

MATERIAL SPECIFICATION

Specification no.: R.000266-MF-A999-44

Version : 00

Date : 08-10-2025

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LOCATION A999**Zero Emission Spring return HPSP
actuator**

NAME	INITIALS	DEPT.	DATE
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Department : OTEI

Project no. : R.000266.40.CX.01

Location no. : A999

Location name : Miscellaneous

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1. PURPOSE OF THIS SPECIFICATION

The objective of this specification is to provide information necessary to prepare a proposal for the design, manufacture, delivery, installation and commissioning of zero emission spring return HPSP actuators incl. controls

The function of the actuator is to actuate a existing valve without external energy. The actuator shall close the valve on a high pressure setting between 25-46 bar. The sense control shall be manually reset. And the valve shall be manually opened.

2. REFERENCES

This specification is subject to the requirements of the documents stated in this clause. The latest edition that is valid when the project specification was approved will be applicable in each case.

2.1 Gasunie specifications

Reference is made in this specification to the following Gasunie specifications:

CSA-38-N	Safety, health and environmental management at construction sites (bilingual version).
CSM-01-E	Instrument tubing and tube fittings (installation and testing).
MSA-23-N	Handling, opslag en kwaliteitsbewaking materialen
MSA-25-E	Packing and marking.
MSM-01-E	Instrument tubing and tube fittings (material and sizing)
MSM-08-E versie 11L dd 04-08-2025 CONFORMITY	Valve actuators.

2.2 Standards

Reference is made in this specification to the standards stated in this subclause. Any supplements and errata notices that are valid when the project specification was approved are also applicable.

EN 10204	Metallic products; types of inspection documents.
EN 60529	Degrees of protection provided by enclosures (IP Code).
EN ISO 5211	Industrial valves; Part-turn actuator attachments.
EN ISO/IEC 17050-1	Conformity assessment – Supplier's declaration of conformity. Part 1: General requirements
EN ISO/IEC 17050-2	Part 2: Supporting documentation
2014/68/EU	Directive 2014/68/EU of the European parliament and of the Council of 15 May 2014 on the approximation of the laws of the Member States concerning pressure equipment.
2014/34/EU	Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres.

3. DEFINITIONS AND ABBREVIATIONS

3.1 Definitions

In this specification the following definitions are applicable:

Bidder	The company which issues a quotation for the materials and work as described in this specification
Gasunie	N.V. Nederlandse Gasunie
RED-form	Required Engineering Documents form
REQ-form	Required Engineering and Quality documents form
Supplier	The company which enters into contract with Gasunie for the scope as described in this specification.

3.2 Abbreviations

In this specification the following abbreviations are applicable:

FAT	Factory acceptance test
HPSD	High Pressure Shut Down
ITP	Inspection and Test Plan
SAT	Site acceptance test

4. REQUIREMENTS FOR PROPOSAL AND QUOTATION

The proposal, including full documentation, shall be submitted to Gasunie and written in English or Dutch. Bidder shall address all exceptions, in a separate exception list, from the specification and shall comply with all requirements to which no exceptions are presented. All exceptions shall be stated in the same order as the specification and with reference to the section number.

4.1 Price

The proposal shall include the total project price, and in addition, separate prices for the following items:

- actuator including all required appendages;
- control system;
- coating actuator;
- FAT and SAT e.g. performance and acceptance test;
- Complete RED and REQ documentation.

4.2 Planning schedule

The bidder is to provide, as part of his proposal, a detailed production schedule in weeks of the delivery. This detailed planning schedule shall at least contain the following items:

- approval time for documents;
- delivery time actuator;
- delivery time controls;
- coating-actuator;
- PIM coordination;
- FAT period;
- SAT (commissioning).

4.3 Subcontractors

If bidder intends to subcontract part(s) of the delivery, he shall state name and location of the subcontractor(s). He shall also give an indication as to which part and percentage of the total material and/or work will be subcontracted.

All subcontractors shall meet the requirements as stated in this specification and shall be subject to Gasunie approval.

4.4 Additional information

In case additional information or engineering is expected to be delivered by Gasunie, which is not mentioned in this specification, supplier shall indicate this in his proposal. If this should include filling out forms, a typical copy of these forms shall be included with the proposal.

5. SCOPE OF WORK AND GENERAL CONDITIONS

5.1 Specification

The material specification (this document, including all appendices) contains all information necessary for the preparation of a proposal and for the design of the actuator and controls. However, supplier remains responsible to acquire all information, including the latest revision of Gasunie standards, which is necessary to make a detailed proposal. If the information as presented by Gasunie is considered to be insufficient, supplier is obliged to ask additional information.

5.2 Scope of supply

5.2.1 Supplier

Supplier shall design, manufacture, deliver and put into operation the complete system of actuator and controls in accordance with this specification including all appendices. Supplier shall furnish all the engineering, fabrication, equipment, materials, drawings, data sheets, instruction books, complete ITP etc. required for the design, inspection, installation, maintenance and operation of the actuator and controls.

The scope of supply consist of:

- actuators;
- controls;
- fabrication;
- factory acceptance test;
- installation work at workshop;
- transportation to central warehouse Gasunie incl. packing and marking;
- documentation, drawings, complete ITP and certificates;
- Site acceptance test (commissioning).
- Following the provisional award, a Proof of Concept (PoC) will be conducted. Upon successful completion of the PoC, the final award will be granted. The supplier is expected to fully cooperate in the execution of the PoC

NOTE: Installation works at Gasunie sites is not part of scope.

5.2.1.1 Valves

The zero emission HPSD actuators shall be mounted on existing valves, installed in Gasunie measuring & regulating assets. See data sheet Annex A "data sheet existing ball valves" for the existing valve data. Gasunie will be responsible for mounting the actuators onto the existing valves.

5.2.1.2 Actuators

The actuators shall comply with MSM-08-E and the applicable actuator data sheet, as shown in annex B "data sheet valve actuator".

5.2.1.3 Controls

The controls must be mounted on the actuator.

5.2.1.4 Fabrication and installation work

Vent, drain and sealant injection connections of the existing valve shall remain accessible.

5.2.1.5 Assembly and mounting materials

The supplier shall provide all necessary assembly and mounting materials not specified in the referenced documents or drawings. Which is required to ensure a complete and technically correct delivery.

5.2.1.6 Coating

Coating of the actuator shall be in accordance with MSM-08-E.

5.2.1.7 Transportation, packing and marking

Transportation to Gasunie's central warehouse or directly to the site will be specified in the purchase order. Packing and marking shall be executed in accordance with MSA-25-E.

Supplier shall state in his proposal if the actuator and controls will be transported as one unit or as separate units.

5.2.2 Other aspects

5.2.2.1 Specification and attachments

This specification and the attachments are intended to cover all the work to be performed to such an extent that supplier will be able to make a detailed proposal and quotation.

5.2.2.2 Labour and materials

Unless specifically excluded all labour and materials not specified or indicated, but necessary to complete the work in a proper, substantial and workmanlike manner are to be furnished by supplier. This includes all tubing for the interconnection of parts which make up the specified actuator and controls.

5.2.2.3 Total design

The total design shall be such, that it will provide optimum efficiency, simplicity, ease of operation, and accessibility for inspection, maintenance, adjustment, and repair purposes.

The total design shall also fit for purpose under the environmental conditions encountered after installation and (additional) handling provisions shall be constructed and coated in such a manner that coating damage is excluded or at least minimized till placement in the field.

5.2.2.4 *Applicable laws, codes and standards*

Supplier shall make sure that the actuator and controls, when installed, will comply with the applicable laws, codes and standards.

5.3 **Inspection and testing**

5.3.1 ***Factory acceptance test***

The FAT will consist of:

- all tests as described in [MSM-08-E](#) for actuators and control unit(s);
- a functional test as described in subclause 5.3.2 of the actuator and controls as composition.

Note:

Supplier is permitted to outsource (of subcontract) the FAT of the actuator to the actuator supplier.

5.3.2 ***Functional test***

The functional test shall demonstrate the good working of all functions specified in this specification and the relevant drawings, specifically the accuracy and repeatability of the high sense pilot.

All inspection and testing shall be performed according to the mutual approved quality, test and inspection plan.

5.3.3 ***Shop test or visual inspection***

Supplier shall take into account that Gasunie will not take part in any shop test or visual inspection, unless the part of the delivery which is being inspected or tested has been completed and thoroughly inspected and tested by supplier in advance.

Supplier is required to advise Gasunie, by email or phone, prior to any Gasunie inspections or tests if the supplier's inspections and tests are completed.

5.4 **Site acceptance test**

After installation of the actuator and controls at site a complete function test (SAT) shall be carried out to check the operation of the valve, actuator and controls in combination with other equipment involved.

For this SAT supplier shall prepare a protocol on which any deviation will be stated. The protocol shall contain as a minimum:

- purchase order number;
- Location;
- tag number;
- High pressure setpoint;
- Mechanical end positions (open /close)
- Adjustment of the limit switches
- Activation pressure (3 times);
- transition time to open;
- transition time to close.

5.5 Documentation, drawings and certificates

5.5.1 Requirements for documents

An overview of all required documentation, drawings and certificates will be given in the [RED](#) (Required engineering documents) form, which is part of this specification, see annex C "RED valve and actuator combinations".

5.5.2 Engineering and operating documents

All engineering and operation documents shown on the [RED](#) form in the column approval are subject to approval by Gasunie. Approval of such documents shall be general only and shall not relieve supplier of the responsibility to manufacture actuator and controls which is (are) in accordance with this specification.

Calling supplier's attention to certain errors does not imply correctness of other features not corrected or mentioned and does not relieve supplier of the responsibility for the said other features. Dimensions shall be given in metric units.

5.5.3 Normal approval time for documents

The normal approval time for documents and drawings is 15 working days. As an exception, in case supplier needs immediate approval for documents or drawings, he shall inform Gasunie by e-mail.

5.6 Discrepancies

Any discrepancies in this specification or between this specification and drawings, or anything of which the significance is not clear shall be reported in writing by the supplier.

5.7 Minutes of meeting

5.7.1 Meeting report

Supplier shall make minutes of each meeting held with Gasunie or the Gasunie-representative. Such a meeting report shall be sent to Gasunie within one week after the meeting. The minutes of meeting shall at least include:

- the date, place and time of the meeting;
- a listing of persons present at the meeting;
- the discussed subjects;
- all appointments made, including those concerning alterations;
- in case of alterations, the reason why those alterations are necessary;
- a listing of actions, including the responsible persons for those actions and dates on which those actions shall be finished;
- statement of formal accordance with the preceding meeting report;
- an overview of outstanding actions;
- a formal approval of the previous minutes.

5.7.2 Gasunie approval

Minutes of meetings may be subject to Gasunie approval.

5.7.3 *Numbering of minutes of meeting*

Supplier shall number all minutes of meeting in chronological order.

5.8 *Confirmation of telephone conversations*

Supplier shall confirm every telephone conversation with Gasunie by e-mail.

5.9 *Scope changes*

All changes to the original order, irrespective of whether they result in a price increase/reduction or not, require approval by Gasunie. Approval shall be confirmed by a revised purchase order.

5.10 *Ambient and other influences*

The actuator and controls shall function properly at all stated conditions.

Consequences of requirements not explicitly stated in the proposal will be the supplier's responsibility, including additional costs resulting from these requirements.

5.10.1 *Actuator(s) and controls*

All requirements are stated in MSM-08-E.

5.11 *Safety at site*

Supplier shall be acquainted with the Gasunie safety rules at site. If applicable, supplier shall prepare a site safety plan in accordance with CSA-38-E. This safety plan shall be approved by Gasunie's construction supervisor before start of working activities at site.

5.12 *Other requirements*

5.12.1 *Responsibility*

Supplier is fully responsible for work carried out by his subcontractors.

5.12.2 *Definition of make or type*

If Gasunie defines make or type of any equipment or materials to be used in the actuator and controls this will be stated in this specification and MSM-08-E.

Supplier shall remain responsible for all equipment and material which are part of the actuator and controls including material and equipment which has been specified by Gasunie. Supplier shall make sure that equipment and materials specified by Gasunie suit their purpose. If supplier wishes to use equipment or materials different from the make or type stated by Gasunie, supplier shall supply all relevant details as part of his proposal.

ANNEXES**A DATA SHEET EXISTING BALL VALVES**

DATA SHEET						Specification no. : R.000266-MF-A999-44	
BALL VALVES						Version : 00	
						Date : 08-10-2025	
						Page 13	of 20
EXISTING VALVES						TO BE COMPLETED BY MANUFACTURER	
1. Quantity	2. Gasunie material code	3. Type	4. Nominal Size	5. BAT [Nm]	6. MAST [Nm]	7. Actuator type	8. Hydraulic relief setting HPSP
1	1356640	RMA HKSW100PMSS	DN150	1600	3485		
3	8304104	CAMERON 28	DN100	305	2471		
2	8304108	CAMERON 28	DN150	858	2471		
1	8307351	GROVE B4	DN100	242	1169		
4	8307499	GROVE B5	DN150	922	2107		
2	8307500	GROVE B5	DN200	1465	5227		
1	8307645	GROVE B5	DN200	1465	5227		
1	8314109	RMA HKSW100PMSS	DN100	650	1303		
1	8389117	RMA HKSW100	DN150	1600	3485		

B DATA SHEET VALVE ACTUATOR

DATA SHEET		Specification no.: R.000266-MF-A999-44	
VALVE ACTUATOR		Version : 00	
		Date : 08-10-2025	
		Page 14	of 20
1 Specification		: MSM-08-E	
DESCRIPTION	2 On wired label	: Tag number N/A	
VALVE DATA	3 Is actuator purchased in combination with valve?	☒ No (specify items 4 u/i 55) ☐ Yes (specify items 15 u/i 55)	
See listing	4 Nominal size	: DN	
	5 Interconnection	☐ FE ☐ FE/WE ☐ WE	
	6 Manufacturer	:	
	7 Purchase order	: Item number	
	8 Type	☐ Ball ☐ Plug ☐	
	9 Working pressure	: bar	
	10 Rating	☐ DN ... ☐ ANSI class ... ☐ DIN PN ...	
	11 Stem position	☐ Vertical ☐ Horizontal	
	12 Stem extension	☐ Yes ☐ No	
	13 Mounting flange	☐ MFR-standard ☐ EN ISO 5211	
	14 Maximum allowable stem torque	: Nm	
ENVIRONMENTAL	15 Ambient temp. min./norm./max.	: -33 / ... / 40 °C	
	16 Relative hum. min./norm./max.	: 15 / ... / 100 %	
	17 Protection class (EN 60529)	☐ IP54 ☒ IP68	
	18 Classified area zone	☐ 0 ☐ 1 ☒ 2 ☐ None	
	19 Method of protection	: Ex" e"	
	20 Gas group	☒ II A	
	21 Temperature class	☒ T 1	
AVAILABLE UTILITIES	22 Power	☒ Hydraulic ☒ Manual	
	23 Supply voltage	☐ 400 V a.c. 3 ph 50 Hz ☒ N.A..	
	24 Supply medium/(reduced) pressure	☐ Air / ... bar (e) ☒ Natural gas/ note 30 ☐ ... / ... bar (e)	
LIMIT SWITCHES	25 Make	☒ Intex ☒ MFR-standard ☐	
	26 Type	☒ Proximity ☐ Micro	
	27 Contact rating	☐ d.c. ☐ a.c. ☐ MFR-standard ☐ ... V ... A	
	28 Intex type	: DQ25S5SR-GU005	
NOTES	29 Sense medium: natural gas 30 trip range adjustable between 25 - 46bar 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45		

DATA SHEET		Specification no.: R.000266-MF-A999-44	
VALVE ACTUATOR		Version : 00	
		Date : 08-10-2025	
		Page 15	of 20
MISCELLANEOUS	46 Application of valve	☐ Throttling	☒ Open/close
	47 Operating time open/close min.max.	: See note 75	
	48 Control signal	☐ 24 V d.c.	☐ 24 V a.c.
		☐ 4 mA - 20 mA	☒ Pneumatic
	49 Mounting of actuator	☒ In line	☐ Perpendicular
	50 In shop break away stem torque	Hydraulic relief pressure Completed by vendor	
	for actuator sizing (max. process ΔP)	: Nm at ΔP bar	
	51 Gearbox required	☐ Yes	☒ No
	52 Gearbox supplier	☐ Actuator MFR.	☐
	53 Hydraulic emergency operation	☒ Yes	☐ No
	54 Vandal proof cover required	☒ Yes	☐ No
OPTIONS FOR EL. ACTUATOR	55 Electrical isolated (see MSM-08-E) between actuator, gearbox or valve	☐ Yes	☒ No
DATA TO BE COMPLETED BY VENDOR (ACTUATOR)	59 Manufacturer	:	
	60 Type/model	:	
	61 Effective operating time	: ☐ s ☐ min	
(PNEUMATIC)	62 Torque output at max. allowable supply pressure of actuator	: Nm at bar (e)	
	63 Supply pressure at two times the in-shop break away torque of the valve	: bar (e) at Nm	
	64 Supply pressure at max. allowable stem torque of the valve	: bar (e) at Nm	
	65 Safety factor at max. set pressure	:	
	66 Hydraulic set pressure	: bar (e)	
	67 Supply consumption	: ☐ m ³ /cycle (n) ☐ m ³ /h (n)	
NOTES	75 $\leq$ DN 250: $0.08 * DN = \dots s$, $>$ DN 250: $0,06 * DN = \dots s$		
	76		
	77		
	78		
	79		
	80		
GASUNIE	81 Gasunie article number	:	

DATA SHEET (GENERAL NOTES)		Specification no.: R.000266-MF-A999-44	
VALVE ACTUATOR		Version	: 00
		Date	: 08-10-2025
		Page 16	of 20
General	This data sheet is part of specification MSM-08-E . Bidder/vendor shall complete the data sheet. A completed copy shall be sent with the quotation. Deviations between specified and quoted instrument shall be mentioned in the quotation.		
2	In case of single item use sheet 1 en 2. For multiple listing use also sheet 3. Multiple listing shall be used only if valve data and actuator requirements are nearly the same. Deviations shall be mentioned under "Notes".		
3 - 13	Specify valve data as indicated. If selection of the actuator requires more information, this shall be stated under "Notes" on sheet 2.		
14	The specified maximum allowable torque is the maximum torque of the stem of the valve.		
15 - 16	Specify local conditions. Possible extreme conditions which influence the selected actuator (corrosive atmosphere and the like) shall be stated under "Notes" on sheet 2. According to MSM-08-E actuator and accessories shall be suitable for operation at an ambient temperature of -33 °C/ 0 °C/ +40 °C. For temperatures between -20 °C and -33 °C it is permitted that instruments, equipment and materials may not function in accordance with their specification		
17	In case of above-ground installed electrical equipment the housing shall meet IP65. For under-ground installed electrical equipment IP68 is required.		
18 - 21	In case of gas hazardous area, instrument certificate shall based upon ATEX requirements (94/9/EC).		
22	Specify required power source to drive the actuator.		
23	Specify allowable power sources.		
24	Supply medium is defined as the medium that directly or indirectly powers the actuator. The supply pressure is the maximum (reduced) pressure available to power the actuator.		
25 - 27	Specify required limit switches.		
28	Drawing gives the information about the components to be included in actuator delivery and the connection details.		
46	Only applicable if throttling service is specified.		
47	Operating time is the time necessary for full stroke travel (open/close or close/open).		
48	Specify required control signal.		
49	Specify mounting of actuator.		
50	The specified break away stem torque is the required torque to operate the valve at the specified differential pressure.		
55	Isolation consists of isolation clutch and isolation flange. Isolation is necessary for separation between the earthing system of the actuator and the cathodic protection system of the pipeline.		
56 - 74	Data to be completed by bidder/vendor.		
65, 71	Safety factor = effective torque output (actuator)/break away torque.		

C RED VALVE AND ACTUATOR COMBINATIONS

REQUIREMENTS FOR DOCUMENTS (RED)						Specification no.: R.000266-MF-A999-44		
						Version : 00		
Valve and actuator combinations						Date : 08-10-2025		
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Gasunie purchase order number :						Legend: P = pdf. DWG = Number of digital documents, preferably Autocad dwg format. W/O = Required number of weeks after purchase order issue. W/A = Required number of weeks after factory acceptance or site acceptance.		
Gasunie project name :								
Gasunie project number :								
TYPE OF DOCUMENTS	REQUIRED							FOR NOTES, SEE BACKSIDE
	Inquiry	Approval			Final			
	P	P	W/O	DWG	P	DWG	W/A	
A ENGINEERING DOCUMENTS								
A1 General arrangement drawings ¹⁾¹²⁾	1	1	2		1		2	
A2 Construction drawings ¹⁾¹³⁾	1	1	2		1		2	Office for engineering and operating documents:
A3 Cross-sectional dwg./mar'l parts					1			
A4 Material parts list					1		2	
A5 Detail drawings	1	1	2		1		2	N.V. Nederlandse Gasunie
A6 Dimensional dwgs and weight data ¹⁾¹²⁾	1	1	2		1		2	
A7 Weld details (belonging to A2)								Attn.: W. Schadenberg
A8 Design calculations								Email: W.H.Schadenberg@gasunie.nl
A9 Strength calculations								Dept.: FPM
A10 Thermal design calculations								
A11 Anchor bolt location plan								
A12 Foundation loading plan								
A13 Erection plan								
A14 Logic diagram/functional diagram								
A15 Wiring diagrams								
A16 Loop diagrams								
A17 Connection diagrams								
A18 Completed data sheets ¹⁸⁾	1	1	2		1		2	
A19 EMC test proposal								
A20 EMC test report								
A21 Explosion proof certificates ¹⁴⁾	1	1	2		1		2	
A22 Conversion rules								
A23 Data/curves								
A24 Static calculations ¹⁾¹³⁾					1		2	
A25 Declaration of conformity ¹⁾⁵⁾⁶⁾								
A26								
A28								
B OPERATING DOCUMENTS								
B1 Installation instructions	1	1	2		1		2	
B2 Operating manual ¹⁷⁾	1	1	2		1		2	
B3 Maintenance manual ¹⁷⁾	1	1	2		1		2	
B4 Spare parts list	1	1	2		1		2	
B5 Spare parts quotation								
B6								
B7								
B8								
B9								

GENERAL NOTES TO REQUIREMENTS FOR DOCUMENTS (RED)

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- All engineering and operating documents shall be submitted to Gasunie with a properly addressed "Engineering and operating documents transmittal" form ([GTS REQ-003](#)) for the attention of the department as specified.
- All documents required for inquiry shall be submitted with the quotation to Gasunie's Procurement Department.
- Any deviations from the timing for submittal of documents shall be notified to Gasunie's Procurement Department by letter or fax.
- Shop fabrication shall **not** be started before the required "Engineering documents" have been released for construction (A- or B-approved) by the Approval Office.
- Each document shall bear the item or tag number and the Gasunie purchase order number and shall be dispatched in time to meet the required dates as specified in the purchase order.
- Supplier shall attach the Gasunie ABC-approval sticker to the original hardcopy or digital document, prior to "for approval" issue to Gasunie. As soon as a drawing has been A-approved by Gasunie, supplier shall remove the ABC-approval sticker and attach the Gasunie "F-number/final" sticker instead. Supplier shall fill in the F-number and purchase order number stated by Gasunie on the transmittal form.
Supplier shall process as-built data first, then this hardcopy or digital document shall be submitted to Gasunie.
Drawings of which the engineer of Gasunie has not entered the F-number on "Engineering and operating documents transmittal" form ([GTS REQ-003](#)) do **not** form part of the package of final hardcopies or digital documents which shall be submitted to Gasunie by supplier.
- Dimensions used on engineering documents shall be in SI units.
Nominal pipe sizes may also be indicated in imperial units between brackets.
- All documents should preferably be in Dutch. English may be used as an alternative.
- The following standard sizes shall be used: A4, A3, A2 and A1.
- If drawings consist of five or more pages, they shall be treated as a package. A package shall include a front page, an index page and a revision page. The lay-out of these pages shall be submitted to the supplier by Gasunie's engineer.

REQUIREMENTS FOR DOCUMENTS (RED) Zero emissions HPSPD actuator					Specification no.: R.000266-MF-A999-44		
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Gasunie purchase order number :					Legend: P = Number of prints. D = On receipt of the purchase order. W/O = Required number of weeks after purchase order issue. W/A = Required number of weeks after factory acceptance or site acceptance.		
Gasunie project name : Emissie vrijmaken oud opgelijnde M&R's							
Gasunie project number : R.000266.40.CX							
TYPE OF DOCUMENTS	REQUIRED						FOR NOTES, SEE BACKSIDE
	Approval			Final			
	D	P	W/O	P	W/A		
C TEST AND INSPECTION DOCUMENTS							
C1 Quality inspection plan ¹⁾²⁾¹⁵⁾¹⁹⁾		1	2	1	2		Office for test and inspection documents: N.V. Nederlandse Gasunie For the address reference is made to the relevant item in the Purchase Order
C2 Authority inspection document ¹⁾⁹⁾				1	2		
C3 Machine directive annex IIA-document ¹⁾⁶⁾				1	2		
C4 Declaration of conformity ¹⁾⁵⁾⁶⁾				1	2		
C5 Manufacturing report				1	2		
C6 Welders Perf. Qualif. Records (WPQR) ³⁾¹⁵⁾		1	2				
C7 Welding Procedure Specification (WPS) ¹⁾		1	2				
C8 Welding Proc. Appr. Records (WPAR) ³⁾		1	2				
C9 Weld location sketch incl. numbers ¹⁾				1	2		
C10 Welding reports ¹⁾				1	2		
C11 Material certificates (EN 10204) ¹⁾⁴⁾⁸⁾¹⁰⁾¹³⁾				1	2		
C12 Heat treatment certif., incl. graphs ¹⁾							
C13 List of worked-up materials ¹⁾				1	2		
C14 Static/dynamic balancing certificates							
C15 Hydrost./pneum. test certif. incl. graphs ¹⁾				1	2		
C16 Registration/test certif. (hoisting elements)							
C17 Explosion proof certificates							
C18 EMC test report							
C19 Test data/curves ¹⁾³⁾							
C20 Calibration certificates				1	2		
C21 Dimensional report ¹⁾							
C22 Destructive testing reports ¹⁾							
C23 NDT reports ¹⁾³⁾							
C24 Inspection report on paintwork/coating ¹⁾				1	2		
C25 Tally list ¹⁾							
C26 Authorised construction drawings ¹⁾							
C27 Torque values including graphs ¹⁾				1	2		
C28 Wall thickness measurement report							
C29 Hazard Analysis ¹⁾							
C30 Applic. acc. Annex III PED 97/23/EC ^{1,20)}				1	2		
C31							
C32							
C33							
C34							
C35							
C36							
C37							
C38							
C39							
C40							
C41							

**NOTES TO REQUIREMENTS FOR
DOCUMENTS (RED)**

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General notes:

- All test and inspection documents shall be submitted to Gasunie with a properly addressed "Test and inspection documents transmittal" form ([GTS REQ-004](#)).
- Any deviations from the timing for submittal of documents shall be notified to Gasunie's Procurement Department by letter or fax.
- Each document shall bear the item or tag number and the Gasunie purchase order number and shall be dispatched in time to meet the required dates as specified in the purchase order.
- All documents should preferably be in Dutch. English may be used as an alternative.

Specific notes:

- 1 To be included in manufacturing report.
- 2 Not applicable if approved standard quality inspection plan is available.
- 3 Retained document.
- 4 Type of document to be specified on material parts list.
- 5 Declaration of conformity ([EN ISO/IEC 17050](#) part 1 and part 2) to the applicable European Directives and Standards, including ATEX.
- 6 Including Technical Construction Report.
- 7 To be stated in the purchase order.
- 8 Only for materials supplied by manufacturer.
- 9 Type of document: *.
- 10 Required level of material certificate:
☐ 2.1 ☐ 2.2 ☒ 3.1¹ ☒ 3.2¹
- 11 Documents C to be put at Site Managements disposal after input in "Centraal Archief" (central archive)*.
- 12 Can be combined.
- 13 Only for intermediate coupling.
- 14 Only if electrical equipment is used for the first time.
- 15 For first orders and after modification of specification or production.
- 16 For valve only.
- 17 For actuator only.
- 18 Data sheet "[Valve actuator](#)" to be completed.
- 19 Manufacturer to indicate in his quality plan which Module(s) will be applied and which activities according the PED are W/H/M/R/A points of Gasunie-Inspection User Inspectorate according article 14 of the PED.
- 20 If manufacturer applies Module A1, C1, F or G according to PED, the application form according to GTS_W-089 shall be completed by the manufacturer.

¹) Level of material certificate is based on compliance with the relevant standards