/2" to 3/8" | 10 | 50 | pcs. | 633,68 Kč | 6 336,77 Kč | 31 683,87 Kč | SRUT-8-6 |
| Union Tee - Reducing | Union Tee - Reducing, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting x 3/4 in. Tube Fitting | 1/2" to 1/2" to 3/4" | 10 | 60 | pcs. | 872,90 Kč | 8 729,03 Kč | 52 374,19 Kč | SRUT-8-12 |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Female NPT x 1 in. Tube Fitting | 1" to 1" to 1" | 2 | 40 | pcs. | 1 655,61 Kč | 3 311,23 Kč | 66 224,52 Kč | SFRTJ-16-16N |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Tube Fitting x 3/8 in. Tube Fitting | 1" to 1" to 3/8" | 2 | 40 | pcs. | 1 822,45 Kč | 3 644,90 Kč | 72 898,06 Kč | SRUT-16-6 |
| Union Tee - Reducing | Union Tee - Reducing, 1 in. Tube Fitting x 1 in. Tube Fitting x 3/4 Female NPT | 1" to 1" to 3/4" | 2 | 40 | pcs. | 1 551,10 Kč | 3 102,19 Kč | 62 043,87 Kč | SFRTJ-16-12N |
| Union Cross | | | | | | | | | |
| Union Cross | Union Cross, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 1 | 35 | pcs. | 570,97 Kč | 570,97 Kč | 19 983,87 Kč | SUC-4 |
| Union Cross | Union Cross, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 0 | 35 | pcs. | 1 325,81 Kč | - Kč | 46 403,23 Kč | SUC-12 |
| Union | | | | | | | | | |
| Union | Union, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 10 | 120 | pcs. | 169,16 Kč | 1 691,61 Kč | 20 299,35 Kč | SU-4 |
| Union | Union, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 10 | 120 | pcs. | 213,29 Kč | 2 132,90 Kč | 25 594,84 Kč | SU-6 |
| Union | Union, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 10 | 120 | pcs. | 322,06 Kč | 3 220,65 Kč | 38 647,74 Kč | SU-8 |
| Union | Union, 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 4 | 80 | pcs. | 823,74 Kč | 3 294,97 Kč | 65 899,35 Kč | SU-16 |
| Union - Reducing | | | | | | | | | |
| Union - Reducing | Union - Reducing, 3/8 in. Tube Fitting x 1/4 in. Tube Fitting | 3/8" to 1/4" | 2 | 40 | pcs. | 215,61 Kč | 431,23 Kč | 8 624,52 Kč | SRU-6-4 |
| Union - Reducing | Union - Reducing, 10 mm Tube Fitting x 3/8 in. Tube Fitting | 10 mm to 3/8" | 0 | 30 | pcs. | 222,19 Kč | - Kč | 6 665,81 Kč | SRU-6-10M |
| Union - Reducing | Union - Reducing, 1 in. Tube Fitting x 1/2 in. Tube Fitting | 1" to 1/2" | 2 | 40 | pcs. | 906,58 Kč | 1 813,16 Kč | 36 263,23 Kč | SRU-16-8 |
| Union - Reducing | Union - Reducing, 1 in. Tube Fitting x 3/4 in. Tube Fitting | 1" to 3/4" | 2 | 60 | pcs. | 906,58 Kč | 1 813,16 Kč | 54 394,84 Kč | SRU-16-12 |
| Union Bulkhead | | | | | | | | | |
| Union Bulkhead | Union Bulkhead, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 4 | 40 | pcs. | 244,65 Kč | 978,58 Kč | 9 785,81 Kč | SBHU-4 |
| Union Bulkhead | Union Bulkhead, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 6 | 60 | pcs. | 324,39 Kč | 1 946,32 Kč | 19 463,23 Kč | SBHU-6 |
| Union Elbow 90° | | | | | | | | | |
| Union Elbow | Union Elbow, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting | 1/4" | 6 | 60 | pcs. | 235,35 Kč | 1 412,13 Kč | 14 121,29 Kč | SUE-4 |
| Union Elbow | Union Elbow, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting | 3/8" | 6 | 60 | pcs. | 263,23 Kč | 1 579,35 Kč | 15 793,55 Kč | SUE-6 |
| Union Elbow | Union Elbow, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting | 1/2" | 10 | 80 | pcs. | 401,03 Kč | 4 010,32 Kč | 32 082,58 Kč | SUE-8 |
| Union Elbow | Union Elbow, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting | 3/4" | 10 | 80 | pcs. | 656,52 Kč | 6 565,16 Kč | 52 521,29 Kč | SUE-12 |
| Union Elbow | Union Elbow, 1 in. Tube Fitting x 1 in. Tube Fitting | 1" | 2 | 90 | pcs. | 1 289,81 Kč | 2 579,61 Kč | 116 082,58 Kč | SUE-16 |
| Plugs and Cap - Stainless Steel | | | | | | | | | |
| Plug | | | | | | | | | |
| Plug | Plug, 1/4 in. Plug with Lanyard for Tube Fitting | 1/4" | 20 | 110 | pcs. | 103,35 Kč | 2 067,10 Kč | 11 369,03 Kč | SP-4-LN |
| Plug | Plug, 3/8 in. Plug with Lanyard for Tube Fitting | 3/8" | 20 | 110 | pcs. | 121,16 Kč | 2 423,23 Kč | 13 327,74 Kč | SP-6-LN |
| Plug | Plug, 1/2 in. Plug with Lanyard for Tube Fitting | 1/2" | 10 | 110 | pcs. | 159,48 Kč | 1 594,84 Kč | 17 543,23 Kč | SP-8-LN |
| Plug | Plug, 3/4 in. Plug with Lanyard for Tube Fitting | 3/4" | 5 | 90 | pcs. | 267,10 Kč | 1 335,48 Kč | 24 038,71 Kč | SP-12-LN |
| Plug | Plug, 1 in. Plug for Tube Fitting | 1" | 6 | 90 | pcs. | 306,19 Kč | 1 837,16 Kč | 27 557,42 Kč | SP-16 |
| Caps | | | | | | | | | |
| Cap | Cap, 1/4 in. Cap for Tubing | 1/4" | 10 | 70 | pcs. | 86,32 Kč | 863,23 Kč | 6 042,58 Kč | SC-4 |
| Cap | Cap, 3/8 in. Cap for Tubing | 3/8" | 10 | 70 | pcs. | 107,61 Kč | 1 076,13 Kč | 7 532,90 Kč | SC-6 |
| Cap | Cap, 1/2 in. Cap for Tubing | 1/2" | 10 | 70 | pcs. | 169,16 Kč | 1 691,61 Kč | 11 841,29 Kč | SC-8 |
| Cap | Cap, 3/4 in. Cap for Tubing | 3/4" | 5 | 70 | pcs. | 265,16 Kč | 1 325,81 Kč | 18 561,29 Kč | SC-12 |
| Cap | Cap, 1 in. Cap for Tubing | 1" | 5 | 70 | pcs. | 519,48 Kč | 2 597,42 Kč | 36 363,87 Kč | SC-16 |
| Ports - Stainless Steel | | | | | | | | | |
| Port Connector | | | | | | | | | |
| Port Connector | Port Connector, 1/4 in. Port Connector x 1/4 in. Tube Stub | 1/4" | 10 | 110 | pcs. | 72,77 Kč | 727,74 Kč | 8 005,16 Kč | SPC-4 |
| Port Connector | Port Connector, 3/8 in. Port Connector x 3/8 in. Tube Stub | 3/8" | 10 | 110 | pcs. | 88,26 Kč | 882,58 Kč | 9 708,39 Kč | SPC-6 |
| Port Connector | Port Connector, 10 mm Port Connector x 10 mm Tube Stub | 10 mm | 0 | 30 | pcs. | 88,26 Kč | - Kč | 2 647,74 Kč | SPC-10M |
| Port Connector | Port Connector, 1/2 in. Port Connector x 1/2 in. Tube Stub | 1/2" | 10 | 110 | pcs. | 159,48 Kč | 1 594,84 Kč | 17 543,23 Kč | SPC-8 |
| Port Connector | Port Connector, 3/4 in. Port Connector x 3/4 in. Tube Stub | 3/4" | 5 | 90 | pcs. | 187,35 Kč | 936,77 Kč | 16 861,94 Kč | SPC-12 |
| Port Connector | Port Connector, 1 in. Port Connector x 1 in. Tube Stub | 1" | 5 | 110 | pcs. | 275,61 Kč | 1 378,06 Kč | 30 317,42 Kč | SPC-16 |
| Port Connector - Reducing | | | | | | | | | |
| Port Connector - Reducing | Port Connector - Reducing, 1/4 in. Port Connector x 1/8 in. Tube Stub | 1/4" to 1/8" | 0 | 30 | pcs. | 164,13 Kč | - Kč | 4 923,87 Kč | SRPC-4-2 |
| Port Connector - Reducing | Port Connector - Reducing, 3/8 in. Port Connector x 1/4 in. Tube Stub | 3/8" to 1/4" | 0 | 30 | pcs. | 94,45 Kč | - Kč | 2 833,55 Kč | SRPC-6-4 |
| Port Connector - Reducing | Port Connector - Reducing, 1 in. Port Connector x 3/4 in. Tube Stub | 1" to 3/4" | 6 | 90 | pcs. | 243,87 Kč | 1 463,23 Kč | 21 948,39 Kč | SRPC-16-12 |
| Nuts and Ferrules - Stainless Steel | | | | | | | | | |
| Nut | | | | | | | | | |
| Nut | Nut, 1/4 in. Nut for double compression fitting | 1/4" | 10 | 70 | pcs. | 35,61 Kč | 356,13 Kč | 2 492,90 Kč | SN-4 |

| | | | | | | | | | |
|-------------------------------------|--|-------------------|----|----|------|-------------|--------------|---------------|----------------------|
| Nut | Nut, 3/8 in. Nut for double compression fitting | 3/8" | 10 | 70 | pcs. | 49,16 Kč | 491,61 Kč | 3 441,29 Kč | SN-6 |
| Nut | Nut, 1/2 in. Nut for double compression fitting | 1/2" | 10 | 70 | pcs. | 64,26 Kč | 642,58 Kč | 4 498,06 Kč | SN-8 |
| Nut | Nut, 3/4 in. Nut for double compression fitting | 3/4" | 10 | 70 | pcs. | 106,84 Kč | 1 068,39 Kč | 7 478,71 Kč | SN-12 |
| Nut | Nut, 1 in. Nut for double compression fitting | 1" | 6 | 70 | pcs. | 203,61 Kč | 1 221,68 Kč | 14 252,90 Kč | SN-16 |
| Ferrule | | | | | | | | | |
| Ferrule | Ferrule Front, 1/4 in. Front Ferrule for double compression fitting | 1/4" | 10 | 70 | pcs. | 17,03 Kč | 170,32 Kč | 1 192,26 Kč | SFF-4 |
| Ferrule | Ferrule Back, 1/4 in. Back Ferrule for double compression fitting | 1/4" | 10 | 70 | pcs. | 15,87 Kč | 158,71 Kč | 1 110,97 Kč | SBF-4 |
| Ferrule | Ferrule Front, 3/8 in. Front Ferrule for double compression fitting | 3/8" | 10 | 70 | pcs. | 22,45 Kč | 224,52 Kč | 1 571,61 Kč | SFF-6 |
| Ferrule | Ferrule Back, 3/8 in. Back Ferrule for double compression fitting | 3/8" | 10 | 70 | pcs. | 23,23 Kč | 232,26 Kč | 1 625,81 Kč | SBF-6 |
| Ferrule | Ferrule Front, 1/2 in. Front Ferrule for double compression fitting | 1/2" | 10 | 70 | pcs. | 30,97 Kč | 309,68 Kč | 2 167,74 Kč | SFF-8 |
| Ferrule | Ferrule Back, 1/2 in. Back Ferrule for double compression fitting | 1/2" | 10 | 70 | pcs. | 29,42 Kč | 294,19 Kč | 2 059,35 Kč | SBF-8 |
| Ferrule | Ferrule Front, 3/4 in. Front Ferrule for double compression fitting | 3/4" | 10 | 70 | pcs. | 48,77 Kč | 487,74 Kč | 3 414,19 Kč | SFF-12 |
| Ferrule | Ferrule Back, 3/4 in. Back Ferrule for double compression fitting | 3/4" | 10 | 70 | pcs. | 46,45 Kč | 464,52 Kč | 3 251,61 Kč | SBF-12 |
| Ferrule | Ferrule Front, 1 in. Front Ferrule for double compression fitting | 1" | 10 | 70 | pcs. | 87,10 Kč | 870,97 Kč | 6 096,77 Kč | SFF-16 |
| Ferrule | Ferrule Back, 1 in. Back Ferrule for double compression fitting | 1" | 10 | 70 | pcs. | 80,52 Kč | 805,16 Kč | 5 636,13 Kč | SBF-16 |
| Ferrule | Nut and Ferrule Set, 1/4 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 1/4 in. | 1/4" | 10 | 70 | pcs. | 68,90 Kč | 689,03 Kč | 4 823,23 Kč | SFS-4 + SN-4 |
| Ferrule | Nut and Ferrule Set, 3/8 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 3/8 in. | 3/8" | 10 | 70 | pcs. | 95,61 Kč | 956,13 Kč | 6 692,90 Kč | SFS-6 + SN-6 |
| Ferrule | Nut and Ferrule Set, 1/2 in. Set - 1 Nut/1 Front Ferrule/1 Back Ferrule for 1/2 in. | 1/2" | 10 | 70 | pcs. | 124,65 Kč | 1 246,45 Kč | 8 725,16 Kč | SFS-8 + SN-8 |
| Reducers - Stainless Steel | | | | | | | | | |
| Reducer | | | | | | | | | |
| Reducer | Reducer, 1/4 in. Tube Fitting x 1 in. Tube Stub | 1/4" to 1" | 20 | 90 | pcs. | 260,52 Kč | 5 210,32 Kč | 23 446,45 Kč | SR-4-16 |
| Reducer | Reducer, 3/8 in. Tube Fitting x 1/2 in. Tube Stub | 3/8" to 1/2" | 20 | 90 | pcs. | 154,84 Kč | 3 096,77 Kč | 13 935,48 Kč | SR-6-8 |
| Reducer | Reducer, 1/2 in. Tube Fitting x 1 in. Tube Stub | 1/2" to 1" | 8 | 90 | pcs. | 274,06 Kč | 2 192,52 Kč | 24 665,81 Kč | SR-8-16 |
| Reducer | Reducer, 3/4 in. Tube Fitting x 1 in. Tube Stub | 3/4" to 1" | 4 | 90 | pcs. | 374,32 Kč | 1 497,29 Kč | 33 689,03 Kč | SR-12-16 |
| Hoses* | | | | | | | | | |
| Hoses PTFE | | | | | | | | | |
| Hose PTFE-Lined | Hose PTFE-Lined, SS Braided, 3/8 in. Tube Stub x 3/8 in. Tube Stub, 16.4 in. (41.7 cm) Live Length | 3/8" | 6 | 90 | pcs. | 1 257,14 Kč | 7 542,86 Kč | 113 142,86 Kč | SS-GMS6TA6TA6-42CM |
| Hose PTFE-Lined | Hose PTFE-Lined, SS Braided, 1/2 in. Tube Stub x 1/2 in. Tube Stub, 16 in. (40.6 cm) Live Length | 1/2" | 12 | 90 | pcs. | 2 285,71 Kč | 27 428,57 Kč | 205 714,29 Kč | SS-GMS8TA8TA8-40,6CM |
| Connectors - Stainless Steel | | | | | | | | | |
| Connector Male | | | | | | | | | |
| Connector Male | Connector Male, 1/4 in. Tube Fitting x 1/4 in. Male NPT | 1/4" | 10 | 80 | pcs. | 114,58 Kč | 1 145,81 Kč | 9 166,45 Kč | SMC-4-4N |
| Connector Male | Connector Male, Straight Shoulder, 1/4 in. Tube Fitting x 1/4 in. Male ISO Parallel Thread | 1/4" | 20 | 80 | pcs. | 151,74 Kč | 3 034,84 Kč | 12 139,35 Kč | SGMC-4-4G |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 3/8 in. Male ISO Parallel Thread | 3/8" | 20 | 80 | pcs. | 228,77 Kč | 4 575,48 Kč | 18 301,94 Kč | SGMC-6-6G |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 1/2 in. Male ISO Parallel Thread | 1/2" | 20 | 80 | pcs. | 344,13 Kč | 6 882,58 Kč | 27 530,32 Kč | SGMC-8-8G |
| Connector Male | Connector Male, 3/4 in. Tube Fitting x 3/4 in. Male NPT | 3/4" | 0 | 50 | pcs. | 339,48 Kč | - Kč | 16 974,19 Kč | SMC-12-12N |
| Connector Male | Connector Male, Straight Shoulder, 1 in. Tube Fitting x 1 in. Male ISO Parallel Thread | 1" | 6 | 80 | pcs. | 887,61 Kč | 5 325,68 Kč | 71 009,03 Kč | SGMC-16-16G |
| Connector Male - Reducing | | | | | | | | | |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 1/8 in. Male ISO Parallel Thread | 3/8" to 1/8" | 20 | 80 | pcs. | 191,23 Kč | 3 824,52 Kč | 15 298,06 Kč | SGMC-6-2G |
| Connector Male | Connector Male, 3/8 in. Tube Fitting x 1/4 in. Male ISO Tapered Thread | 3/8" to 1/4" | 20 | 80 | pcs. | 139,35 Kč | 2 787,10 Kč | 11 148,39 Kč | SMC-6-4R |
| Connector Male | Connector Male, 3/8 in. Tube Fitting x 1/2 in. Male NPT | 3/8" to 1/2" | 10 | 50 | pcs. | 185,03 Kč | 1 850,32 Kč | 9 251,61 Kč | SMC-6-8N |
| Connector Male | Connector Male, Straight Shoulder, 3/8 in. Tube Fitting x 1/2 in. Male ISO Parallel Thread | 3/8" to 1/2" | 20 | 80 | pcs. | 276,00 Kč | 5 520,00 Kč | 22 080,00 Kč | SGMC-6-8G |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 3/8 in. Male ISO Parallel Thread | 1/2" to 3/8" | 20 | 80 | pcs. | 312,00 Kč | 6 240,00 Kč | 24 960,00 Kč | SGMC-8-6G |
| Connector Male | Connector Male, Straight Shoulder, 1/2 in. Tube Fitting x 3/8 in. Male ISO Tapered Thread | 1/2" to 3/8" | 20 | 80 | pcs. | 205,16 Kč | 4 103,23 Kč | 16 412,90 Kč | SMC-8-6R |
| Connector Male | Connector Male, Straight Shoulder, 3/4 in. Tube Fitting x 1 1/16-12 Male SAE/MS Straight Thread | 3/4" to 1 1/16-12 | 6 | 70 | pcs. | 452,13 Kč | 2 712,77 Kč | 31 649,03 Kč | SSMC-12-12U |
| Connector Male | Connector Male, Straight Shoulder, 1 in. Tube Fitting x 1 5/16-12 Male SAE/MS Straight Thread | 1" to 1 5/16-12 | 6 | 70 | pcs. | 699,87 Kč | 4 199,23 Kč | 48 990,97 Kč | SSMC-16-16U |
| Connector Male Elbow 90° | | | | | | | | | |
| Connector Male Elbow | Positionable Male Elbow, 1/4 in. Tube Fitting x 7/16-20 Male SAE/MS Straight Thread | 1/4" to 7/16-20 | 10 | 70 | pcs. | 245,42 Kč | 2 454,19 Kč | 17 179,35 Kč | SPME-4-4U |
| Connector Male Elbow | Positionable Male Elbow, 3/4 in. Tube Fitting x 1 1/16-12 Male SAE/MS Straight Thread | 3/4" to 1 1/16-12 | 6 | 70 | pcs. | 992,52 Kč | 5 955,10 Kč | 69 476,13 Kč | SPME-12-12U |
| Connector Female | | | | | | | | | |
| Connector Female | Connector Female, 1/4 in. Tube Fitting x 1/4 in. Female ISO Tapered Thread | 1/4" | 20 | 80 | pcs. | 161,81 Kč | 3 236,13 Kč | 12 944,52 Kč | SFC-4-4R |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Tapered Thread | 1/2" | 10 | 80 | pcs. | 279,87 Kč | 2 798,71 Kč | 22 389,68 Kč | SFC-8-8R |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel (Gauge) Thread | 1/2" | 20 | 80 | pcs. | 458,71 Kč | 9 174,19 Kč | 36 696,77 Kč | SGC-8-8G |
| Connector Female | Connector Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel (JIS-7501) Thread | 1/2" | 5 | 80 | pcs. | 422,71 Kč | 2 113,55 Kč | 33 816,77 Kč | SGJ-8-8G |
| Connector Female - Reducing | | | | | | | | | |
| Connector Female | Connector Female, 3/4 in. Tube Fitting x 1/2 in. Female ISO Parallel Thread | 3/4" to 1/2" | 12 | 80 | pcs. | 684,77 Kč | 8 217,29 Kč | 54 781,94 Kč | SGC-12-8G |
| Connector Hose | | | | | | | | | |
| Connector - Hose | Connector Hose, 1/2 in. Hose Connector (Hose ID) x 3/8 in. Tube Stub | 1/2" | 0 | 40 | pcs. | 273,68 Kč | - Kč | 10 947,10 Kč | SPH-8-6TA-HCA |
| Connector - Hose | Connector Hose, 1 in. Hose Connector (Hose ID) x 1 in. Tube Stub | 1" | 0 | 40 | pcs. | 634,84 Kč | - Kč | 25 393,55 Kč | SPH-16-16TA-HCA |
| Adapters - Stainless Steel | | | | | | | | | |
| Adapter Male | | | | | | | | | |
| Adapter Male | Adapter Male, 1/4 in. Tube Stub x 1/4 in. Male NPT | 1/4" | 0 | 30 | pcs. | 75,87 Kč | - Kč | 2 276,13 Kč | SMA-4-4N |
| Adapter Male | Adapter Male, Straight Shoulder, 1/4 in. Tube Stub x 1/4 in. Male ISO Parallel Thread | 1/4" | 20 | 80 | pcs. | 79,35 Kč | 1 587,10 Kč | 6 348,39 Kč | SGMA-4-4G |
| Adapter Male | Adapter Male, Straight Shoulder, 3/8 in. Tube Stub x 3/8 in. Male ISO Parallel Threa | 3/8" | 20 | 80 | pcs. | 123,10 Kč | 2 461,94 Kč | 9 847,74 Kč | SGMA-6-6G |
| Adapter Male | Adapter Male, Straight Shoulder, 1/2 in. Tube Stub x 1/2 in. Male ISO Parallel Threa | 1/2" | 10 | 80 | pcs. | 160,26 Kč | 1 602,58 Kč | 12 820,65 Kč | SGMA-8-8G |
| Adapter Male - Reducing | | | | | | | | | |
| Adapter Male | Adapter Male, 3/8 in. Tube Stub x 1/2 in. Male NPT | 3/8" to 1/2" | 10 | 50 | pcs. | 140,90 Kč | 1 409,03 Kč | 7 045,16 Kč | SMA-6-8N |
| Adapter Female | | | | | | | | | |
| Adapter Female | Adapter Female, 1/4 in. Tube Stub x 1/4 in. Female ISO Parallel (Gauge) Thread | 1/4" | 12 | 80 | pcs. | 123,87 Kč | 1 486,45 Kč | 9 909,68 Kč | SGFA-4-4G |

| | | | | | | | | | |
|---|--|----------------------------|----|-----|----------|-------------|--------------|---------------|--------------------------------|
| Adapter Female | Adapter Female, 3/4 in. Tube Stub x 1/4 in. Female ISO Tapered Thread | 1/4" | 12 | 80 | pcs. | 117,68 Kč | 1 412,13 Kč | 9 414,19 Kč | SFA-4-4R |
| Adapter Female | Adapter Female, 3/8 in. Tube Stub x 3/8 in. Female ISO Parallel (Gauge) Thread | 3/8" | 12 | 80 | pcs. | 167,23 Kč | 2 006,71 Kč | 13 378,06 Kč | SGFA-6-6G |
| Adapter Female | Adapter Female, 1/2 in. Tube Fitting x 1/2 in. Female ISO Parallel Thread | 1/2" | 12 | 80 | pcs. | 249,29 Kč | 2 991,48 Kč | 19 943,23 Kč | SGFA-8-8G |
| Adapter Elbow 90° | | | | | | | | | |
| Adapter - Elbow | Adapter - Elbow, 3/8 in. Tube Stub x 3/8 in. Tube Fitting | 3/8" | 10 | 70 | pcs. | 503,23 Kč | 5 032,26 Kč | 35 225,81 Kč | CAL-6 |
| Valves - Stainless Steel | | | | | | | | | |
| Valve - Needle - Regulating | | | | | | | | | |
| Valve - Needle | Valve - Needle, 1/4 in. Tube Fitting x 1/4 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.3 Cv, min 0.150" Orifice | 1/4" | 10 | 100 | pcs. | 950,32 Kč | 9 503,23 Kč | 95 032,26 Kč | SINV2-S4-RS |
| Valve - Needle | Valve - Needle, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.55 Cv, min 0.200" Orifice | 3/8" | 20 | 100 | pcs. | 1 227,48 Kč | 24 549,68 Kč | 122 748,39 Kč | SINV3-S6-RS |
| Valve - Needle | Valve - Needle, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 0.7 Cv, min 0.250" Orifice | 1/2" | 20 | 100 | pcs. | 1 255,35 Kč | 25 107,10 Kč | 125 535,48 Kč | SINV3-S8-RS |
| Valve - Needle | Valve - Needle, 3/4 in. Tube Fitting x 3/4 in. Tube Fitting, Bonnet Needle Valve, Regulating Stem, min 1.7 Cv, min 0.350" Orifice | 3/4" | 6 | 40 | pcs. | 2 624,13 Kč | 15 744,77 Kč | 104 965,16 Kč | SINV4-S12-RS |
| Valve - Ball | | | | | | | | | |
| Valve - Ball | Valve - Ball, 3/8 in. Tube Fitting x 3/8 in. Tube Fitting, 1 Piece Ball Valve, 2 way, min. 1.5 Cv | 3/8" | 20 | 100 | pcs. | 1 455,48 Kč | 29 109,68 Kč | 145 548,39 Kč | SBV120H2-S6 |
| Valve - Ball | Valve - Ball, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, 1 Piece Ball Valve, 2 way, min. 1.5 Cv | 1/2" | 20 | 100 | pcs. | 2 680,26 Kč | 53 605,16 Kč | 268 025,81 Kč | SBV120H4-S8 |
| Valve - Check | | | | | | | | | |
| Check Valve | Poppet Check Valve, 1/2 in. Tube Fitting x 1/2 in. Tube Fitting, Cracking Pressure 1/3 psig (0.03 bar) | 1/2" | 10 | 70 | pcs. | 1 543,74 Kč | 15 437,42 Kč | 108 061,94 Kč | SHCV2-S8-0.3P |
| Check Valve | Poppet Check Valve, 1 in. Tube Fitting x 1 in. Tube Fitting, Cracking Pressure 1/3 psig (0.03 bar) | 1" | 4 | 70 | pcs. | 4 488,00 Kč | 17 952,00 Kč | 314 160,00 Kč | SHCV3-S16-0.3P |
| Handle Kit | | | | | | | | | |
| Handle Kit | Blue Handle Kit Blue Handle Kit - Bonnet Needle Valve | | 6 | 100 | pcs. | 387,10 Kč | 2 322,58 Kč | 38 709,68 Kč | HANDLE-KIT-SINV2-BLUE |
| Handle Kit | Red Handle Kit Red Handle Kit - Ball Valve, Stainless Steel Insert | | 6 | 140 | pcs. | 735,48 Kč | 4 412,90 Kč | 102 967,74 Kč | HANDLE-KIT-SBV120H2-BLUE |
| Flange Adapter - Stainless Steel | | | | | | | | | |
| Flange Adapter | | | | | | | | | |
| Flange Adapter | Flange Adapter, DN25 Flange EN 1092-1/11/DN25/PN16 B1 x 1 in. Tube Fitting | 1" | 6 | 110 | pcs. | 3 583,87 Kč | 21 503,23 Kč | 394 225,81 Kč | DN25/PN16 EN 1092-1B1 SU1" |
| Gaskets | | | | | | | | | |
| Gasket PTFE | | | | | | | | | |
| Gasket PTFE | Gasket PTFE, 1/2 in. PTFE Gasket for ISO Parallel Thread Fitting, | 1/2" | 30 | 260 | pcs. | 15,00 Kč | 450,00 Kč | 3 900,00 Kč | IGG-8-PTFE |
| Gasket SS - Stainless Steel | | | | | | | | | |
| Gasket SS | Gasket SS, 1/8 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/8" | 20 | 200 | pcs. | 85,16 Kč | 1 703,23 Kč | 17 032,26 Kč | IBG-2-03 |
| Gasket SS | Gasket SS, 1/4 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/4" | 30 | 250 | pcs. | 86,71 Kč | 2 601,29 Kč | 21 677,42 Kč | IBG-4-03 |
| Gasket SS | Gasket SS, 3/8 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 3/8" | 30 | 250 | pcs. | 92,90 Kč | 2 787,10 Kč | 23 225,81 Kč | IBG-6-03 |
| Gasket SS | Gasket SS, 1/2 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1/2" | 30 | 250 | pcs. | 96,77 Kč | 2 903,23 Kč | 24 193,55 Kč | IBG-8-03 |
| Gasket SS | Gasket SS, 1 in. SS Gasket for ISO Parallel Thread Fitting, Fluorocarbon FKM Inner Ring | 1" | 20 | 200 | pcs. | 116,13 Kč | 2 322,58 Kč | 23 225,81 Kč | IBG-16-03 |
| Manometers - Stainless Steel | | | | | | | | | |
| Manometer | | | | | | | | | |
| Manometer | Industrial Pressure Gauge, 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, 0 to 6 Bar, | 1/4" | 6 | 60 | pcs. | 3 140,00 Kč | 18 840,00 Kč | 188 400,00 Kč | RCH 63-3 6BAR/PSI TA4 O2 |
| Manometer | Industrial Pressure Gauge, 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, -1 to 3 Bar, | 1/4" | 6 | 60 | pcs. | 3 244,94 Kč | 19 469,64 Kč | 194 696,40 Kč | RCH 63-3 RM -1-3BAR/PSI TA4 O2 |
| Manometer | Industrial Pressure Gauge, 50 - 70 mm, Dial Diameter (range e.g. 2 in.-3 in.), accuracy (eg. 3% of total range), main scale in bar, 0 to 10 Bar | 1/4" | 6 | 60 | pcs. | 3 244,94 Kč | 19 469,64 Kč | 194 696,40 Kč | RCH 63-3 RM 10BAR/PSI TA4 O2 |
| Tubing - Stainless Steel | | | | | | | | | |
| Tubing | | | | | | | | | |
| Tubing | Tubing 1/4, Stainless Steel Seamless Tubing, 1/4 in. OD x min 0.035 in. Wall | 1/4" | 90 | 720 | m | 137,90 Kč | 12 411,29 Kč | 99 290,32 Kč | 316L-T4-S-036-6ME-S |
| Tubing | Tubing 3/8, Stainless Steel Seamless Tubing, 3/8 in. OD x min 0.035 in. Wall | 3/8" | 90 | 720 | m | 197,42 Kč | 17 767,74 Kč | 142 141,94 Kč | 316L-T6-S-036-6ME-S |
| Tubing | Tubing 1/2, Stainless Steel Seamless Tubing, 1/2 in. OD x min 0.049 in. Wall | 1/2" | 90 | 720 | m | 256,45 Kč | 23 080,65 Kč | 184 645,16 Kč | 316L-T8-S-049-6ME-S |
| Tubing | Tubing 3/4, Stainless Steel Seamless Tubing, 3/4 in. OD x min 0.065 in. Wall | 3/4" | 6 | 36 | m | 345,97 Kč | 2 075,81 Kč | 12 454,84 Kč | 316L-T12-S-065-6ME-S |
| Tubing | Tubing 1, Stainless Steel Seamless Tubing, 1 in. OD x min 0.083 in. Wall | 1" | 24 | 228 | m | 532,26 Kč | 12 774,19 Kč | 121 354,84 Kč | 316L-T16-S-083-6ME-S |
| UHP Tubing | UHP Tubing 3/8, Ultra High Purity, Stainless Steel Seamless Tubing, 3/8 in. OD x min. 0.035 in. Wall | 3/8" | 24 | 228 | m | 793,55 Kč | 19 045,16 Kč | 180 929,03 Kč | 316L-T8M-S-1.0M-6ME-S-DC-025 |
| Accessories | | | | | | | | | |
| Accessories | Tube Cutter, Tube Cutter for Stainless Steel Tubing from 3/16 to 1 in. OD | 1/4" to 3/8" to 1/2" to 1" | 0 | 5 | pcs. | 1 791,01 Kč | - Kč | 8 955,03 Kč | PT-C-R |
| Accessories | Tube Cutter Wheel, Tube Cutter Replacement Cutting Wheel | | 5 | 50 | pcs. | 321,60 Kč | 1 608,00 Kč | 16 080,00 Kč | PT-CS-R |
| Accessories | Tube Deburring Tool, Tube Deburring Tool, 3/16 in. to 1 1/2 in. and 4 to 38 mm OD | 1/4" to 3/8" to 1/2" to 1" | 0 | 3 | pcs. | 1 095,35 Kč | - Kč | 3 286,06 Kč | PT-D |
| Services | | | | | | | | | |
| Bender | | | | | | | | | |
| Services | Safety and installation training for 8 ELI technicians , which must include practical onsite training in proper tube selection, cutting and deburring and proper use of supplied compression fitting assemblies, as well as correct tube bending and use of bending tools and cover safety aspects of the compressed air and water installations, minimum duration 1 day | | 1 | 2 | training | 4 000,00 Kč | 4 000,00 Kč | 8 000,00 Kč | |
| Services | Rental of Bench top Tube bender for tube OD 1/2" and OD 1" (price per day) | | 0 | 60 | day | 1 500,00 Kč | - Kč | 90 000,00 Kč | |
| Services | Rental of hydraulic swaging units for tube OD 1" (price per day) | | 0 | 60 | day | 1 000,00 Kč | - Kč | 60 000,00 Kč | |

675 461 Kč

6 221 528 Kč

General requirements: see RSD document RD-01

* Length of offered flexible hoses can differ by up to +/- 20% from specified