Filter Regulator

- Two types are available: adjustable set pressure type and fixed set pressure type.
- Low/High temperature and external parts copper-free types can be selected.
- Pressure gauge connecting direction: 2 directions (Front/Back)



Standard Specifications

Model	IW212	IW213	IW215	IW222	
Widder	Adjustable type (Basic)			Fixed type	
Supply pressure		Max. 1.0 MPa 0.3 to 1			
Set pressure	0.02 to 0.2 MPa	0.02 to 0.3 MPa	0.02 to 0.5 MPa	0.14 MPa	
Air consumption (At maximum set pressure)) 1 L/min (ANR) or less 0.5 L/min		0.5 L/min (ANR) or less		
Ambient and fluid temperature	-10 to 60°C (No freezing)				
Filtration accuracy	5 µm				
Port size	Rc1/4				
Pressure gauge port	Rc1/4 (2 locations)				
Weight	0.66 kg	0.67 kg	0.68 kg	0.52 kg	

* With pressure gauge type: Max. 80°C.



Flow Rate Characteristics (Representative values)











IW Series

Principle of Operation



Air flow from the inlet passes through filter (sintered metal) (5) where solids are removed. When knob (1) is adjusted downwards, adjusting spring (2) is compressed. The inlet valve (4) is opened allowing air flow to the outlet. Air outlet pressure balances against diaphragm (3) and adjusting spring (2). When the outlet pressure is higher than the set pressure, the inlet valve (4) is closed and exhaust of the excess outlet pressure takes place through the adjusting spring cover bleed. This ensures constant outlet pressure is maintained.

Construction



Component Parts

No.	Description	Material	Note
1	Body assembly	Aluminum die-casted/Aluminum	Silver color
2	Bonnet	Aluminum die-casted/Brass	Silver color
3	Bowl assembly	Aluminum die-casted/Brass	Silver color
4	Knob	ABS/Stainless steel	_

Replacement Parts Kit: KT-IW212

No.	Description	Material	
5	Diaphragm assembly	Aluminum die-casted/Brass/HNBR	
6	Element	Bronze	
7	Seal	NBR	
8	Filter disk assembly	Brass/NBR	
9	O-ring	NBR	
10	O-ring	NBR	

* This replacement parts kit is applicable for the IW212, IW213, and IW215 standard models. (The kit includes parts numbered 5 to 10.)



Dimensions



IP
IW
1301
AW
IL10
IL2□
IT
CP□
IS
VFN
IN- T 🗆

Filter Regulator 1301 Series

- External main parts: Stainless steel type is available.
- Low temperature/High temperature type is available. (Made-to-Order products of the AW series on page 161)



Standard Specifications

Model	Basic type			External main parts: Stainless steel	
	1301-002	1301-002 1301-1202 1301-2502			
Maximum supply pressure	Max. 1.0 MPa				
Set pressure	0.02 to 0.2 MPa 0.02 to 0.29 MPa 0.02 to 0.49 MPa 0.02 to 0.2 MPa				
Ambient and fluid temperature	-5 to 60°C (No freezing)				
Filtration accuracy	5 μm Rc1/4 Rc1/8 (1 location)				
Port size					
Pressure gauge port					
Weight	1.07 kg				

Flow Rate Characteristics (Representative values)



Pressure Characteristics (Representative values)





Principle of Operation

Construction

1301



Component Parts

		Material				10	
No.	Description			External main parts:	Note	IS	
140.	Description			Stainless steel	14010		
		1301-002	1301-002 1301-1202 1301-2502		1301-902		VFN
1	Decompression chamber	Zinc die-casted				Silver color	IN-
2	Bonnet	Zinc die-casted				Silver color	ΪD
3	Knob	ABS/Brass		ABS/Stainless steel	—		
4	Lock nut		Brass		Stainless steel	-	
5	Round head Phillips screw	Brass			Stainless steel	_	

Replacement Parts

			Part no.			
No.	Description	Material	Basic type	External main parts: Stainless steel		
			1301-002 1301-1202 1301-2502	1301-902		
6	Pilot valve	Stainless steel/NBR	1301207#1	1301207#1		
7	Element	Bronze	1301111-5B	1301111-5B		
8	Diaphragm assembly	Weather resistant NBR/ Brass/ADC	13014A	13014A		
9	Bowl seal	NBR	130124	130124		
10	Bowl assembly	ZDC/Brass	130191A	-		
10	Bowi assembly	ZDC/Stainless steel	—	130191A-S		

IP
IW
1301
AW
IL1
IL2□
IT
CP□
IS
VFN
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1301 Series

Dimensions

