



Market Consultation

(underground) control valves for the benefit of N.V. Nederlandse Gasunie

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N.V. Nederlandse Gasunie
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1 GENERAL INFORMATION

1.1 N.V. Nederlandse Gasunie

Gasunie is a European gas infrastructure company. The Gasunie network is one of the largest high-pressure pipeline networks in Europe and consists of more than 15.000 km of pipelines in The Netherlands and Northern Germany, dozens of installations, and approximately 1.300 gas receiving stations.

The annual throughput of gas is approximately 125 billion cubic meters. Gasunie serves the public interest in the markets in which it is active and strives to create optimal value for stakeholders.

More information about Gasunie can be found on www.gasunie.nl/en/startpagina.

1.2 Market consultation

Gasunie wants to get a better impression of the available possibilities in the market regarding (underground) control valves.

With this consultation Gasunie wants to get an impression:

- How many suppliers can offer specific control valves that meet the requirements;
- What are the possibilities that are available within the set of requirements;
- What maintenance options are available;

The information that Gasunie receives by this consultation will be used to set out the purchasing strategy for control valves and to prepare a possible (EU) tender.

1.3 Control valves

Control valves are used to regulate the flow or pressure rate in our gas distribution network. It is a power device which changes the flow rate as the final control element of a process control system. It consists of a valve connected to an actuator that is capable of changing the position of a closure member in the valve in response to a signal from the process control system.

These valves will be used in natural gas or nitrogen systems under the following conditions:

- medium: non-corrosive natural gas or nitrogen;
- working pressure: 80 bar or less;
- design temperature range: -20 °C to +80 °C.

1.4 General requirements

The following technical requirements are applicable:

- Control valves shall only be used for throttling purposes.
- Control valves for general purpose shall have leakage class IV according to EN 60534-4. For tight shut-off Gasunie also requires the leakage rate shall be specified in accordance with EN 60534-4 leakage class VI.
- The maximum allowable sound pressure level at 1 meter distance from the piping and 1 meter downstream of the valve shall not exceed 80 dB(A).
- Gasunie requires control valves for aboveground or underground installation. The actuator shall always be placed aboveground.
- Gasunie requires electrically operated control valves and pneumatically operated control valves by natural gas, instrument air or nitrogen.
- Gasunie requires linear or equiprocentual characteristics for its valves

More details about the requirements can be found in the technical standards of Gasunie.

Gasunie technical standards

Gasunie has several technical standards that are applicable for this type of valves:

- OSM-03-E version 6 Control valves; general requirements and sizing
- MSW-03-E/6 version 5 Control Valves
- CSM-01-E version 11 Instrument tubing and tube fittings (installation and testing).

- MSM-01-E version 14 Instrument tubing and tube fittings (material and sizing).
- MSW-11-E version 12 Shop coating of steel structures and pipeline elements.

The standards are attached to this consultation.

The specifications of the control valves will be based on the GTS_OSM-03-E (version 6). The control valves need to comply with GTS_MSW-03-E/6.

Maintenance

Supplier has to be able to make analyses if maintenance is necessary. Also supplier must be able to do revisions of the control valves.

Scope order

The scope of an order will be engineering, production, testing, delivery, and commissioning of the control valves. Supplier has its own engineering and production department for the valve body.

2 PROCEDURE

2.1 Schedule

Activity	Date / Period
Publication of the consultation via Tendered	26 April 2019
Deadline submission of response	23 May 2019

2.2 Exchange of information

The exchange of information for this market consultation is carried out electronically via Tendered, www.tendered.nl. The use of Tendered is free of charge.

You can send your answers in Annex 1 to: S.T.Beijer@Gasunie.nl

For questions about this consultation you can contact the contact person for this consultation, Mrs. S.T. Beijer at tel. +31 6 1100 5939.

2.3 Conditions

By taking part in this market consultation you agree with the following conditions:

1. Answers must be send via email to the contact person of this consultation.
2. Communication is in the English language. You can answer the questions in Dutch or English.
3. Participants cannot derive any rights based on this market consultation.
4. Your answers are confidential and shall only be shared within Gasunie;
5. The provided information is only used for tendering strategy and documents;
6. If your answers give reason for further information, we will contact you;
7. Gasunie is not bound to the results of the market consultation.
8. No rights may be derived from the planning. Gasunie retains the right to change the planning.

Annex 1 Question form

1. General information about your company.

Name company:

Contact person:

Address:

2. Does your company have experience with detail design of control valves for specific situations including calculations and sizing? And how long has your company this experience? Please explain.

Answer:

3. Does your company have experience with production, testing and commissioning of control valves? And how long has your company this experience? Please explain.

Answer:

4. Do you have your own production location? And if yes, where is/ are your production location(s) situated?

Answer:

5. Does your company have experience with analyses and maintenance/ revision of control valves? If yes, please explain.

Answer:

6. Does your company have the facilities of question 5 in house or do you hire third parties?

Answer:

7. Does your company have experience with underground installation of control valves? If yes, please explain.

Answer:

8. Please provide an as complete as possible overview of the additional valve characteristics/options you can deliver, like mono- or bi-directional, valve characteristics (linear, equiprocentual, etc.), possible sound cages, stem extensions etc.

Answer:

9. What type of actuator can you deliver for control valves, pneumatic or electronically driven? How does the operating system of the pneumatic and/ or electronical driven control valve work?

Answer:

10. In case of sustainability Gasunie prefers less emissions and low energy usage.

- a. Does your company have solutions to decrease or prevent gas emissions?
- b. Does your company have solutions for low energy usage/ power supply? Please explain what options you can offer.

Answer:

11. If the power supply (electronical, gas or air) shuts down, how does your control valve react?

Answer:

12. Gasunie is in the middle of a energy transition and organizes pilots with other types of gasses like CO₂, N₂, H₂ and biogas. Does your company have experience with these types of gasses? If yes,

- a. With which of these gasses do you have experience?
- b. Please give some examples/ references of recent deliveries.
- c. At what part of the valve has it impact?
- d. What would you advise Gasunie to keep in mind for the control valves in case they are used for CO₂, N₂, H₂ or biogas?

Answer:

13. Do you have any reference projects where your company has delivered control valves in the last 5 years? If yes, please give examples.

Answer:
