



GENERAL
MANUFACTURING PARTNER



📍 9 Vasenko ul., Saransk

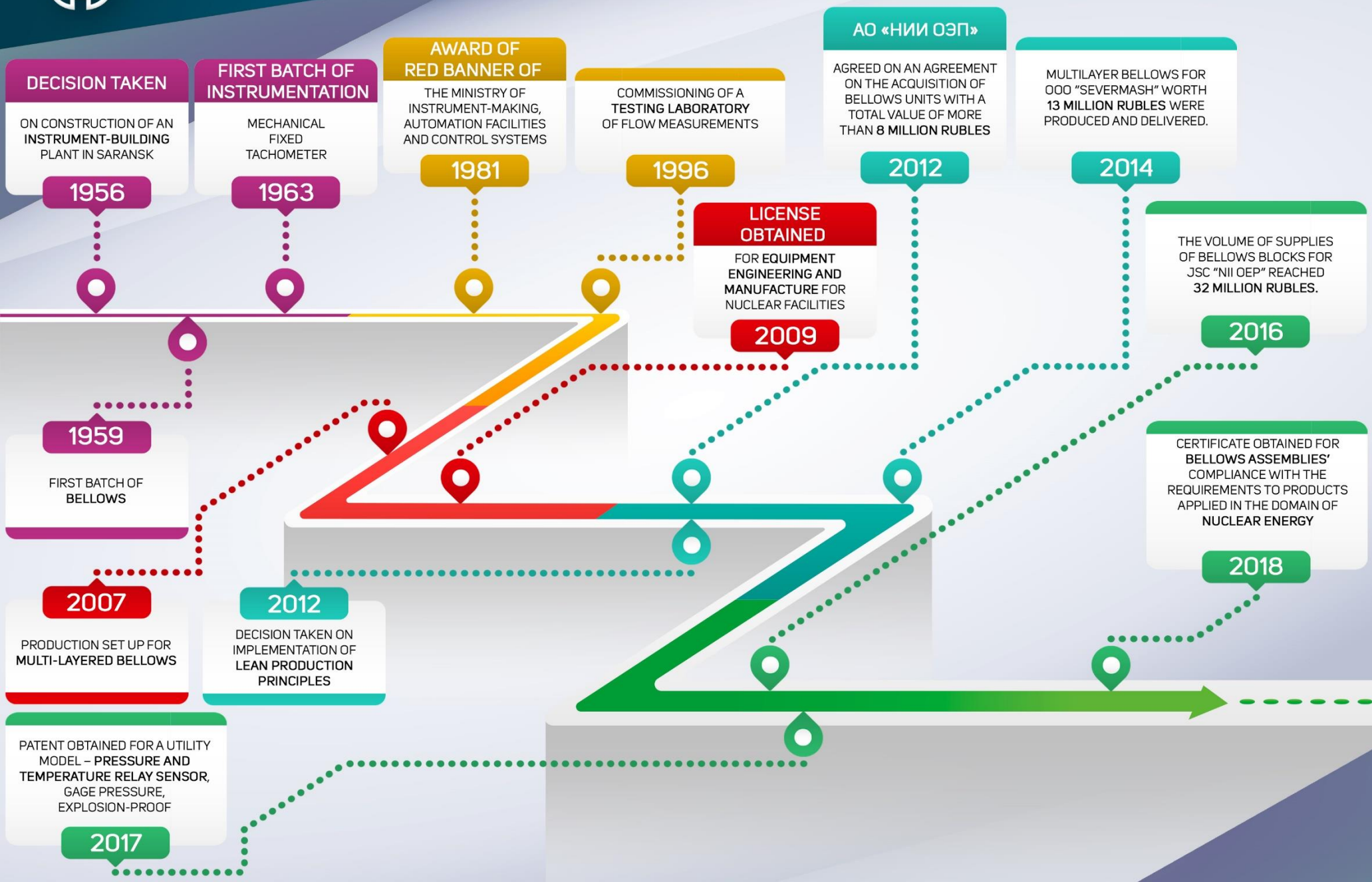
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About the plant





ABOUT THE PLANT



Staff number

500

people

Including **50**
specialists in the design
and process
departments



Output value

500

mln rub.*

Main lines of business:
Bellows and
instrumentation, services,
tests



1000

Purchasing
companies

Including oil and gas,
cosmonautics, rocket
engineering,
military-industrial
complex, aviation, railway
and shipbuilding
enterprises



Annual steady and
strong growth of sales
volume due to
launching new
products and extending
the customer pool



WELDING ENGINEERING

Laser beam welding
Argon arc welding



MACHINING PROCESS

Automatic lathes
CNC milling machines
Four-axis machining centres
Sliding head machines
Grinding equipment



COATING APPLICATION

Painting lines
Galvanizing lines
Zinc etching



Ferrous and non-ferrous metal
stamping
Aluminum casting
Plastic molding
Articles manufacture of rubber
compounds

300

mln rub. of investments for 10 years



PROCESS
CONTROL
AND MANAGEMENT



TEMPERATURE
AND PRESSURE
CONTROL



MOTION
MEASUREMENT



PROCESS
AUTOMATION

95

types of instruments



MATERIALS FOR BELLOWS MANUFACTURE

Alloy, grade **36HXTЮ**

Beryllium bronze, grade **БрБ2**

Stainless corrosion-
and heat-resistant steel, grades
08X18H10T, 12X18H10T

Brass, grade **Л-80**

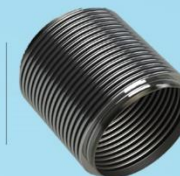
*The applied processes allow manufacture bellows and
bellows assemblies as per customer's drawings of specific
materials Inconel
625, 10X17H13H2T, Титан ВТ-1 (Titan VT-1), etc.*

OVER
1000
STANDARD SIZES

BELLOWS: SINGLE-LAYERED AND MULTI-LAYERED

min

Diameter, mm: **9**
Wall
thickness, mm: **0,08**



max

80 Diameter as per GOST 21482-76,
GOST 22388-90, mm:
100 Diameter as per customer's
specifications and drawings, mm:
0,25 Wall thickness, mm:

DIAPHRAGMS

min

Diameter, mm: **20**
Thickness, mm: **0,045**



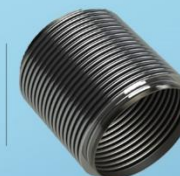
max

125 Diameter, mm:
250 Wall
thickness, mm:

MULTI-LAYERED BELLOWS

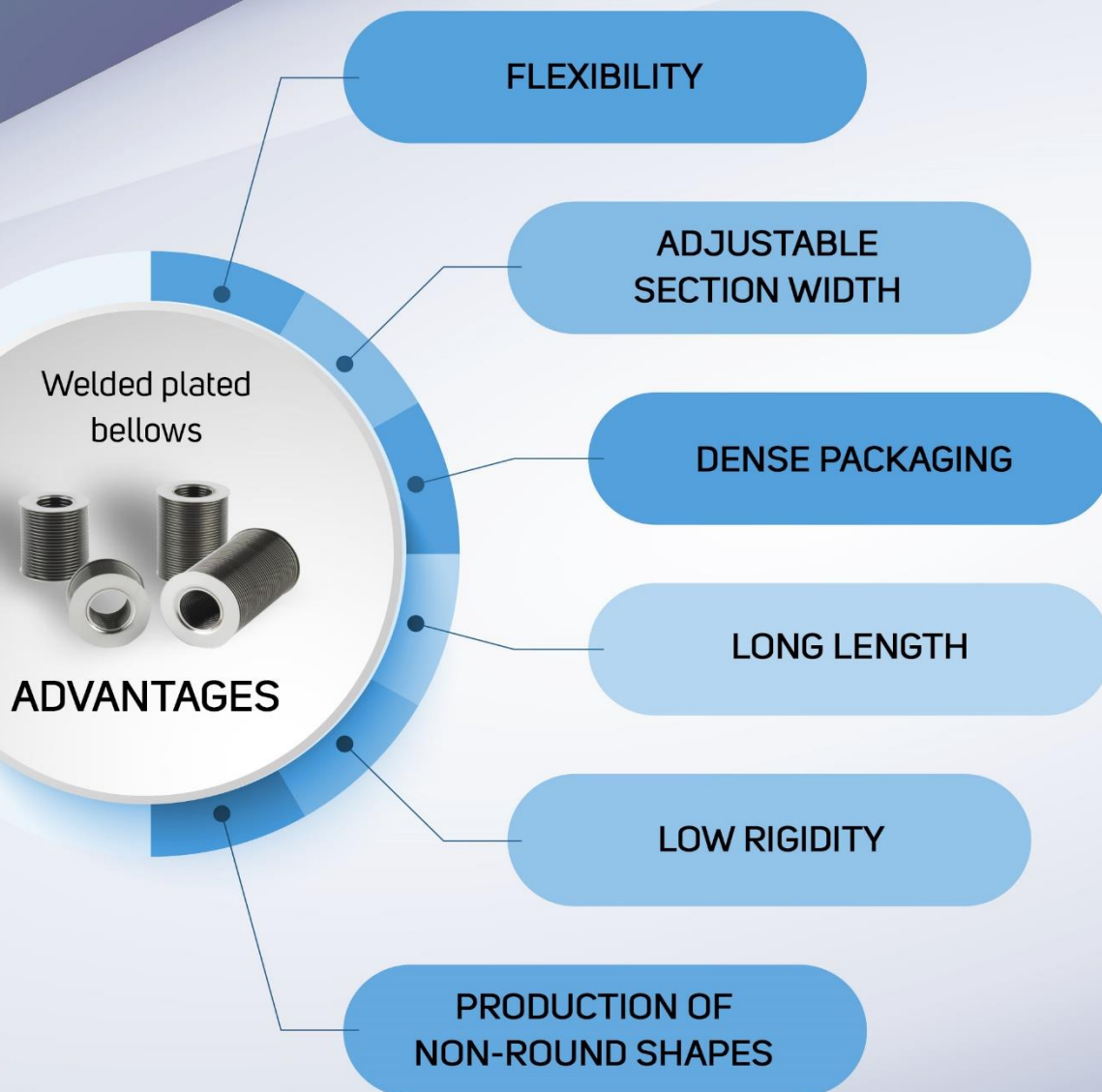
min

Diameter, mm: **22**
Wall
thickness, mm: **0,16**



max



125 Diameter as per
GOST R 55019-2012, mm:
250 Diameter as per customer's
drawings, mm:
0,3 Wall thickness, mm:
10 Number of layers



Applied materials

Steel **20**
Stainless corrosion- and heat-resistant
steel, grade **12X18H10T**

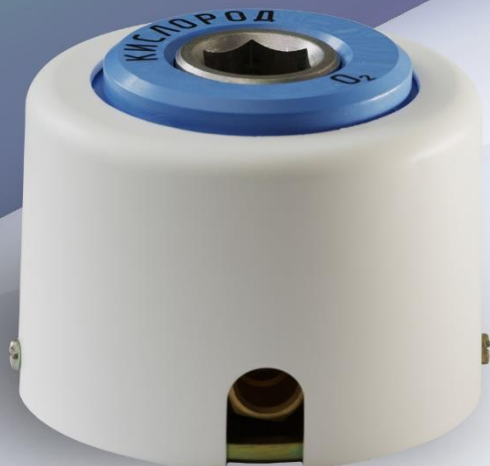
Parameters

Diameters as per customer's drawings, mm	28<		<160
Diaphragm thickness, mm	0,1<		<0,3



QUICK-CONNECT VALVE SYSTEM

Quick-connect valve system КБС-1 (hereinafter referred to as КБС-1) **Complies with din 13260-2** is intended for mounting in low-pressure mains of 0.6 MPa (6.0 kgf/cm²) max. and serves for quick connection of pneumatic equipment to a source of required gas.



INSTALLATION IN MAINS TRANSFERRING GASES AS FOLLOWS

O₂CO₂N₂O

Air

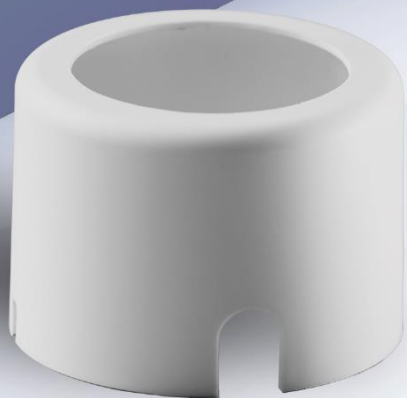
Vac

TECHNICAL CHARACTERISTICS

Nominal bore diameter DN, mm	3,5	Leakage class as per GOST 9544	B1
Nominal pressure PN, MPa, except for vacuum valve	0.2 to 0.6	The highest flow rate of gas, l/min, at the least, except for vacuum valve	40
Nominal pressure PN, MPa, for vacuum valve	0 to -0.08	The highest flow rate of gas, l/min, at the least, for vacuum valve	10
Climatic category for operation within the ambient temperature range of plus 10 °C to plus 35 °C and relative humidity of 30–80 %	YXЛ 4.2 as per GOST 15150-69	Overall dimensions, mm	80x80x60
		Maximum weight, kg	0,6



QUICK-CONNECT VALVE SYSTEM



MOUNTING BOX
ЦТКА 494689.004

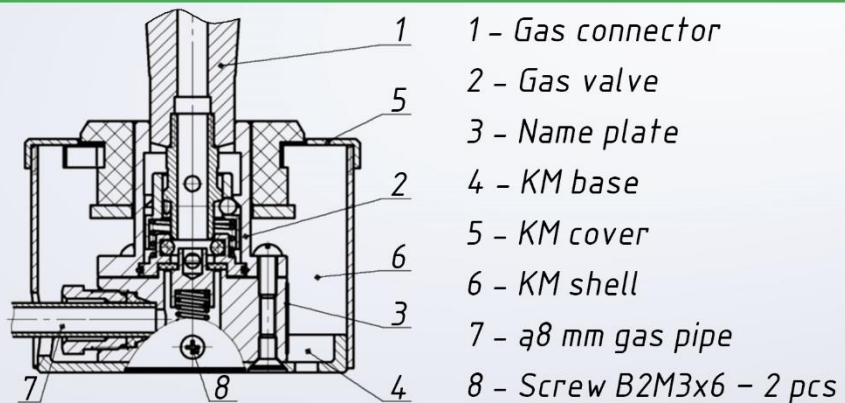


GAS VALVE
ЦТКА 494689.003



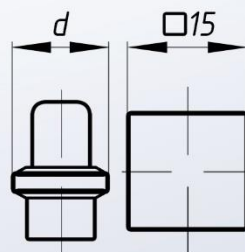
GAS CONNECTOR
ЦТКА 494689.002

DESIGN AND FUNCTION

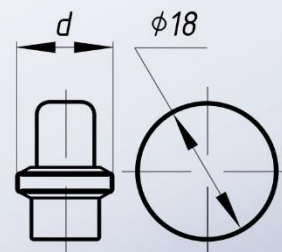


Service life limit - 3,000 hours
Assigned life - 4 years

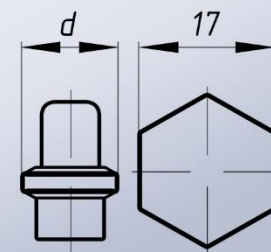
GEOMETRIC FORMS OF THE GAS VALVE SEAT AND OF GAS CONNECTOR



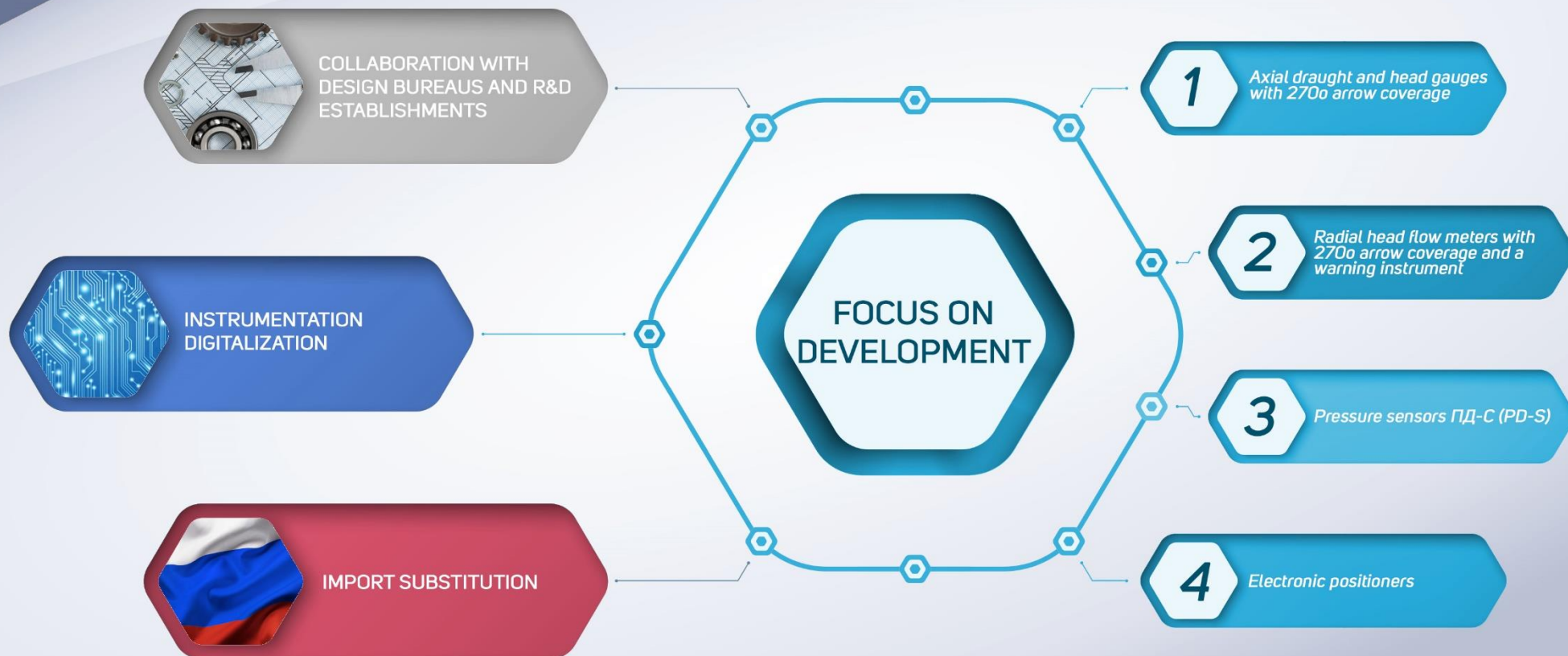
Air vacuum

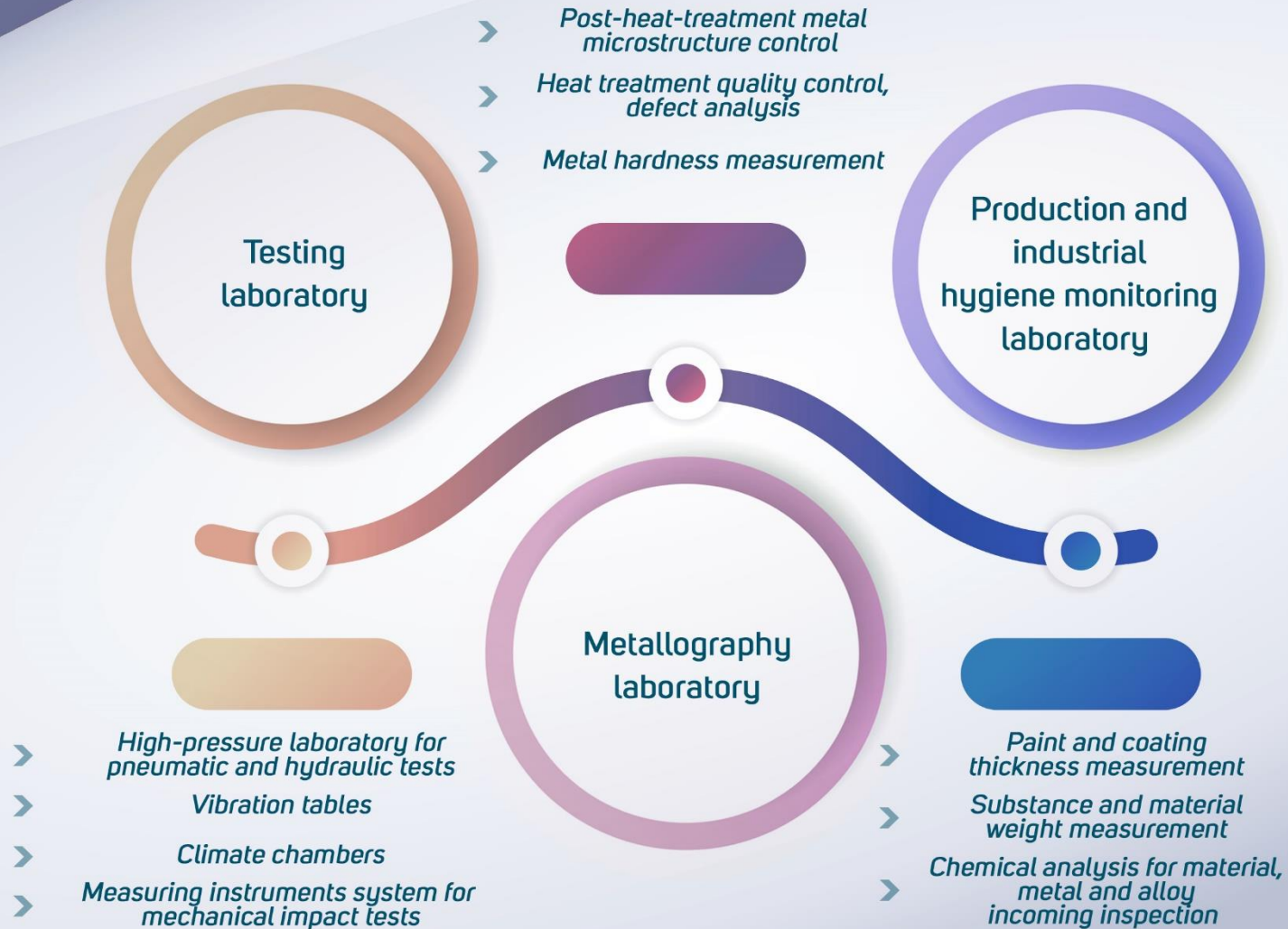


Nitrous oxide



Oxygen, carbon dioxide







PJSC SIW QUALITY MANAGEMENT SYSTEMS COMPLY WITH THE REQUIREMENTS OF

GOST RV 0015-002-2012
GOST ISO 9001-2011

*We are the only enterprise in the
Volga region with the licenses for
equipment engineering and
manufacture for nuclear facilities of
nuclear power plants for
10 years*





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