ORK70 SERIES

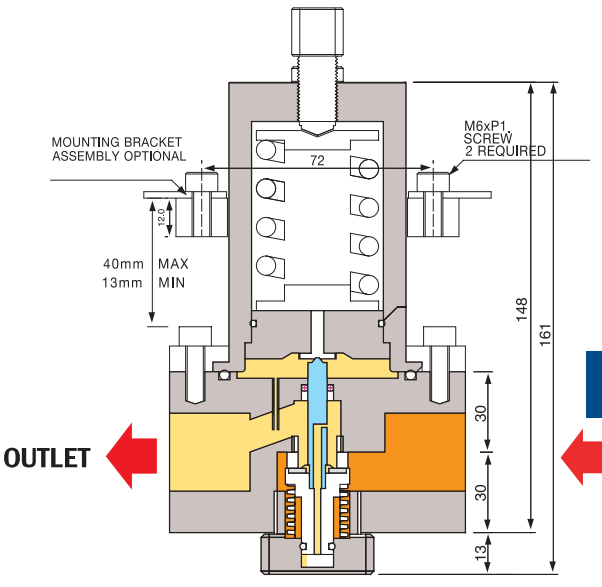
HIGH-FLOW and HIGH PRESSURE Regulator

Drop-prevention function Built-in

This is revision by Jan of 2016

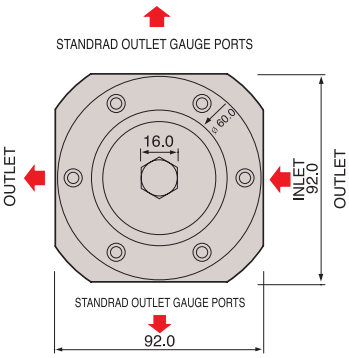
FUNCTIONAL SCHEMATIC

■ BOLT CONTROL TYPE (DR701 SERIES)

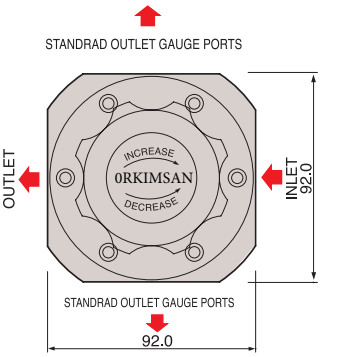


INSTALLATION DIMENSIONS

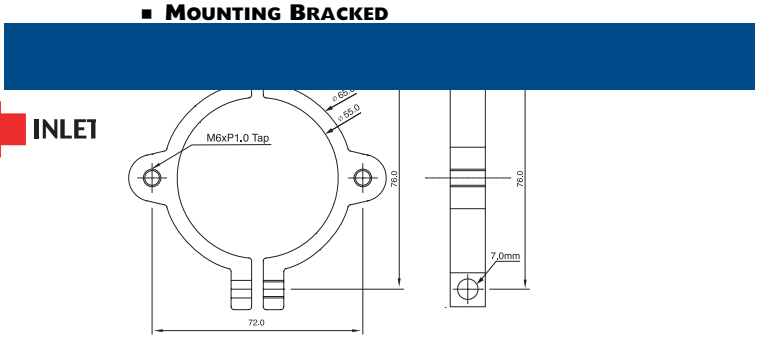
■ BOLT CONTROL



■ KNOB CONTROL TYPE



■ MOUNTING BRACKED



HIGH-FLOW AND HIGH PRESSURE

ORK70 SERIES

ORK70 Series is a regulator most suitable for pipeline application where high flow of water, chemical, liquid, gas, etc. is requested. NPT or BSP 3/4″ and up to 1″ pipe can be selectively used to this series. The self-correction function of DROP built in this regulator enables to keep the P2 pressure (adjusted or setting pressure) stable and constant without impact from P1 if it faces big pressure differences at P1. Regulator body is made of brass or stainless steel 316L and has the wide range of inlet pressure up to 250bar (3,625psi) for brass body and 350bar (5,076psi) for stainless steel body respectively by model. Outlet working pressure has the range of 0.5~55bar(780psi) by model.

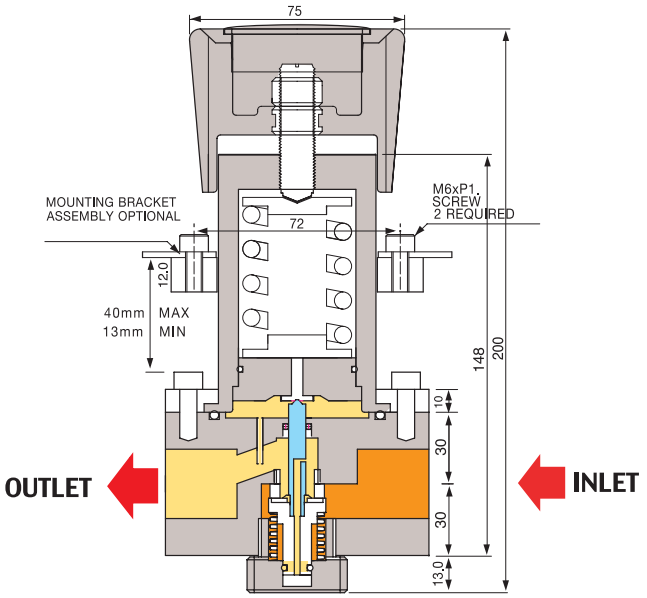
Features

- Precision control of NPT or BSP 3/4″ 1″ Type Regulators
- Drop-prevention function Built-in.
- Suitable for the research labs, industrial control
- Outlet 10bar(145psig), 25bar(362psig), 50bar(725psig), 70bar(1015psig)
- Outlet 150bar(2100psig), 250bar(3600psig), 350bar(5000psig): SH Model

ORK70 SERIES

REFERENCE
This catalogue is printed as of January 2016, 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.

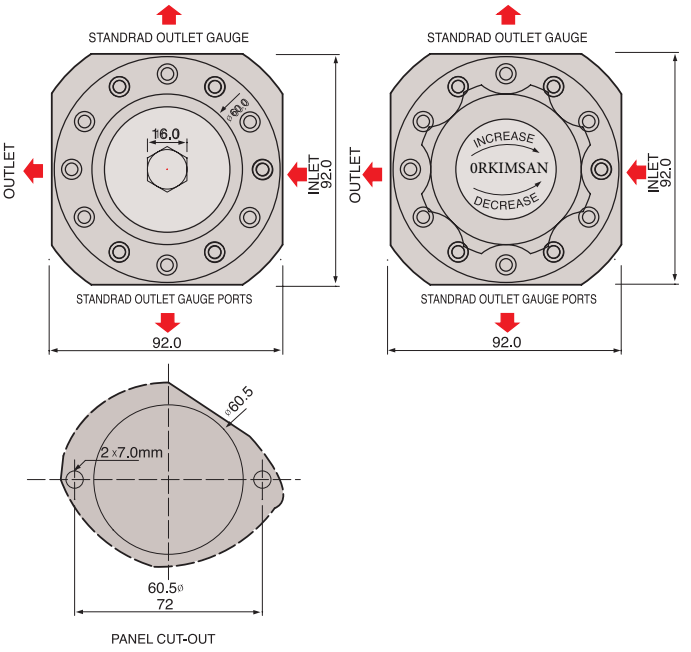
FUNCTIONAL SCHEMATIC



INSTALLATION DIMENSIONS

(For SH Type - 12pcs Bolts)

■ **KNOB CONTROL TYPE**



Recommendations

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.

Caution

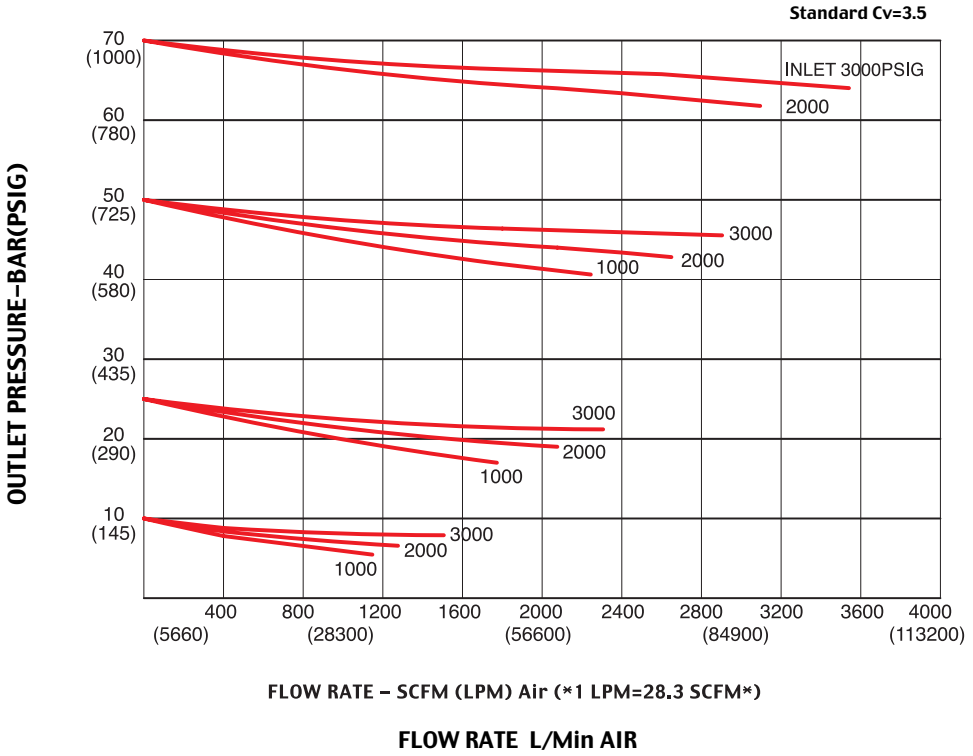
Filtering (Gas 7㎛~15㎛, water 15㎛~80㎛) is a Must for General gas application such as Non-high purity gas. Otherwise, it may cause a breakdown to the regulator. It is strongly recommended to install filter for prolong product life time and enable saving maintenance expense.

ORDERING INFORMATION

ORK702 - S P - 010 - NP 2 - V - H1

BASIS SERIES NUMBER	BODY MATERIAL	VALVE SEAT	CONTROLLED PRESSURE RANGE	INLET OUTLET PORTS	INLET OUTLET PORTS SIZE	SELF VENTING	HIGH TEMPE-RATURE
ORK701 = Bolt Control ORK702 = Knob Control	S = STS 316L 200bar (3000psi) B = BRASS 150bar (1500psi) SH = STS 316L 420bar (6000psi)	P = Teflon V = Vespel	010 = 10bar (145psi) 025 = 25bar (362psi) 050 = 50bar (725psi) 070 = 70bar (1000psi) SH Model Only 150 = 150bar (2100psi) 250 = 250bar (3600psi) 350 = 350bar (5000psi)	NP = NPT BS = BSP	2 = 3/4″ 3 = 1″	V = Self-Venting Optional	H1 = 120° C H2 = 250° C H3 = 500° C Optional

FLOW CHART



SPECIFICATIONS

Ports	ORK70x-SP-010 -NP2 3/4″ NPT ORK70x-SP-010 -BS2 3/4″ BSP ORK70x-SP-010 -NP3 1″ NPT ORK70x-SP-010 -BS3 1″ BSP
Leak Rate Certification	to $2x10^{-8}$ atm cc/sec Helium available.
Body Materials	ORK70x-BP-010 -NP2 Brass ORK70x-SP-010 -NP2 Stainless steel 316L
Bonnet Material	Nickel Plated Brass / Stainless steel 316L(Optional)
Main Valve	Stainless steel 316L
Valve Spring	Stainless steel 316L(Optional)
Valve Seat	ORK70x-SV-010 -NP2 VESPEL ORK70x-SP-010 -NP2 TEFLON
Outlet Pressure Ranges	10bar(145psig), 25bar(362psig) 50bar(725psig), 70bar(1015psig)
Operating Temperature	-30℃ ~ +60℃ VITON / -40℃ ~ +70℃ TEFLON (standard)
Flow Capacity	Cv= 3.5 (Standard)