



MARKET SURVEY TECHNICAL QUESTIONNAIRE

REF. IO/MSY/22/CIO/EBT

DESIGN AND SUPPLY OF PIEZOELECTRIC-PILOTS PNEUMATIC CONTROL-VALVE WITH PASSIVE ELECTRONICS

Firms interested in participating to this market survey shall return a completed questionnaire to the following email address Emilie.Blanchet@iter.org, no later than Friday 01 September 2022.

Please note that this is not a Call for Nomination request. The purpose of this market survey is receive feedback from the potential suppliers so that the IO may plan a good and suitable contract and procurement strategy for this project. Your answers are not considered as binding nor contractual and the IO appreciates very much honest feedbacks.

For all questions in the document, please refer to the ITER Market Survey Technical Requirements ref. ITER_D_7V4D3P version v1.0 dated 18 July 2022.

china

eu

india

japan

korea

russia

usa

1. General information about the Company / Institute compiling the questionnaire

Company Name:

Persons to be contacted:

Contact person	Name + Title	Email address	Telephone
<u>Commercial Matters:</u>			+
<u>Technical Matters:</u>			+

Main activities

Main activities	Description
1.	
2.	
3.	
.....	

Turnover

Contact person	Turnover 2019	Turnover 2020	Turnover 2021	Number of employees

All activities				
<i>In the field of Nuclear Valve</i>				
<i>In the field of Piezoelectric pilot</i>				

2. Technical Competence and Experience

2.1 Nuclear Valve Availability.

Do you have Nuclear Valve in your catalogue?

YES

NO

If YES, please provide overview:

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If NO, should you be interested to develop such technology:

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.....

.....

2.2 Piezoelectric pilot Availability.

Do you have piezoelectric pilot in your catalogue?

YES

NO

If YES, please provide overview:

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If NO, should you be interested to develop such technology:

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2.3 Qualification Experience.

Do you have experience in qualification?

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YES

NO

If YES, please indicate the number of project where you have provided qualification equipment and the list of the most significant projects:

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2.4 Qualification Standard.

Have you already performed qualification using qualification codes/standards ?

YES

NO

If YES, please list the qualification codes/standards used:

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2.5 Static Magnetic Field.

As detailed in the Market Survey Summary Specifications, have you already designed valves or piezoelectric pilot to be used in strong static magnetic field?

YES

NO

If YES, please provide some examples and the values of the dimensioning Static Magnetic Field:

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2.6 Radiation Environment.

As detailed in the Market Survey Summary Specifications, have you already designed valves or piezoelectric pilot to be used in Radiation Environment?

YES

NO

If YES, please provide some examples and the values of the dimensioning Radiation Environment:

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1.1 Neutrons – High-Energy Neutrons.

Have you already designed valves or piezoelectric pilot to be used in Environment with Fast Neutrons – High-Energy Neutrons?

YES

NO

If YES, please provide some examples and the values of the dimensioning values of Fast Neutrons – High-Energy Neutrons:

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1.2 Challenges and Capabilities.

Do you see technical difficulties in the scope of this supply = design, qualification...?

YES

NO

If YES, please identify the main challenges:

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If YES, are these difficulties a showstopper for your company to participate to the development of the piezoelectric-pilots pneumatic control-valve? On which conditions will your company be able to participate in the project? (Please explain):

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1.1 Challenges and Capabilities.

1.2 Does your company have experience in Detailed Analysis as described in the Market Survey Summary Specifications?

YES

NO

If YES, please clarify the type of analysis that you would provide. If NO, please clarify if what would be your approach:

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1.3 Challenges and Capabilities.

Does your company have capabilities to manufacture piezoelectric-pilots pneumatic control-valve with passive electronics?

YES

NO

If YES, please clarify if these capabilities are “in house” in your own premises or with sub-contracting:

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2. Project Schedule

2.1 *How many months do you need to develop a prototype of piezoelectric-pilots pneumatic control-valve with passive electronics considering all requirements listed in the Market Survey Summary Specifications?*

Please could you provide us with development duration for piezoelectric-pilots pneumatic control-valve:

.....

2.2 *How many months do you need to perform the activities starting from the design to the functional test (Design, Detailed Analysis, Prototype, Functional tests), as indicated in the Market Survey Summary Specifications?*

Please could you provide us with the estimated duration for each phase:

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2.3 Which of the phases listed in Market Survey Summary Specifications are for you the most critical phase?

Please could you indicate the risk and one possible mitigation:

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3. General Questions

3.1 Do you have any concerns related to the effects of radiation on the piezoelectric-pilots pneumatic control-valve with passive electronics?

YES

NO

If YES, please could you give us your concerns:

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3.2 Do you have any concerns related to the effects of static magnetic field on the piezoelectric-pilots pneumatic control-valve with passive electronics?

YES

NO

If YES, please could you give us your concerns:

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3.3 Please indicate any other information that may be relevant for this Market Survey.

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Market Survey. Piezoelectric-pilots pneumatic control-valve with passive electronics.
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4. Quality Assurance

Are you certified ISO 9001 or equivalent?

YES

NO

Please specify your certifications.

<i>QA Certifications</i>	<i>Comments</i>	<i>Validity Period</i>

5. Non-binding Budgetary Offer

5.1 If possible, could you please indicate your estimate of the project costs based on rough-order-magnitude? (e.g. design costs, detailed analysis costs, prototype costs, manufacturing and testing costs, qualification costs etc)

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Signature:

COMPANY STAMP

Name:

Position:

Tel:

Date:

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