Product specifications

Digital/Analog communication model		UR-Z712MO (-B) *3	UR-Z712MC (-B) *3
DeviceNet™ communication model *1		UR-Z714MO (-B) *3	UR-Z714MC (-B) *3
EtherCAT® communication model *2		UR-Z717MO (-B) *3	UR-Z717MC (-B) *3
Valve type		Normally Open:O	Normally Close:C
Applicable fluid		Gas	
Pressure control range		Gauge pressure type :20-950 kPa (G) *4 10-500 kPa (G) Absolute pressure type:10-300 kPa (A)	Gauge pressure type :20-950 kPa (G) *4 10-500 kPa (G) *5 Absolute pressure type:10-300 kPa (A)
Pressure regulator flow rate <CV value> In use of N_2 gas		Pressure condition:Primary pressure 50 kPa (G) Secondary pressure atmospheric pressure[101.3 kPa (A)] 1 LM<0.0032>/5 LM<0.016> under the above pressure conditions	
Accuracy		±0.5 %F.S.	
Maximum primary pressure		Gauge pressure type :1 MPa (G) Absolute pressure type:400 kPa (A)	Gauge pressure type :1 MPa (G) ≤ 550 kPa (G) *5 Absolute pressure type:400 kPa (A)
Minimum differential pressure		Gauge pressure type :50 kPa (D) Absolute pressure type:100 kPa (D)	
Pressure resistance		Gauge pressure type :1.5 MPa (G) for 950 kPa (G) type 1 MPa (G) for 500 kPa (G) type Absolute pressure type:450 kPa (A)	
Leak integrity		≤ 5×10^{-12} Pa・m^3/s (He)	
Operating temperature		5-50 ˚C (Recommended temperature range 15-45 ˚C)	
Wetted material		SUS316L	
Standard fittings		1/4 inch VCR equivalent	
Communication Power supply	Digital/Analog communication model	Pressure setting signal:0.1-5 VDC (2-100 %F.S.) Pressure output signal:0-5 VDC (0-100 %F.S.) Digital interface:RS-485 F-Net Protocol Power supply:+15 VDC ±5 % 150 mA -15 VDC ±5 % 150 mA	
	DeviceNet™ communication model *1	DeviceNet™ Protocol Power supply:Applicable for ODVA standard DC24 V 4.0 VA	
	EtherCAT® communication model *2	EtherCAT® Protocol Power supply:24 VDC ±4 V 6.6 VA	
Mounting orientation		Free	

*1 DeviceNet™ is trademark of Open DeviceNet Vendors Association. *2 EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH in Germany.
*3 -B is primary pressure regulator *4 When the maximum pressure range is 950 kPa (G), 100 % setting signal corresponds to the pressure 1000 kPa (G).
*5 For primary pressure regulator
• In the notation of pressure units, (G) shows gauge pressure, (A) shows absolute pressure, and (D) shows differential pressure.
• LM is the symbol for gas flow rate (L/min, at 25 ˚C 101.3 kPa). • F.S. is a percentage of the full scale

Digital/Analog communication model		UR-Z722MO (-B) *3	UR-Z722MC (-B) *3
DeviceNet™ communication model *1		UR-Z724MO (-B) *3	UR-Z724MC (-B) *3
EtherCAT® communication model *2		UR-Z727MO (-B) *3	UR-Z727MC (-B) *3
Valve type		Normally Open:O	Normally Close:C
Applicable fluid		Gas	
Pressure control range		Gauge pressure type :20-950 kPa (G) *4 10-500 kPa (G) Absolute pressure type:10-300 kPa (A)	Gauge pressure type :10-500 kPa (G) Absolute pressure type:10-300 kPa (A)
Pressure regulator flow rate <CV value> In use of N_2 gas		Pressure condition:Primary pressure 50 kPa (G) Secondary pressure atmospheric pressure[101.3 kPa (A)] 10 LM<0.032> under the above pressure conditions	
Accuracy		±0.5 %F.S.	
Maximum primary pressure		Gauge pressure type :1 MPa (G) Absolute pressure type:400 kPa (A)	Gauge pressure type :550 kPa (G) Absolute pressure type:400 kPa (A)
Minimum differential pressure		Gauge pressure type :50 kPa (D) Absolute pressure type:100 kPa (D)	
Pressure resistance		Gauge pressure type :1.5 MPa (G) for 950 kPa (G) type 1 MPa (G) for 500 kPa (G) type Absolute pressure type:450 kPa (A)	Gauge pressure type:1 MPa (G) Gauge pressure type:450 kPa (A)
Leak integrity		≤ 5×10^{-12} Pa・m^3/s (He)	
Operating temperature		5-50 ˚C (Recommended temperature range 15-45 ˚C)	
Wetted material		SUS316L	
Standard fittings		1/4 inch VCR equivalent	
Communication Power supply	Digital/Analog communication model	Pressure setting signal:0.1-5 VDC (2-100 %F.S.) Pressure output signal:0-5 VDC (0-100 %F.S.) Digital interface:RS-485 F-Net Protocol Power supply:+15 VDC ±5 % 150 mA -15 VDC ±5 % 150 mA	
	DeviceNet™ communication model *1	DeviceNet™ Protocol Power supply:Applicable for ODVA standard DC24 V 4.0 VA	
	EtherCAT® communication model *2	EtherCAT® Protocol Power supply:24 VDC ±4 V 6.6 VA	
Mounting orientation		Free	

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*3 -B is primary pressure regulator
*4 When the maximum pressure range is 950 kPa (G), 100 % setting signal corresponds to the pressure 1000 kPa (G).
• In the notation of pressure units, (G) shows gauge pressure, (A) shows absolute pressure, and (D) shows differential pressure.
• LM is the symbol for gas flow rate (L/min, at 25 ˚C 101.3 kPa). • F.S. is a percentage of the full scale

Digital/Analog communication model	UR-Z732MO (-B) *3	UR-Z732MC (-B) *3
DeviceNet™ communication model *1	UR-Z734MO (-B) *3	UR-Z734MC (-B) *3
EtherCAT® communication model *2	UR-Z737MO (-B) *3	UR-Z737MC (-B) *3
Valve type	Normally Open:O	Normally Close:C
Applicable fluid	Gas	
Pressure control range	Gauge pressure type :10-500 kPa (G) Absolute pressure type:10-300 kPa (A)	
Pressure regulator flow rate <CV value> In use of N_2 gas	Pressure condition:Primary pressure 100 kPa (G) Secondary pressure atmospheric pressure[101.3 kPa (A)] 50 LM<0.1> under the above pressure conditions	
Accuracy	±0.5 %F.S.	
Maximum primary pressure	Gauge pressure type :550 kPa (G) Absolute pressure type:400 kPa (A)	
Minimum differential pressure	100 kPa (D)	
Pressure resistance	Gauge pressure type :1 MPa (G) Absolute pressure type:450 kPa (A)	
Leak integrity	≤ 5×10^{-12} Pa · m^3/s (He)	
Operating temperature	5-50 ˚C (Recommended temperature range 15-45 ˚C)	
Wetted material	SUS316L	
Standard fittings	3/8 inch VCR equivalent	
Communication Power supply — Digital/Analog communication model	Pressure setting signal:0.1-5 VDC (2-100 %F.S.) Pressure output signal:0-5 VDC (0-100 %F.S.) Digital interface:RS-485 F-Net Protocol Power supply:+15 VDC ±5 % 150 mA -15 VDC ±5 % 150 mA	
Communication Power supply — DeviceNet™ communication model *1	DeviceNet™ Protocol Power supply:Applicable for ODVA standard DC24 V 4.0 VA	
Communication Power supply — EtherCAT® communication model *2	EtherCAT® Protocol Power supply:24 VDC ±4 V 6.6 VA	
Mounting orientation	Free	

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*3 -B is primary pressure regulator
• In the notation of pressure units, (G) shows gauge pressure, (A) shows absolute pressure, and (D) shows differential pressure.
• LM is the symbol for gas flow rate (L/min, at 25 ˚C 101.3 kPa). • F.S. is a percentage of the full scale

Selecting a model

❶	❷	❸	❹	❺	❻	❼		❽		❾		❿		⓫	
UR-Z71	7	M	C	S		-B	,,	5LM	,	4CRL	,	SUC	,	3PA	,

❶ Model

UR-Z71	Pressure regulator flow rate 1 LM/5 LM
UR-Z72	Pressure regulator flow rate 10 LM
UR-Z73	Pressure regulator flow rate 50 LM

❷ Protocol

2	Digital/Analog communication
4	DeviceNet™ communication
7	EtherCAT® communication

❸ Seal

M	Metal

❹ Valve type

O	Normally Open:O
C	Normally Close:C

❺ Connector position

T	Top of case (applicable with UR-Z7*2/Z7*4)
S	Side of case (applicable with UR-Z7*4/Z7*7)

❻ DeviceNet™ output range

Blank	UR-Z7*2/Z7*7
1	Full scale flow rate output 100 %F.S.
3	Full scale flow rate output 133 %F.S.
5	Full scale flow rate output 133.329 %F.S.

❼ Pressure control position

Blank	Secondary side of UR
-B	Primary side of UR

❽ Flow rate

1 LM	UR-Z71*
5 LM	UR-Z71*
10 LM	UR-Z72*
50 LM	UR-Z73*

❾ Standard fittings

4CRB	1/4 inch VCR equivalent Face to face dimension 106 mm (applicable with UR-Z712/Z722/Z714/Z724)
4CRL	1/4 inch VCR equivalent Face to face dimension 124 mm (applicable with UR-Z71*/Z72*)
6CRL	3/8 inch VCR equivalent Face to face dimension 124 mm (applicable with UR-Z732/Z734)
8CRJ	1/2 inch VCR equivalent Face to face dimension 150.4 mm (applicable with UR-Z737)
14C3	1.125 inch C-seal Port to port dimension 92 mm (applicable with UR-Z71*/Z72*)
14W3	1.125 inch W-seal Port to port dimension 92 mm (applicable with UR-Z71*/Z72*)

❿ Polishing of wetted material

Blank	No (Applicable with UR-Z7*2/Z7*4)
SUC	Yes (Applicable with UR-Z7*2/Z7*4/Z7*7)

14C3 fitting and 14W3 fitting can be selected only for SUC.

⓫ Pressure range

3PA	Pressure control range 10-300 kPa (A)
5PG	Pressure control range 10-500 kPa (G)
10PG	Pressure control range 20-950 kPa (G)

10PG type can be selected only for UR-Z71*MO/Z72*MO and secondary pressure control type of UR-Z71*MC.