

Standard Specifications

Sensitivity	Within 0.2% of full span	
Repeatability	Within ±0.5% of full span	
Air consumption	NIR10□□	4.4 L/min (ANR) or less
	NIR20□□ NIR2120	4.4 L/min (ANR) or less
	NIR30□□ NIR3120	11.5 L/min (ANR) or less
Ambient and fluid temperature	-5 to 60°C (No freezing)	
Supply pressure	1.0 MPa	
Pressure gauge port	Rc 1/8 (2 locations)	

Note: Air filter (AF) and oil mist separator (AM, AFM) need to be installed on the air supply side.

Specification Combinations

Model (Note 1)		Specifications			Accessory	
		Minimum supply pressure (Mpa)	Set pressure (MPa)	Connection	Pressure gauge	Bracket
Basic type	NIR1000-01	Set pressure + 0.05	0.005~0.2	1/8	G33-2-01	P36201023
	NIR1010-01		0.01~0.4		G33-4-01	
	NIR1020-01		0.01~0.8		G33-10-01	
	NIR2000-02		0.005~0.2	1/4	G43-2-01	P36202028
	NIR2010-02		0.01~0.4		G43-4-01	
	NIR2020-02		0.01~0.8		G43-10-01	
	NIR3000-□	Set pressure + 0.01	0.01~0.2	1/4	G43-2-01	P362030-20
	NIR3010-□		0.01~0.4	3/8	G43-4-01	
	NIR3020-□		0.01~0.8	1/2		
Air operated type	NIR2120-02	Set pressure + 0.05	0.01~0.8	1/4	G43-10-01	P36202028
	NIR3120-□	Set pressure + 0.1	0.01~0.8	1/4, 3/8, 1/2		P362030-20

Note) □ - Representative takeover caliber, 02=Rc1/4, 03=Rc3/8, 04=Rc1/2.

Standard Specifications

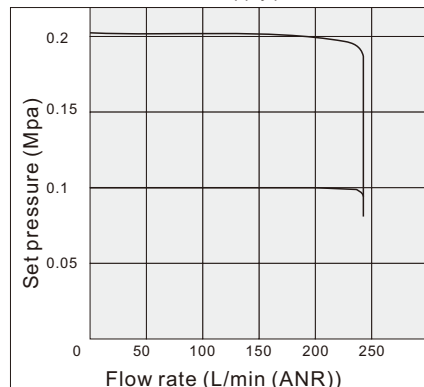
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※ The operating conditions or external disturbance may affect each of the characteristics. So, the characteristic values shown below are not guaranteed.

Flow Rate Characteristics

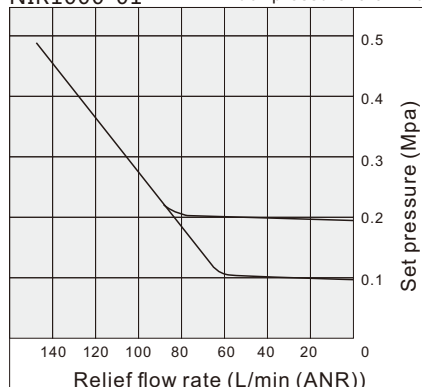
※ Testing methods conform to JIS B 8372.

NIR1000-01 Supply pressure: 0.5 MPa



Relief Characteristics

NIR1000-01 Back pressure: 0.5 MPa

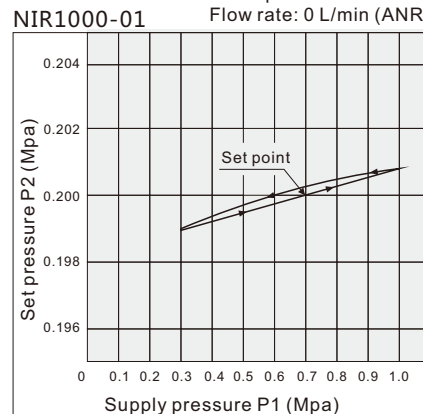


Pressure Characteristics

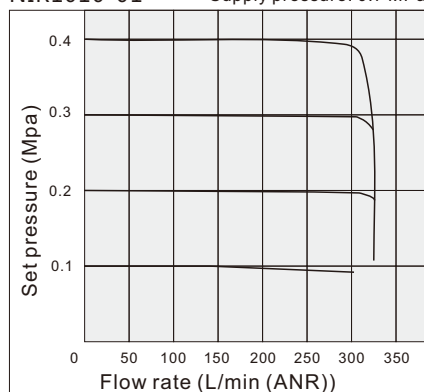
Supply pressure: 0.7 MPa

Set pressure: 0.2 MPa

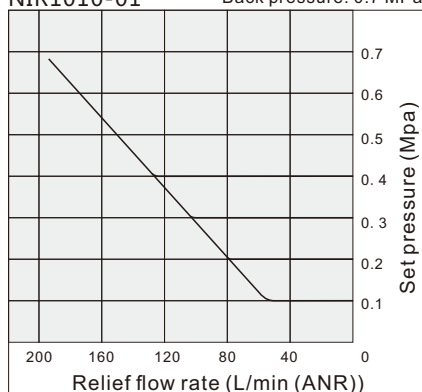
Flow rate: 0 L/min (ANR)



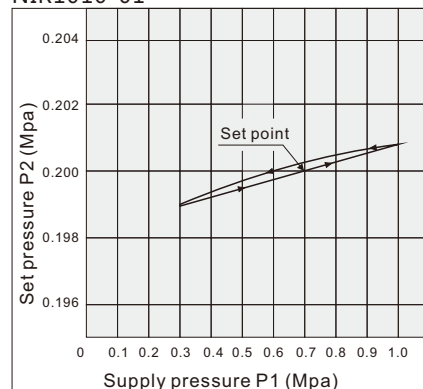
NIR1010-01 Supply pressure: 0.7 MPa



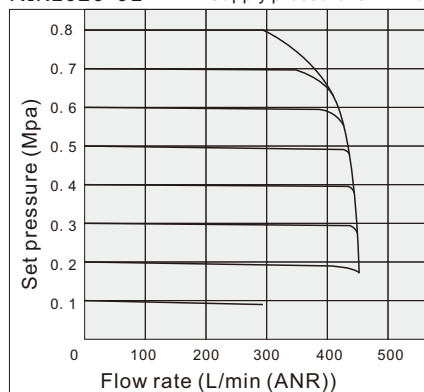
NIR1010-01 Back pressure: 0.7 MPa



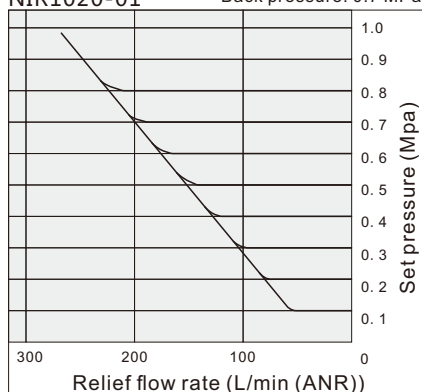
NIR1010-01



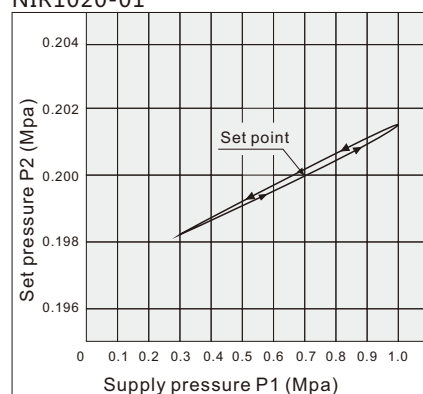
NIR1020-01 Supply pressure: 0.7 MPa



NIR1020-01 Back pressure: 0.7 MPa



NIR1020-01

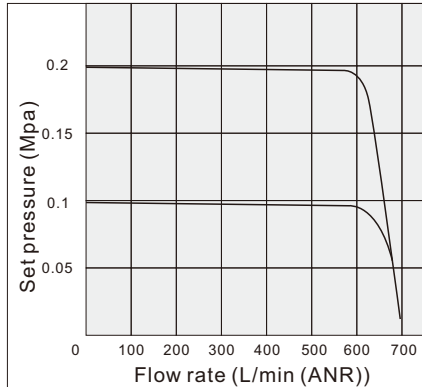


※ The operating conditions or external disturbance may affect each of the characteristics. So, the characteristic values shown below are not guaranteed.

Flow Rate Characteristics

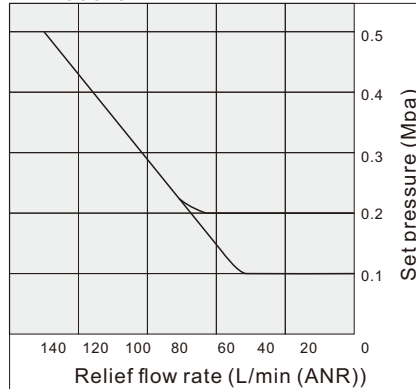
※ Testing methods conform to JIS B 8372.

NIR2000-02 Supply pressure: 0.5 MPa



Relief Characteristics

NIR1000-02 Back pressure: 0.5 MPa

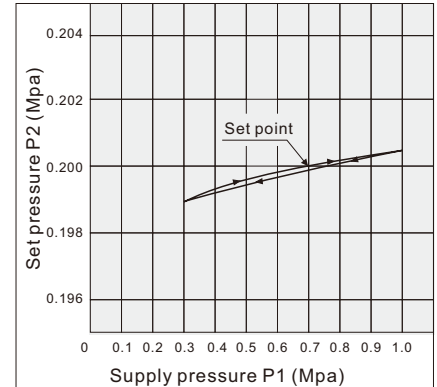


Pressure Characteristics

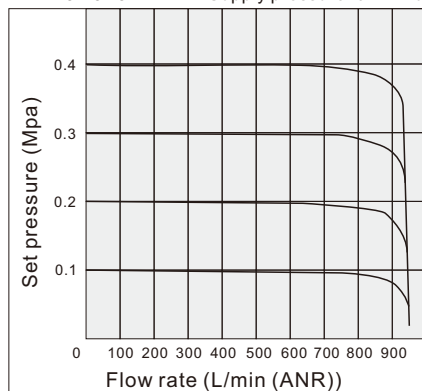
Supply pressure: 0.7 MPa

Set pressure: 0.2 MPa

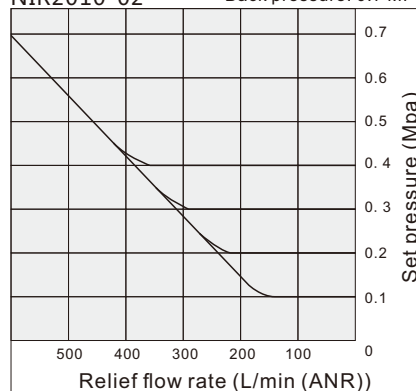
Flow rate: 0 L/min (ANR)



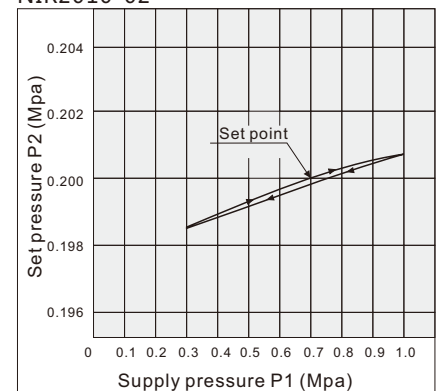
NIR2010-02 Supply pressure: 0.7 MPa



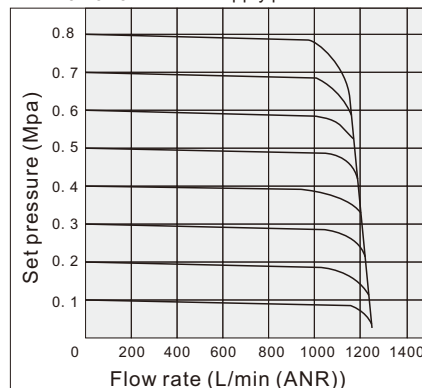
NIR2010-02 Back pressure: 0.7 MPa



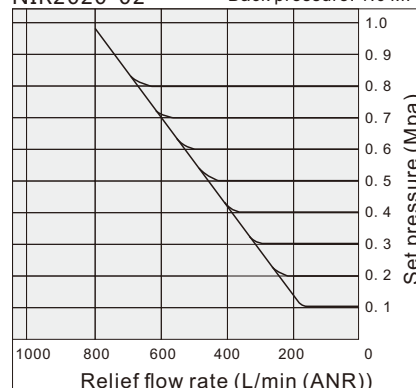
NIR2010-02



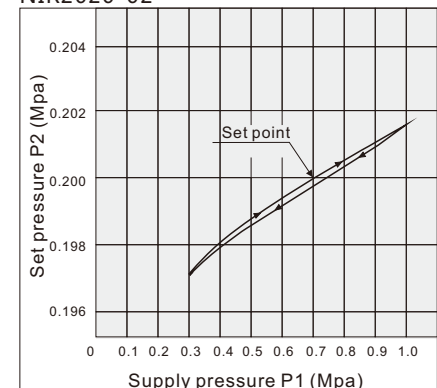
NIR2020-01 Supply pressure: 1.0 MPa



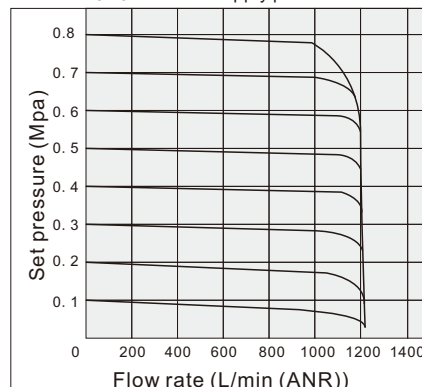
NIR2020-02 Back pressure: 1.0 MPa



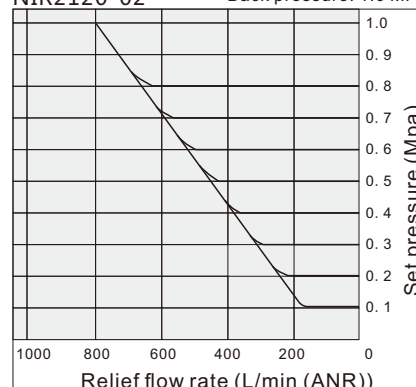
NIR2020-02



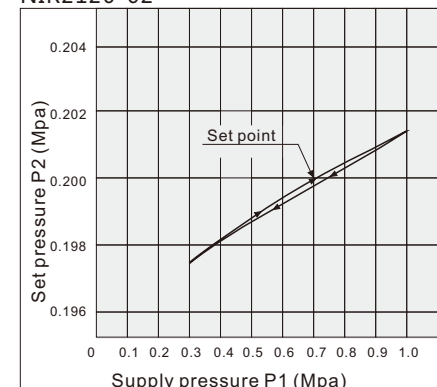
NIR2120-02 Supply pressure: 1.0 MPa



NIR2120-02 Back pressure: 1.0 MPa



NIR2120-02

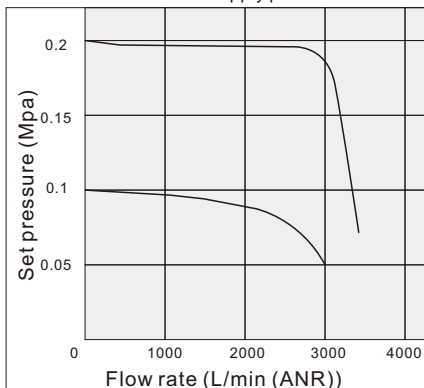


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Flow Rate Characteristics

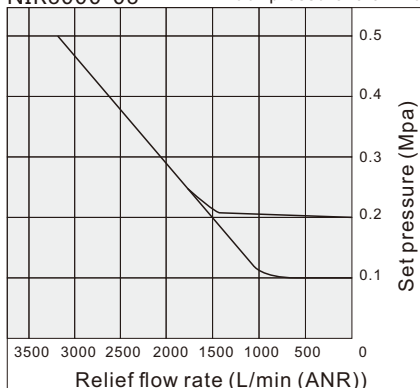
※ Testing methods conform to JIS B 8372.

NIR3000-03 Supply pressure: 0.5 MPa



Relief Characteristics

NIR3000-03 Back pressure: 0.5 MPa

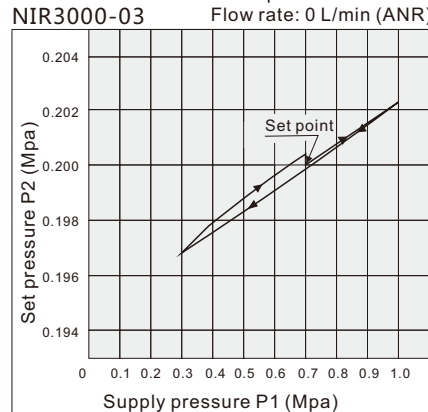


Pressure Characteristics

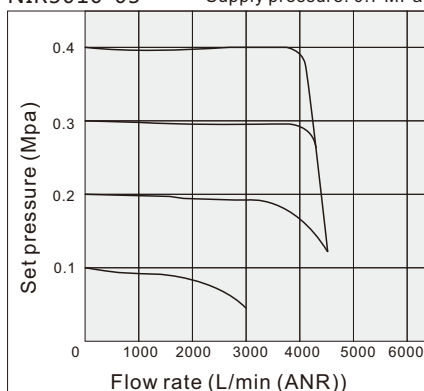
Supply pressure: 0.7 MPa

Set pressure: 0.2 MPa

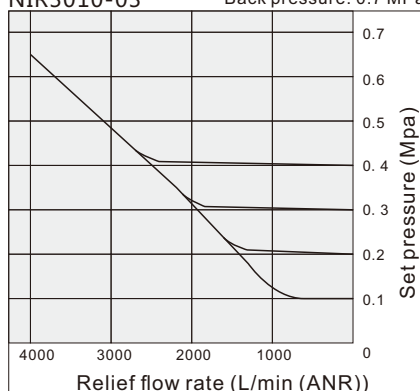
Flow rate: 0 L/min (ANR)



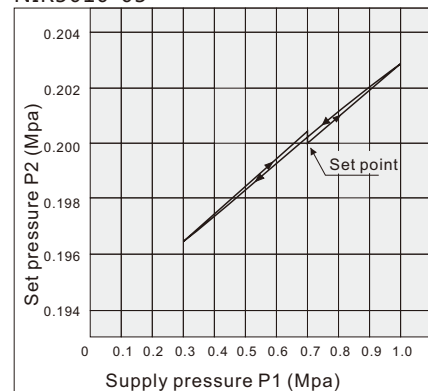
NIR3010-03 Supply pressure: 0.7 MPa



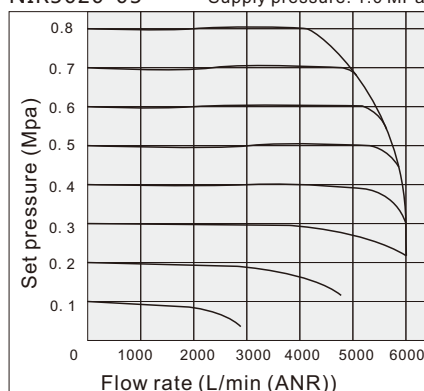
NIR3010-03 Back pressure: 0.7 MPa



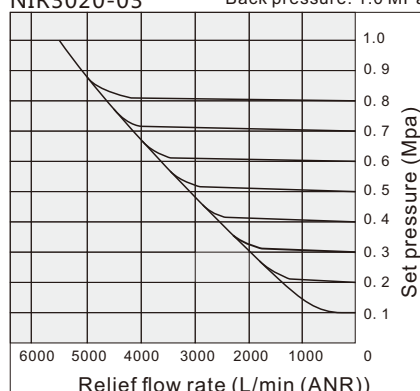
NIR3010-03



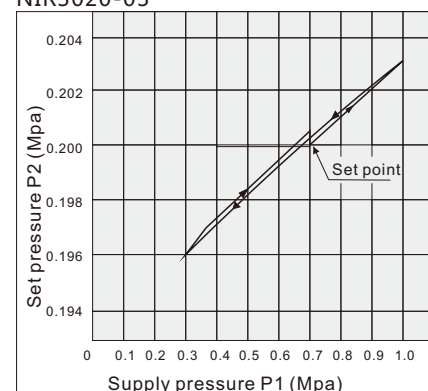
NIR3020-03 Supply pressure: 1.0 MPa



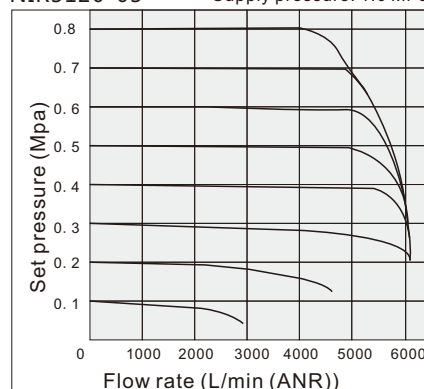
NIR3020-03 Back pressure: 1.0 MPa



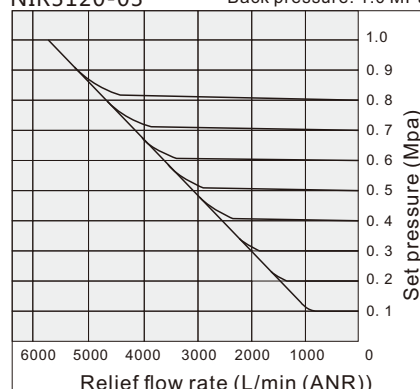
NIR3020-03



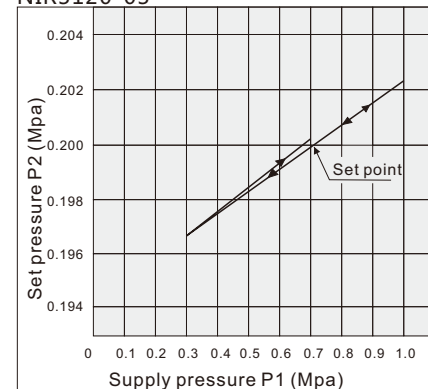
NIR3120-03 Supply pressure: 1.0 MPa



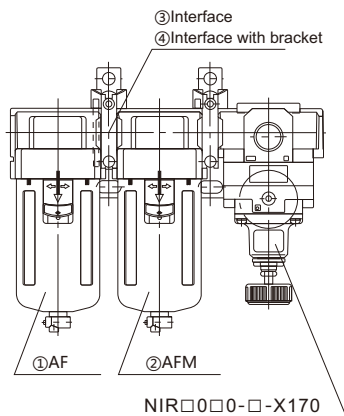
NIR3120-03 Back pressure: 1.0 MPa



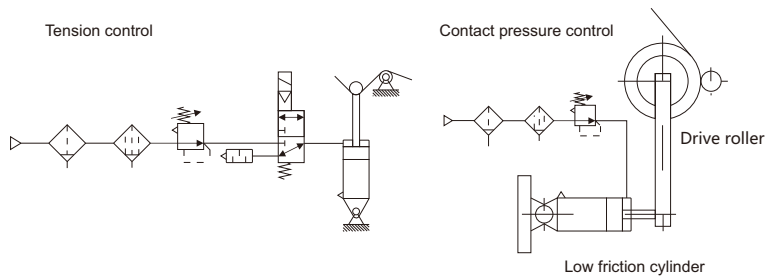
NIR3120-03



Equip on the mdular filter combination



Application Example

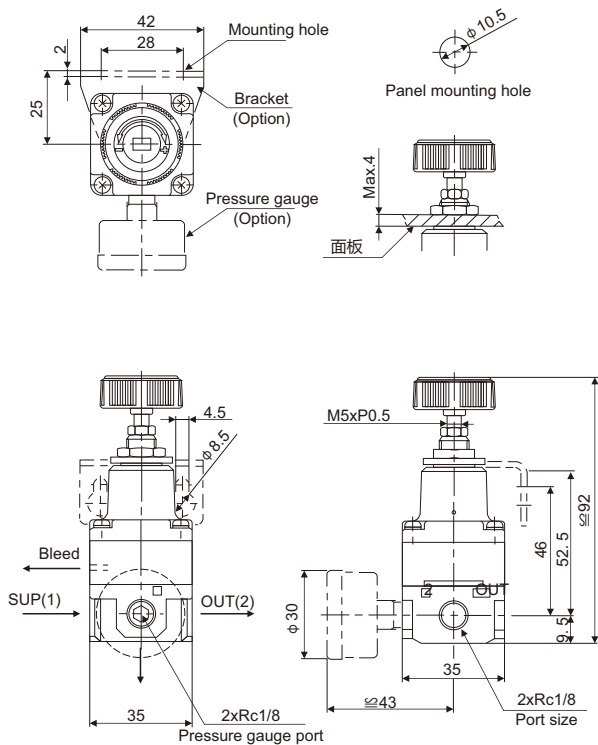


Description	Applicable model		
	NIR10□0-01-X170	NIR20□0-02-X170	NIR30□0-□□-X170
Air filter	NAF20-A	NAF30-A	NAF40-A
Mist separator	NAFM20-A	NAFM30-A	NAFM40-A
Interface	NY200-A	NY300-A	NY400-A
Interface with bracket	NY200T-A	NY300T-A	NY400T-A

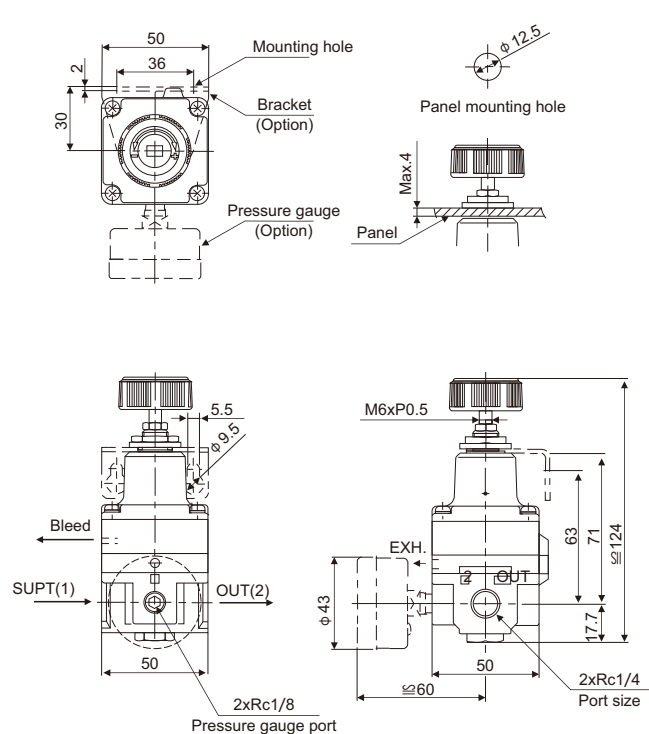
Note) The modular adapter attached to the Made-to-Order product (NIR□□□□-□□-X170) is shipped together, but not assembled.

Dimensions

NIR10□0-01

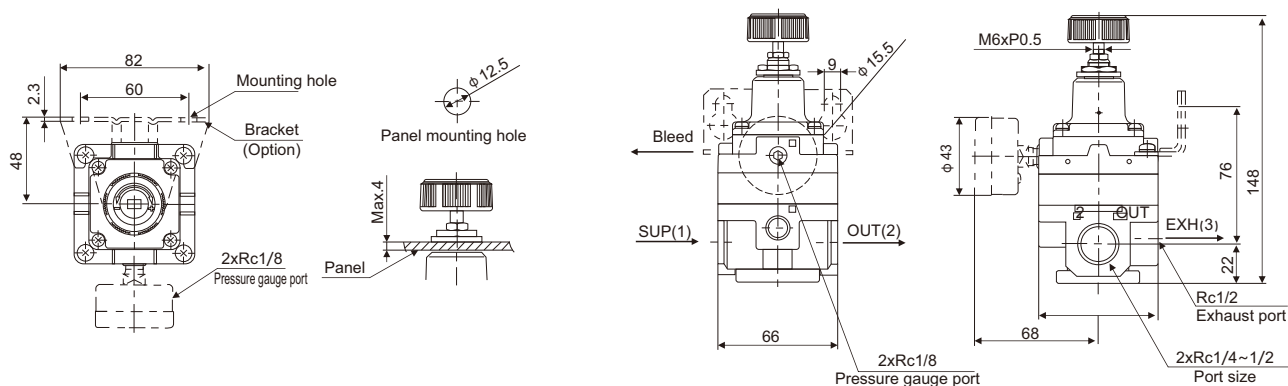


NIR20□0-02

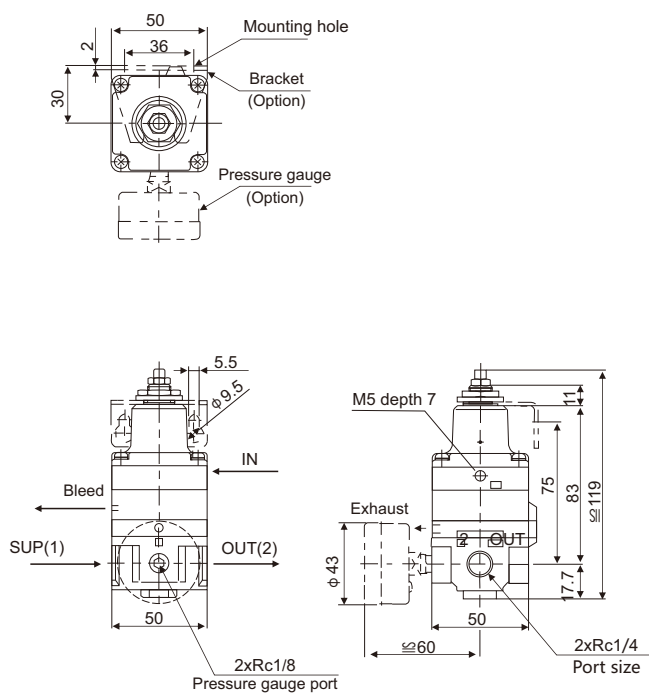


Dimensions

NIR30□0-0□



NIR2120-02□
(Air operated type)



NIR3120-0□□
(Air operated type)

