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CATALOG KỸ THUẬT · JOHNSON CONTROLS

Van bướm điện VF7000

lệch tâm kép · DN50–DN600 · PN25

VF7000 Johnson Controls – van bướm điện lệch tâm kép PN25 DN50–DN600, áp đóng 2,5 MPa, đế PTFE, đĩa inox, bộ truyền động VA400 IP67 cho AHU lớn, chiller.

Mã: VF7000 · Hãng: Johnson Controls · Hotline: 093 797 2339

dlk.com.vn/vf7000-johnson-controls-van-buom-dien-lech-tam-kep.html



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Butterfly Valve and Actuator

VF7000 Series Butterfly Valves and VA400 Series Actuators

Introduction

The VF7000 Series PN25 Butterfly Valves and VA400 Actuators are designed to shut off or regulate the flow of hot or chilled water in an HVAC system, especially in the large air handling unit.

This series covers models from DN50 to DN600 with different modes of control through either on/off or modulating type actuators.

Actuators and valves are calibrated in the factory and are packed separately for ease of delivery and installation.



Figure 1: VF7000 Series PN25 Butterfly Valve and Actuator

Features

Double-eccentric design	Enables high performance
Floating seat	Reliable sealing results in a longer service life
Professionally designed sealing surface	Broadside and arc design is suitable for various types of flanges
Mid-plummer block-spliced pole	Lower shaft prevented from disengaging from the body due to frequent vibration
Valve phase indicator	Displays valve position
Software for over-torque control	Ensures valves close fully
Shaft with spline design	Ensures torque transmission and control accuracy
Automatic clutch	Automatic switching is more convenient and reliable
Protective design	Provides over-torque protection and anti-condensation heater
Worm gear drive	High transmission torque and self-locking

Model Selection

Table 1: Ordering code for VF7000 Series Butterfly Valves

V	F	7	4	6	1	A	A	-	C	Butterfly valve
7										Rated pressure
										6=PN16 7=PN25
4										Body type
										4=Two-way
6										Connection
										6=Wafer
1										Flow characteristics
										1= Equal percentage
A										Valve size
										A=2 in. (DN50) B=2.5 in. (DN65) C=3 in. (DN80) D=4 in. (DN100) E=5 in. (DN125) F=6 in. (DN150) G=8 in. (DN200) H=10in. (DN250) J=12in. (DN300) K=14in. (DN350) L=16in. (DN400) M=18in. (DN450) N=20in. (DN500) P=24in. (DN600)
A										Reserve
										A=None
-										Origin
										Made in China

Table 2: Ordering code for VA400 Series Actuators

VA	4	03	A	B	D	C	N	-	C	
4										Actuator
										3=For VF6000 PN16 Butterfly Valve 4=For VF7000 PN25 Butterfly Valve
03										Torque
										02=45Nm 03=180Nm 04=320Nm 05=370Nm 08=1650Nm 09=2200Nm 10=3200Nm 11=4000Nm
A										Dimensions of connector
										A=Dimension 1 B=Dimension 2
B										Control Signals
										B=On/off C=Modulating
D										Power
										D=220V AC
C										Auxiliary switch
										C=Two switches
N										Reserve
-										Origin
										Made in China

Butterfly Valve and Actuator

Specifications

Product	VF7000 Series PN25 Butterfly Valves and VA400 Actuators	
Application	Regulation of hot water and chilled water in HVAC system	
Valves		
Media and Temperature		Water temperature ranges from -10-100° C, For non-continuous flow, temperature can reach up to 120° C
Diameter		DN50~DN600
Close-off Pressure		2.5MPa
Nominal Pressure		PN25
Materials	Body	Carbon Steel, A216 GrWCB
	Seat	PTFE
	Stem	Stainless steel, A564 Gr.630
	Disc	Stainless steel, A351 Gr.CF8
Pipe Connection		Complies to ISO 7005-1
VA400 Actuator		
Power Supply		220VAC ± 10% 50/60Hz
Torque		See Table 3
Running Time		See Table 3
Motor Power		See Table 3
Input Signal		On/off or 4-20mA/0-10V/2-10V
Output Signal		End of switch or 4-20mA/0-10V/2-10V
Protective Class		IP67
Ambient Temperature		-20 ~ 65°C
Worm Gear		Energy efficient with self-lock feature
Heater		Anti-condensation
Casting Materials		Aluminium
Surface Coating		Epoxy resin

Table 3: VA400 Actuator performance summary

Model (On/off)	Model (Modulating)	Torque (Nm)	Running Time (S)	Motor Power (W)
VA402ABDCN-C	VA402ACDCN-C	45-55	19	40
VA402BBDCN-C	VA402BCDCN-C	90-105	19	40
VA403ABDCN-C	VA403ACDCN-C	180-200	39	40
VA404ABDCN-C	VA404ACDCN-C	320-360	29	90
VA404BBDCN-C	VA404BCDCN-C	320-360	29	90
VA405ABDCN-C	VA405ACDCN-C	370-395	39	90
VA408ABDCN-C	VA408ACDCN-C	1650-1800	34	200
VA409ABDCN-C	VA409ACDCN-C	2200-2400	47	200
VA410ABDCN-C	VA410ACDCN-C	3200-3600	76	200
VA411ABDCN-C	VA411ACDCN-C	4000-4400	105	200

Specifications

Table 4: On/Off Type Summary

DN Size		Butterfly Valve Model	Actuator Model
mm	inch		
50	2"	VF7461AA-C	VA402ABDCN-C
65	2.5"	VF7461BA-C	VA402ABDCN-C
80	3"	VF7461CA-C	VA402BBDCN-C
100	4"	VF7461DA-C	VA402BBDCN-C
125	5"	VF7461EA-C	VA403ABDCN-C
150	6"	VF7461FA-C	VA403ABDCN-C
200	8"	VF7461GA-C	VA404ABDCN-C
250	10"	VF7461HA-C	VA404BBDCN-C
300	12"	VF7461JA-C	VA405ABDCN-C
350	14"	VF7461KA-C	VA408ABDCN-C
400	16"	VF7461LA-C	VA409ABDCN-C
450	18"	VF7461MA-C	VA409ABDCN-C
500	20"	VF7461NA-C	VA410ABDCN-C
600	24"	VF7461PA-C	VA411ABDCN-C

Table 5: Modulating Type Summary

DN Size		Butterfly Valve Model	Actuator Model
mm	inch		
50	2"	VF7461AA-C	VA402ACDCN-C
65	2.5"	VF7461BA-C	VA402ACDCN-C
80	3"	VF7461CA-C	VA402BCDCN-C
100	4"	VF7461DA-C	VA402BCDCN-C
125	5"	VF7461EA-C	VA403ACDCN-C
150	6"	VF7461FA-C	VA403ACDCN-C
200	8"	VF7461GA-C	VA404ACDCN-C
250	10"	VF7461HA-C	VA404BCDCN-C
300	12"	VF7461JA-C	VA405ACDCN-C
350	14"	VF7461KA-C	VA408ACDCN-C
400	16"	VF7461LA-C	VA409ACDCN-C
450	18"	VF7461MA-C	VA409ACDCN-C
500	20"	VF7461NA-C	VA410ACDCN-C
600	24"	VF7461PA-C	VA411ACDCN-C



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