ADVANCE®

PRODUCT CATALOG

Valves for a multiplicity of requirements

www.advance-e.jp

QDR series

Quick Drain Valves

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S-E1606A

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QDR series

Drain Valves

Export Control

●Export control is aimed at preventing the proliferation of weapons of mass destruction and other sensitive items to countries and regions of security concern or terrorist organizations. Export transactions of goods and technology that have potential weapons of mass destruction (WMD)/ conventional weapons applications are regulated under laws and regulations.

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Australia Group (AG)	Wassenaar Arrangement (WA)

●Be sure to comply with each country's export control laws and regulations when exporting or providing products or technologies within this catalog.

※Please contact us if you have any questions.

QDR series

Drain Valve

A wide selection of products to cover multiple requirements

Drain Valve

QDR20/25*-*

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ25 Equivalency[mm]
Connection Size	See Model Selection Table
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.03MPa
Media Temperature	See Model Selection Table
Ambient Temperature	10~40℃
Operational Mode	Dual
Pneumatic Pressure	0.3~0.6MPa
Wetted Material	Bellows: PTFE
	Orifice: CPVC
	(Valve Open)
	Valve Body: CPVC
	Cap: CPVC
	O-Ring: See Model Selection Table
Accessory	O-Ring: See Model Selection Table(G30)

※Specifications are subject to change without notice.

■Model Selection Table

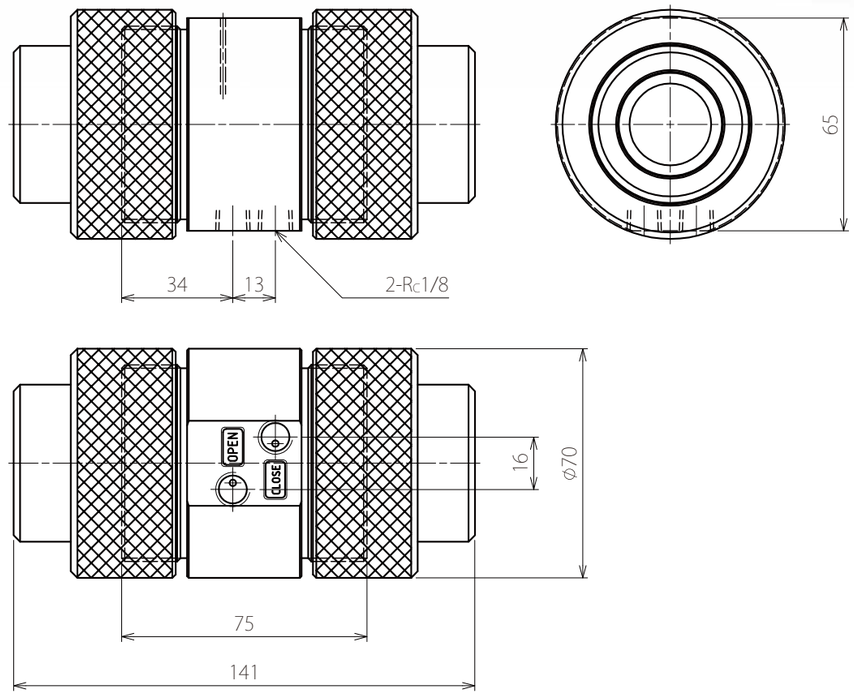
QDR-***

Connection Size
20: 20A Union
25: 25A Union

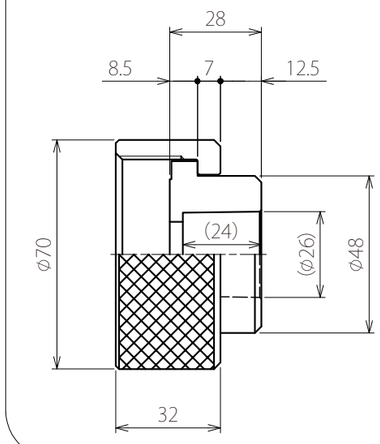
Material of O-Ring
F: FKM
E: EPDM

Accessory
Blank: No Accessories
Media Temperature 10~80℃(Only Body)
TS: PVC Union,PP Nut
Media Temperature 10~40℃
TSH: PVC Union,PP Nut
Media Temperature 10~80℃

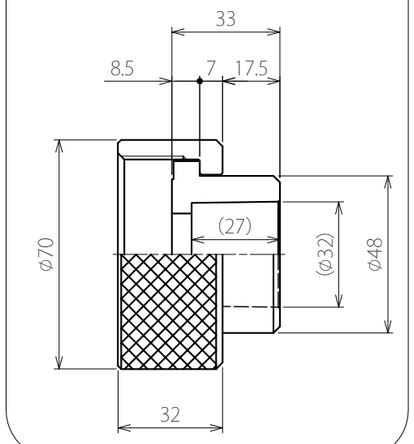
Dimensional Drawing



[Union Pipe Dimensions]
20A



[Union Pipe Dimensions]
25A



(unit : mm)

S-E1606A

QDR20*-*(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=1620(sec)

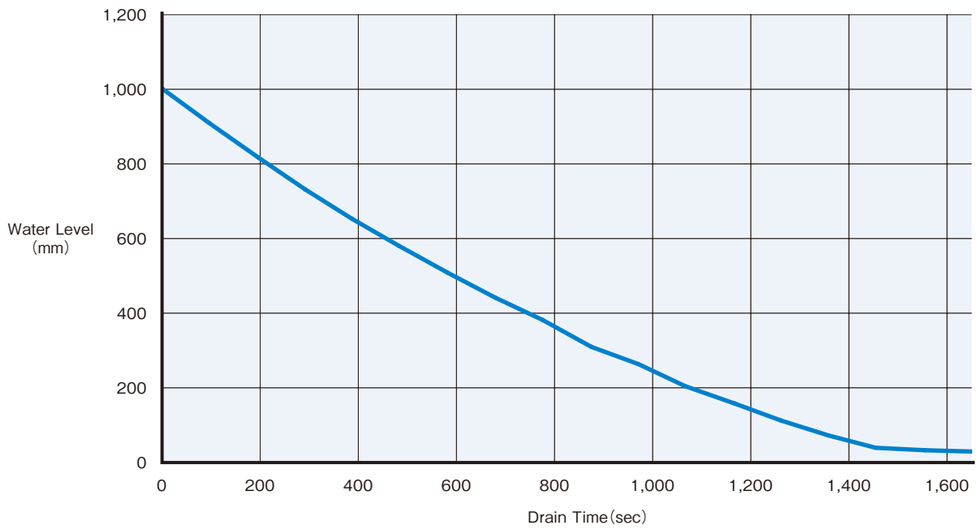
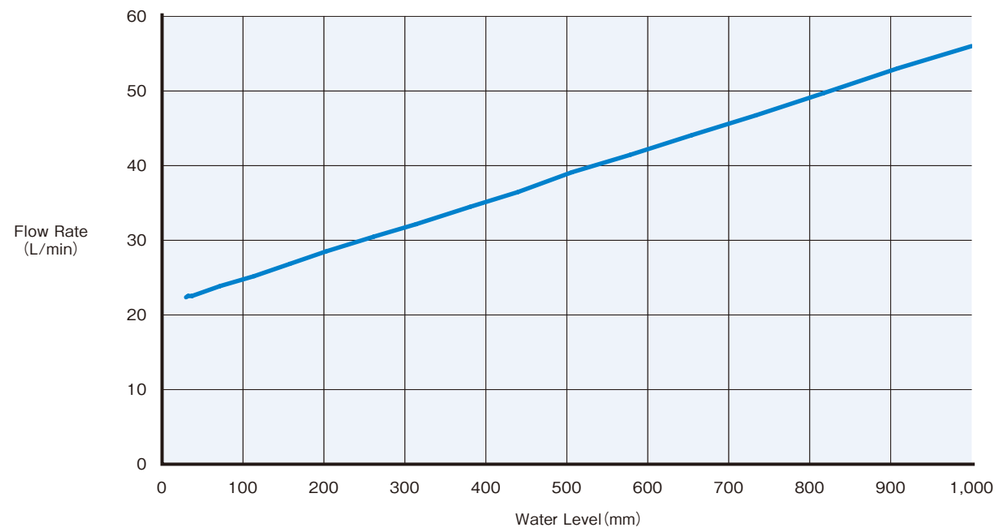
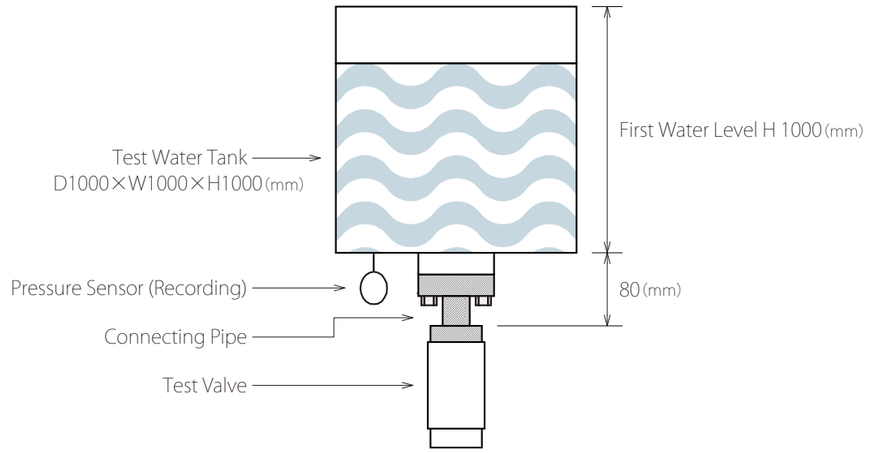
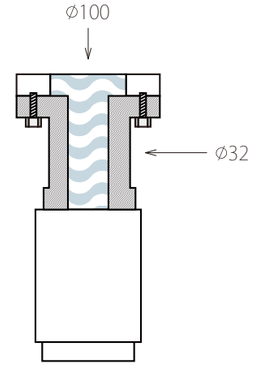


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

QDR25*-*(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=1607(sec)

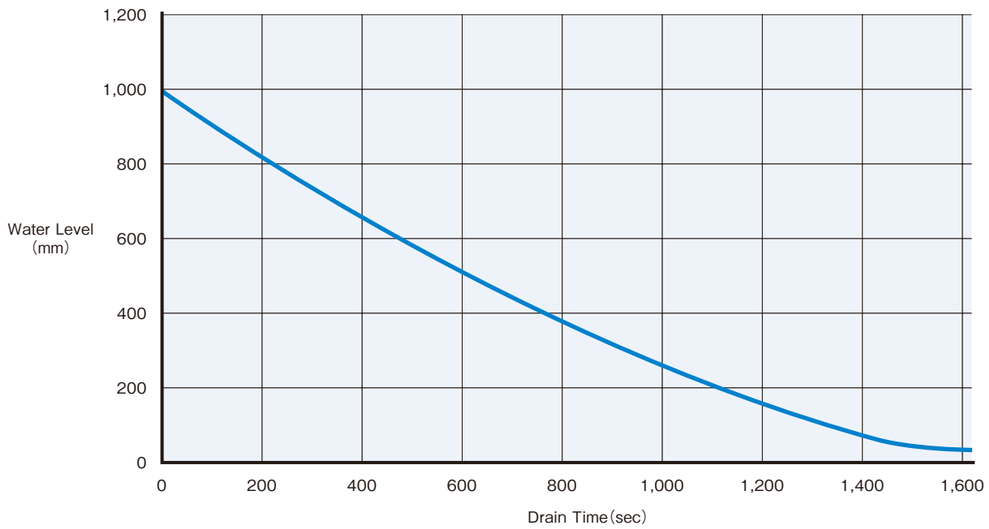
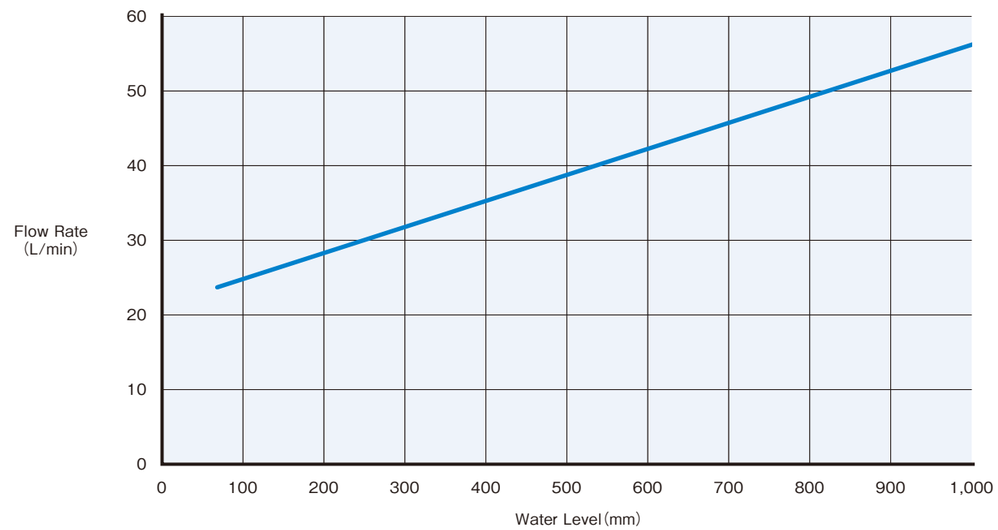
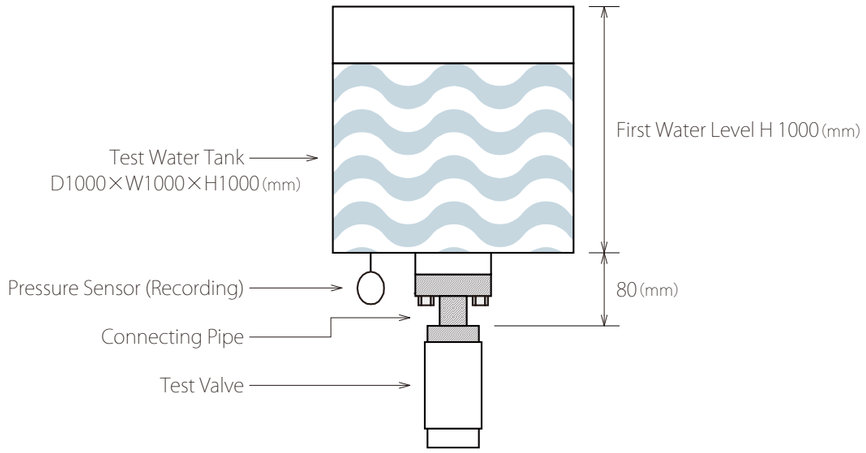
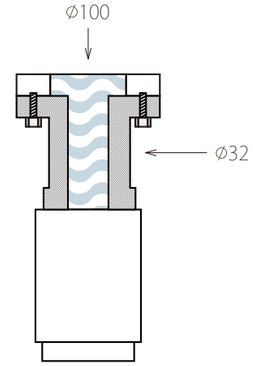


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR30/40*-*

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ40 Equivalency[mm]
Connection Size	See Model Selection Table
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.03MPa
Media Temperature	See Model Selection Table
Ambient Temperature	10~40℃
Operational Mode	Dual
Pneumatic Pressure	0.3~0.6MPa
Wetted Material	Bellows: PTFE
	Orifice: CPVC
	(Valve Open)
	Valve Body: CPVC
	Cap: CPVC
	O-Ring: See Model Selection Table
Accessory	O-Ring: See Model Selection Table(P48)

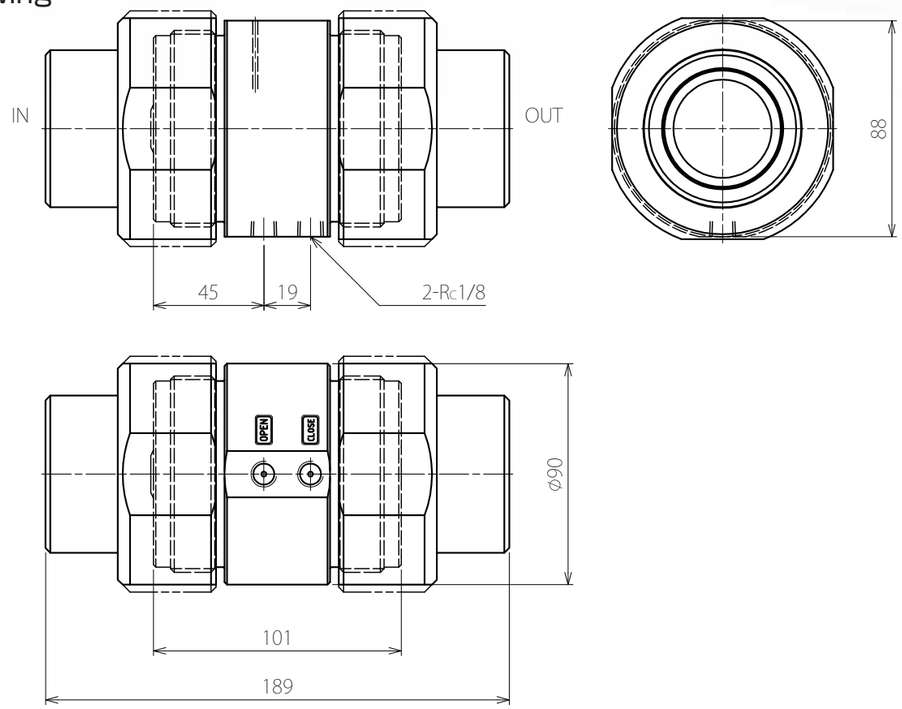
※Specifications are subject to change without notice.

■Model Selection Table

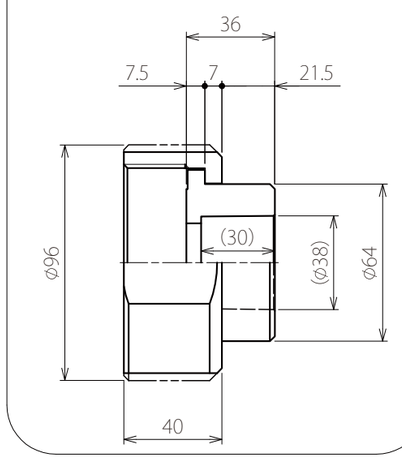
QDR-***

- Connection Size
  - 30: 30A Union
  - 40: 40A Union
- Material of O-Ring
  - F: FKM
  - E: EPDM
- Accessory
  - Blank: No Accessories
    Media Temperature 10~80℃(Only Body)
  - TS: PVC Union,PP Nut
    Media Temperature 10~40℃
  - TSH: PVC Union,PP Nut
    Media Temperature 10~80℃

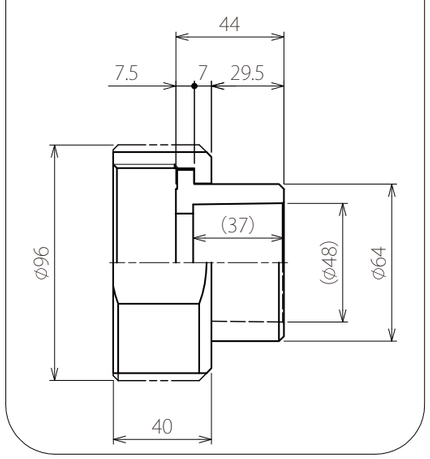
Dimensional Drawing



[Union Pipe Dimensions]
30A



[Union Pipe Dimensions]
40A



(unit : mm)

S-E1606A

QDR30*-*(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=600(sec)

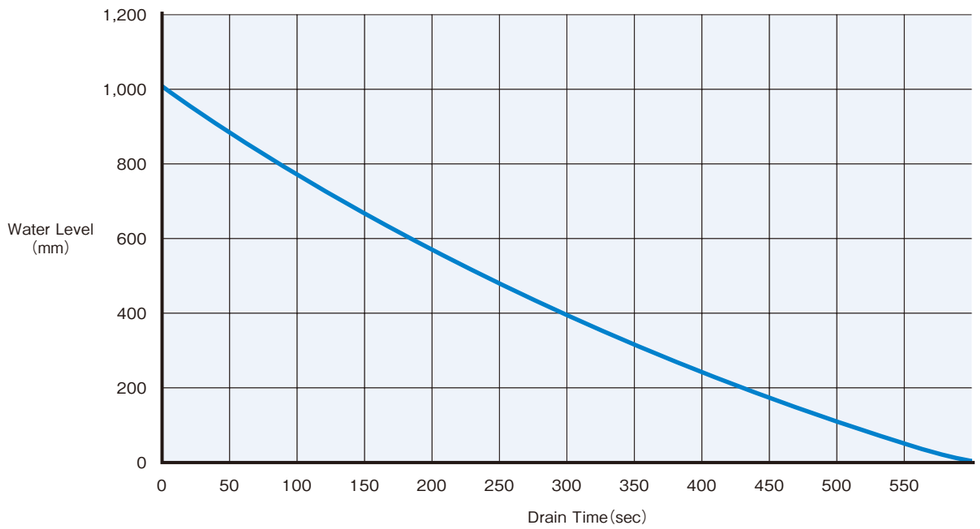
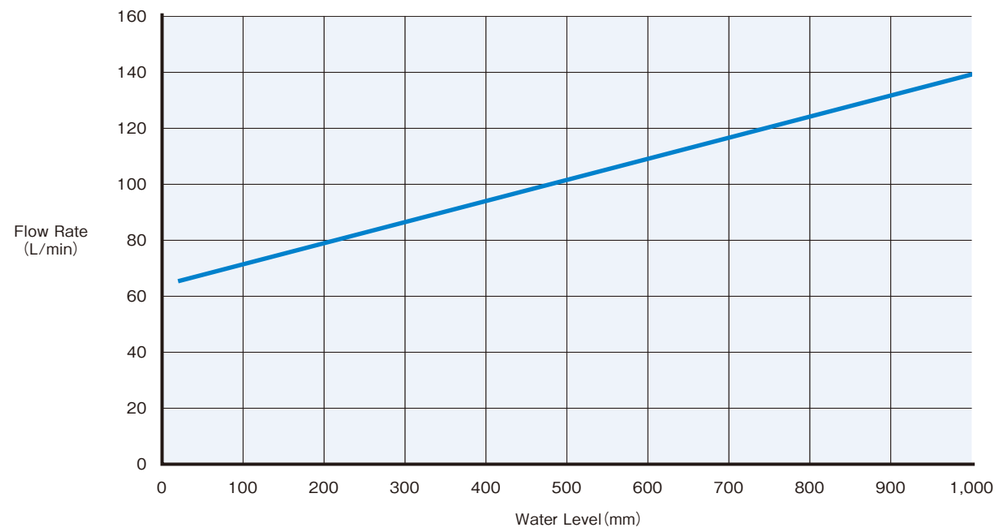
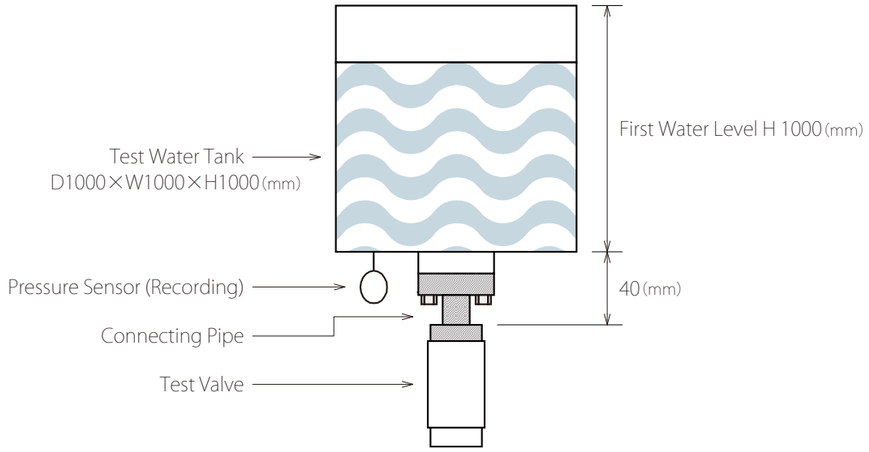
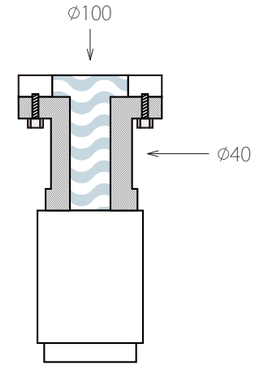


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

QDR40*-*(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=647(sec)

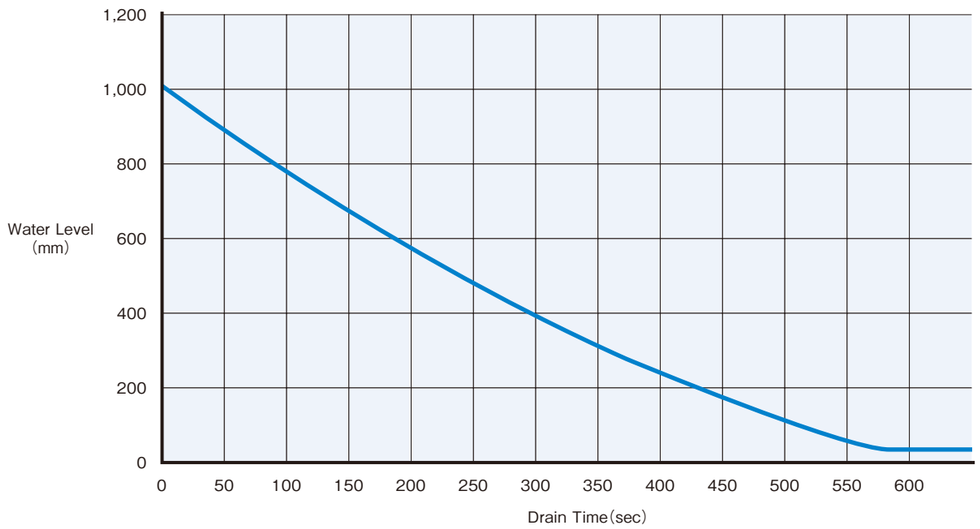
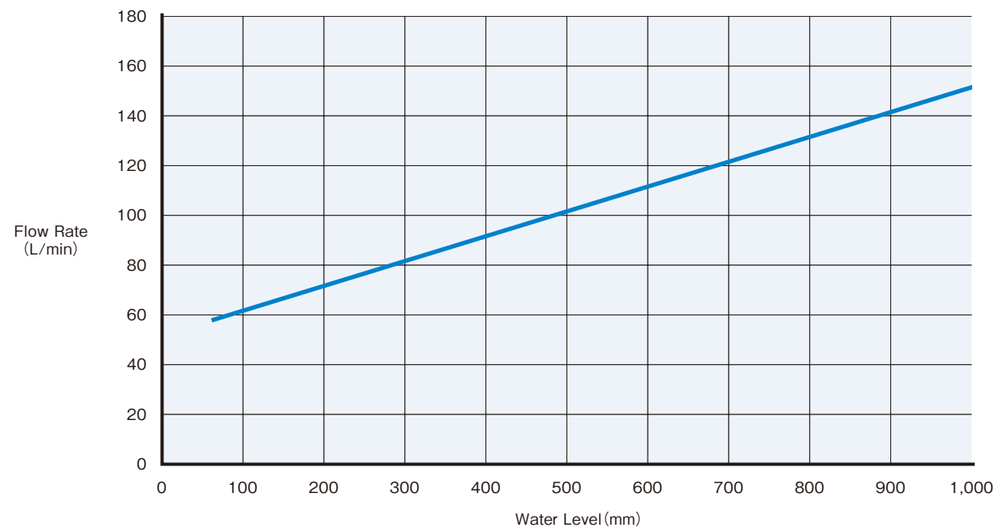
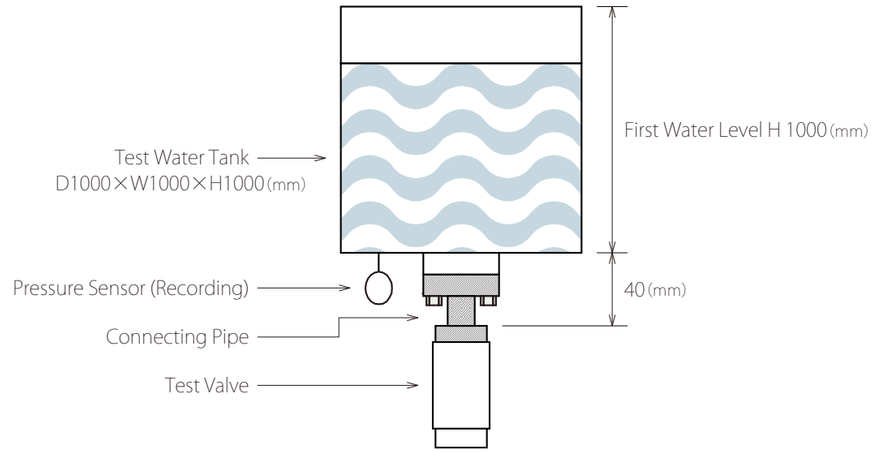
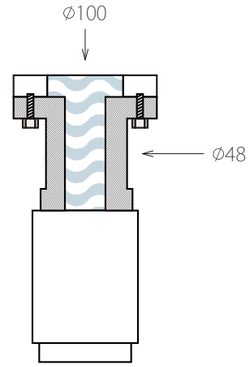


Fig.2 Drain Rate vs. Water Level



Test Method

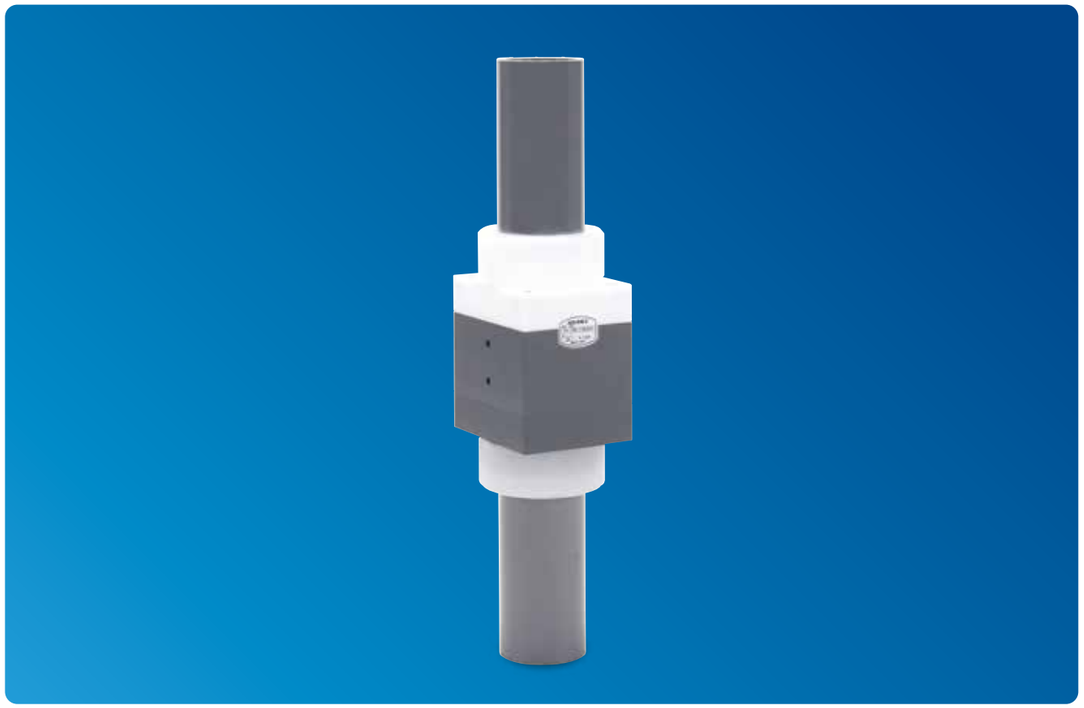




Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

AV-250-*14I***



■Specifications

Model Code	See Model Selection Table	
Orifice Size	ϕ50 Equivalency[mm]	
Connection Size	50A Union	
Applicable Media	DI Water, Corrosive Fluid	
Media Pressure	IN: 0~0.01MPa	
	OUT: 0~0.01MPa	
Media Temperature	See Model Selection Table	
Ambient Temperature	10~40℃	
Operational Mode	Dual	
Pneumatic Pressure	0.3~0.6MPa	
Wetted Material	Bellows:PTFE	(Valve Open)
	Valve Body(IN): See Model Selection Table	Valve Body(OUT): CPVC
		Case: CPVC
		Cap: CPVC
		Ring: CPVC
		O-Ring: See Model Selection Table
Accessory	Union: See Model Selection Table	
	Nut: PP	
	O-Ring: See Model Selection Table(G60)	

※Specifications are subject to change without notice.

■Model Selection Table

AV-250-*14I***

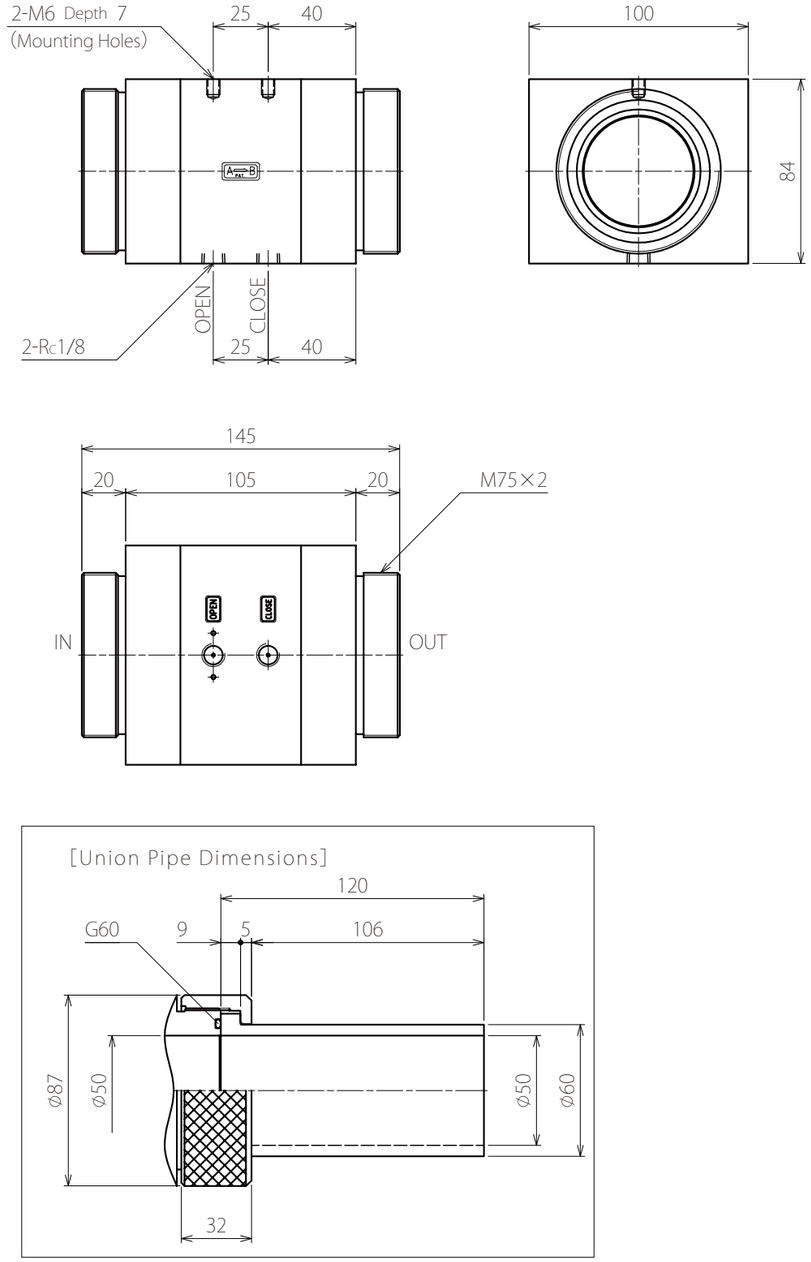
Valve Body(IN)
1: PTFE
4: CPVC

Material of O-Ring
F: FKM
E: EPDM

Union Material(IN)
U2: PP Media Temperature10~80℃
U3: PVdF Media Temperature10~80℃
U4: PVC Media Temperature10~40℃
U5: CPVC Media Temperature10~80℃

Union Material(OUT)
U2: PP Media Temperature10~80℃
U3: PVdF Media Temperature10~80℃
U4: PVC Media Temperature10~40℃
U5: CPVC Media Temperature10~80℃

Dimensional Drawing



(unit : mm)

S-E1606A

AV-250-*14I***(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=380(sec)

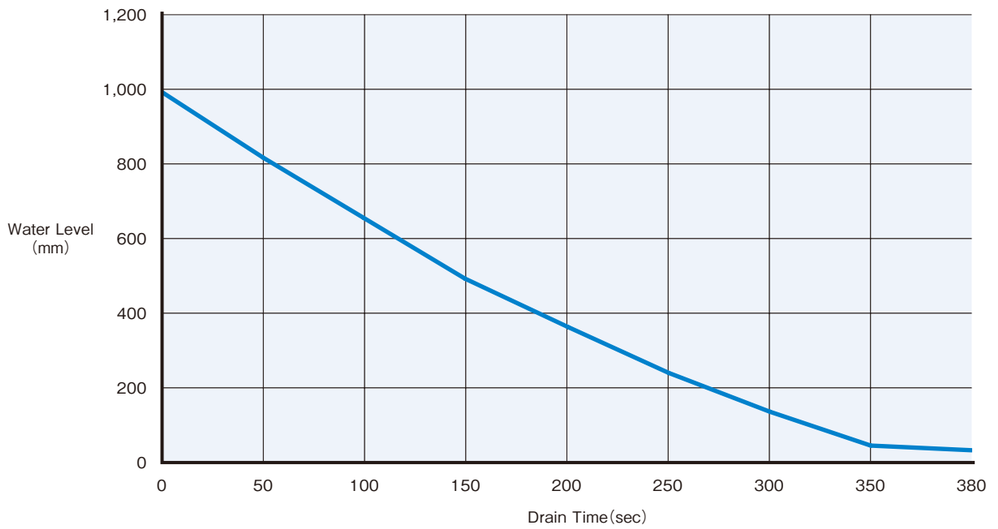
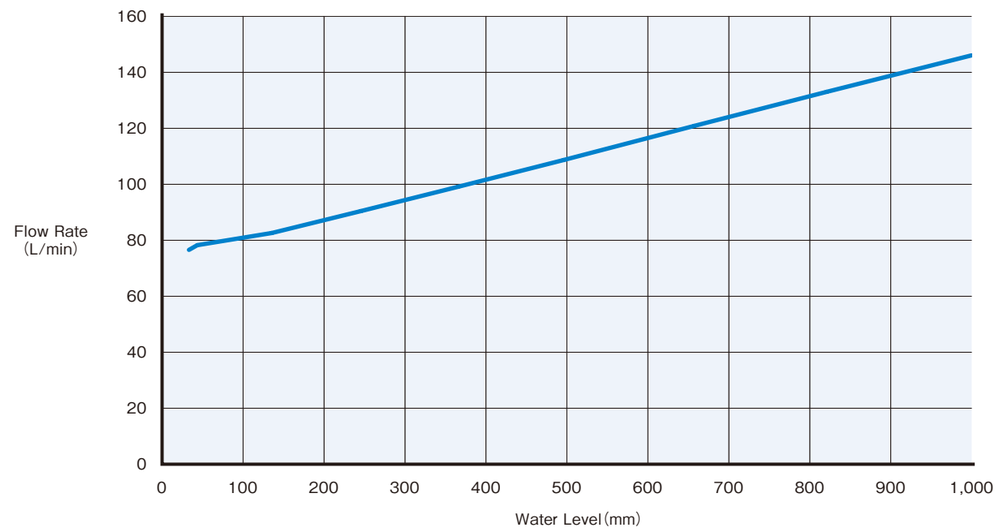
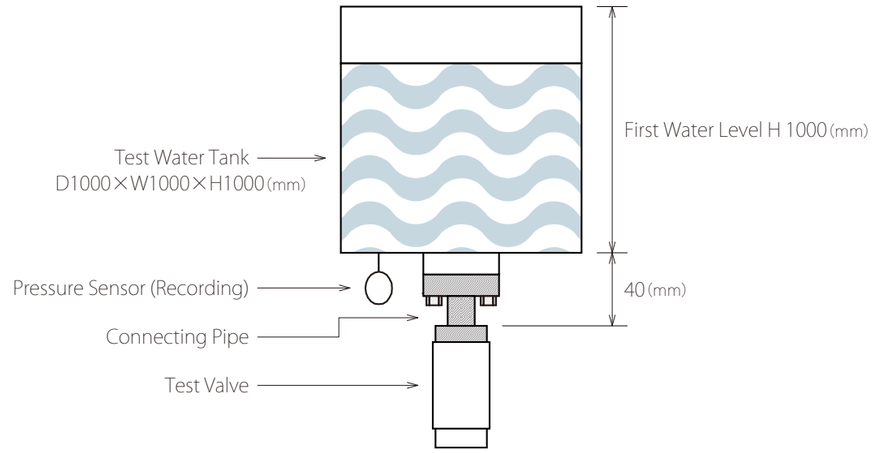
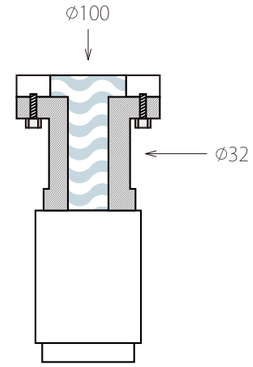


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR065*-V283

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ65 Equivalency[mm]
Connection Size	65A(JIS 65 10K)
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.05MPa
Media Temperature	10~60℃
Ambient Temperature	10~40℃
Operational Mode	Dual
Pneumatic Pressure	0.4~0.5MPa
Wetted Material	Bellows: PTFE
	Valve Body: PP
	(Valve Open)
	Case: PP
	Cap: PP
	O-Ring: See Model Selection Table

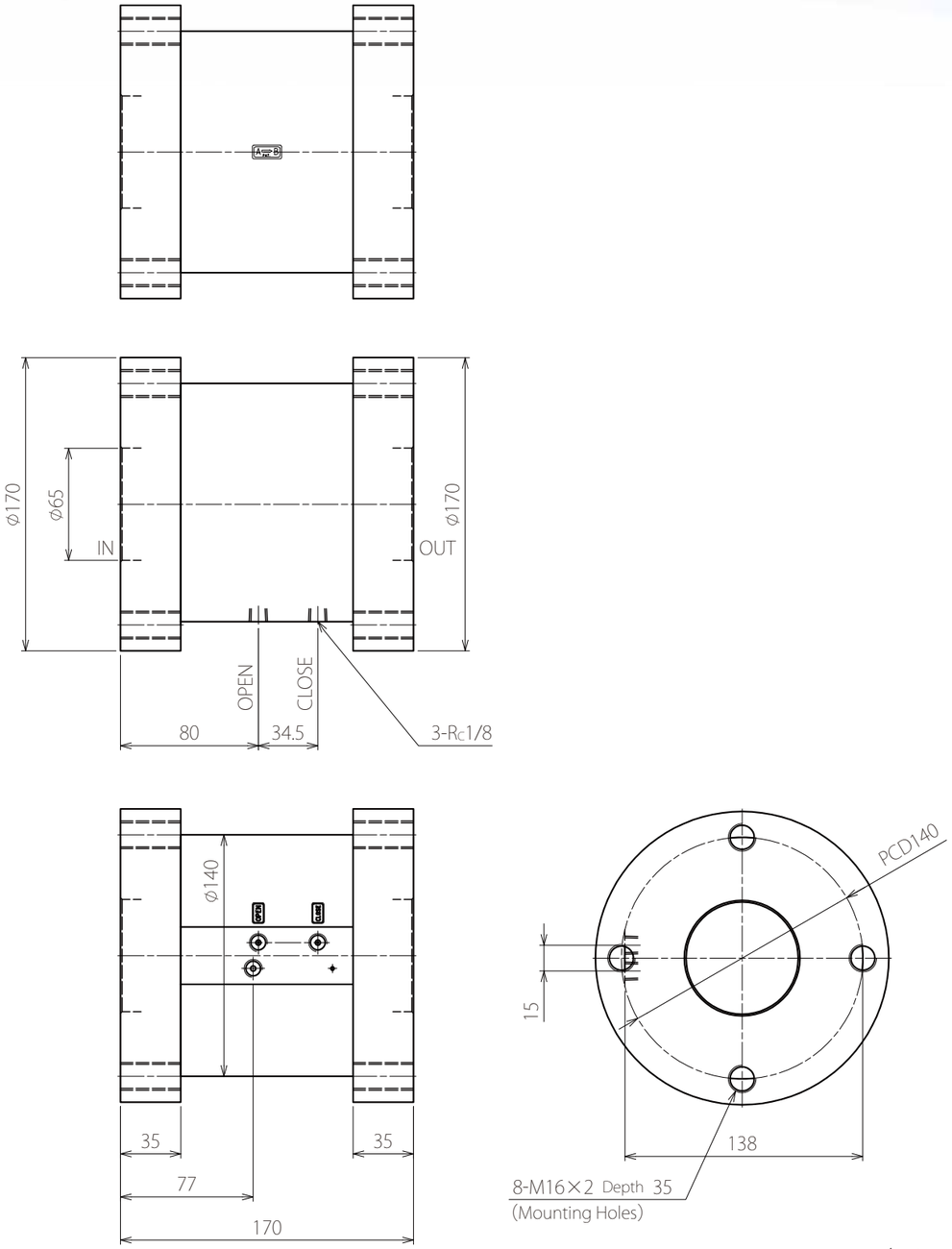
※Specifications are subject to change without notice.

■Model Selection Table

QDR065*-V283

Material of O-Ring
F: FKM
E: EPDM

Dimensional Drawing



(unit : mm)

S-E1606A

QDR065*-V283(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=257(sec)

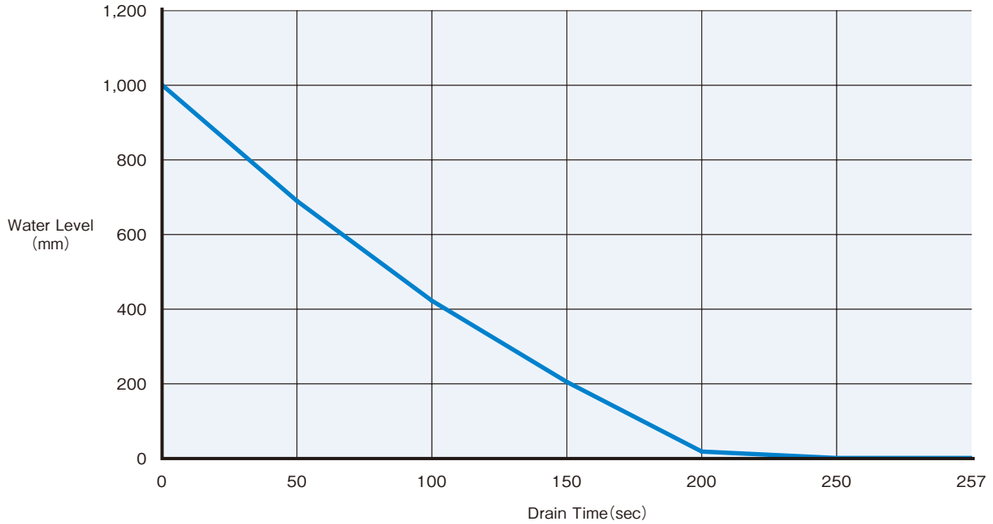
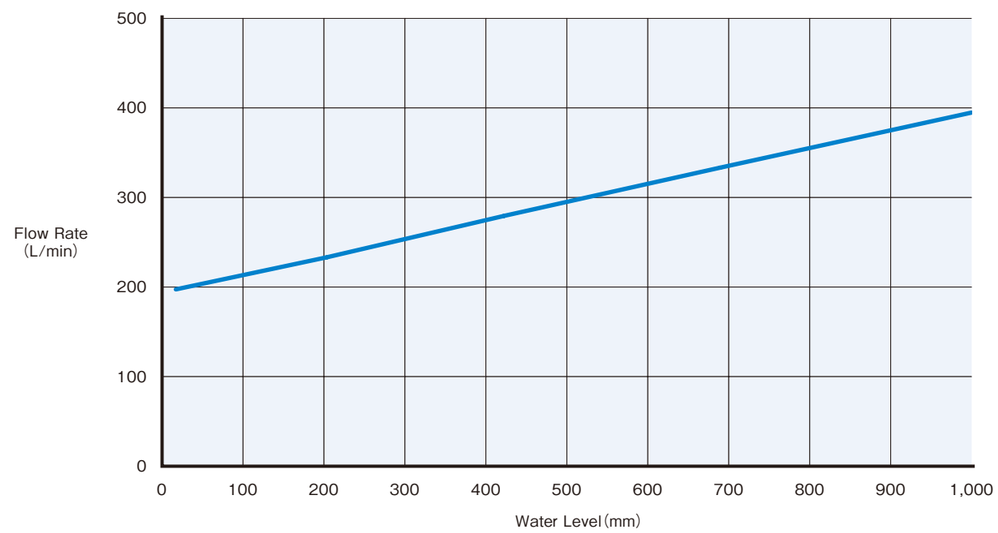
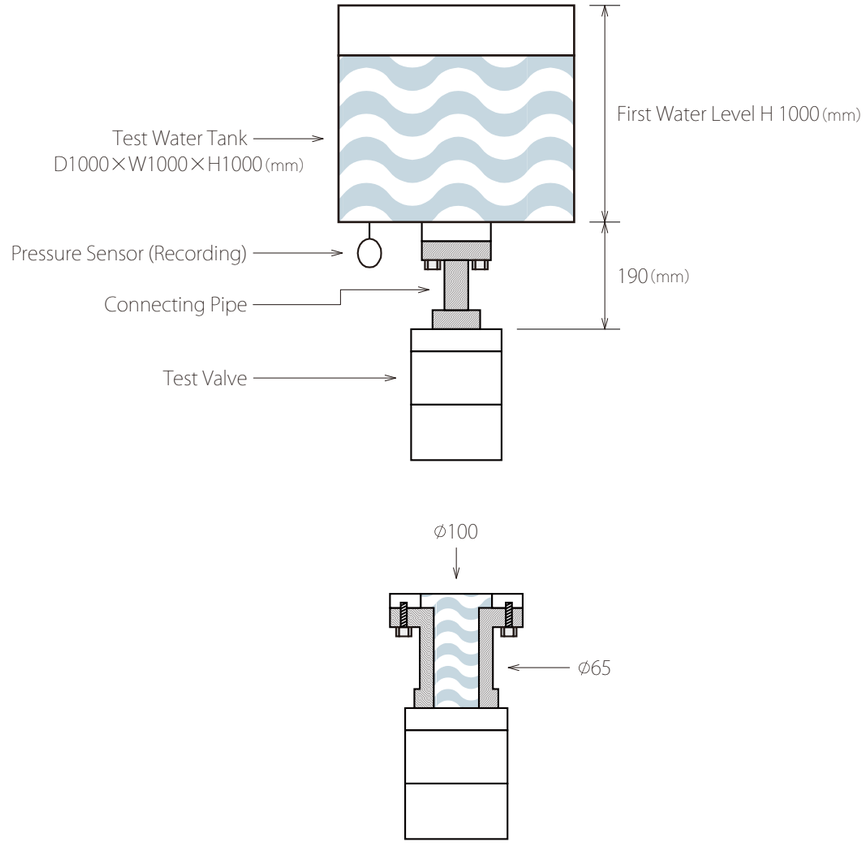


Fig.2 Drain Rate vs. Water Level



Test Method



Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR080*-V283

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ80 Equivalency[mm]
Connection Size	80A(JIS 80 10K)
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.05MPa
Media Temperature	10~60℃
Ambient Temperature	10~40℃
Operational Mode	Dual
Pneumatic Pressure	0.4~0.5MPa
Wetted Material	Bellows: PTFE
	Valve Body: PP
	(Valve Open)
	Case: PP
	Cap: PP
	O-Ring: See Model Selection Table

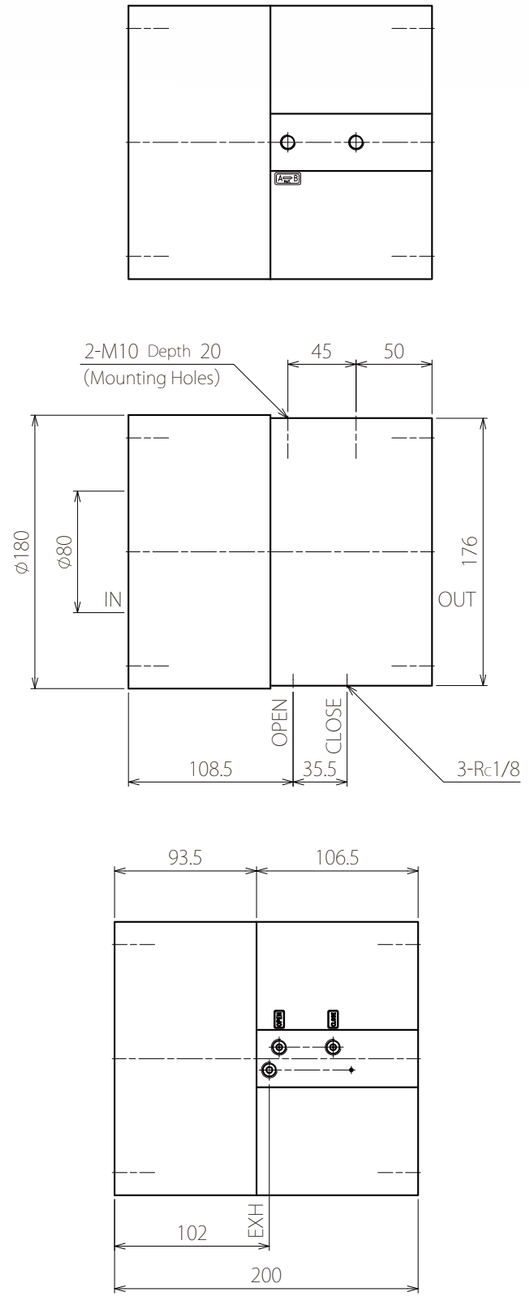
※Specifications are subject to change without notice.

■Model Selection Table

QDR080*-V283

Material of O-Ring
F: FKM
E: EPDM

Dimensional Drawing



(unit : mm)

S-E1606A

QDR080*-V283(Drain Rate)

Fig.1 Water Level vs. Drain Time

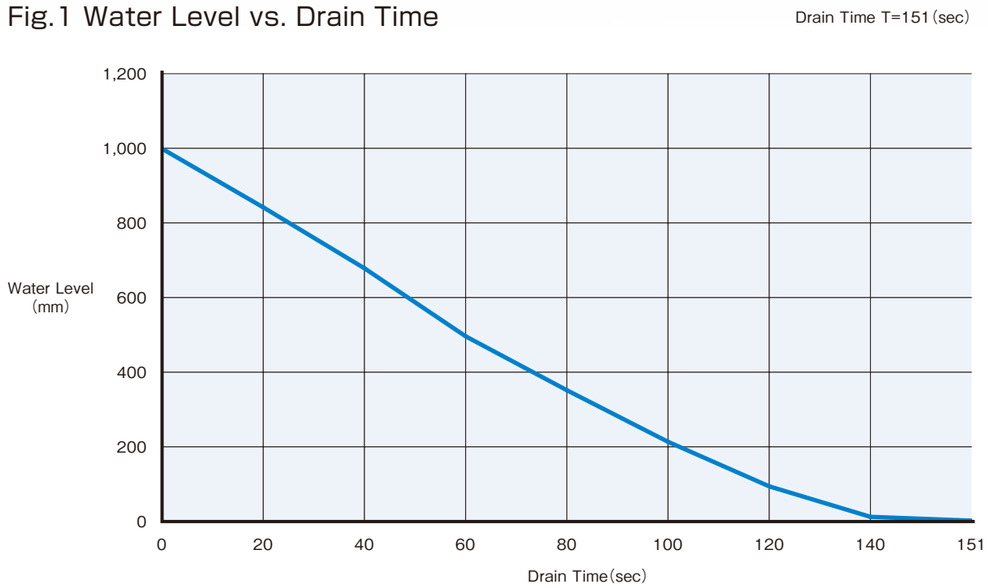
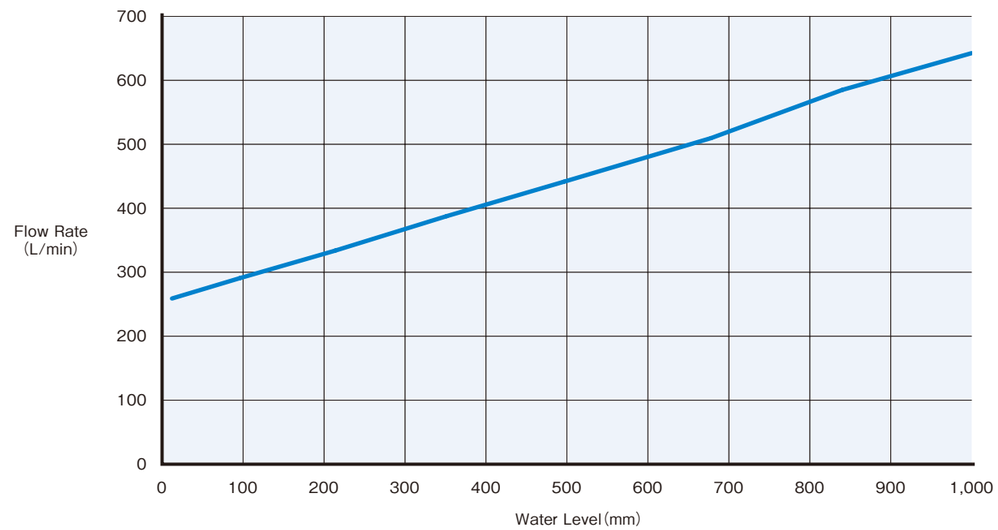
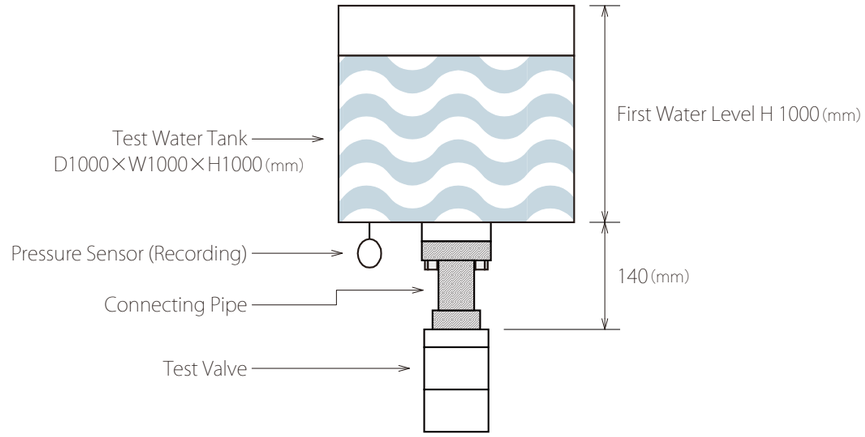
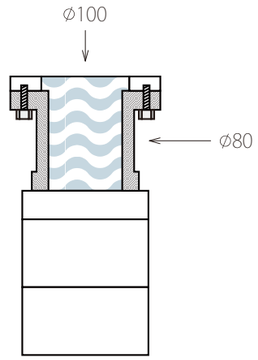


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR100*-V283-S

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ100 Equivalency[mm]
Connection Size	100A(JIS 100 10K)
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0～0.05MPa
	OUT: 0～0.05MPa
Media Temperature	10～60℃
Ambient Temperature	10～40℃
Operational Mode	Dual
Pneumatic Pressure	0.4～0.5MPa
Wetted Material	Seat: PP
	Valve Body: PP
	O-Ring: See Model Selection Table
	(Valve Open)
	Bellows: PTFE
	Case: PP
	Cap: PP

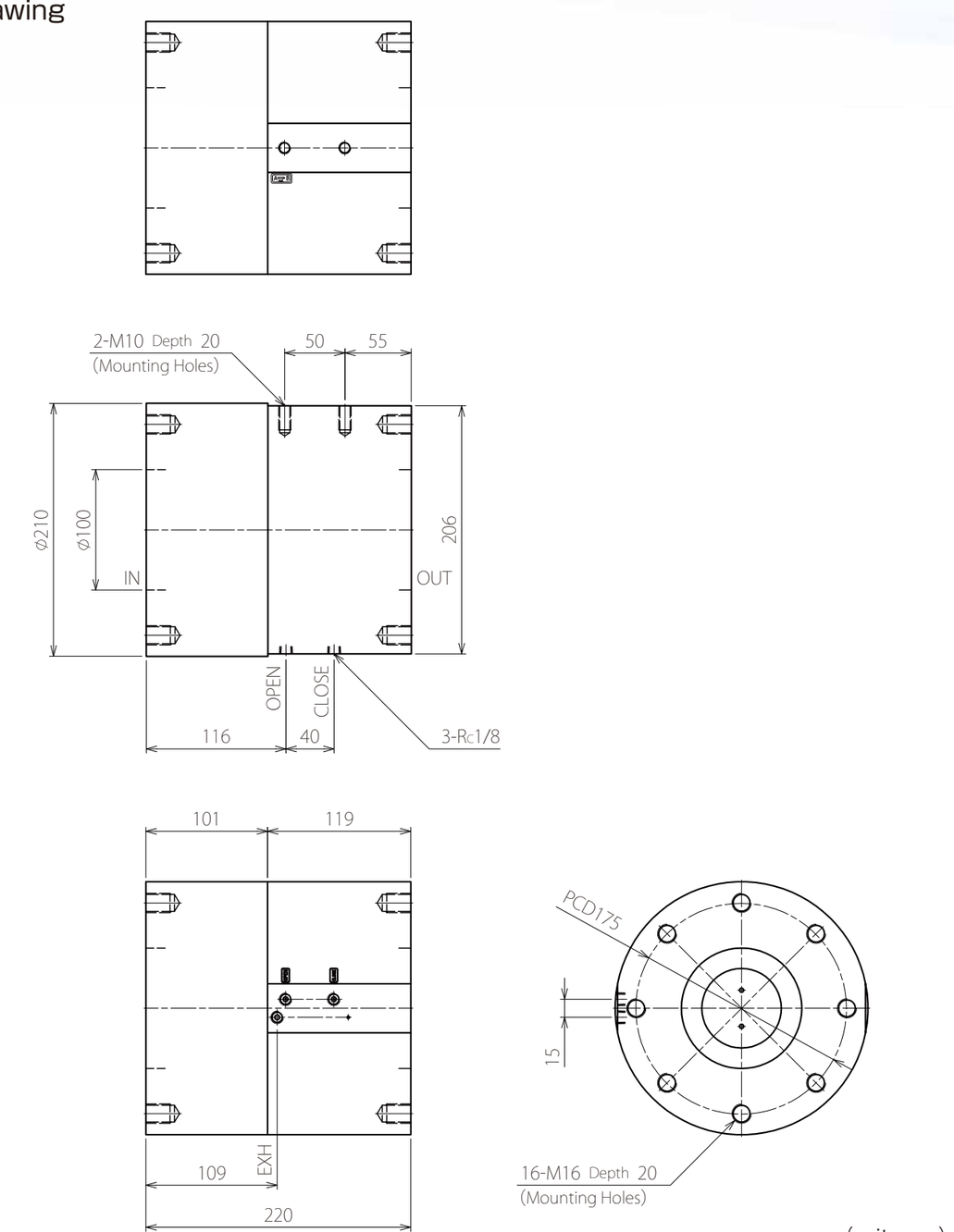
※Specifications are subject to change without notice.

■Model Selection Table

QDR100*-V283-S

Material of O-Ring
F: FKM
E: EPDM

Dimensional Drawing



(unit : mm)

S-E1606A

QDR100*-V283-S(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=117(sec)

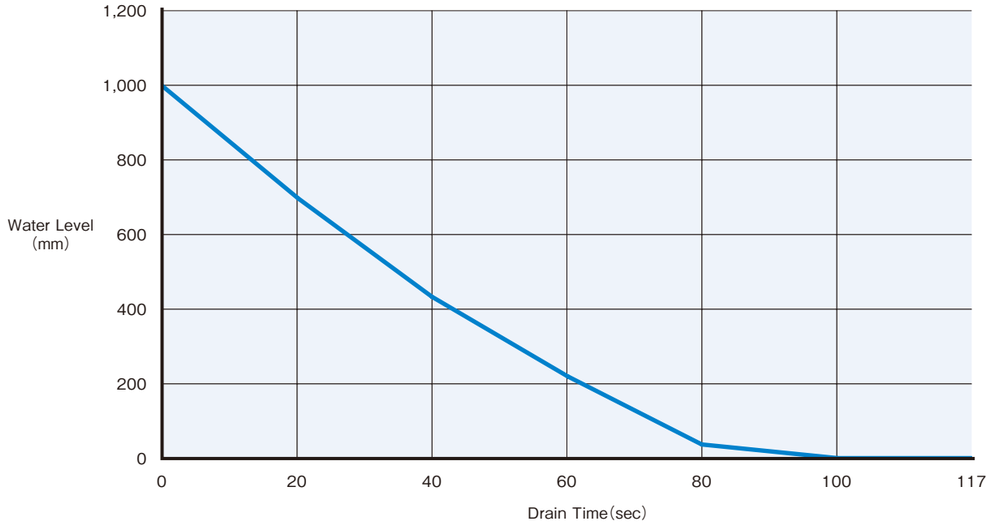
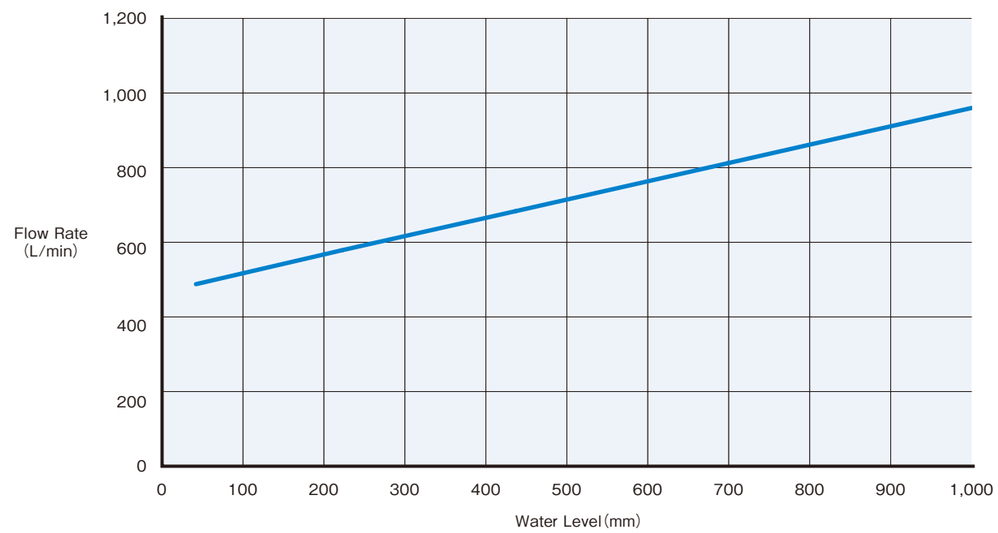
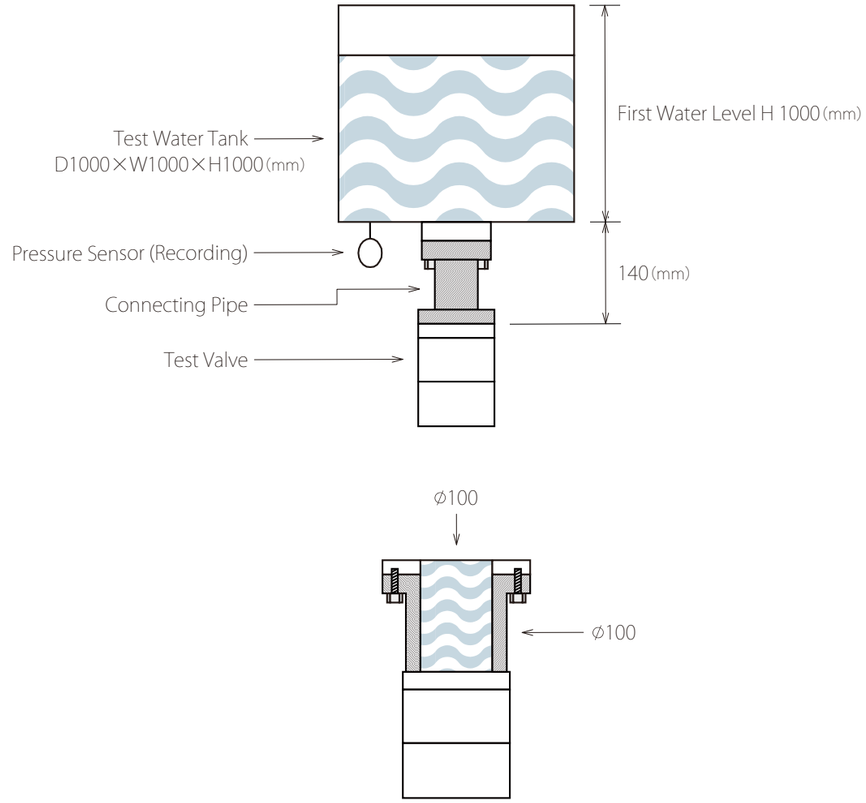


Fig.2 Drain Rate vs. Water Level



Test Method



Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR125*-V283

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ125 Equivalency[mm]
Connection Size	125A(JIS 125 10K)
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.05MPa
Media Temperature	10~60℃
Ambient Temperature	10~40℃
Operational Mode	Dual
Pneumatic Pressure	0.4~0.5MPa
Wetted Material	Bellows: PTFE
	Valve Body: PP
	(Valve Open)
	Case: PP
	Cap: PP
	O-Ring: See Model Selection Table

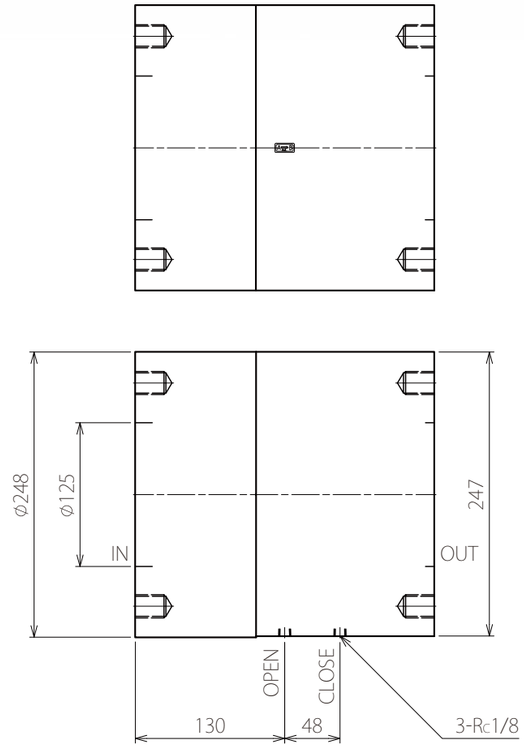
※Specifications are subject to change without notice.

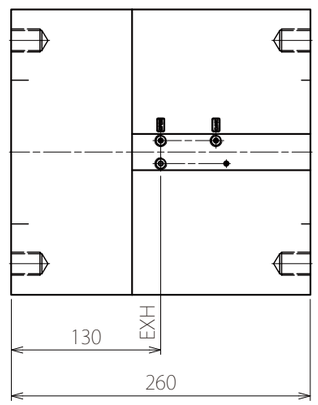
■Model Selection Table

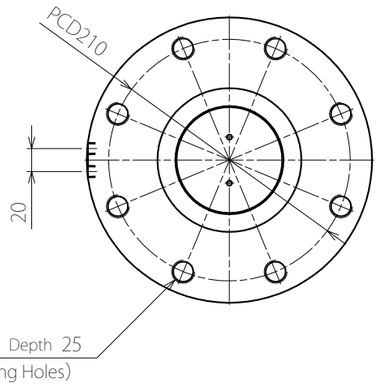
QDR125*-V283

Material of O-Ring
F: FKM
E: EPDM

Dimensional Drawing







(unit : mm)

S-E1606A

QDR125∗-V283(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=60(sec)

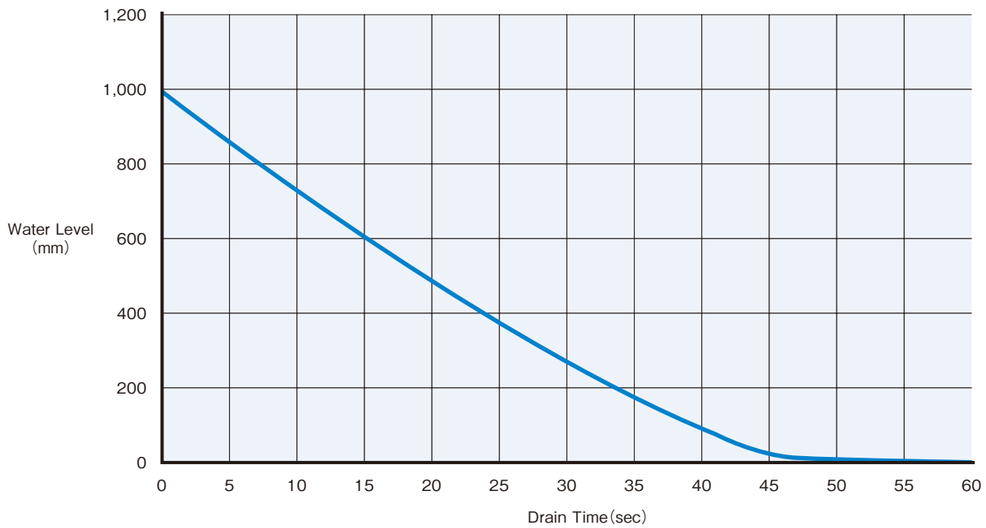
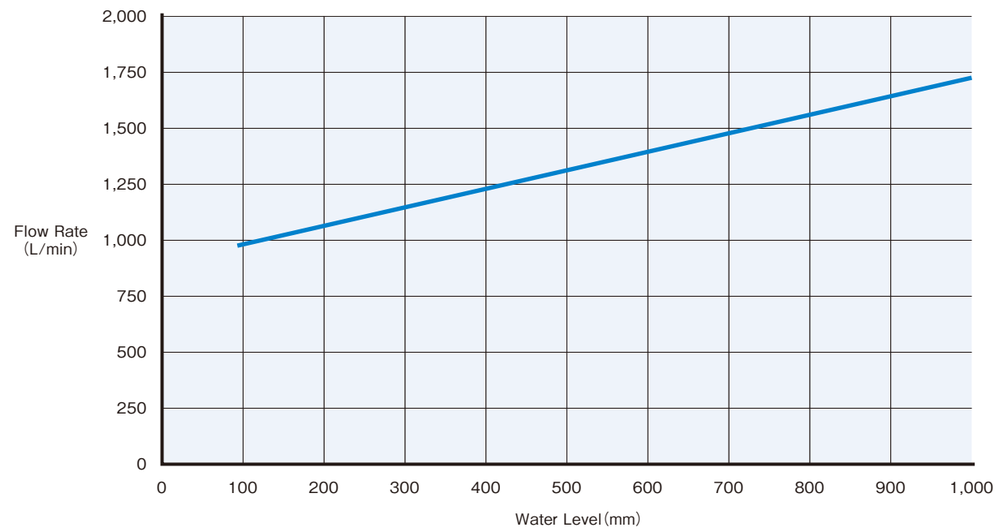
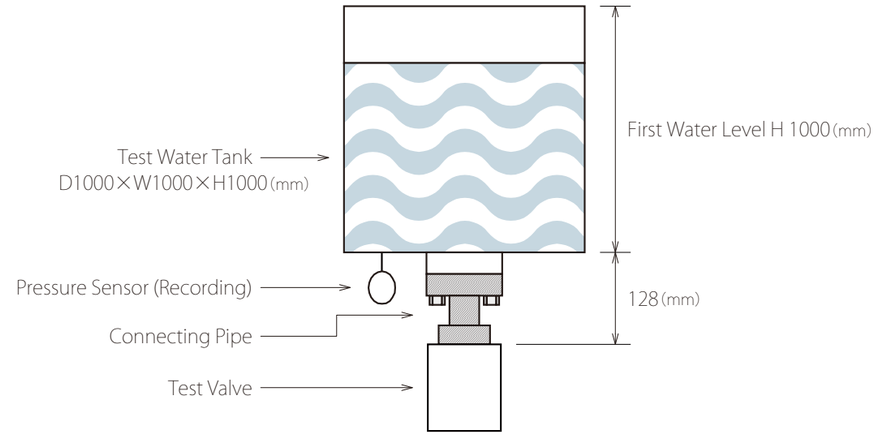
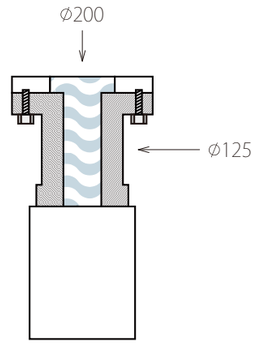


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

QDR150*-V283-S

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ150 Equivalency[mm]
Connection Size	150A(JIS 150 10K)
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0～0.05MPa
	OUT: 0～0.05MPa
Media Temperature	10～60℃
Ambient Temperature	10～40℃
Operational Mode	Dual
Pneumatic Pressure	0.4～0.5MPa
Wetted Material	Seat: PP
	Valve Body: PP
	O-Ring: See Model Selection Table
	(Valve Open)
	Bellows: PTFE
	Case: PP
	Cap: PP

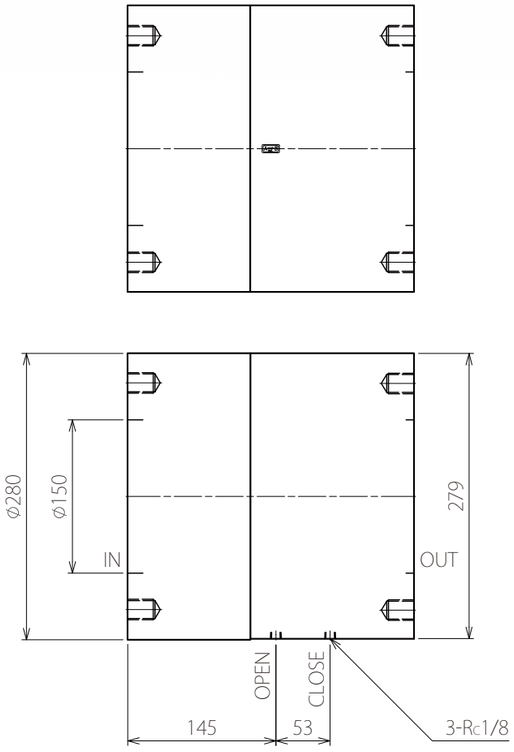
※Specifications are subject to change without notice.

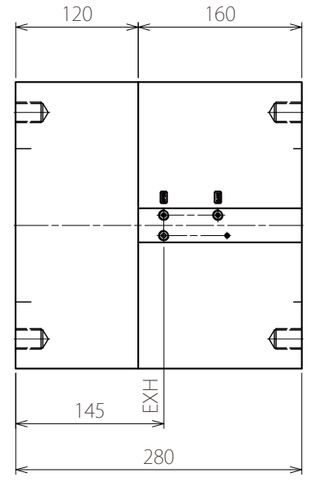
■Model Selection Table

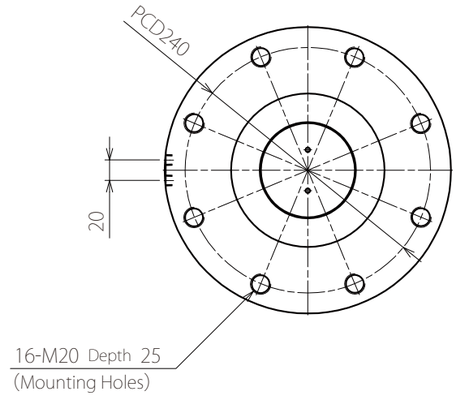
QDR150*-V283-S

Material of O-Ring
F: FKM
E: EPDM

Dimensional Drawing







(unit : mm)

QDR150*-V283-S(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=40(sec)

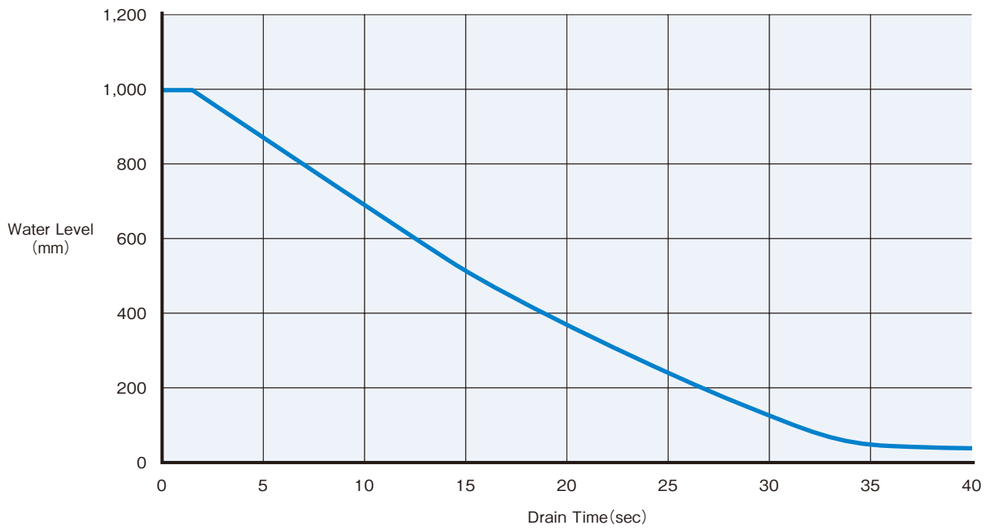
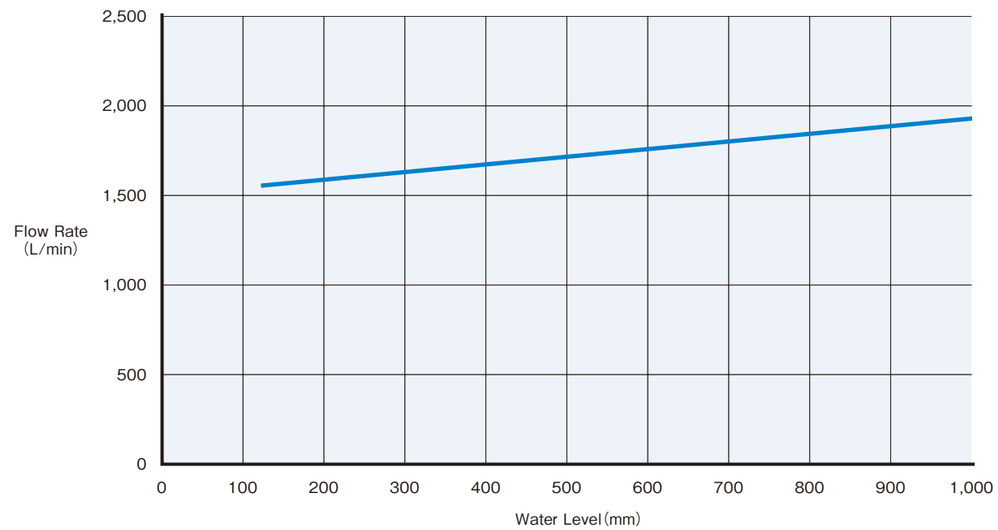
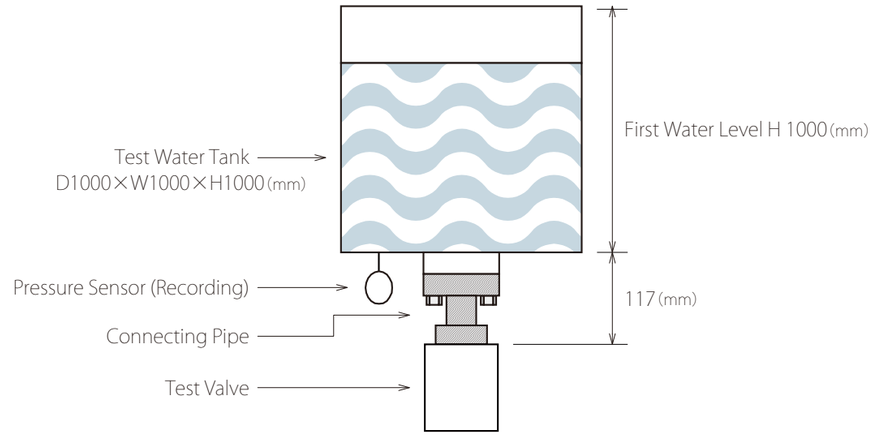
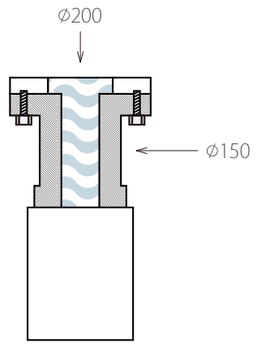


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

AV-8390-*14*D*

■Specifications

Model Code	See Model Selection Table
Orifice Size	ϕ40 Equivalency [mm]
Connection Size	40A Union
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.1MPa
	OUT: 0~0.05MPa
Media Temperature	See Model Selection Table
Ambient Temperature	10~40℃
Operational Mode	Spring Return (Single-acting Type)
Pneumatic Pressure	0.3~0.6MPa
Wetted Material	Bellows: PTFE
	Valve Body: See Model Selection Table
	O-Ring: FKM
Accessory	Union: See Model Selection Table
	Nut: PP
	O-Ring: See Model Selection Table (G45)

※Media Temperature: 10 to 80 [degrees C] if the valve body material is PP.
※Specifications are subject to change without notice.

■Model Selection Table

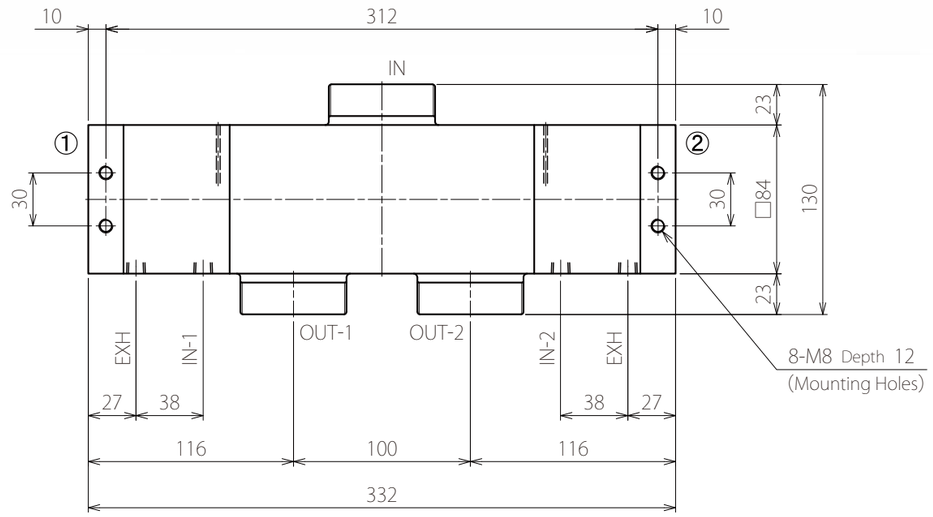
AV-8390-*14*D*

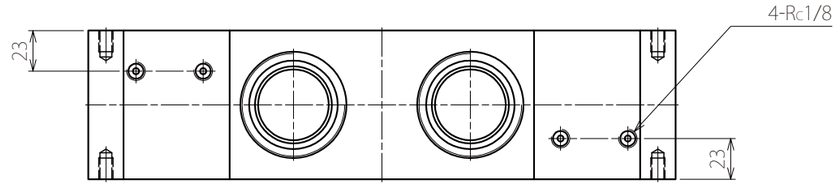
Valve Body Material
1: PTFE
5: PP

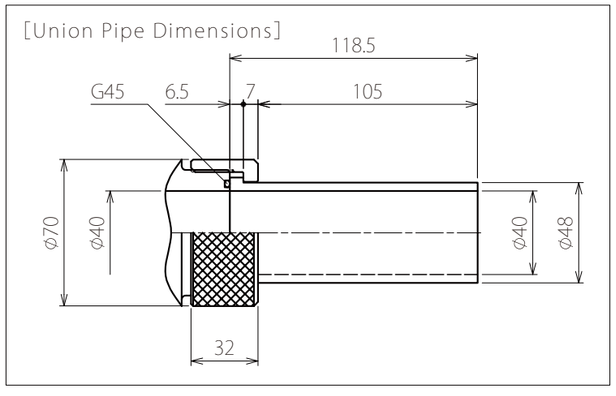
Material of O-Ring
F: FKM
E: EPDM

Union Material
U2: PP Media Temperature 10~80℃
U3: PVdF Media Temperature 10~90℃
U4: PVC Media Temperature 10~40℃
U5: CPVC Media Temperature 10~80℃

Dimensional Drawing







(unit : mm)

S-E1606A

AV-8390-*14*D(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=607(sec)

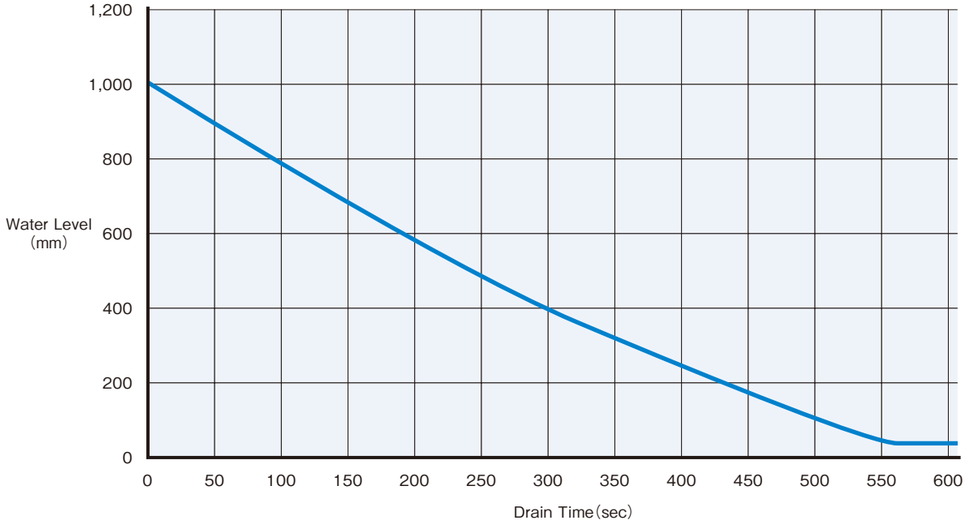
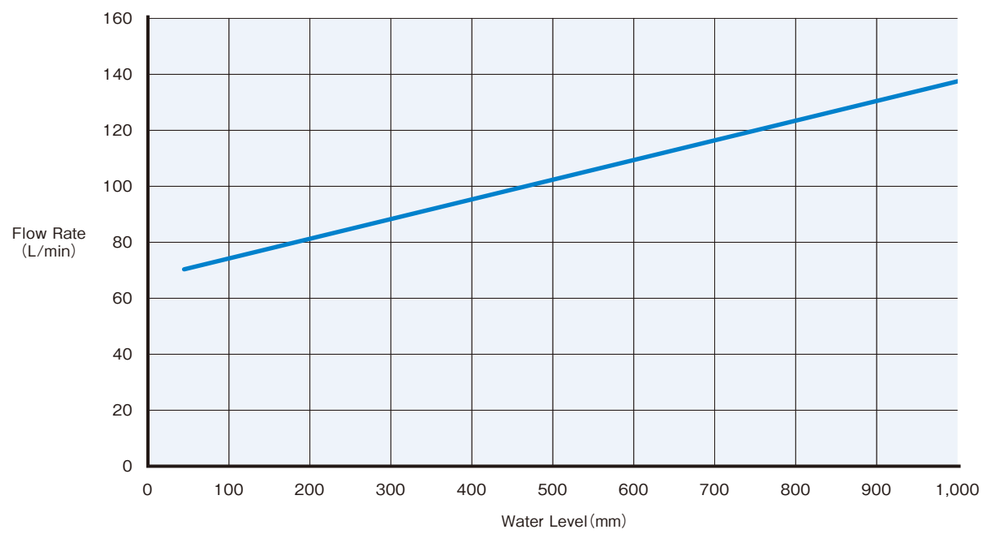
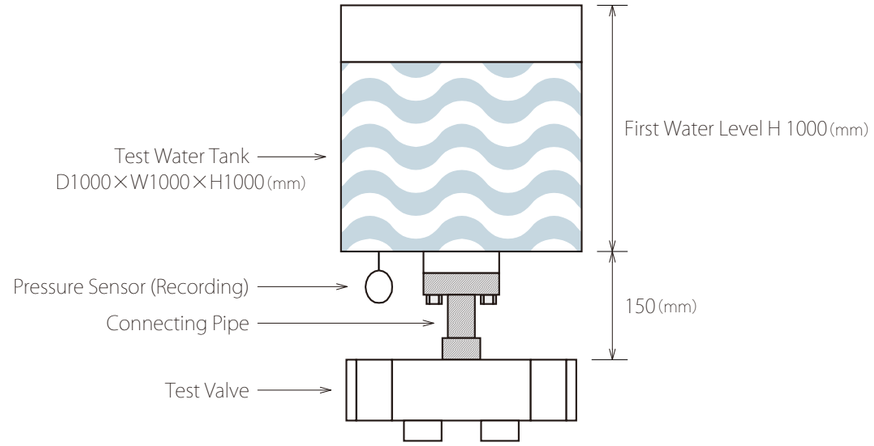
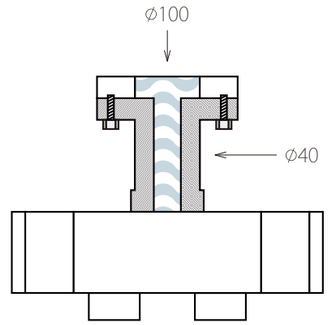


Fig.2 Drain Rate vs. Water Level



Test Method





Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.

Drain Valve

AV-350-214*D

■Specifications

Model Code	See Model Selection Table
Orifice Size	φ50 Equivalency[mm]
Connection Size	50A Union
Applicable Media	DI Water, Corrosive Fluid
Media Pressure	IN: 0~0.05MPa
	OUT: 0~0.02MPa
Media Temperature	See Model Selection Table
Ambient Temperature	10~40℃
Operational Mode	Spring Return(Single-acting Type)
Pneumatic Pressure	0.3~0.6MPa
Wetted Material	Bellows: PTFE
	Valve Body: HDPE
	Staffing: PTFE
	O-Ring: FKM
Accessory	Union: See Model Selection Table
	Nut: PP
	O-Ring: FKM(G60)

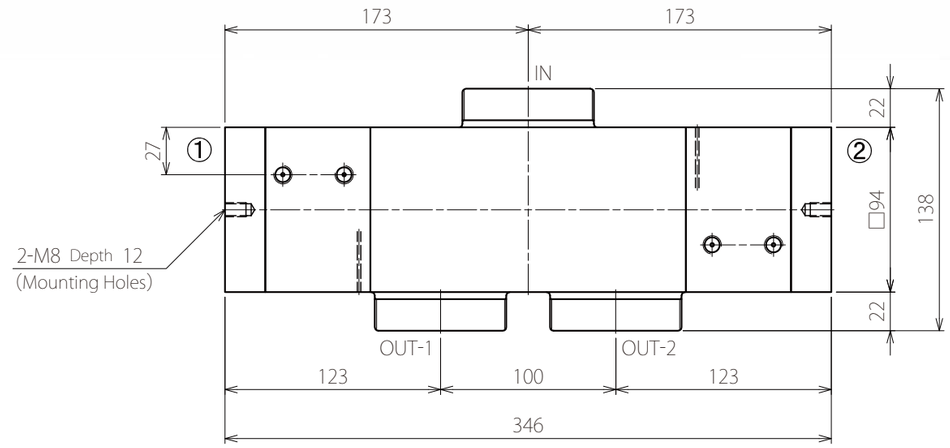
※Specifications are subject to change without notice.

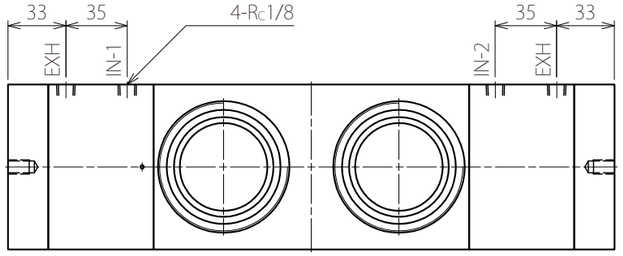
■Model Selection Table

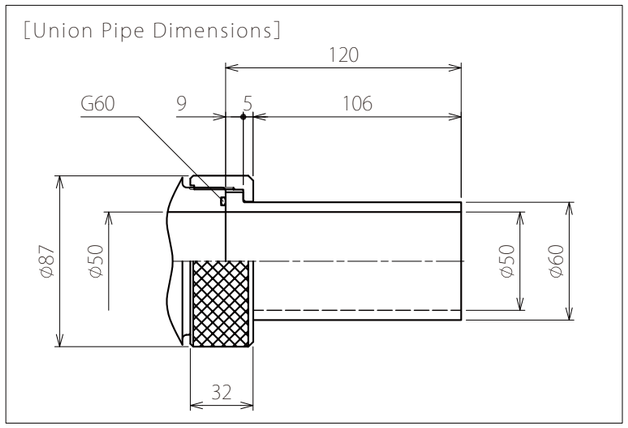
AV-350-214*D

Union Material
U2: PP Media Temperature10~80℃
U3: PVdF Media Temperature10~90℃
U4: PVC Media Temperature10~40℃
U5: CPVC Media Temperature10~80℃

Dimensional Drawing







(unit : mm)

S-E1606A

AV-350-214*D(Drain Rate)

Fig.1 Water Level vs. Drain Time

Drain Time T=419(sec)

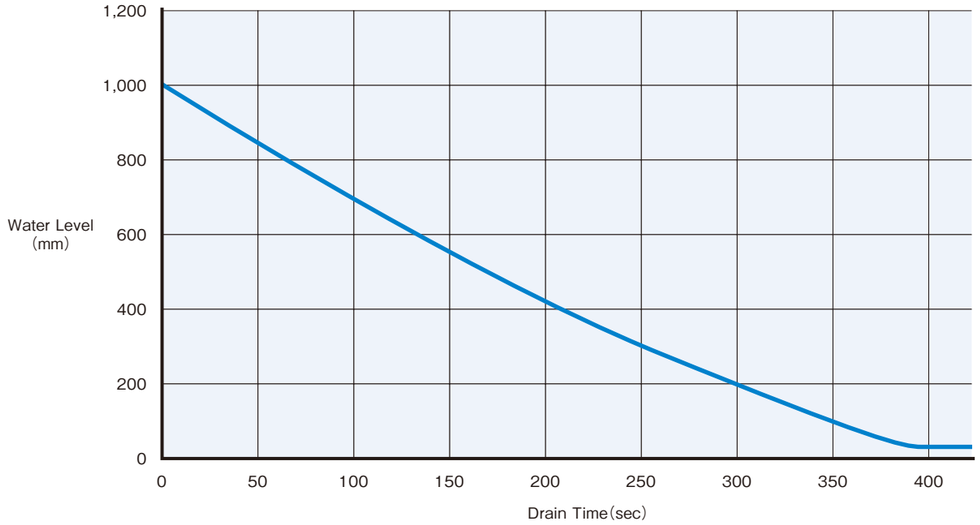
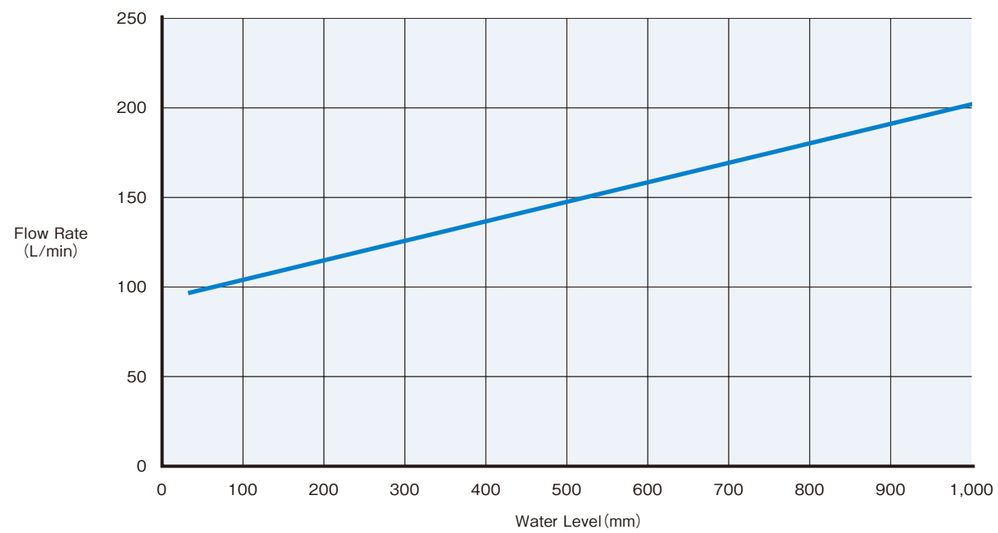
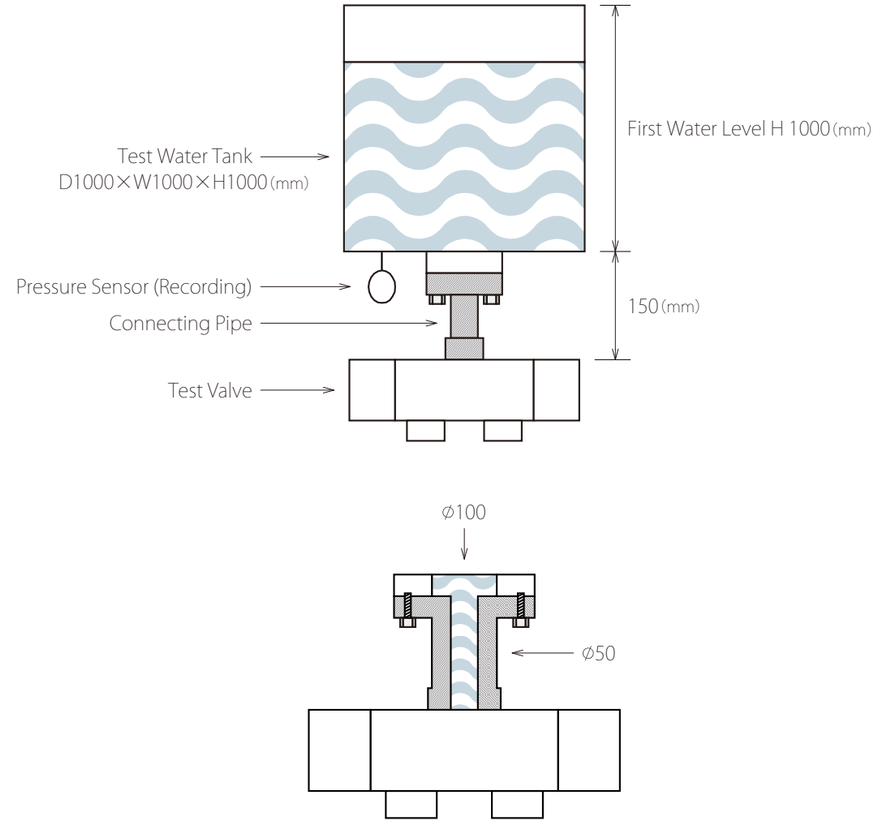


Fig.2 Drain Rate vs. Water Level



Test Method



Measure the first water level with a scale in the tank.
Begin to count Drain time after opening the valve.
Applicable media is water. Media temperature is not controlled.
The pressure sensor has an accuracy of F.S. 1% when the upper limit of the measurement range is 10 kPa or less.