

DRESSER NUT VALVES

PENTAIR CLEAN AIR SYSTEMS

GOYEN 'DD' SERIES PULSE JET VALVES



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 2D Mechanical (RCA 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.

- 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	0D mm	OD inches
1.5″	48.3	1.900

We recommend Schedule 40 thickness.

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

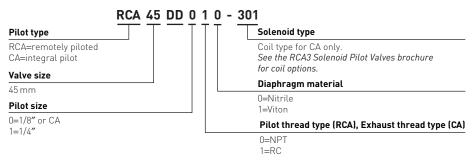
GOYEN 'DD' SERIES

PULSE JET VALVES

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOM. SIZE	POR	T SIZE	NUMBER OF	FLOW		PRESSURE RANGE	TEMPERATURE RANGE °C °(F)	
	mm	in	DIAPHRAGMS	KV	с٧	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)

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Examples: CA45DD010-300

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

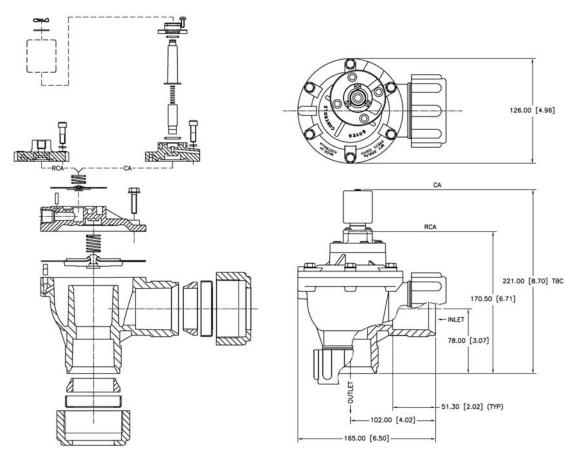
RCA45DD001

1.5" dresser nut port valve with 1/8" NPT remote pilot port and viton seals.

DIMENSIONS

(Dimensions in mm and [inches])

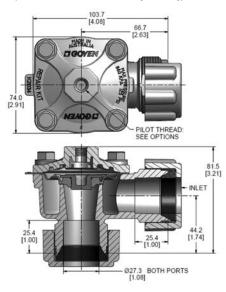
CA/RCA45DD



GOYEN RCAC20DD4 REVERSE PULSE JET VALVES



DIMENSIONS (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

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.

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)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit RCAC20DD4	K2034	K2033
Dresser Seal Kit RCAC20DD4	K2008	K2009

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL PORT SIZE	NO. OF	FLOW KV (CV)	PRESSURE RANGE kPa (psi)	TEMPERATURE RANGE °C (°F)	
mm (in.)	DIAPH.		KANGE KPa (psi)	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:

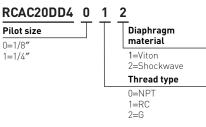
RCAC20DD4012

34″ 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



GOYEN RCAC25DD4 REVERSE PULSE JET VALVES



DIMENSIONS (Dimensions in mm and [inches])

124.7 (4.91) 77.7 (3.08) **DOOTEN IDE IDE**

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 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: High-performance engineering thermoplastic Elastomer or Viton

OPERATION

Recommended on-time range: 50 to 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

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

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 KITS

MODEL	SHOCKWAVE	VITON			
Diaphragm Kit					
RCAC25DD4	K2546	K2551			
Dresser Seal Kit					
RCA25DD	K2508	K2507			

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL	N0. 0F	FLOW	PRESSURE	TEMPERATURE RA	NGE °C (°F)
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	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:

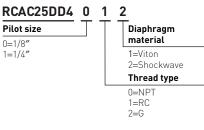
RCAC25DD4012 1″ dresser nut valve with ½″ RC pilot threads, Shockwave diaphragm.

Note:

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

1/4 Pilot is only available in G Thread.

ORDER CODE





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