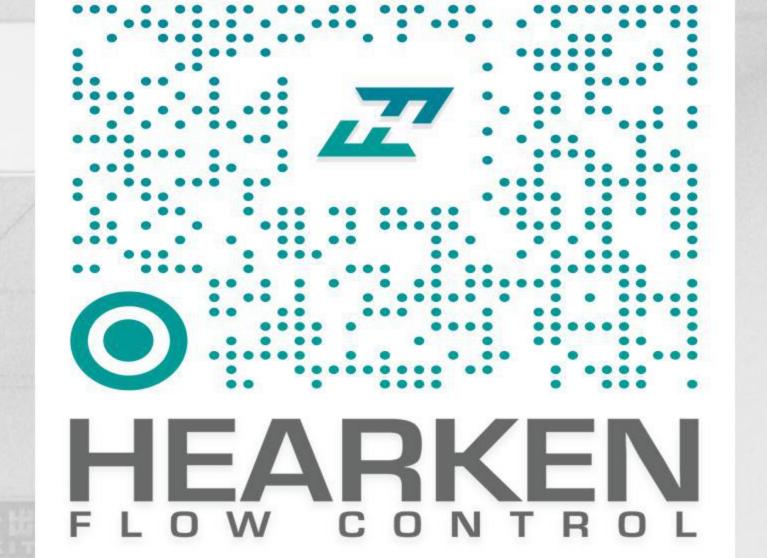
Welcome to HEARKEN --- Actuators and Controls

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BROCHURE

MECHAT

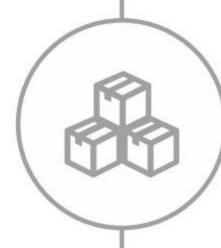
Hearken Here We Can

The Trusted, Passionate and focused Partner in Valve Automation

At HEARKEN FLOW, The founding principle of Hearkenflow is simple: to Listen our customers needs first, to develop the innovative valve actuators solutions, to meet the unique needs of our customers, Along the way, To help our customers to solve the problems in Valve Automation. We are growing our brand in Pneumatic and Electric Actuators, Accessories...



Experienced team



Largeinventory



Convenient consultation







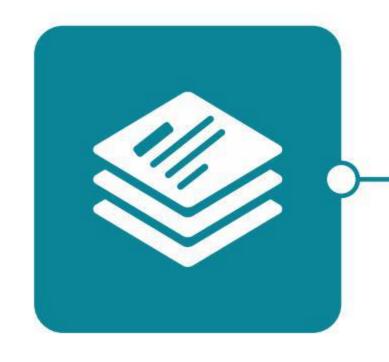


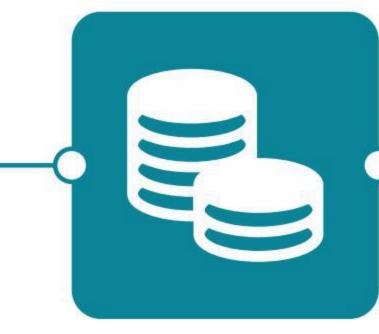


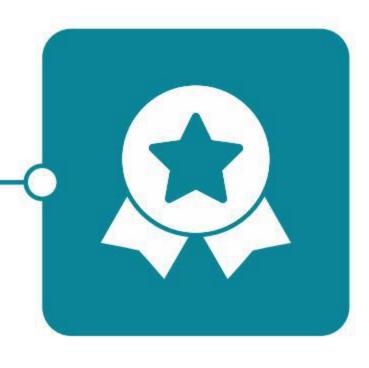
WHY WE ARE DIFFERENT

We offer a complete valve automation solution by the applications experience and customization capabilites, with an experienced support team to guide you in selection, installation, and project support.In addition we maintain an extensive supply of product inventory on hand so that we can quickly fulfill orders and reduce wait times. Our sales and support staff are readily available and accessible so that customers get the answers they need quickly.

THE TARGET WE ARE PURSUING





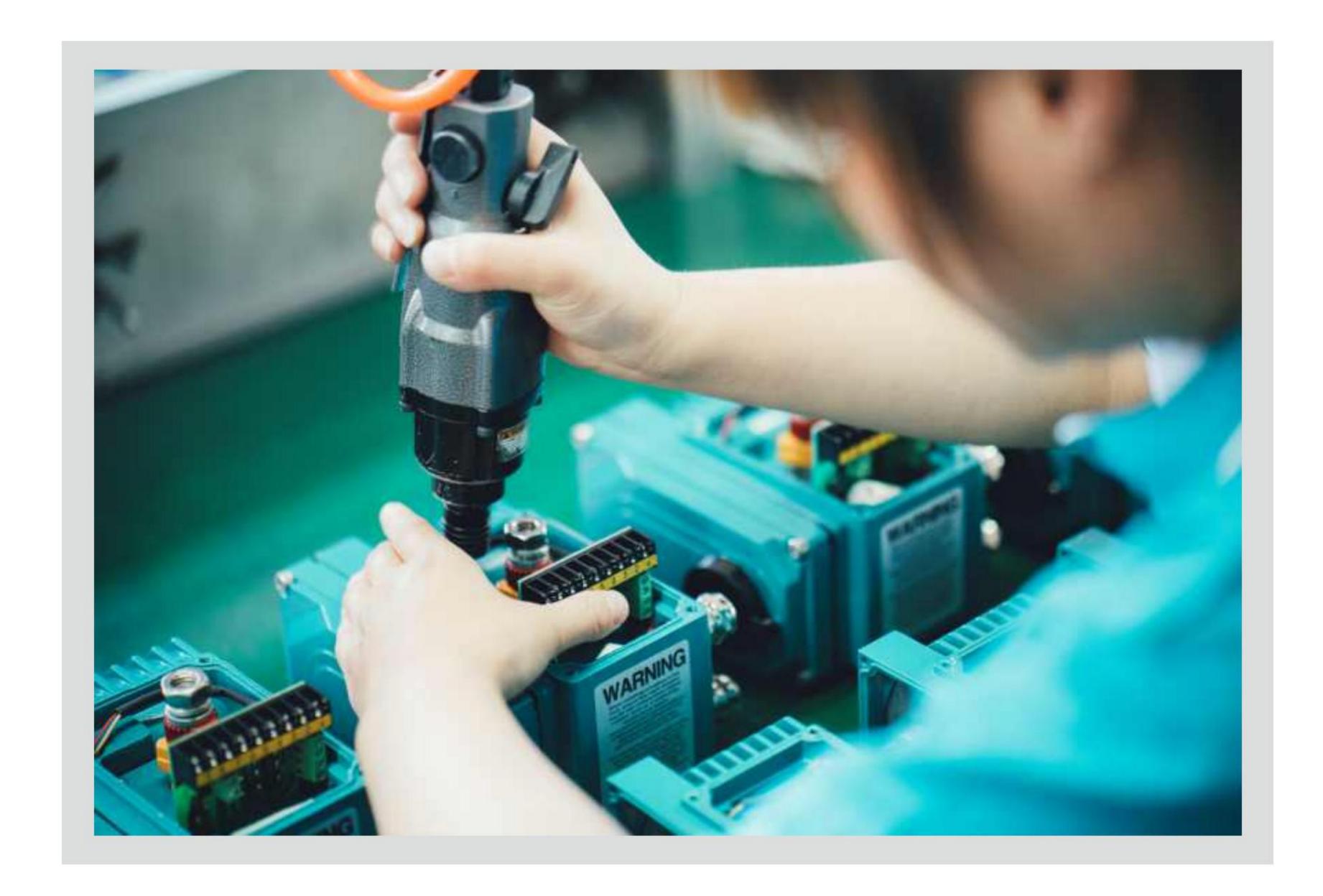


High-quality

low cost

Reliable solution

- To built A strong Reputation in Providing Quality, Cost Effective, Reliable And Robust Performance Solutions for Valve Automation,
- Inclued Pneumatic Actuators, Electrically Actuators, Actuated Valves.



COMMITMENT TO QUALITY

At HEARKEN FLOW means performance, All products manufactured by HEARKEN FLOW are warranted against defects in material and workmanship for a period of 18months from the day of startup. Each of our products are tested at the factory. we are confident that our products meet or exceed all applicable standards before they ever leave our facility. We are an ISO 9001-2008 certified company. Our Valve Actuators Has Applied for SIL3 Certificate, ATEX Certificate ,CE,Explosion-proof Certificate, IP68 Weather proof etc....



YT200 Air Filter Regulator

Description



Air Filter Regulator, YT-200 (YT-205), receives main air pressure and supplies to the desirable level to a positioner or other devices.

Product Characteristic



- Maintain desirable pressure level, regardless of fluctuation of pressure input.
- Aluminum body increases versatility of the product in different environments.
- 5 micron filter sorts minuteness particles in the air.
- Relief function is available which discharges to atmosphere if the outlet pressure is higher than setting pressure.



Label





MODEL : YT-200A AIR CONNECTION : PT 1/4

MAX. SUPPLY : $17.5 \text{ kgf/cm}^2 (250 \text{ psi})$ ADJUST RANGE : $0 \sim 4.2 \text{ kgf/cm}^2 (0 \sim 60 \text{ psi})$

PRODUCT NO. :



MODEL : YT-205A

AIR CONNECTION : NPT 1/4

MAY SUDDIY : 17.5 kgf/or

MAX. SUPPLY : $17.5 \text{ kgf/cm}^2 (250 \text{ psi})$ ADJUST RANGE : $0 \sim 4.2 \text{ kgf/cm}^2 (0 \sim 60 \text{ psi})$

PRODUCT NO

MODEL:Indicates product's model, suffix, and options (if any)
SIZE:Indicates the port size of air connection.
MAX. SUPPLY:Indicates maximum level of air supply.
ADJUST RANGE:Indicates adjusting range.
PRODUCT NO.:Indicates serial number.

Installion Caution





When installing the product, please follow below procedures.

- Always wear safety equipments and follow safety procedures.
- Air must be clean and dry.
- •Please operate within the range of specified capacity of the regulator in the manual.lf exceeded, the product can be damaged and may result serious damages and accident.
- •The product can be malfunctioned if any damages applied. Please treat the unit with appropriate care.
- •For maintenance, release drain bolt on timely basis to extract any water inside.
- Filter must be replaced on timely basis. Filter usage depends on the environment/field.
- After pressure is set, please make sure adjust bolt is completely fastened.

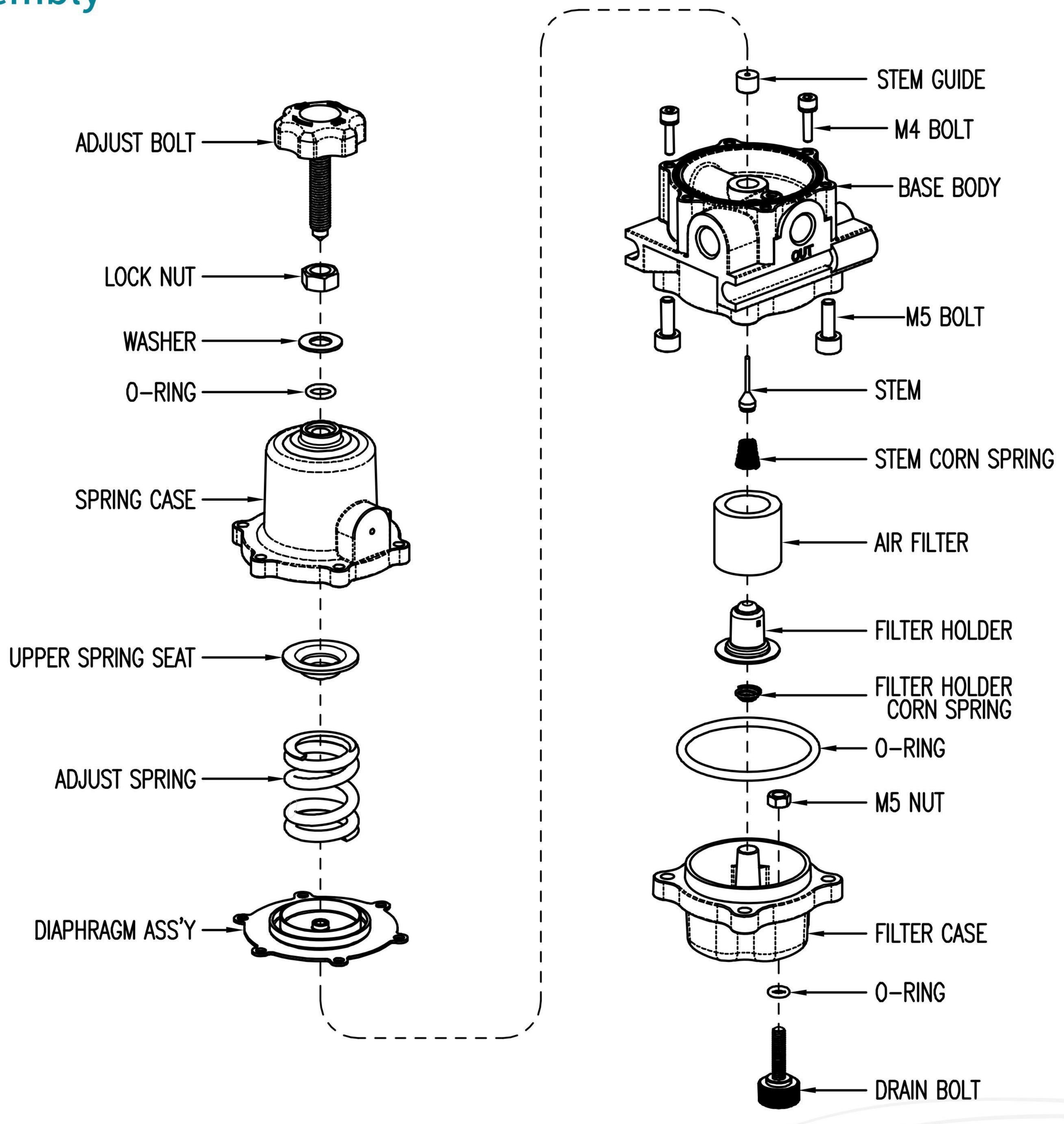
Specification



Catacan	YT-200		YT-205		
Category	A	B		C	
Max Supply Pressure	15kgf/cm² (231psi)				
Max Output Pressure	4.2kgf/cm ²	8.4kgf/cm ² 2.1kgf/		2.1kgf/cm ²	
Air Connection	PT(NPT) 1/4		NPT1/4		
Gauge Connection	PT(NPT) 1/8		NPT1/8		
Ambient Temperature	-20~70°ℂ (Standard),-20~120°ℂ (High Temp.), -40~120°ℂ (Low Temp.)				
Min Filtering Size	5 micron				
Material	Alum	Aluminum		Stainless Steel 316	
Weight	0.6kg		1.4kg		

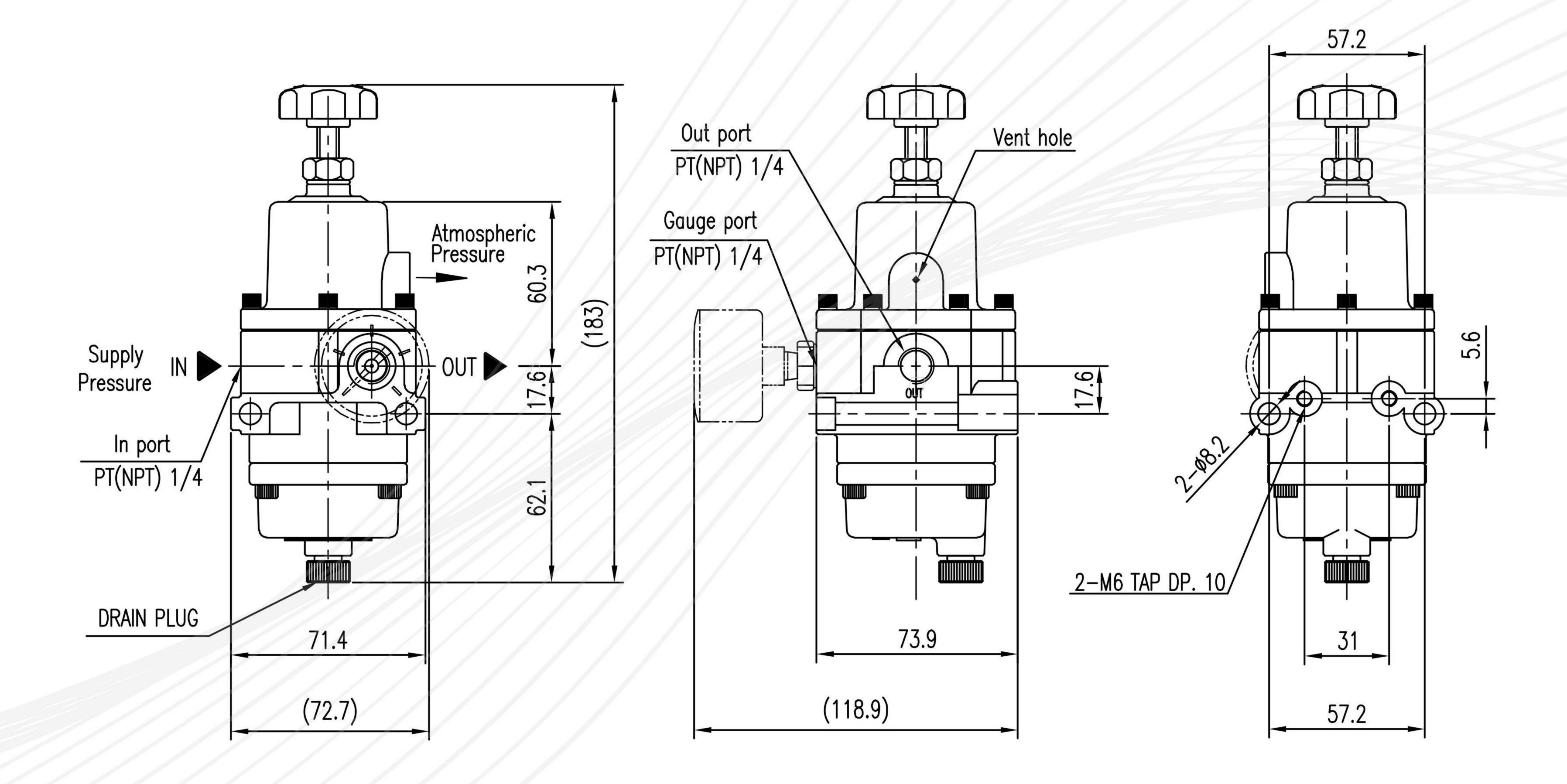


Parts and Assembly



Please be knowledgeable of product's major parts and assembly steps for future maintenance.

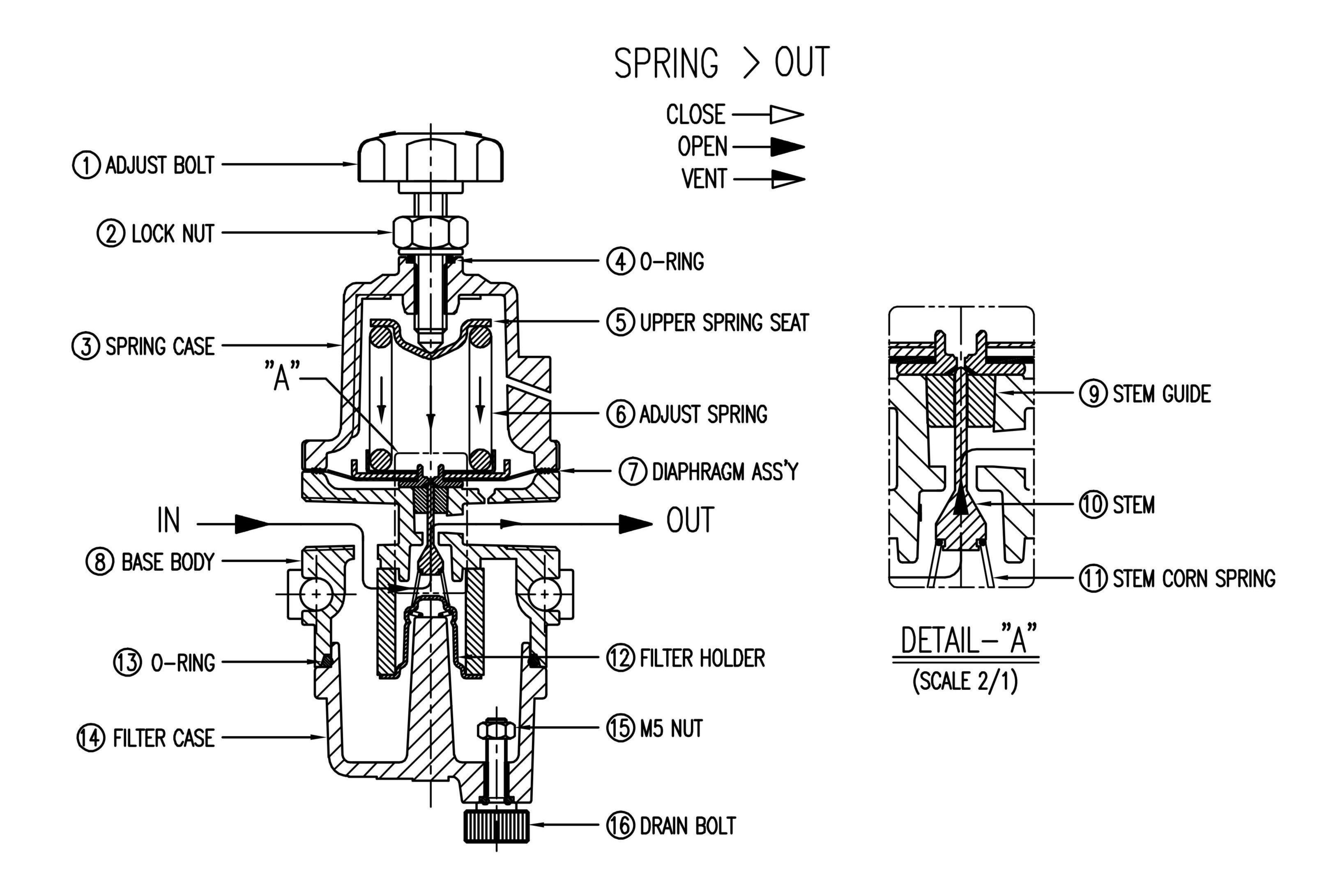
Dimension in mm





Opeartion Logic

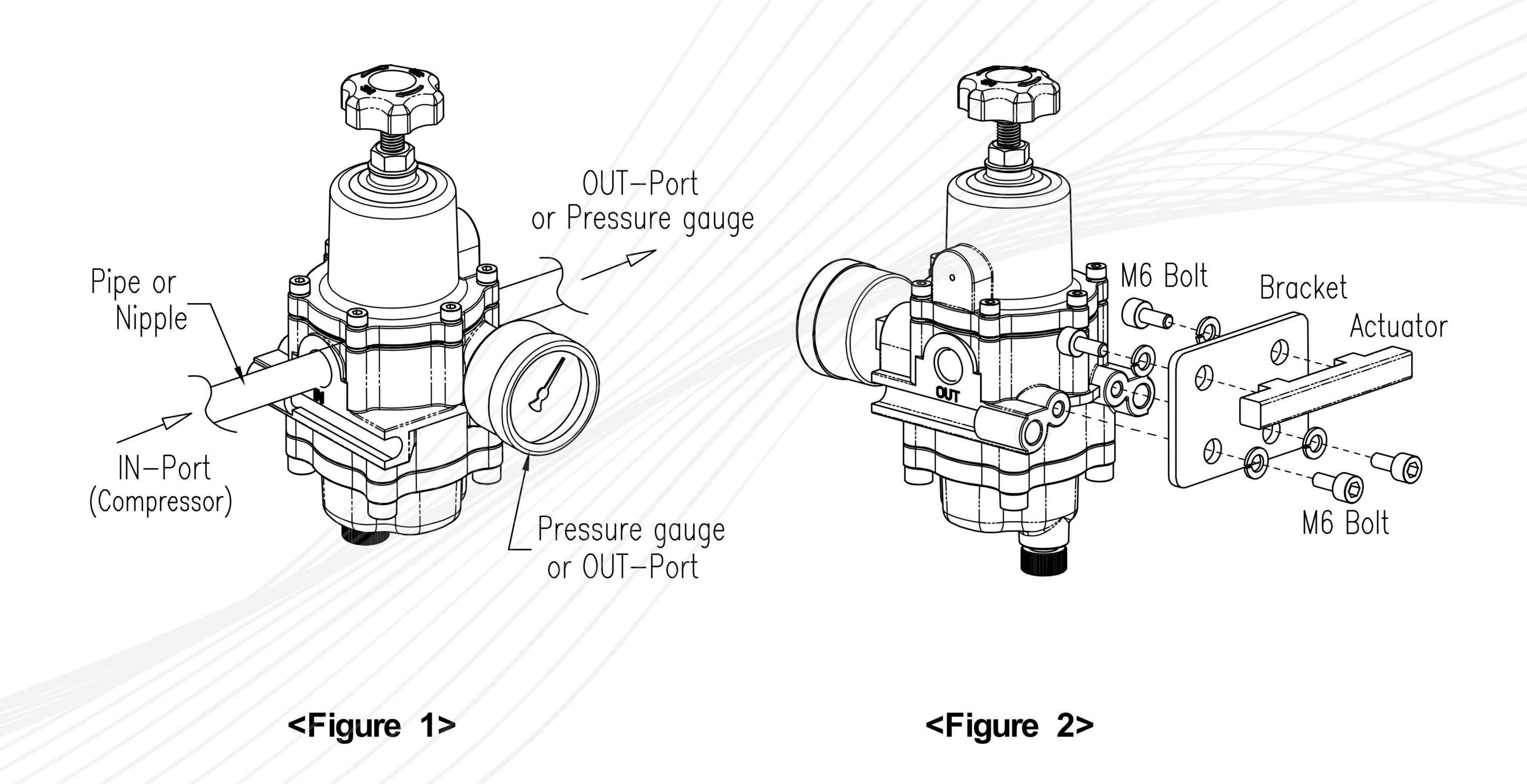
Air pressure is being supplied to output port by turning adjust bolt clockwise which will push diaphragm, then disconnects from stem and disc. The set pressure level stays by transferring pressure to lower diaphragm, which results to balance adjust spring. In case of higher pressure than setting, the pressure pushes diaphragm and pressure is released through the hole on spring case.



Pipe Connection

YT-200 is used for constant supply pressure to positioner, actuator, solenoid valves, or etc. It can be installed without a bracket <Figure 1>, which can be installed on through the pipeline. Before connecting with pipeline, please make sure pipeline is emptied, and the size of the pipeline is appropriate for required capacity.

If YT-200 must be installed on the bracket, please make a bracket according to the product's dimension.<Figure 2>



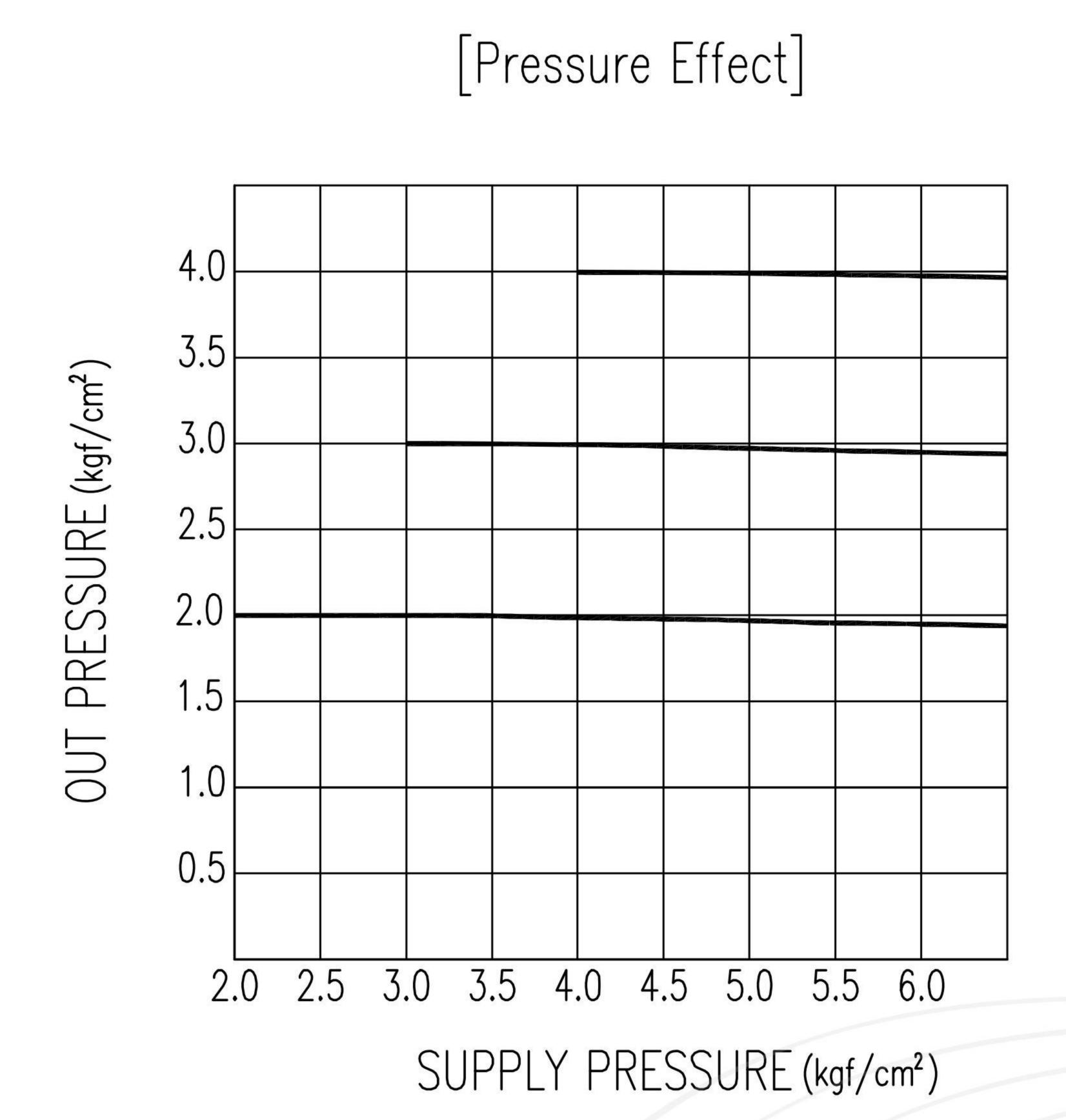


Instruction

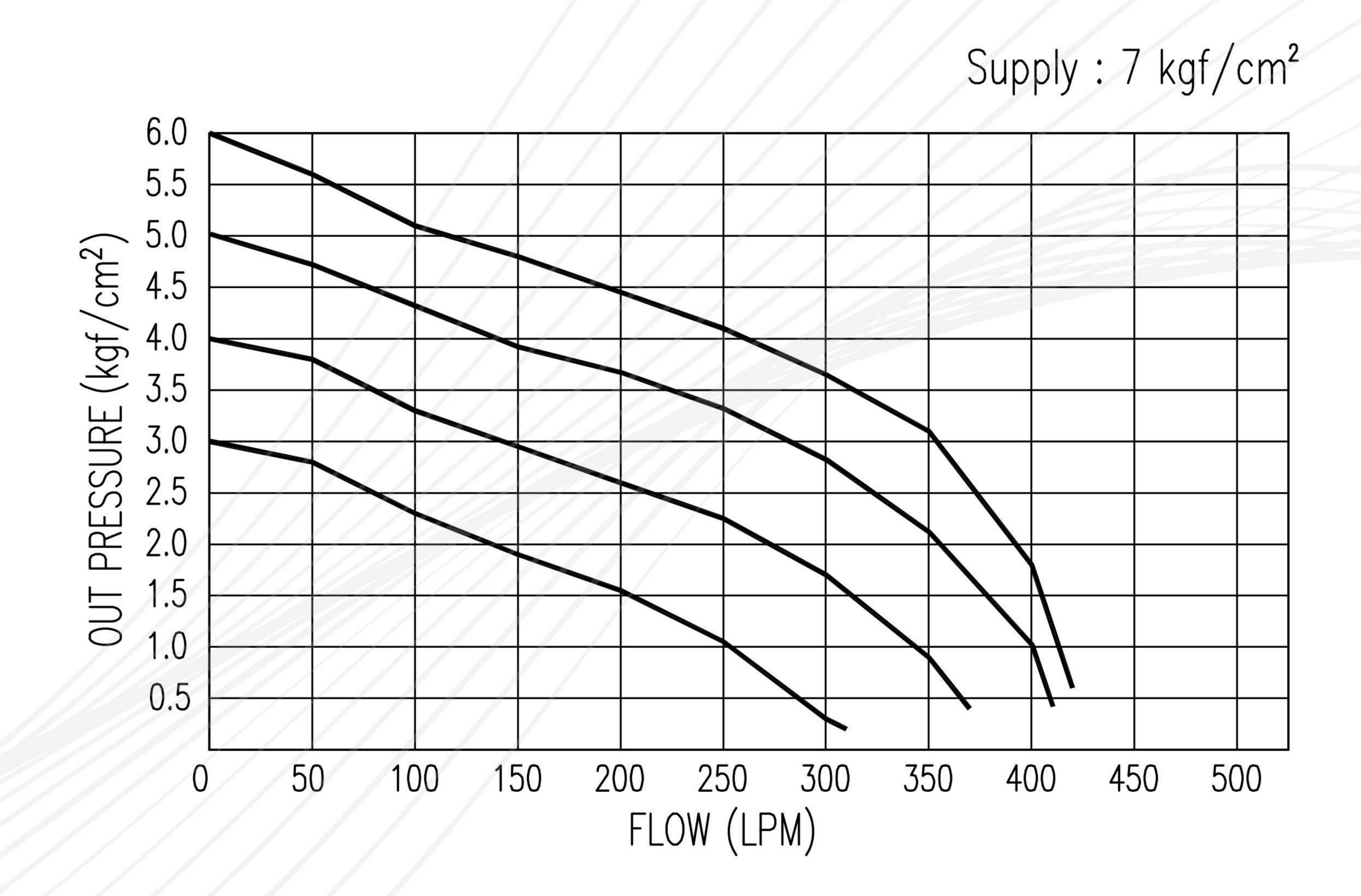
- (1) Before supplying air pressure into YT-200, turn adjust bolt counter-clockwise, so the ring is not pushed.
- (2)Install pressure gauge on the secondary pressure output port. The pressure gauge indicates primary pressure that is being output.
- (3) Air pressure is supplied through primary pressure input port after output port is being blocked by using ball-valve or other fitting tools.
- (4) When the secondary pressure reaches at set level, fasten the adjust bolt completely.

Output And Flow (LPM)

Pressure



Flow (LPM)





Maintenance

Please refer to below table (repair kit) and parts'name. Before replacing any parts, please make sure to follow field's safety procedure and the manual to avoid any accidents and damages to the product.

Repair Kit

Part Name	Qty
Stem	1 (ea)
Diaphragm Assembly	1 (ea)
Filter	1 (ea)
O-ring	2 (ea)

When using Repair Kit, all of the parts must be replaced at the same time. Partial part replacement may result in shortening product's life cycle.

Draining Condensed Water

- when draining out condensed water, supply air pressure must be shut down completely or adjust the pressure level below 1kgf/cm² The operator can be seriously hurt when draining out at high pressure.
- Slowly open drain plug to drain condensed water.
- After draining out completely, close the drain plug.

Replacing Filter Case And Parts

- Shut off supply air pressure.
- Release lock nut on adjust bolt, rotate adjust bolt counter-clockwise to lowersetting pressure.
- Open drain plug on filter case to drain condensed water and close.
- Unscrew bolts on filter case in diagonal order.
- Replace filter, o-ring, and stem.
- Screw bolts on filter case in diagonal order.
- Unscrew 6 bolts on spring case in diagonal order.
- Replace diaphragm assembly.
- •Screw bolts on spring case in diagonal order. Make sure not to damage diaphragm when screwing.

Manufacturer Warranty

- For the safety, it is imperative to follow install instruction in the manual.
- It is not manufacturer's responsibility for any damages due to the user's negligence.
- It is not manufacturers responsibility for any damages or accident due to user's alteration of the product and parts. If alteration or modification is necessary, please contact the manufacturer directly.
- Manufacturer warrants the product from the date of original retail purchase of the product for one (1) year, except as otherwise stated.
- Manufacturer warranty will not cover the products that the product have been subjected to
- abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; damages that occurs in shipment, due to act of God, failure due to power surge, and cosmetic damage. Improper or incorrectly performed maintenance or report voids this Limited Warranty.