

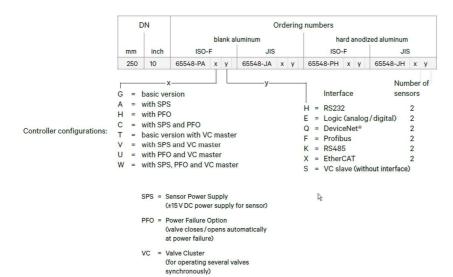
PRODUCT DATA SHEET Series 655, DN 250 mm (I.D. 10")

Ordering No. 655..-....

1 Description

This product is a throttling pendulum valve with isolation functionality. It is intended to use for downstream pressure control applications.

This "Product Data Sheet" is valid for the valve ordering number(s):



Sample picture only. Specified product



may differ in size, flange and options.

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Modification No.	Modification No.	979044EA



PRODUCT DATA SHEET Series 655, DN 250 mm (I.D. 10")

Ordering No. 655..-....

2 Technical data

2.1 Valve unit

Pressure range (unheated on delivery) Aluminum FKM Aluminum, FFKM Aluminum, hardanodized Leak rate valve seat (unheated on delivery) Aluminum FKM Aluminum FKM	
 Aluminum, FFKM Aluminum, hardanodized Leak rate valve seat (unheated on delivery) 1 x 10E-7 mbar to 1.2 bar (abs) 1 x 10E-6 mbar to 1.2 bar (abs)	
Aluminum, hardanodized 1 × 10E-6 mbar to 1.2 bar (abs) Leak rate valve seat (unheated on delivery)	
Leak rate valve seat (unheated on delivery)	
Aluminum FKM	
Aluminum, FFKM 1 × 10E-6 mbar ls ⁻¹	
Aluminum, hardanodized 1 × 10E-4 mbar ls ⁻¹	
Leak rate valve body (unheated on delivery)	
Aluminum FKM 1 × 10E-9 mbar ls ⁻¹	
Aluminum, FFKM 1 × 10E-7 mbar ls ⁻¹	
Aluminum, hardanodized 1 × 10E-5 mbar Is ⁻¹	
Cycles until first service (unheated and under clean conditions)	
Pressure control 2'000'000	
Closing / opening 50'000	
Admissible operating temperature	
Valve body ≤ 120°C	
Ambient ≤ 50°C	
Mounting position (valve seat on chamber side recommended)	
• DN250 any	
Process side materials valve body Aluminium EN AW-6061 T651 hard anodized	
Bonnet Aluminium EN AW-6061 T651 hard anodized	
Plate Aluminium EN AW-6061 T651 hard anodized	
Connection screw for gate Stainless steel A4-80, Ni-PTFE of	coated
Actuator shaft Stainless steel 1.4435 (316L)	
Gate suspension disc Stainless steel 1.4435 (316L)	
Seals Plate, body, bonnet, rotary FKM (e.g. Viton®)	
feedthrough FFKM (optional)	

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DN (nominal I. D.)	mm		250	
Div (nominari. D.)	inch		10"	
Operating time (s):			1	
Open to close / Close to open (s)			'	
Pressure control (thi	rottling) (s)		0.5	
Min. controllable cor [N ₂ molecular flow]	nductance (Is ⁻¹)		2	
Max. Conductance (Is ⁻¹)			22'000	
[N ₂ molecular flow]				
Max. differential pres plate in closed positi		from chamber to pump	1'200	
Max. differential pres plate in closed positi		from pump to chamber	50	
Max. differential presoperation (mbar)	ssure during		5	
Weight (approx.)	kg		36	
	lbs		79	

2.2 Control unit

Power supply input		+24 VDC (±10%) @ 0.5 V pk-pk max.
Power consumption		110W max
		with optional SPS + 40 W
		with optional PFO + 10 W
		3 W max. (from DeviceNet® to DeviceNet® Interface board of valve)
Ambient	temperature	0 °C to +50 °C max. (<35 °C recommended)
	humidity	0 to 95% RH, non-condensing
Interface	remote	Refer to chapter 1
	service port	USB
Sensor	number of inputs	Refer to chapter 1
	signal voltage	010 V DC with linear pressure
	input resistance	Ri = 100 kΩ
	ADC resolution	0.09 mV
	sampling rate	2 ms
	power supply (output)	+24 VDC / 1'500 mA max. or
		±15 VDC / ± 1'200 mA max. (with SPS option)
Pressure control accuracy		5 mV or 0.1% of setpoint, the higher value applies
Protective system		IP 20

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PRODUCT DATA SHEET

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2.3 General data

Weight	Refer to chapter: 2.1
Dimensional drawing	Refer to dimensional drawing of specific valve ordering number (available on request)

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