

# **PRODUCT DATA SHEET**

Series 642, DN 63 - 400 mm (I.D. 2.5" - 16")

Ordering No. 642..-....

#### **Description** 1

This product is a control gate 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):

D	N	Ordering numbers						
			CF-F	CF-F	ASA-LP (T)			
mm	inch	ISO-F	metric threads	UNF threads	ASA (A)	JIS		
63	21/2	64236-PE x y	64236-CE x y	64236-UE x y	64236-TE x y	64236-JE x y		
80	3	64238-PE x y	64238-CE x y	64238-UE x y	64238-TE x y	64238-JE x y		
100	4	64240-PE x y	64240-CE x y	64240-UE x y	64240-TE x y	64240-JE x y		
160	6	64244-PE x y	64244-CE x y	64244-UE x y	64244-TE x y	64244-JE x y		
200	8	64246-PE x y	64246-CE x y	64246-UE x y	64246-TE x y	64246-JE x y		
250	10	64248-PE x y	64248-CE x y	64248-UE x y	64248-TE x y	64248-JE x y		
320	12	64250-PE x y	on request	on request	64250-TE x y	64250-JE x y		
350	14	-	-	-	-	64251-JE x y		
400	16	64252-PE x y	on request	on request	64252-AE x y	64252-JE x y		

configurations: G = basic version A = with SPSH = with PFOC = with SPS and PFO = basic version with VC master V = with SPS and VC master

U = with PFO and VC master W = with SPS, PFO and VC master SPS = Sensor Power Supply (±15VDC power supply for sensor)

PFO = Power Failure Option (valve closes/opens automatically at power failure) VC = Valve Cluster (for operating several valves synchronously)

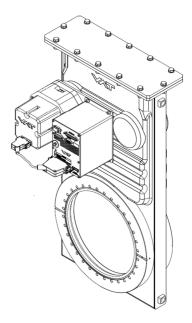
Example: 64240-PEGG Valve with ISO-F DN 100 flanges RS232 interface, for 1 sensor

Number of Interface sensors  $\dot{G}$  = RS232

H = RS2322 C = Logic E = Logic P = DeviceNet® Q = DeviceNet® D = Profibus F = Profibus J = RS485

K = RS485Y = Ethernet Z = Ethernet L = CC-LinkN = CC-Link2 I = EtherCAT X = EtherCAT

S = VC slave (without interface)



Sample picture only. Specified product may differ in size, flange and options.

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Ordering No. 642..-...

### 2 Technical data

#### 2.1 Valve unit

Pressure range	e at 20	0°C (unheate	d on deliv	ery)								
• DN63200								1 x 10E-8 mbar to 2.0 bar (abs)				
• DN250400							1 x 10E-8 mbar to 1.2 bar (abs)					
Leak rate to outside / seat at 20°C (unheated on delivery)							1 × 10E-9 mbar Is <sup>-1</sup>					
Differential pres	Differential pressure on the gate											
	Valve closed											
								≤ 2.0 bar				
2.1.250105							≤ 1.2 bar					
During clos							≤ 30 mbar					
Cycles until firs	t serv	vice (unheate	ed and und	der clean d	conditions)	)						
<ul> <li>Pressure of</li> </ul>								0'000				
Closing / op	•						200'	000				
Admissible ope	erating	g temperatur	е									
<ul> <li>Valve body</li> </ul>	y						≤ 150					
<ul> <li>Ambient</li> </ul>							≤ 50	0°C				
Mounting position (valve seat to face chamber is recommended)												
• DN6335	0						any					
• DN400							horizontal only (optional in vertical position with					
							extended closing time, fewer cycles)					
Process side m	nateria	als	body / plate				Stainless steel: 304 (1.4301)					
			other parts			Stainless steel: 301 (1.4310), 304 (1.4301), 420 (1.4034), 420D (1.4037), 430 (1.4016)						
Seals			plate				FKM (e.g. Viton®)					
			rotary feed through				FKM (e.g. Viton®)					
			bonnet				FKM (e.g. Viton®) (DN63200 vulcanized)					
DN (nominal I.	וח	mm	63	80	100		60	200	250	320	350	400
Div (nominari.	D.)	inch	21/2	3"	4"	•	5"	8"	10"	12"	14"	16"
	•	/ close	4	4	6		6	6	10	10	10	10
		sure control	3	3	3		5	5	9	9	9	9
Min. controllable conductance (Is <sup>-1</sup> ) [N <sub>2</sub> molecular flow]		0.65	0.8	1	1	.6	2	2.5	3.2	3.5	4	
Max. Conductance (ls <sup>-1</sup> ) [N <sub>2</sub> molecular flow]		440	800	1'700	5'(	000	1'2000	22'000	30,000	40'000	50'000	
Weight (approx	()	kg	14	14	17	2	28	34	62	112	120	155
vveigit (applox	·. <i>)</i>	lbs	31	31	37	6	62	75	136	246	264	340
Valve position i	indica	ition	•		•		Visua	al (mechai	nical and o	on controll	er)	

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### 2.2 Control unit

Power supply input		+24 VDC (±10%) @ 0.5 V pk-pk max.
Power consumption		55 W (standard) with optional SPS + 36 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	RS232
Sensor	number of inputs	Refer to chapter 1
	signal voltage	010 V DC with linear pressure
	input resistance	Ri = 100 kΩ
	ADC resolution	0.23 mV
	sampling time	10 ms
	power supply (output)	+24 VDC / 1500 mA max. or ±15 VDC / ± 1'000 mA max. (with SPS option)
Pressure control accuracy		5 mV or 0.1% of setpoint, the higher value applies
Protective system		IP 20

### 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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