

Original Manual 10.245.30.01EN (0) 2018/05



EC Declaration of Conformity

We,

INOXPA, S.A.U.

Telers, 60 17820 – Banyoles (Girona)

Hereby declare under our sole responsibility that the machine

Relief Valve

Designation INNOVA

Type INNOVA J

From serial number **I282400** to **I500000** $^{(1)}$ / **000061900IIN** to **000100000IIN** $^{(1)}$

Fulfills all the relevant provisions of the following directive:

Machinery Directive 2006/42/CE Pressure Equipment Directive 2014/68/EU

Identification of the person empowered to draw up the Declaration on behalf of the manufacturer and qualified to compile the technical file established by the community

David Reyero Brunet Technical Office Manager

Banyoles, May 17, 2018



1. Safety

1.1. INSTRUCTION MANUAL

This instruction manual contains basic guidelines, which must be followed during installations, start-up, and maintenance.

The information published in this instruction manual is based on updated data.

INOXPA reserves the right to modify this instruction manual without prior notice.

1.2. INSTRUCTIONS FOR START-UP

This instruction manual contains essential and useful information for the correct handling and maintenance of your valve.

The safety instructions detailed in this section as well as all the special measures and recommendations included in the other sections of this manual must be observed and fulfilled. These instructions must be kept in a safe location near the installation area.

1.3. SAFETY

1.3.1. Warning symbols



Danger for people in general



Danger of injury caused by moving equipment parts.



Electrical hazard



Danger caustic or corrosive agents



Danger to the correct operation of the equipment



Mandatory to ensure safety at the workplace



Mandatory use of safety goggles

1.4. GENERAL SAFETY INSTRUCTIONS



Read the instruction manual carefully before installing and using the valve. If in doubt, please contact INOXPA

1.4.1. Durante la instalación



The Technical specifications in chapter 8 should always be observed. The installation and use of the valve must always be carried out in accordance with applicable safety and health regulations.

Before putting the valve into service, check to make sure it is assembled correctly and that the shaft is perfectly aligned. Misalignment and/or excessive forces when securing the valve can cause serious mechanical problems with the valve.



1.4.2. During operation

Always take the Technical specifications in chapter 8 into consideration. The specified limit values shall NEVER be exceeded under any circumstance.



NEVER touch the valve and/or piping that is in contact with the fluid during operation. If the process involves hot products, there is a risk of burns.

The valve contains parts that move in a linear fashion. Do not place hands or fingers in the valve closing area. This can cause serious injury.

1.4.3. During maintenance

The Technical specifications in chapter 8 should always be observed.



NEVER disassemble or remove the valve until the pipes have been emptied. Bear in mind that the fluid in the pipe may be hazardous or extremely hot. Consult the regulations in effect in each country for these cases.

Inside the actuator, there is a spring with an applied load, and the steps specified in this manual must be followed when performing maintenance operations to avoid injury. Do not leave loose parts on the floor.



All electrical work must be carried out by authorised personnel.

1.4.4. Compliance with the instructions

Any failure to comply with the instructions may impose a risk to the operators, the environment and the machine, and may ultimately result in the loss of any right to claim damages.

Failure to comply may entail the following risks:

- Failure of important machine/plant functions.
- Failure of specific maintenance and repair procedures.
- Threat of electrical, mechanical and chemical hazards.
- Placing the environment at risk due to the substances released.

1.4.5. Warranty

Any warranty will be void immediately and lawfully; additionally, INOXPA shall be compensated for any civil liability claims submitted by third parties, in the following cases:

- The installation and maintenance work has not been carried out following the instructions in this manual.
- The repairs have not been made by our personnel or have been made without our written authorisation.
- The parts used are not INOXPA genuine parts.
- Modifications have been carried out on our material or equipment without written authorisation.
- The material or equipment has been improperly used, has been used carelessly, or has not been used according to the instructions and their intended purpose, specified in this manual.

The general terms of delivery already in your possession are also applicable



The machine may not undergo any modification without prior approval from the manufacturer. For your safety, only use original spare parts and accessories. The usage of other parts will relieve the manufacturer of any liability

Please do not hesitate to contact us in case of doubts or if further explanations are required regarding specific data (adjustments, assembly, disassembly, etc.)



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3. General information

3.1. DESCRIPTION

INNOVA J (relief) valve is pneumatically actuated single-seat valve .Closing pressure of the valve is set by the spring pressure, which can be regulated by means of the screw located on the top of the valve. When the set pressure exceeds, valve opens.

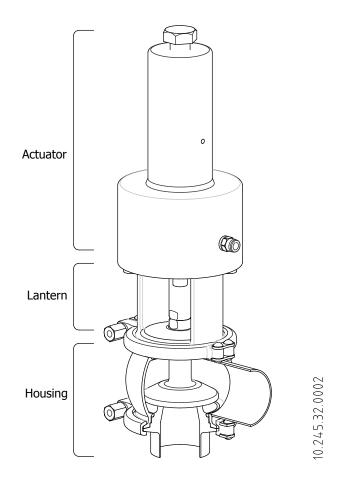
The valve is provided with a pneumatic seat lift, it allows the CIP liquid to pass through during CIP process.

3.2. APPLICATION

The INNOVA J valve is designed for dairy and food-processing industries, beverage production, and pharmaceutical and fine chemicals industries.

3.3. INNOVA J

The INNOVA J valve is a pneumatically actuated single seat valve designed for use as relief valve.





4. Installation

4.1. RECEPTION OF THE VALVE



INOXPA will not be liable for any deterioration of the material occurred during shipping or unpacking. Visually check that the packaging has not been damaged.

The first thing to do upon receipt of the valve is to check it and make sure that it matches the packing list. INOXPA inspects all its equipment before packaging; however, it cannot guarantee that the merchandise arrives to the user intact. Therefore, when receiving valves or any other item, they must be checked; if it is found that they are not in good condition or not all the parts are present, the carrier will fill out a report as soon as possible.

Each valve is inscribed with its fabrication number. Indicate the fabrication number on all documents and correspondence.

		CE ERIC S.A. .54. 17820 BANYOLES PAIN). www.inoxpa.com
	Item WAJL0-00652050	Size DN 050
	Type INNOVA J DIN EPDM	
	Air pressure Min. 6 bar / 87 psi M	-
	Working pressure 10 bar / 145 ps	i contraction of the second se
Fabrication number ———	→ Work order I254782	Year 2017

4.2. TRANSPORTATION AND STORAGE



INOXPA shall in no case be liable for improper unpacking of the valve and its components.

4.2.1. Delivery

Check to see whether all the parts listed on the delivery slip are present:

- Complete valve.
- Its components (if any are supplied).
- Delivery slip.
- Instruction manual.

4.2.2. Unpacking

- Remove any possible traces of packaging from the valve or its parts
- Inspect the valve or the parts that comprise it for possible damage incurred during shipping.
- Take all possible precautions against damage to the valve and its components.



The buyer or user shall be liable for assembly, installation, start-up and operation of the valve



WA	J	L	0	-	0	06	52	050	12	0	
										Options	
										0	
										1	ID Ra<0,5
									Actuator		
									11	T1 S/E NC	
									12	T2 S/E NC	
									13	T3 S/E NC	
									14	T4 S/E NC	
								Size			
								025	DN 25, OI		
								040	DN 40, OI		
								050	DN 50, OI		
								063	OD 2 1/2'	1	
								065	DN 65		
								076	OD 3"		
								080	DN 80		
								100	DN 100, 0	DD 4"	
							Unions				
							43	HNBR			
							52	EPDM			
							78	FPM			
						Material					
						06	AISI 316L				
					Connectio						
					0	Welded					
			Standard F								
			0	DIN							
			1	OD							
			onfiguration							1	
		L,T								1 housing	
	Turner	A,B,C,D								2 housings	
	Types J	Deliefust									
Product fa		Relief valve	e								
WA	Mily Válvula INI										
VVA	valvula INI	NUVA									



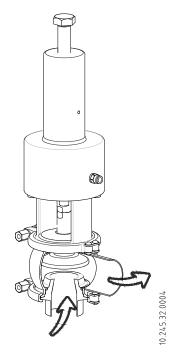
4.4. POSITIONING

Position the valve in a way that facilitates inspections and reviews. Allow sufficient space around the valve for adequate review, dismantling and maintenance (see table in section 4.8.1. Single seat relief valve, weld/weld).

4.5. DIRECTION OF FLOW

The following image indicates the recommended direction for product flow, as well as the direction of closing, depending on the type of valve. Following these indications will prevent water hammer and its consequences to the extent possible, which can occur when single-seat valves close.

The recommended direction will always be contrary to the movement of valve closing; that is, when the valve is closing, the valve will always work against the pressure of the fluid.



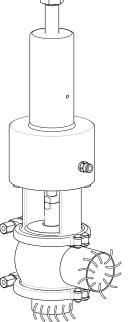
4.6. GENERAL INSTALLATION

After the location of the valve is defined, the pipe can be joined by welding the valve housing or using fittings. In this case, do not forget the seals, and tighten the unions properly.

Before starting to weld the valve housings to the pipe, disassemble the valve to prevent damage to the joints, following the instructions in section 7.4. Assembly and disassembly.

Avoid using excessive force when assembling the valves, and pay special attention to:

- Vibrations that may be produced on the facility.
- Thermal dilation that the pipe may undergo when hot fluids are circulating.
- The weight that the pipe can support.
- Excessive welding current.





Perform the following checks before using:

- Check that the clamps and nuts are well secured.
- Open and close the valve (applying compressed air to the actuator) several times to make sure it operates correctly and to make sure that the shaft joint is coupled smoothly to the valve housing.

4.8. WELDING



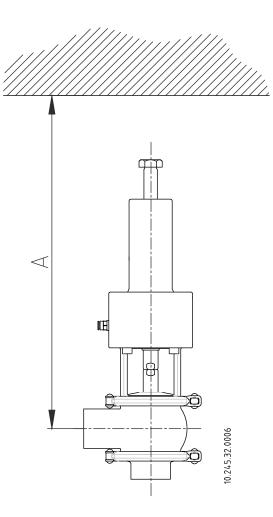
Welding work should only be done by qualified persons who are trained and equipped with the necessary equipment to perform this kind of work.

Before starting welding, disassemble the valve as explained in section 7.4. Assembly and disassembly.

4.8.1. Single seat relief valve, weld/weld

- Disassemble the valves as indicated in section 7.4. Assembly and disassembly.
- Weld the valve housing to the pipes.
- When welding the valve housing, it is very important to keep the minimum distance (height A) to allow the valve to be disassembled for subsequent reviews and to change valve parts (seals, bushings, etc.)

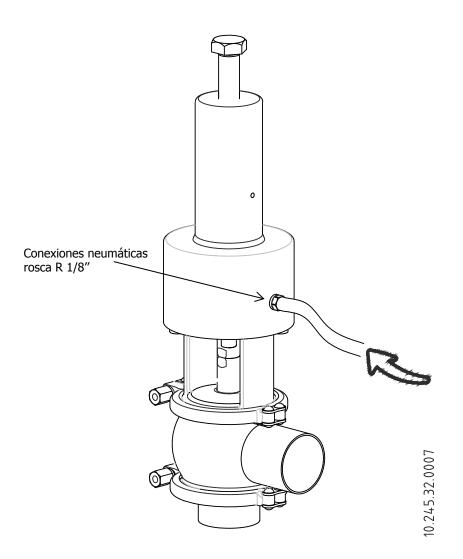
Valve size	A [mm]
DN 25 / OD 1"	370
DN 40 / OD 1 1/2"	380
DN 50 / OD 2"	430
DN 65 / OD 2 ½″	480
DN 80 / OD 3"	500
DN 100 / OD 4"	540





4.9. ACTUATOR AIR CONNECTION

- Connect and check the compressed air connections.
- INOXPA valves are supplied with connections for Ø6 pipe, and with a silencer on S/E actuators.
- Consider the quality of the compressed air, according to the specifications described in 8. Technical specifications.





5. Start-up

Valve start-up can be done if the instructions detailed in chapter 4. Installation have been followed first.

5.1. USES OF THE VALVE

It is widely used as a bypass valve for the positive displacement pumps. It is also used to protect the equipment in case of excessive pressure.

5.2. START-UP



Prior to start-up, the persons in charge must be duly informed about how the valve works and the safety instructions to follow. This instruction manual will be available to personnel at all times.

Before putting the valve/actuator into service, the following must be taken into consideration:

- Check that the piping and valve are completely free of possible traces of welding slag or other foreign particles. Clean the system if necessary.
- Check to make sure the valve moves smoothly. If necessary, lubricate it with special grease or soapy water.
- Check for possible leaks, and make sure the pipes and their connections are sealed and do not have any leaks.
- If the valve has been supplied with an actuator, make sure that the alignment of the valve shaft and the actuator shaft enables smooth movement.
- Check that the compressed air pressure at the inlet to the actuator matches what is indicated in the Technical specifications.
- Consider the quality of the compressed air, according to the specifications described in chapter 8. Technical specifications.
- Actuate the valve.

5.3. OPERATION



Do not modify the operating parameters for which the valve has been designed without prior written authorisations from INOXPA.

Do not touch the moving parts of the coupling between the actuator and the valve when the actuator is connected to the compressed air supply.



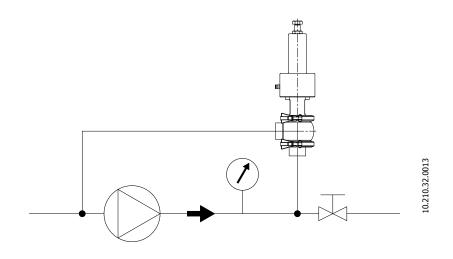
Burn hazard! Do not touch the valve or the pipes when hot fluids are circulating or when cleaning and/or sterilization are being carried out.



5.4. VALVE SETTING

Type J valve can be set by client. Calibration requires a pump, a pressure gauge (to measure the pressure), a shut-off valve and Type J valve.

Start up the pump with the shut-off valve in the closed position. The liquid will pass through the Type J valve, which will act as a bypass (recirculation). Tighten the top screw (previously loosening the lock nut) on the Type J valve until the pressure gauge indicates the pump's maximum working pressure. The valve will then be set to the pressure indicated on the pressure gauge; if this pressure is exceeded, the valve will close and the flow will be recirculated, thus preventing any damage to the system.





6. Operating problems

ate	er hammer						
ν	alve does not open/close						
Û	Internal leak of product (valve closed)						
	The valve plug is sticking						
		Û	PROBABLE CAUSES	SOLUTIONS			
				Replace the seals			
		•	The seal or guide bushing is worn, deteriorated or has gotten stuck	 Replace the seals with ones made of a differe material or grade that is more appropriate f the product 			
				 Lubricate with soapy water or a lubricant that compatible with the seal material and the product 			
				Replace the actuator with a larger one			
		•	Insufficient air pressure	Increase the compressed air pressure			
	•		Normal wear of seals	Replace the seals			
	•		Premature wear of the seal / affected by the	 Replace the seals with ones made of a differe material or grade that is more appropriate f the product 			
			product	Reduce the pressure in the line			
				Reduce the working temperature			
	•		Product residue has been deposited on the valve seat and/or plug	Clean frequently			
				Replace the actuator with a larger one			
	•		Excess product pressure	 Connect an auxiliary compressed air nipple of the side of the spring (to offset the excer pressure) without exceeding (4 bar) 			
				Reduce the product pressure			
	•		Loss of seal (vibrations)	Tighten loose parts			
				Replace the actuator with a larger one			
•			Product pressure exceeds the actuator specifications	Reduce the product pressure			
			specifications	• Use auxiliary air on the spring side			
•			Warping of seals	Replace the seals with ones of a differe quality, if they have deteriorated prematurely			
•			Actuator spring in poor condition and/or stuck (dirty)	Replace spring (clean)			
			The direction of flow is the same as the direction of closing	The direction of flow should go against the direction of closing			
				Choke the air discharge to reduce the pressure			



7. Maintenance

7.1. GENERAL CONSIDERATIONS

This valve, just like any other machine, requires maintenance. The instructions in this manual cover the identification and replacement of spare parts. The instructions are aimed at maintenance personnel and those responsible for the supply of spare parts.



Carefully read chapter 8. Technical specifications.

All replaced material should be duly disposed of/recycled according to the directives in effect in each area.

Valve and/or actuator assembly and disassembly should only be done by qualified persons.

Before starting maintenance work, make sure that the pipes are not under pressure.

7.2. MAINTENANCE

To perform maintenance properly, the following are recommended:

- Periodic inspection of the valve and its components.
- Keeping an operational record of each valve, nothing any problems.
- Always having spare replacement seals in stock.

During maintenance, pay special attention to the hazard warnings indicated in this manual.

The valve and the pipes must never be under pressure during maintenance.



During maintenance, the valve must never be hot. **Burn hazard!**

7.2.1. Seal maintenance

CHANGING SEALS	
Preventive maintenance	Replace every 12 months
Maintenance after a leak	Replace at the end of the process
Planned maintenance	Regularly check for the absence of leaks and smooth operation of the valve Keep a valve log Use statistics to plan inspections
Lubrication	During assembly, apply lubricants that are compatible with the seal material. See the table below

SEAL COMPONENT	LUBRICANT	Clase NLGI DIN 51818
HNBR/ FPM	Klübersynth UH 1 64-2403	3
EPDM/ HNBR/ FPM	PARALIQ GTE 703	3

The period between each preventive maintenance service will vary depending on the working conditions to which the valve is subject: temperature, pressure, number of operations per day, type of cleaning solutions used, etc.



7.2.2. Storage

Valves should be stored in an enclosed location under the following conditions:

- Temperature from 15°C to 30°C
- Ambient humidity < 60%

Equipment **MAY NOT** be stored outside.

7.2.3. Spare parts

To order spare parts, you must indicate the valve type and the position and description of the part, as found in chapter 8. Technical specifications.

7.3. CLEANING



The use of aggressive cleaning products such as caustic soda and nitric acid may burn the skin.

Wear rubber gloves during all cleaning procedures.

Always wear protective goggles.

7.3.1. CIP (Clean-in-Place) cleaning

If the valve is installed in a system with a CIP process, its disassembly will not be required. **EPDM** is the standard seal material that will be used for CIP cleaning, both in alkaline mediums and in acid mediums. The other two options (**HNBR**, **FPM**) are not recommended.

Cleaning solutions for CIP processes.

Only use clear water (chlorine-free) to mix with the cleaning agents:

a) Alkaline solution: 1% by weight of caustic soda (NaOH) at 70°C (150°F)

1 kg NaOH + 100 l of H_2O = cleaning solution

or

2,2 l of 33% NaOH + 100 l of H_2O = cleaning solution

b) Acid solution: 0,5% by weight of nitric acid (HNO₃) at 70°C (150°F)

0,7 l of 53% HNO₃ + 100 l of H_2O = cleaning solution



Check the concentration of the cleaning solutions; incorrect concentrations may lead to the deterioration of the valve seals.

To remove any traces of cleaning products, ALWAYS perform a final rinse with clean water at the end of the cleaning process.



Before starting disassembly and assembly tasks, clean the entire interior and exterior of the valve.



7.3.2. Automatic SIP (Sterilization-in-Place)

Sterilization with steam is applied to all equipment including the pigging.



Do NOT start the equipment during the sterilization with steam. The parts/Materials will not be damaged if the indications specified in this manual are

observed. No cold fluid can enter the equipment until the temperature of the equipment is lower than 60°C (140°F).

Maximum conditions during the SIP process with steam or superheated water:

- a) Max. temperature: 140°C / 284°F b) Max. time: 30 min
- c) Cooling: Sterile air or inert gas
- d) Materials: EPDM (HNBR and FPM materials are not recommended)

7.4. ASSEMBLY AND DISASSEMBLY



Proceed with caution. Personal injury can occur. Always disconnect the compressed air before starting to disassemble the valve.

Never disassemble the valve clamps directly without reading the instructions carefully, since the actuator contains a spring inside it with an applied load.

Valve and/or actuator assembly and disassembly should only be done by qualified persons.



7.5. DISASSEMBLY/ASSEMBLY OF THE INNOVA J

7.5.1. Disassembly

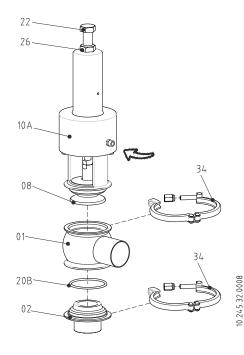
- 1. Loosen nut (26) and unscrew screw (22).
- 2. Apply compressed air to the actuator (10A) so that the plug shaft (08) passes the open position.
- 3. Loosen and separate the clamps (34).
- 4. Separate the actuator (10) and bottom port (02) from the valve housing (01).
- 5. Remove seal (20B) from bottom port (02).
- 6. Release the compressed air in the actuator.
- 7. Unscrew the Allen bolts (23) from the lantern (21).
- 8. Unscrew the plug shaft (08) from the actuator shaft two 17 mm crescent spanners.
- 9. Finish unscrewing the plug shaft by hand.
- 10. Once the plug shaft is out, remove the housing cap (12) and the seals inside it (20B and 05).
- 11. Remove the guide bushing (17).
- 12. Remove the seat seal (05C) as explained in section 7.6. Replacing the seat seal.

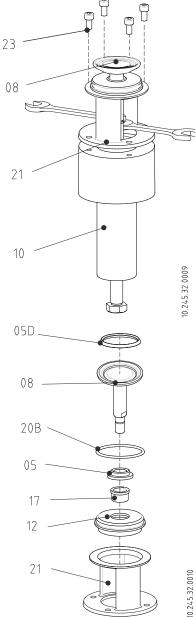
7.5.2. Assembly

- 1. Insert the lantern (21) underneath the actuator.
- 2. Fit the guide bushing (17) on the lantern (21).
- 3. Lubricate the seals with soapy water if necessary.
- 4. Install the seals (20B and 05) in the housing cap (12) and put this assembly in the lantern.
- 5. Install the seat seal (05D) as explained in section 7.6. Replacing the seat seal.
- 6. After the seat seal is installed (05D), then screw in the plug shaft (08) with the actuator shaft (10A).
- 7. Tighten the four Allen bolts (23) that secure the lantern (21) to the actuator (10A).
- 8. Apply compressed air to the actuator so that the plug shaft (08) is in the open position.
- 9. Install the seal (20B) in bottom port (02).
- 10. Assemble bottom port (02) and intermediate housing (01) and secure it using clamps (34).
- 11. Mount the actuator (10) lantern (21) plug shaft (08) housing cap (12) assembly to the valve housing (01) (can be turned 360° according to the user's needs) and secure it using the clamp (34).
- 12. Release the compressed air in the actuator.
- 13. Set the screw (22) and lock the nut (26).

See section 8.2.1. Exploded drawing For a reference to the parts described.

Note! To replace the seat seal, see section 7.6. Replacing the seat seal.

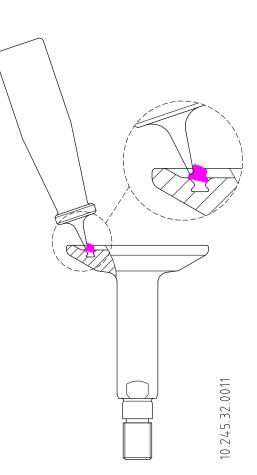






7.6. REPLACING THE SEAT SEAL

- 1. Put the plug shaft in a vertical position—for example, with a bench clamp—so that the shaft is kept stable and no damage is caused to the mating surface of the conical seal. Do not press the shaft too much if using a bench clamp.
- 2. Remove the used seal using a screwdriver or a sharp hook-shaped tool. Make sure not to damage the mating surface of the seal.
- 3. Lubricate the new seat seal with soapy water if necessary to facilitate installation.
- 4. Insert the seal in the plug shaft seat accommodation so that its edges are inside the accommodation. Preferably, the seal should fit within the part of the section that has the greatest diameter, as shown in the figure.
- 5. Then, with the help of an appropriate tool (not piercing), press the edge of the seal that has not yet fit into the accommodation, as shown in the figure.
- This operation should be done around the entire diameter, applying the tool in the sequence 1-2-3-4-5-6-7-8 as shown in the bottom figure. Always press on opposite sides. Once you get to the last step of this sequence, repeat the process until the seal is completely inside the accommodation.
- 7. Press the seal with your fingers to make sure it is well seated. Make sure there are no parts projecting due to poor positioning of the seal.



The following tools are needed to assemble/disassemble the valve:

- 1 crescent spanners 15 mm and 1 crescent spanners 17 mm To remove the plug shaft DN 25.
- 2 crescent spanners 17 mm To remove the plug shaft DN 40 to DN 100.
- Crescent spanner 13 mm For the clamps.
- Appropriate tool (not piercing) to mount the seat seals.
- Allen key per the table:

Zone	DN 25/40	DN 100	
Lantern	5 mm	6 mm	10 mm
Сар	4 mm	5 mm	8 mm



Proceed with caution. Personal injury can occur.

Never directly disassemble the clamps from the valve Reading the instructions carefully.



Valve/actuator assembly and disassembly should only be done by qualified persons.



7.7. ACTUATOR ASSEMBLY / DISASSEMBLY

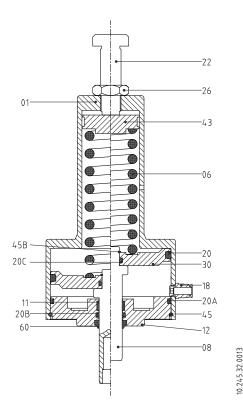
Do not apply compressed air until the disassembly/assembly process is completed. The figure is a schematic representation of some of the steps in the actuator disassembly process.

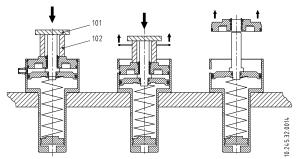
7.7.1. Disassembly

- 1. Fully loosen regulating screw (22) to remove nut (26) and regulating screw (22).
- 2. Remove air-fitting (18).
- 3. Position the actuator in the base of the clamp or in the lathe collet. A thick tube (102) and a shim (101) must be used on actuator base cover (12).
- 4. Apply force to the shim (101). Once the cover (12) has dropped some distance, remove the snap ring (45), this should have sufficient free space to be able to remove it.
- 5. Reduce the force on the shim (101) slowly until the top cover is free (you will note that the spring no longer exerts pressure).
- 6. Remove the actuator base cover (12).
- Remove lock ring (45B) to separate piston (30) from shaft (08).
- 8. Remove spring (06).
- 9. Take out the seals (20A and 20B), the scraper (60) and the guide (11) from the cover (12).
- 10. Take out the seals (20 and 20C) from the piston (30).
- 11. Remove actuator stop (43) from actuator body (01).

7.7.2. Montaje

- 1. Insert actuator stop (43) inside the actuator body (01).
- 2. Fix regulating screw (22) in actuator stop (43) and tighten it with actuator nut (26).
- 3. Insert spring inside the body (06).
- 4. Mount the scraper (60), seals (20A & 20B) and guide (11) on actuator base cover (12).
- 5. Mount seals (20 and 20C) on the piston (30).
- 6. Fix piston (30) on actuator shaft (08) with the help of lock ring (45B).
- 7. Locate actuator shaft (08) inside actuator base cover (12).
- 8. Slide the assembly of piston (30), actuator shaft (08) and actuator base cover (12) inside the actuator body (01).
- 9. Hold the actuator assembly into clamp and place a thick tube (102) and a shim (101) as shown in figure beside.
- 10. Apply force on the shim (101) so it lowers by some distance. Insert the snap ring (45).
- 11. Reduce the force applied slowly until the tool no longer touches the cover.
- 12. Install air-fitting (18).
- 13. Apply compressed air to check the proper functioning of the actuator.





7. Maintenance



7.7.3. Configuración del actuador

The standard configuration of the valves is NC (Normally Closed).

The following tools are needed to disassemble the actuator:

- Allen spanner 5mm (DN-25/40) 6mm (DN-50/80) 10mm (DN-100). Fine point screwdriver (to remove the snap ring). •
- •
- Vice or lathe (to compress the spring and enable the actuator to be opened). •



8. Technical specifications

8.1. TECHNICAL SPECIFICATIONS

Valve

Maximum working pressure	10 bar
Maximum opening pressure	6 bar
Minimum working pressure	Vacuum
Maximum working temperature	121°C (250°F) Standard seals EPDM
	(for higher temperatures, other grades of seals will be used)
Actuator	
Compressed air pressure	6-8 bar
Compressed air quality	Per DIN/ISO 8573.1:
	 <u>Solid particulate content:</u> Quality class 3 / max. particle dimension 5 microns / max. particle density 5 mg/m³. <u>Water content:</u> Quality class 4 / max dew point +2°C. If the valve is used at high altitude or under low

- If the valve is used at high altitude or under low ambient temperature conditions, the dew point must be adjusted accordingly.
- <u>Oil content:</u> Quality class 5, preferentially oil free / max. 25 mg oil per 1m³ air .

Compressed air fitting

Compressed air consumption (litres N/cycle)

DN	Litres/cycle		
25	0,7		
40	0,7		
50	0,18		
65	0,31		
80	0,31		
100	0,31		

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Materials

Parts in contact with the product Other steel parts Seals in contact with the product	AISI 316L (1.4404) AISI 304 (1.4301) EPDM (standard) – FPM – HNBR
Internal surface finish Outer surface finish	Polished Ra ≤ 0,8 µm Matt
Sizes available	
DIN 11850	DN 25 – DN 100
ASME BPE	OD 1" – OD 4"

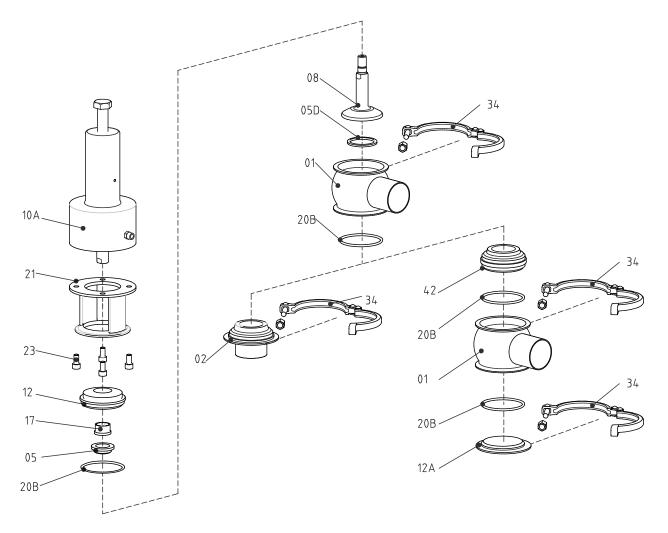
Welded

Connections



8.2. EXPLODED DRAWING AND PARTS LIST INNOVA J

8.2.1. Exploded drawing





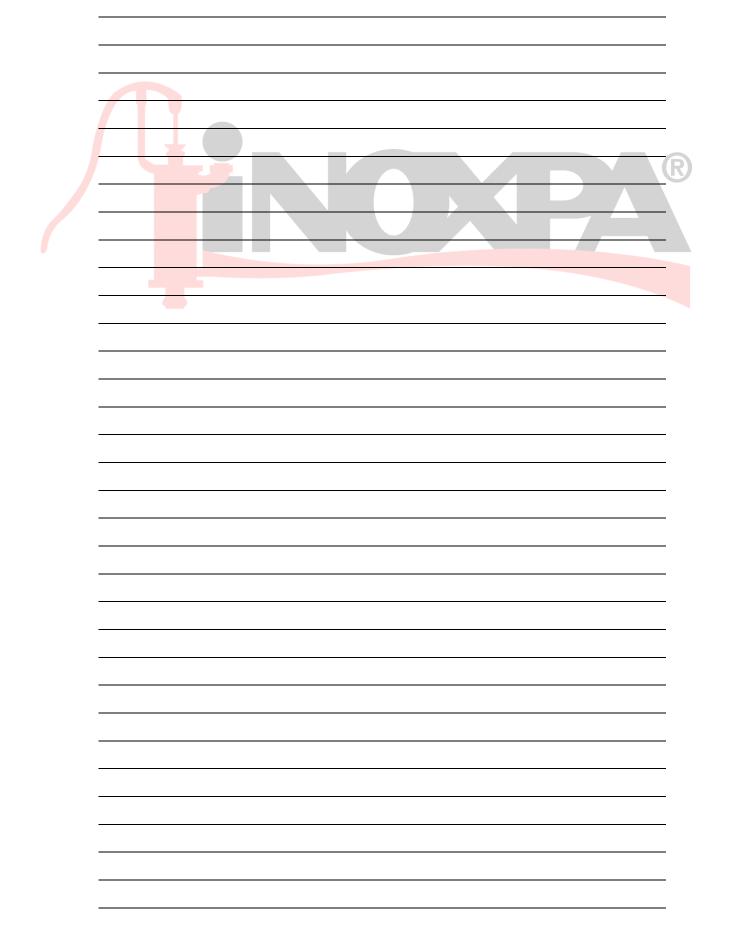
8.2.2. Parts list

Thomas	Quantity		ntity	Matarial
Item	Description	Α	В	Material
01	Intermediate housing	1	2	AISI 316L
02	Bottom port	1	-	AISI 316L
05	Shaft seal		1	EPDM / FPM / HNBR
05D	Flat seal		1	EPDM / FPM / HNBR
08	Valve shaft	1		AISI 316L
10A	Actuator	1		AISI 304
12	Housing cap (upper bushing)	1		AISI 316L
12A	Housing cap (bottom bushing)	-	1	AISI 316L
17	Guide bushing		1	PTFE
20B	O-ring	2	4	EPDM / FPM / HNBR
21	Lantern	1		AISI 304
23	Allen screw	4		A2
34	Clamp	2	3	AISI 304
42	Separator bushing	-	1	AISI 316L

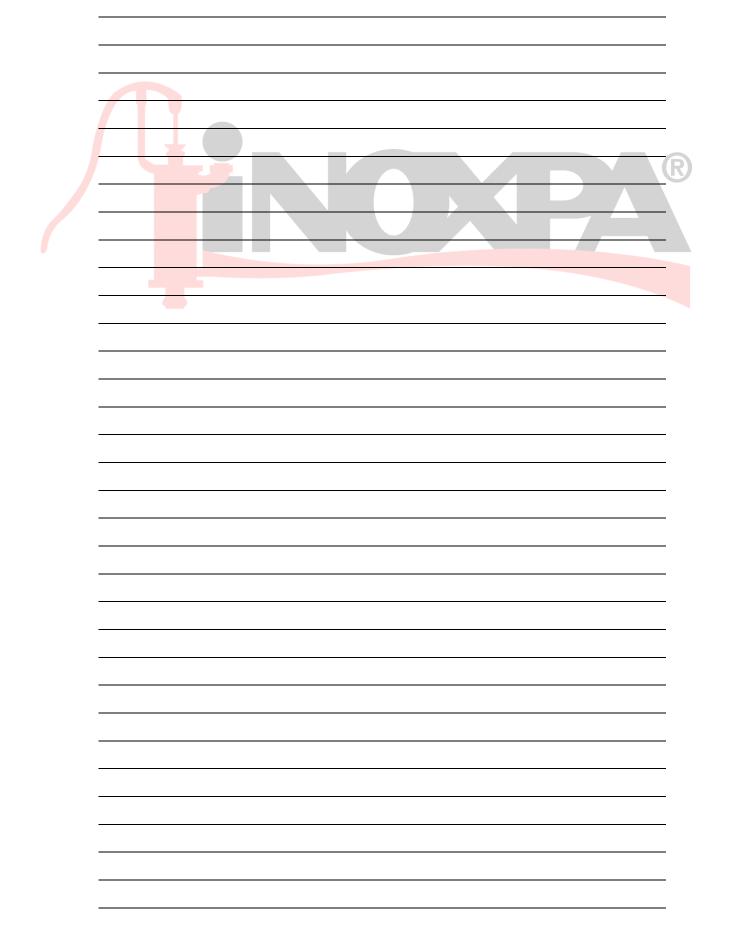
A: 1 housing (L, T)

B: 2 housing (A, B, C, D)

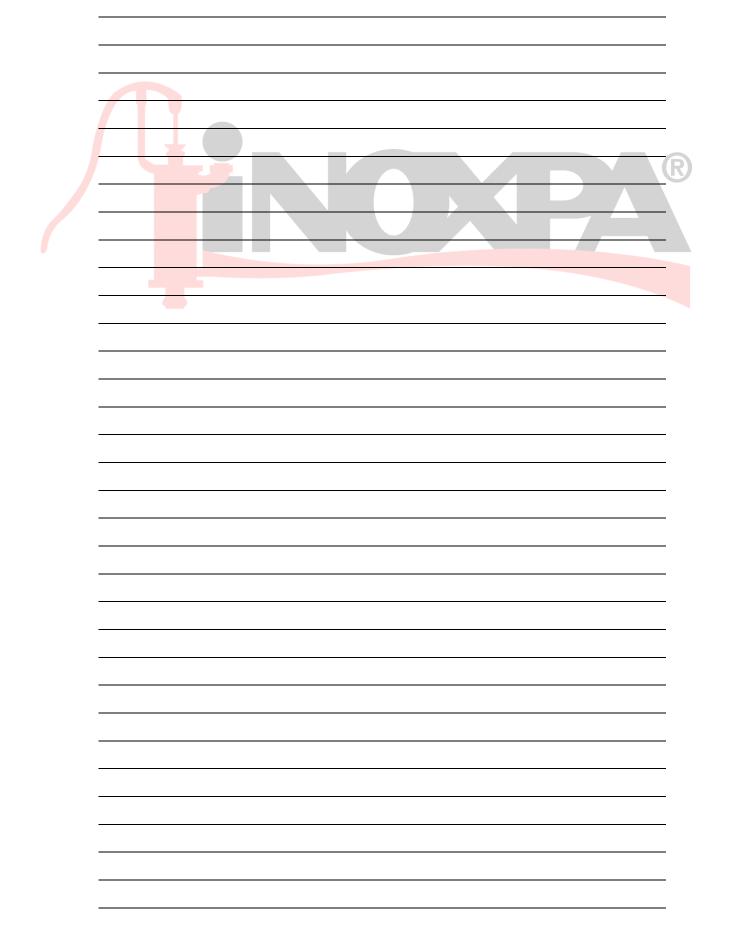
NOTES



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