

CONFIRM

Chief metrologist of Shurtan GCC LLC

Kh A Makhmudov

2020.

"O'zbekneftgaz" AJ
"Shurtan gaz kimyo majmuasi" MCHJ
MTRB va T xizmati
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TECHNICAL ASSIGNMENT for purchasing servo solenoid valves for the needs of Shurtan GCC LLC

1. GENERAL INFORMATION

1.1. Name

The present technical assignment is developed for purchasing proportional valves for pallet production unit.

1.2. Basis and purpose of purchasing goods

Basis: Approved annual request for purchasing spare parts, materials, and equipment at the instrumentation and automation unit for 2020.

Purpose: Existing servo solenoid valves are used in process control applications for continuous operation, core puller control in a pallet production unit

1.3 Information about novelty (year of production/manufacture of goods)

The supplied goods must be new, not previously used, and produced no earlier

than 2020 and meet safety and quality standards according to the law of the Republic of Uzbekistan.

4 A ETD and and attention

1.4 FTP code and other international codes, if applicable

The manufacturer of the goods should provide the FTP code or other international codes.

2. SCOPE OF APPLICATION

Existing servo solenoid valves are used in process control applications for continuous operation, core puller, cylinder, and oil pressure control or partially open or closed on demand signal. Sliding-stem valves.

3. OPERATING CONDITIONS

3.1 Basic operating conditions

Working site - indoors with forced ventilation;

Ambient temperature range: from +5 to +55°C;

Ambient relative humidity: from 5% to 80%;

Valve parts are subject to normal wear and should therefore be periodically inspected and replaced as necessary. The periodicity of maintenance inspections depends on the severity of the operating condition

3.2 Additional/special requirements for operation

The valves are widely used, depending on actual temperatures, pressures and other operating conditions.

4. TECHNICAL REQUIREMENTS

4.1. Basic technical requirements

Technical Specifications

Nº	Name of goods and materials and equipment	Brief description of the equipment	Unit
1	3-way solenoid servo valve for pallet production plants	рс.	1
2	Controlled solenoid servo-driven valve OBE for pallet production unit	pc.	1
3	Direct operated solenoid servo valve OBE for pallet production unit.	рс.	1
4	p/Q- servo solenoid valve with OBE for pallet production plants	рс.	1

3-way solenoid servo valve for pallet production plants 1 pc		
Construction	3/2-way cartridge servo solenoid valve, pilot operated main	
Construction	stage	

Actuation	Servo solenoid valve NG6, on the block as a separate pilot valve	
Type of mounting	Cartridge type, see installation dimensions	
Installation position	Horizontal, or position transducer facing downwards	
Size	NG 32	
Symbol valve	Main stage Pilot valve	
Pressure fluid	Hydraulic oil to DIN 51524535, other fluids after prior consultation	
Pressure fluid	00 .0000	
temperature	-20+80°C	
Flow characteristic	Non-Linear	
Rated flow	380 l/min	
Ambient		
temperature	-20+50°C	
Max. working		
pressure	Port P,A,T,X,Z: 315 bar	
Position		
transducer DC/DC	Supply: +15 V/35 mA	
technology	Signal: 0±10 V	
item number:	0811 402 611	
Seal material	NBR	
	olled solenoid servo-driven valve OBE 1 pc	
Size	6	
Design	Spool valve, direct operated, with steel sleeve	
Actuation	Proportional solenoid with position control, OBE	
Connection type	Subplate mounting, porting pattern according to ISO 4401	
Installation side of the inductive position transducer	Valve side B(standard)	
Symbol	A B A B A B A B A B A B A B A B A B A B	
Rated flow	24 l/min	
Flow		
characteristics	Linear	
Weight	2.7 kg	
Maximum	Port A,B,P – 315 bar	
operating pressure		
Leakage flow <500 sm3/min		
Ambient		
temperature	-20+50°C	
Supply voltage of		
the control	24V DC voltage	
electronics		

connection			
Interfaces of the			
control electronics	Command value input ±10 V		
item number:	0811 404 602		
Seal material	NBR		
	olled solenoid servo-driven valve OBE 1 pc		
Size	6		
Design	Spool valve, direct operated, with steel sleeve		
Actuation	Proportional solenoid with position control, OBE		
Connection type Subplate mounting, porting pattern according to ISC 03-02-0-05			
Installation side of			
the inductive	Valve side B(standard)		
position transducer			
Symbol	A B A B A B A B A B A B A B A B A B A B		
Rated flow	40 l/min		
Flow	Linear		
characteristics	Lilleal		
Weight	2.7 kg		
Maximum	Port A,B,P – 315 bar		
operating pressure	Port T – 250 bar		
Leakage flow	<500 sm3/min		
Ambient -20+50°C			
temperature	-20130 C		
Supply voltage of			
the control	24V DC voltage		
electronics			
Electrical	Without mating connector; connector DIN 43563-AM6		
connection	7 1000 7 1000		
Interfaces of the	Command value input ±10 V		
control electronics	•		
item number:	0811 404 603		
Seal material	NBR		
	noid valve with OBE for pallet production plants 1 pc		
Voltage supply of	24V DC		
trigger electronics	Choole the control of the choole		
Construction	Spool type valve, operated directly		
Actuation	Proportional solenoid with position control, OBE		
Type of mounting Subplate, mounting hole configuration NG10 (ISO 4 05-04-0-94)			
Size	D05(NG 10)		
Size Symbol valve	D05(NG 10)		
Symbol valve	D05(NG 10) P/Q DC/DC		
	D05(NG 10) P/Q DC/DC or 5/3 P/P ₂ LLT Int. EIJ		

Ambient	-20+50°C	
temperature		
Pressure rating	4570 psi	
Pressure	500 psi	
differential	500 psi	
Flow	18 gpm	
Amplifier	OBE	
Approximate	7.1 kg	
weight	7.1 Kg	
Interface for trigger	Setpoint input ±10 V	
electronics	Setpoliit iliput ±10 V	
item number:	0811 402 107	
Seal material	NBR	
Electrical View and line and list at the standard PIN 40500 AN		
connection	Without line socket ith plug to DIN 43563-AM6	

4.2 Main technical, economic and operating characteristics

Not required

4.3 Reliability requirements

The average life of spare parts per year, for the operation of the corrosive environments, the service life depends on the properties of the corrosive environment, operating conditions, and materials used.

4.4 Design requirements, installation, and technical requirements

For replacing parts, it is necessary to use only parts produced and supplied by the company item numbers and names of spare parts are indicated per the manufacturer's technical documentation attached to the present technical assignment

4.5 Requirements for materials

See technical data in item 4.1

4.6 Requirements for stability and parameters exposure to environmental factors

At exposed to environmental factors, avoid harmful effects such as high temperature and corrosive environment. Protect against mechanical damage during storage, transportation, and packing.

4.7 Requirements for power supply

Not required

4.8 Requirements for instrumentation and automation

Not required

4.9 Requirements for components, initial and operational materials see technical data in item 4.1

4.10 Requirements for labeling

Equipment must be labeled in Russian and should be clearly indicated. The manufacturer, batch number, and date of manufacture are also indicated. The labeling must remain for the entire service life of the supplied equipment.

4.11Requirements to sizes and packing

The goods are delivered in containers/packing. Containers and packing should have a presentation to ensure the safety of goods from mechanical damage during loading and unloading, during transportation, in addition to long-term storage (as per the manufacturer's requirements). Protect against mechanical damage during storage, transportation, and packing.

4.12 Requirements for spare parts and wearing parts

Not required

5. REQUIREMENTS TO RULES FOR DELIVERY AND ACCEPTANCE

5.1 Order of delivery and acceptance

The goods should be accepted after incoming inspection and drawing up a report following the contract.

The Customer accepts the goods according to the quantity, quality, complete of the lot, and the external signs of the safety of the goods (mechanical damage, visible deformation, and other similar damage) following the transport and enclosed documents, the manufacturer's quality certificates.

Being parties agree that the visual inspection of the goods carried out by the Customer representative must be absolute and final for the parties to determine the conformity according to quantity, complete and external signs of goods safety during transportation.

Goods should have certificates of conformity and certification test reports confirming the applied for characteristics, accompanied by documentation for installation, commissioning and operation.

All accompanying documentation should be drawn up in Russian or English and handed over to the Customer along with the supplied goods. The equipment supplied should be designed to operate continuously around the clock under specified conditions for specified service life. Equipment must be labeled in Russian and clearly indicated. The manufacturer, batch number and date of manufacture are also indicated. The labeling must remain for the entire service life of the supplied equipment. Versions of technical parameters and characteristics of equipment and materials offered by the Bidder that are not specified in the technical assignment are agreed additionally.

At receiving the goods from the carrier, the Customer (consignee) should check the conformity of the goods with the information specified in the contract, specifications, or additional agreements to it, as well as in transport, enclosed documents, and the manufacturer quality certificates.

In case receiving the goods from the carrier, if non-conformity of the goods according to quality/quantity is determined, the Customer (consignee) has to stop receiving the goods. Take measures to ensure the safety of the goods and prevent mixing with other uniform goods as well as notify the Seller about this in writing within 5 (five) working days from the date of finding the shortage.

The Seller is obliged to send the Customer (consignee), no later than 10 (ten) working days from the date of receipt of the notification, a response about the participation of his representative in the further acceptance of the goods. The Seller's representative must participate in the acceptance of the goods within a reasonable time, not exceeding 20 (twenty) calendar days from the date of receipt of the notification.

5.2 Requirements for transfer of technical and other documents to the Customer at goods supply

The Supplier has to provide the following documents confirming the compliance of the goods with the established requirements:

Certificates (bills) of compliance with the requirements of GOST and safety; Specification of the main equipment accessories with an indication of manufacturers, as well as the attachment of certificates of conformity to them; Installation, commissioning and operation documentation in Russian or English; All supplied equipment passes through incoming control for receipt of the equipment at the warehouse.

The goods must be accompanied by the following documentation:

- it is necessary to provide a certificate of conformity of the goods:
- Seller's invoice with a description of the goods, indicating the quantity, unit price,

and total amount;

- a bill of lading issued in the name of Consignee, name of Customer, the number and date of signing of the existing contract;
- certificate of origin of the country of the goods indicating the number and date of the invoice;
- packing list;
- certificate of quality of the goods issued by the manufacturer;
- safety data sheet

5.3 Requirements for insurance of goods

The goods must be insured. The equipment supplied must be designed to operate continuously around the clock under specified conditions for a specified service life.

6. TRANSPORTATION REQUIREMENTS

After the manufacture of spare parts, pack in a box and protect against mechanical damage.

The goods should be shipped in the manufacturer standard packing (sealed, tight, and duly packaged) ensuring its full safety from all kinds of damage during long-term storage and transportation of products, taking into account several overloads in transit.

Other options and package sizes are subject to additional approval by the Customer to their acceptability.

Delivery of equipment is carried out by delivery of goods by road and-or railway transport at the expense of the Supplier to the Consignee address and, other methods of the shipment can be made only with the written approval of the Customer.

In case of faulty delivery of the equipment to a wrong address, the Supplier, at his own charge, readdresses the goods to the destination point specified in the contract.

Consignee: Customer - Shurtan gas chemical complex LLC, www.sgcc.uz, sqcc@sqcc.uz 180300, Shurtan settlement, Guzar district, Kashkadarya region, the Republic of Uzbekistan

7. REQUIREMENTS FOR STORAGE

At storage spare parts, avoid harmful effects such as high temperature and corrosive environment and protect against mechanical damage.

8. REQUIREMENTS FOR SCOPE AND-OR GUARANTEE PERIOD

The guarantee period for the supplied materials and equipment is as per the certificate of origin, but not less than 12 months. The start time for calculating the guarantee period is the start-up of the equipment.

The Supplier must, at his own expense and within the duration of an agreement with the customer, eliminate any defects in the supplied equipment, materials identified during the guarantee period. In the event of equipment failure, the Supplier has to send his representative to participate in drawing up a report according to settled defects, agree on the procedure and terms for their rectification. In this case, the warranty period is extended accordingly for the period of rectification.

9. REQUIREMENTS FOR REPAIRABILITY

Not required

10. MAINTENANCE REQUIREMENTS

10.1 Maintenance requirements

Spare parts supplied must be designed to operate continuously around the clock under specified conditions for specified service life.

10.2 Service requirements

Not required

11 ENVIRONMENTAL AND HEALTH REQUIREMENTS

The goods should not cause any damage to the environment.

12. REQUIREMENTS FOR ENERGY EFFICIENCY

The quality of the goods should ensure the possibility of its intended use without negative consequences.

13. SAFETY REQUIREMENTS

The goods should be safe during its operation, storage, and disposal

14. REQUIREMENTS FOR QUALITY AND CLASSIFICATION

The quality and completeness of the supplied goods should comply with the terms of the contract the requirements of the regulatory document. The quality of goods is certified by a certificate of quality and other documents provided by current law, confirming the quality of goods. In case of variations, the goods are returned to the Supplier at his own expense. Goods replacement should be fulfilled within 14 calendar days.

If the participant offers goods for delivery according to other regulatory and technical documentation (analog, equivalent); it is necessary to attach certified documents to the participant's application in the request for prices: a certificate/ bill of conformity, copy from the specifications for the goods, and any other certified documents at the option of the participant in the purchasing procedure, confirming the compliance of the technical characteristics of the goods intended for delivery of the Customer's requirements.

15. ADDITIONAL (OTHER) REQUIREMENTS

Not required

16. REQUIREMENTSFORQUANTITY, EQUIPMENT, PLACEANDTIME (PERIODICITY) OFDELIVERY

The scope of the present technical assignment requires the supply of spare parts for valves and pneumatic actuators: item numbers and names of spare parts are indicated in paragraph 4.1 of the present technical assignment of the manufacturer's technical documentation (item numbers and names of spare parts are indicated in the attached technical assignment as per the manufacturer's technical documentation.

Delivery of equipment is carried out by delivery of goods by road and-or railway transport at the expense of the Supplier to the Consignee address and, other methods of the shipment can be made only with the written approval of the Customer.

In case of faulty delivery of the equipment to a wrong address, the Supplier, at his own charge, readdresses the goods to the destination point specified in the contract.

Consignee: Customer - Shurtan gas chemical complex LLC, www.sgcc.uz, sgcc@sgcc.uz 180300, Shurtan settlement, Guzar district, Kashkadarya region, the Republic of Uzbekistan

17. REQUIREMENT FOR RELATED SERVICES FOR DELIVERY OF EQUIPMENT

Not required

18. REQUIREMENT FOR THE FORM OF SUBMITTED INFORMATION

Not required

19. LIST OF ACCEPTED ABBREVIATIONS

No.	Abbreviation	Key to Abbreviations	
1	RD	Regulatory documentation	
2	TA	Technical assignment	
Develop		Shurtan gaz Limyo MCHJ MCHJ MCHJ MCHJ MCHJ MCHJ MCHJ MCHJ	U. Abdullaev
Deputy Chief Metrologist:			O. Achilov
Head of instrumentation:			Z. Jalilov
Engine	er instrumentation	1 struc	Sh. Allavarov
Engine	er instrumentation	CODY A	M. Khobiev