

# GOYEN

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650 Woodlawn Rd. W. Unit A-8 Guelph, ON N1K 1B8

TEL: 888-211-0171 / 519-823-8900 FAX: 519-824-5599 EMAIL: parts@industryairsales.com www.industryairsales.com



# DRESSER NUT VALVES

# PRODUCT LEAFLET



DD Series

## DESCRIPTION

High performance diaphragm valve with dresser nut ports. Available with integral pilot or as remotely piloted valve. Outlet at 90° to inlet.

# SUITABLE FOR

Dust collector applications, in particular for reverse pulse jet filter cleaning and its variations, including bag filters, cartridge filters and envelope filters, ceramic filters and sintered metal fibre filters.

# CONSTRUCTION

Body and Dresser Nuts: Aluminium (diecast) Ferrule: 305 SS Armature: 430FR SS Seals: Nitrile or Viton Spring: 304 SS Screws: 302 or 304 SS Dresser Nut Seals: Nitrile or Viton Diaphragm Seat: PA-66 (standard), Viton coated mild steel or High Density PE

Refer to Q Series Solenoid product data sheet for solenoid construction details.

## **OPERATION**

**Recommended on-time range:** 50–500 ms **Recommended time between pulses:** 1 minute or greater

# MAINTENANCE

Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power supplies. Pressure and power should not be reapplied until the valve has been fully assembled. Diaphragm and pilot inspection should be conducted annually.

# **APPROVALS**

- ATEX II 3 GD (RCA/RCAC only)
- CSA (C, US) [C22.2 No 139-10 and UL 429:2009] (CA & RCA)
- C-Tick (CA)
- EMC 2004/108/EC (CA)
- Low Voltage Directive 2006/95/EC (CA)

## **INSTALLATION**

For your safety do not pressurise system until all valves and pipes are fully secured. Do not attempt to remove a fitted valve while system is under pressure.

- 1. Prepare supply and blowtube pipes\* to suit valve specification. Avoid installing valves underneath the tank.
- 2. Ensure tank and pipes are free from dirt, rust or other particulate.
- 3. Ensure supply air is clean and dry.
- 4. Mount valve to inlet pipes and blowtube to valve, tighten dresser nuts.
- 5. Tanks and pipes must be independently supported from valve.
- Make electrical connections to solenoid or connect RCA pilot port to pilot valve (RCA valves only).
- 7. Apply moderate pressure to system and check for installation leaks.
- 8. Fully pressurise system.
- 9. Test fire and listen for proper actuation and crisp pulse noise.

# Valve is not a structural component. Do not rely on valve to retain tanks or pipe.

\* OD as shown below.

	SIZE	OD MM	OD INCHES
-	1.5″	48.3	1.900

### WEIGHTS

SIZE	INTEGRAL PILOT (CA) KG (LB)	REMOTE PILOT (RCA) KG (LB)
45	2.28 (5.03)	2.11 (4.65)

## **MAINTENANCE KITS**

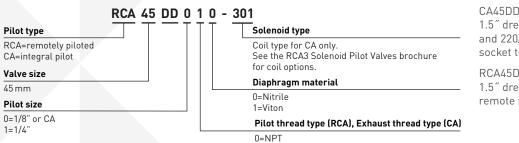
MODEL	NITRILE	VITON	LOW TEMPERATURE -60°C (-76°F) MIN.	INCLUDES
DIAPHRAGM KIT				
CA/RCA45DD	K4502	K4503	K4522	Diaphragm kits include main and secondary diaphragms and all springs
DRESSER SEAL KIT				
CA/RCA45DD	K4510	K4511	NA	2 dresser seals, 2 dresser nuts, 2 seal retainers
Pilot repair kit (suits all CA valves)	K0380	K0384	NA	o-ring, armature assembly, armature spring, ferrule

PRODUCT LEAFLET

# **PRODUCT CHARACTERISTICS AND PERFORMANCE**

NOM. SIZE	M. SIZE PORT SIZE NUMBER OF FLOW		PRESSURE RANGE	TEMPERATURE RANG	E°C°(F)			
	MM	INCH	DIAPHRAGMS	KV	CV	KPA (PSI)	NITRILE SEALS	VITON SEALS
45	40	1.5	2	44	51	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

# **ORDER CODE**



1=RC

# **EXAMPLES**

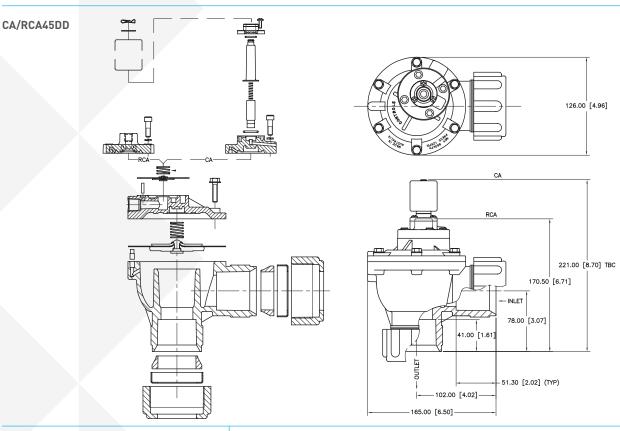
CA45DD010-300

1.5" dresser nut port valve with nitrile seals and 220/240 V AC integral pilot with DIN socket terminals.

# RCA45DD001

1.5″ dresser nut port valve with 1.8″ NPT remote pilot port and viton seals.

# **DIMENSIONS IN MM (AND INCHES)**

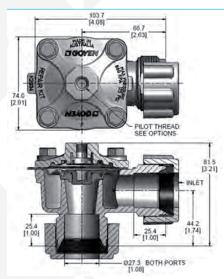


PRODUCT LEAFLET

# RCAC20DD4 - REVERSE PULSE JET VALVES



# DIMENSIONS IN MM (AND INCHES)



# DESCRIPTION

High-performance diaphragm valve with dresser nut ports. Equipped with 'Shockwave' springless diaphragm. The 4 series valves are available as remote pilot valves and may be converted to an integral pilot using either the RCA3DM or RCA3PV screw-in pilots. Outlet is at 90° to inlet.

# SUITABLE FOR

Dust collector applications, in particular for reverse pulse jet filter cleaning and its variations, including bag filters, cartridge filters and envelope filters, ceramic filters and sintered metal fibre filters.

## CONSTRUCTION

**Body and Dresser Nuts:** Aluminium (diecast)

Screws: 304 Stainless steel

Dresser Nut Seals: Nitrile or Viton

**Diaphragm:** Proprietary highperformance engineering thermoplastic Elastomer or Viton

# **OPERATION**

Recommended on-time range: 50 to 500 ms Recommended time between pulses: 1 minute or greater

**Please Note:** We recommend using Schedule 40 pipe. Thickness OD is as shown below.

SIZE	OD MM	OD INCHES	
3/4"	26.67	1.05	

## **WEIGHTS**

VALVE	KG (LB)
RCAC20DD4	0.52 (1.14)

# **PRODUCT CHARACTERISTICS AND PERFORMANCE**

NOMINAL PORT SIZE	NUMBER OF DIAPHRAGMS		TEMPERATURE RANGE °C °(F)			
MM (INCH)		KV	CV	KI A (I 3I)	SHOCKWAVE	VITON
20 (3/4)	1	14	17	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

# EXAMPLES

RCAC20DD4012

3/4″ dresser nut valve with 1/8″ RC pilot port thread, Shockwave diaphragm.

#### Note:

1/8 Pilot available in NPT, RC and G Thread. 1/4 Pilot is only available in G Thread.

# MAINTENANCE

Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power supplies. Pressure and power should not be reapplied until the valve has been fully assembled.

Diaphragm and pilot inspection should be conducted annually.

#### **APPROVALS**

The RCAC20DD4 meets the requirements of the European Low Voltage Directive 2006/95/EC, when fitted with the RCA3PV pilot.

## **MAINTENANCE KITS**

MODEL	SHOCKWAVE	VITON
	ίΤ	
RCAC20DD4	K2034	K2033
DRESSER SEA	L KIT	
RCAC20DD4	K2008	K2009

# **ORDER CODE**

Pilot size 0=1/8"	Diaphragm material
1=1/4"	1=Viton 2=Shockway
	Thread type
	0=NPT
	1=RC
	2=G

DRESSER NUT VALVES

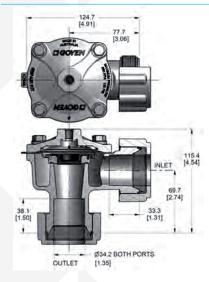
# GOYEN

PRODUCT LEAFLET

# RCAC25DD4 - REVERSE PULSE JET VALVES



# DIMENSIONS IN MM (AND INCHES)



# DESCRIPTION

High-performance diaphragm valve with dresser nut ports. Equipped with 'Shockwave' springless diaphragm. The 4 series valves are available as remote pilot valves and may be converted to integral pilot using either the RCA3DM or RCA3PV screwin pilots. Outlet is at 90° to inlet.

# SUITABLE FOR

Dust collector applications, in particular for reverse pulse jet filter cleaning and its variations, including bag filters, cartridge filters and envelope filters, ceramic filters and sintered metal fibre filters.

# CONSTRUCTION

**Body and Dresser Nuts:** Aluminium (diecast)

Screws: 304 Stainless steel

Dresser Nut Seals: Nitrile or Viton

**Diaphragm:** High-performance engineering thermoplastic Elastomer or Viton

# **OPERATION**

Recommended on-time range: 50 to 500 ms Recommended time between pulses: 1 minute or greater

**Please Note:** We recommend using Schedule 40 pipe. Thickness OD is as shown below.

SIZE	OD MM	OD INCHES		
1	33.4	1.315		

## WEIGHTS

VALVE	KG (LB)
RCAC25DD4	0.96 (2.12)

# **MAINTENANCE** Before conducting

Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power supplies. Pressure and power should not be reapplied until the valve has been fully assembled.

Diaphragm and pilot inspection should be conducted annually.

# **APPROVALS**

The RCAC25DD4 meets the requirements of the European Low Voltage Directive 2006/95/EC, when fitted with the RCA3PV pilot.

# MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
	ίΤ	
RCAC25DD4	K2546	K2551
DRESSER SEA	LKIT	
RCA25DD	K2508	K2507

# **PRODUCT CHARACTERISTICS AND PERFORMANCE**

	NOMINAL PORT SIZE MM (INCH)	NUMBER OF DIAPHRAGMS	FLOW		PRESSURE RANGE KPA (PSI)	TEMPERATURE RANGE °C °(F)	
			KV	CV		SHOCKWAVE	VITON
	25 (1)	1	22.5	26.0	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

# EXAMPLES

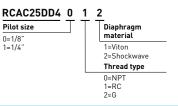
RCAC25DD4012

1" dresser nut valve with 1/8" RC pilot port thread, Shockwave diaphragm.

#### Note:

1/8 Pilot available in NPT, RC and G Thread. 1/4 Pilot is only available in G Thread.

# **ORDER CODE**



DRESSER NUT VALVES

PRODUCT LEAFLET

# DIAPHRAGM SERVICE KITS FOR DELETED VALVES

# Maintenance kits

MODEL	NITRILE	VITON	LOW TEMPERATURE -60°C (-76°F) MIN.	INCLUDES	
CA/RCA20DD	K2000	K2007	NA	Diaphragm kits include main and secondary diaphragms	
CA/RCA25DD	K2501	K2503	K2504	(where required) and all springs.	



#### **GOYEN CONTROLS PTY LIMITED**

268 MILPERRA ROAD, MILPERRA NSW 2214, AUSTRALIA WWW.GOYENMECAIR.PENTAIR.COM

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