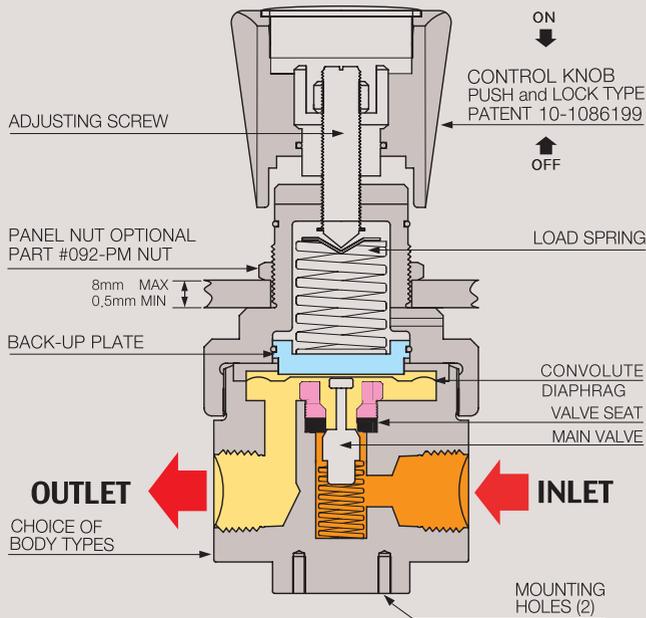
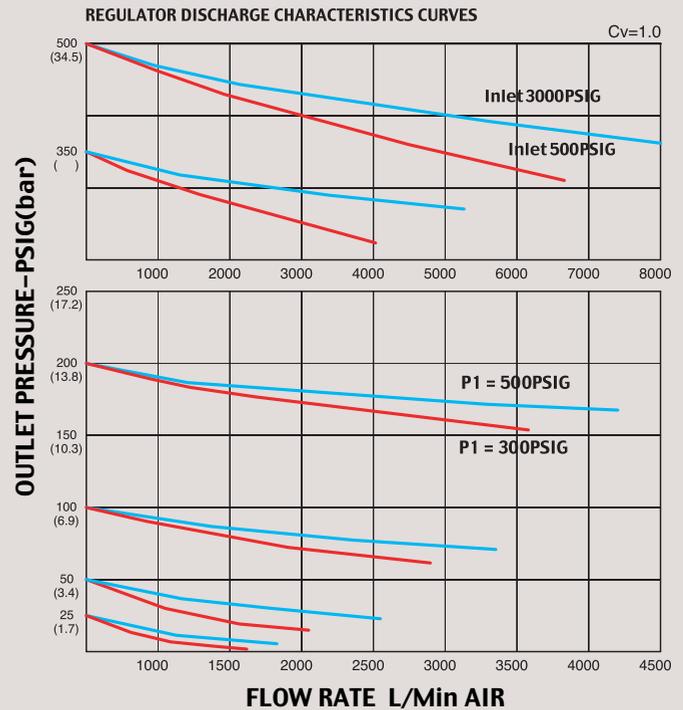




FUNCTIONAL SCHEMATIC



FLOW CHART



HIGH-FLOW PRESSURE REDUCING REGULATOR

ORK92 SERIES

ORK92 Series gas and liquid regulators are specially designed to regulate the mass-flow of gases and liquid such as semiconductor equipment production line and ultra-precision plumbing line with 1/2" F NPT, etc. As the product's body and all internal parts are made of stainless steel 316L that is strong for corrosiveness and liquid, they can be used for ultra-pure six-nine (99.9999) gases, corrosive gases, and liquids. Accordingly, special regard was paid to utmost safety and easy operation of the regulators. Regulators are designed and manufactured for easier operation by equipping with the own developed push and lock type handle which completely prevents the self-change of pre-set value which can be caused by the vibration from outside or minute vibration at the gas pipeline. You can prevent the self-changing of pre-set value just by pushing the handle and reset the value freely by drawing the handle.

SPECIFICATIONS

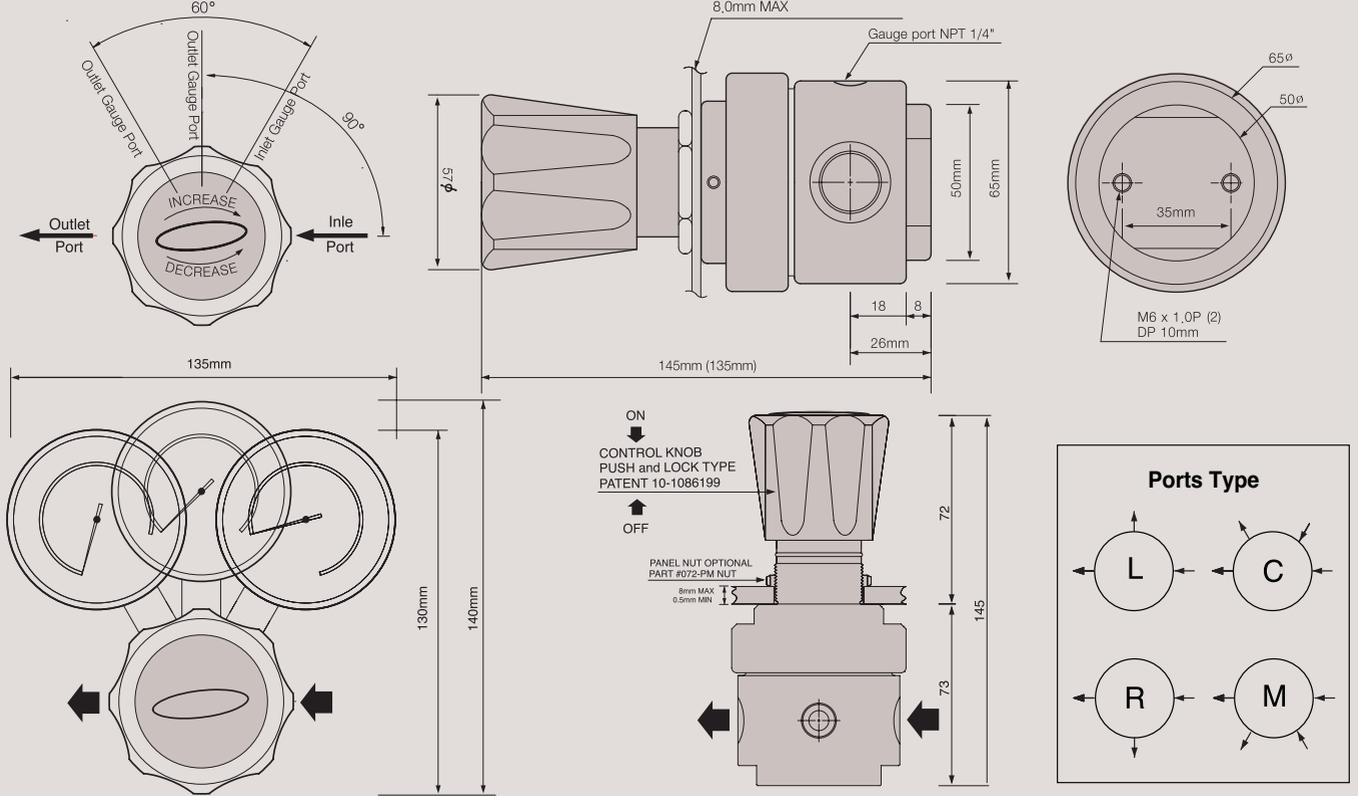
Ports	1/2" NPT type Gauge Ports 1/4" NPT
Leak Rate Certification	to 2x10 ⁻⁸ atm cc/sec Helium available.
Body Material	Stainless steel 316L
Bonnet Material	Nickel Plated Forged Brass/stainless steel 316L
Diaphragm	Stainless steel 316L
Main Valve	Stainless steel 316L
Valve Spring	Stainless steel 316L
Valve Seat	Teflon® (Kel-F, Polyimide, etc.. Optional)
Inlet Pressure Ranges	092-0000-1S, 3,500psig (238bar) 092-0000-1S-5, 500psig (35bar)
Outlet Pressure Ranges	25(1.7bar), 50(3.5bar), 100(7bar), 200(14bar), 350psig(24bar)
Self-Venting	092-0000-1S-V Optional
Operating Temperature	-40°C - +70°C(-40°F - +160°F) (standard) 092-0000-1S-H1, +120°C (Optional) 092-0000-1S-H2, +250°C (Optional)
Flow Capacity	Cv=1.0 (Cv=1.2 Optional)

REFERENCE

This catalogue is printed as of January 2013, and the dimensions and/or specifications in this catalogue can be changed without prior notice in the course of constant upgrading and improvement of our products.

INSTALLATION DIMENSIONS
METRIC EQUIVALENTS ARE IN PARENTHESES

■ **GAUGE PORT OPTIONS**



Features

- Suitable for the High-Flow Regulator of 1/2" NPT Type
- Body and all internal parts are Stainless steel 316L
- Inlet 3500psig(241bar) or 500psi(35bar)
- Outlet 25psig(1.7bar), 50psig(3.5bar), 100psig(7bar), 200psig(14bar), 350psig(24bar)
- Panel mounting nut option
- W092-0000-1S / W MODEL IS ONLY TYPE for LIQUID or WATER

Recommendations to Use

Each product is manufactured since being taken into consideration of the best safety and easy manipulation. However in order to use the regulator in most safe and effective way, you are recommended to use the actual pressure within the range of its 25% ~ 75%. For making precise, smooth movement and to prolong product life, strongly recommended to make a use within above mentioned range.

ORDERING INFORMATION

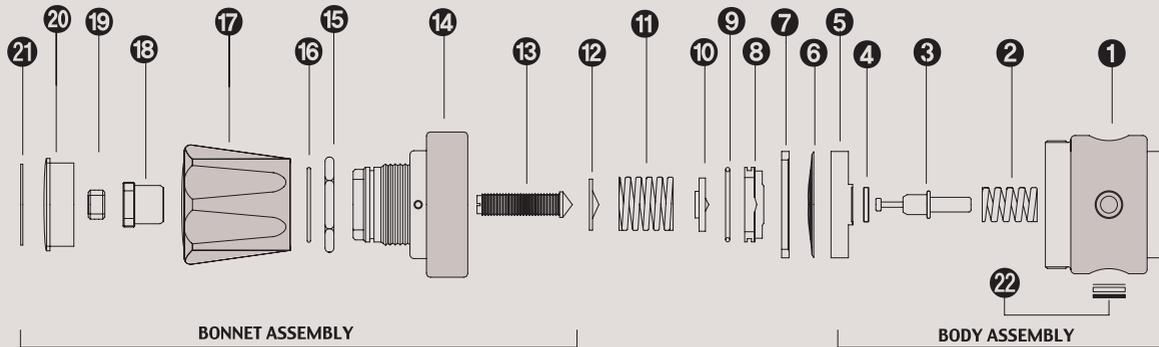
W ORK92 - 0025 L - 1S H - 5 - V - H1

W MODEL	BASIS SERIES NUMBER	OUTLET PRESSURE RANGE	PORT TYPE	FLOW CAPACITY	DIAPHRAGM MATERIAL	INLET PRESSURE	SELF VENTING	HIGH TEMPERATURE
W model is only type for Liquid or Water	Standard Inlet Pressure 3500psig (238 bar) Body : STS 316L Only	0025 = 25psi(1.7bar) 0050 = 50psi(3.5bar) 0100 = 100psi(7bar) 0200 = 200psi(14bar) 0350 = 350psi(24bar) 0500 = 500psi(34bar)	L = 3-Ports C = 4-Ports R = 3-Ports M = 4-Ports	1 = 1/2" Female NPT 1S = Cv 1.0 Standard	STS 316L Standard H = Hastelloy-C Optional	5 = Inlet 500psi(35bar) Optional	V = Self-Venting Optional	H1 = 120 °C H2 = 250 °C H3 = 500 °C Optional

※ 500PSIG : W Model Only



ORK92 SERIES PART LIST



STANDARD MODEL SERIES

Item No.	Description	Part No.	Model Application
01	Body	092-02-01	02-01 Stainless steel 316L
02	Valve spring	092-04-01	All Model Same
03	Main Valve	092-06-01	All Model Same
04	Valve Seat	092-10-01	All Model Same
05	Locking Plate	092-14-01	All Model Same
06	Diaphragm	092-16-01	16-01 STS 316L / 16-02 Hastelloy C-22
07	Diaphragm Plate	092-22-01	All Model Same
08	Back-up Plate	092-26-01	All Model Same
09	Back-up Plate O-ring	092-26-00	All Model Same
10	Spring Plate	092-30-01	All Model Same
11	Load Spring	092-38-01	38-01 25psi/38-02 50psi/38-03 100psi/38-04 200psi/38-06 350psi/38-07 500psi
12	Pivot	092-40-01	All Model Same
13	Adjusting Screw	092-42-01	All Model Same
14	Bonnet	092-44-02	44-01 STS 316L / 44-02 Brass
15	Panel mount Nut	092-48-01	All Model Same
16	Push & Lock O-Ring	092-46-01	All Model Same
17	Control Knob	092-50-01	50-01 ABS / 50-04 Aluminum Control knob
18	Push & Lock Handle nut	092-52-01	All Model Same
19	Locking Nut	092-54-01	All Model Same
20	Name Cap	092-56-01	All Model Same
21	Name Cap Plate	092-58-01	58-01 25psi/58-02 50psi/58-03 100psi/58-04 200psi/58-06 350psi/58-07 500psi
22	Filter Assembly	092-60-03	All Model Same