

TGOYEN DIAPHRAGM VALVES FOR

REVERSE PULSE JET DUST COLLECTORS

DIAPHRAGM VALVES FORREVERSE PULSE JET DUST COLLECTORS

Goyen manufactures a full range of diaphragm valves suited to the high flow and fast response demands of reverse pulse jet dust collector applications in a wide range of installations. Goyen reverse pulse jet diaphragm valves are built to an exceptional quality standard and are supported by dedicated and experienced applications engineers.

There is a Goyen reverse pulse jet diaphragm valve solution ideal for a wide range of applications including (amongst many more):

- Power generation
- Gas turbine intake filters
- Steel
- Cement
- · Metals refining
- Fume collectors
- Manufacturing processes
- Paint and powdercoating booths
- Powder and bulk solids handling
- Silo venting

The Goyen diaphragm valve is built to the highest quality standards, making it a best-inclass product for durability and longevity. All our valves are tested prior to shipment and are proven to be a reliable design with market-leading performance.

With Goyen, customers are supported by our world-class engineering expertise, innovative designs and high-quality products in the filter cleaning systems solutions market, including diaphragm valves, header tanks, cleaning systems components, pulse cleaning controllers, emissions monitoring and Tribo electric products.

Goyen's advanced application expertise, along with our wide product range and global reach, has allowed us to provide customer-beneficial engineering partnerships since 1935. Our partnerships are maintained by our long-term commitment to leading customer product support.

Goyen, engineering partnerships since 1935





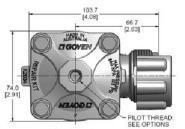
GOYEN RCAC20DD4

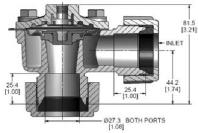
REVERSE PULSE JET VALVES



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 (tb)
RCAC20DD4	0.52 (1.14)

MAINTENANCE KITS

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

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL PORT SIZE	NO.OF DIAPH.	FLOW KV (CV)	PRESSURE RANGE kPa (psi)		
mm (in.)	DIAPH.	KV (CV)	KANGEKPA (PSI)	SHOCKWAVE	VITON
20 (¾)	1	14 (17)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

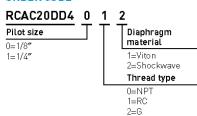
Examples:

RCAC20DD4012

 $\% \H$ dresser nut valve with $\% \H$ 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.





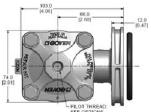
GOYEN RCAC20FS4

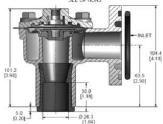
REVERSE PULSE JET VALVES

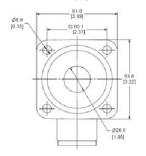


DIMENSIONS

(Dimensions in mm and [inches])







DESCRIPTION

High-performance diaphragm valve with a flanged inlet port and slide seal outlet port. 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. The FS valve range features a larger diameter inlet providing higher performance than the DD, Tor ST body styles.

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: Aluminium (diecast) Screws: 304 Stainless steel

Seals:

Inlet O-ring: Nitrile used with shockwave diaphragm, Viton with Viton diaphragm

Outlet: EPDM used with shockwave diaphragm, Viton with Viton diaphragm

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 unit inspection should be conducted annually.

APPROVALS

The RCAC20FS4 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)
RCAC20FS4	0.51 (1.12)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit	14000 (140000
RCAC20FS4	K2034	K2033

20FS4 Outlet Seal

G690338 G690338-2 RCAC20ES4

PRODUCT CHARACTERISTICS AND PERFORMANCE

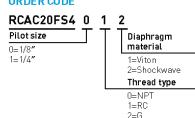
NOMINAL	NO. 0F	FLOW		TEMPERATURE RANGE °C (°F)	
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	SHOCKWAVE	VITON
20 (¾)	1	19 (26)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

Examples:

RCAC20FS4012

¾″ FS valve with 1/8″ RC pilot port threads, Shockwave diaphragm.'

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





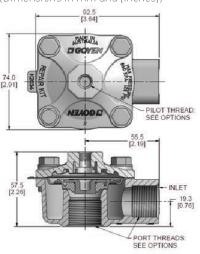
GOYEN RCAC20T4

REVERSE PULSE JET VALVES



DIMENSIONS

(Dimensions in mm and [inches])



DESCRIPTION

High-performance diaphragm valve with threaded 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: Aluminium (diecast) **Screws:** 304 Stainless steel

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 unit inspection should be conducted annually.

APPROVALS

The RCAC20T4 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)
RCAC20T4	0.31 (0.68)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit		
RCAC20T4	K2034	K2033

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL	NO. 0F	FLOW	PRESSURE	TEMPERATURE RANGE °C (°F)	
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	SHOCKWAVE	VITON
20 (¾)	1	14 (17)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

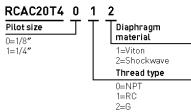
Examples:

RCAC20T4012

%" RC threaded valve with %" RC pilot port thread, Shockwave diaphragm.

Note:

№ Pilot available in NPT, RC and G Thread.¼ Pilot is only available in G Thread.





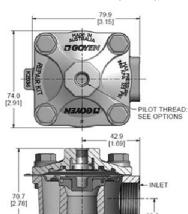
GOYEN RCAC20ST4

REVERSE PULSE JET VALVES



DIMENSIONS

(Dimensions in mm and [inches])



DESCRIPTION

High-performance diaphragm valve with short threaded 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.

PORT THREADS SEE OPTIONS

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: Aluminium (diecast)

Screws: 304 Stainless steel

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 unit inspection should be conducted annually.

APPROVALS

The RCAC20ST4 meet 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)
RCAC20ST4	0.30 (0.66)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit		
RCAC20ST4	K2034	K2033

PRODUCT CHARACTERISTICS AND PERFORMANCE

	N0.0F	FL0W		TEMPERATURE RANGE °C (°F)	
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	SHOCKWAVE	VITON
20 (¾)	1	14 (17)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

Examples:

RCAC20ST4012

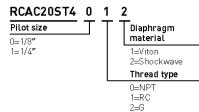
¾″ RC Short threaded valve with

1/8" RC pilot,

34" RC port threads, Shockwave diaphragm.

Note:

1⁄8 Pilot available in NPT, RC and G Thread. ¼ Pilot is only available in G Thread.





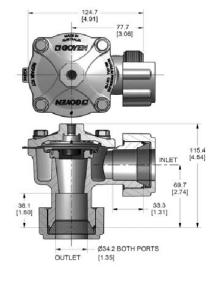
GOYEN RCAC25DD4

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 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 0D 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	112340	1(2001	
RCA25DD	K2508	K2507	

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL	NO. 0F			TEMPERATURE RANGE °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)

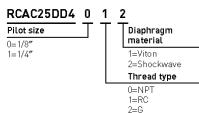
Examples:

RCAC25DD4012

1 \H dresser nut valve with $\mbox{\em 16}\mbox{\em RC}$ pilot threads, Shockwave diaphragm.

Note:

1/2 Pilot available in NPT, RC and G Thread. 1/4 Pilot is only available in G Thread.





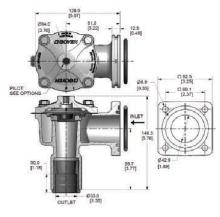
GOYEN RCAC25FS4

REVERSE PULSE JET VALVES



DIMENSIONS

(Dimensions in mm and [inches])



DESCRIPTION

High-performance diaphragm valve with a flanged inlet port and slide seal outlet port. 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. The FS valve range features a larger diameter inlet providing higher performance than the DD or T body styles.

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: Aluminium (diecast)

Screws: 304 Stainless steel

Seals: Nitrile & EPDM 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 unit inspection should be conducted annually.

APPROVALS

The RCAC25FS4 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)
RCAC25FS4	0.85 (1.87)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit RCAC25FS4	K2546	K2551
FS Outlet Seal RCAC25FS4	G690763	G690763-2

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL	NO. OF		PRESSURE	TEMPERATURE RAI	NGE °C (°F)
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	SHOCKWAVE	VITON
25 (1)	1	34 (40)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

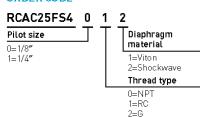
Examples:

RCAC25FS4012

1 $\tilde{~}$ FS valve with $\mbox{$V\!e$}''$ RC pilot port threads, Shockwave diaphragm.

Note

Pilot available in NPT, RC and G Thread.Pilot is only available in G Thread.





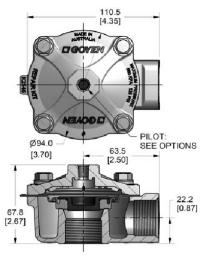
GOYEN RCAC25T4

REVERSE PULSE JET VALVES



DIMENSIONS

(Dimensions in mm and [inches])



DESCRIPTION

High-performance diaphragm valve with threaded 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: Aluminium (diecast)

Screws: 304 Stainless steel

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 unit inspection should be conducted annually.

APPROVALS

The RCAC25T4 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)
RCAC25T4	0.56 (1.23)

MAINTENANCE KITS

MODEL	SHOCKWAVE	VITON
Diaphragm Kit	1/25//	W2551
RCAC25T4	K2546	K2551

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOMINAL	NO. 0F	FLOW	PRESSURE	TEMPERATURE RAI	NGE °C (°F)
PORT SIZE mm (in.)	DIAPH.	KV (CV)	RANGE kPa (psi)	SHOCKWAVE	VITON
25 (1)	1	24 (27)	30(5) to 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

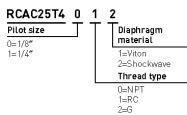
Examples:

RCAC25T4012

1 $\tilde{}$ RC threaded port valve with $\mbox{\em 8}\tilde{}$ RC pilot port threads, Shockwave diaphragm.

Note

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





SOLENOID SPECIFICATIONS & CODES FOR VALVES





RCA3DM

RCA3PV

EL	ELECTRICAL CHARACTERISTICS								
DII	N Socket	t Connec	tor		PG9 Connection (Cable Entry)				
DII	N Socket	t Specific	ation		EN175301 - 803 (previously DIN 43650A) / A/ISO 4400				
DII	N Socket	t Optiona	ıl		94/9/CE ATEX ii 3GD T6				
Isc	lation C	lass DIN	Socket		VDE 0110 - 1/89				
DII	N Socket	t Protect	ion		IP65 EN60529				
	CODE	TYPE	CONNECTION TYPE	PROTECTION CLASS	VOLTAGE	POWER	COLOUR		
For use with RCA3PV	206 205 204 203 206 205 204 203	SB4 SB4 SB4 SB4 SB4 SB4 SB4 SB4	DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A	IP65 IP65 IP65 IP65 IP65 IP65 IP65	12V DC (max. +10% supply) 24V DC (max. +10% supply) 48V DC (max. +10% supply) 110V DC (max. +10% supply) 24V 50/60 Hz (max. +10% supply) 48V 50/60 Hz (max. +10% supply) 110/127V 50/60 Hz (max. +10% supply) 220/240V 50/60 Hz (max. +10% supply)	18 W 18 W 18 W 18 W 38/31 VA 41/32 VA 63/53 VA 46/37 VA	Black Black Black Black Black Black Black		
A3DM	300 301 302 303 304 305 306	QR QR QR QR QR QR QR	DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A DIN43650A	1P65 1P64 1P64 1P64 1P64 1P64	200/240 V 50/60 Hz 100/120 V 50/60 Hz 24 V 50/60 Hz 110 V DC 48 V DC 24 V DC 12 V DC	17.4/22.6 VA 15.2/19.7 VA 23.1/17.2 VA 24 W 20 W 20 W 20 W	Grey Grey Grey Grey Grey Grey Grey		
For use with RCA3DM	310 311 312 313 314 320 321 322 323 324	QD QD QD QD QD QD QD QD QD	Conduit (M20 x 1.5) Conduit (M2" NPSC)	P31	200/240 V 50/60 Hz 100/120 V 50/60 Hz 24 V 50/60 Hz 24 V DC 12 V DC 200/240 V 50/60 Hz 100/120 V 50/60 Hz 24 V 50/60 Hz 24 V DC 12 V DC	17.4/22.6 VA 15.2/19.7 VA 23.1/17.2 VA 20 W 20 W 17.4/22.6 VA 15.2/19.7 VA 23.1/17.2 VA 20 W 20 W	Green Green Green Green Green Green Green Green Green		



GOYEN RCA3DM

PILOT VALVE OPTIONS FOR INTEGRAL PILOT (CA) APPLICATIONS





FOR INTEGRAL PILOT (CA) APPLICATIONS:

The RCA3DM is a pilot valve with an integral silencer and dust shroud which mounts directly (screw-in) to the 4 series valve cover. The Dimensional diagrams can be found on Page 12 of this brochure.

RCA3DM and RCA3PV are suitable piloting options for all 4 Series valves and the RCA35T diaphragm valve.

COIL

Encapsulation: PA-66

C-Frame: Mild steel, zinc passivated

Bobbin: PA-66

Insulation class: B/130°C

IP Rating: IP65

Rating: Non-continuous use only

Clip: Mild steel (mechanically plated)

OPERATION

Recommended on-time range: 50 to 500 ms

Recommended time between pulses: 1 minute or greater

COIL CERTIFICATION AND CONFORMITIES

- C-Tick
- EMC (89/336/CE)
- LV
- CSA

SPARE PARTS:

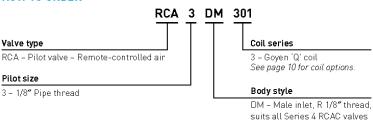
K0380 – Kit includes Nitrile replacement seal, armature, spring and ferrule.

K0384 – Kit includes Viton replacement seal, armature, spring and ferrule.

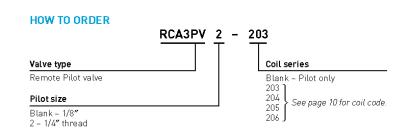
PRODUCT PERFORMANCE

	MAXIMUM WORKING	WORKING			TEMPERATURE max.		FLUID MEDIA
	PRESSURE	PRESSURE	Viton	Nitrile	Viton	Nitrile	
0.32 Cv	860 kPa	0 kPa	-40°C	-29°C	82°C	282°C	Airor
0.27 Kv	125 psi	0 psi	-40°F	-20°F	180°F	450°F	inert gas

HOW TO ORDER



GOYEN RCA3PV





GOYEN RCA3DM AND RCA3PV/3PV2

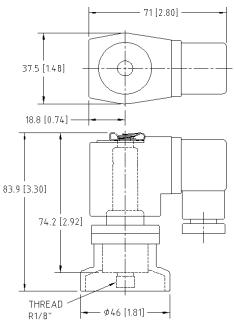
PILOT VALVE OPTIONS FOR INTEGRAL PILOT (CA) APPLICATIONS

Order with 4 series or RCA3ST valves for an integrally piloted application.

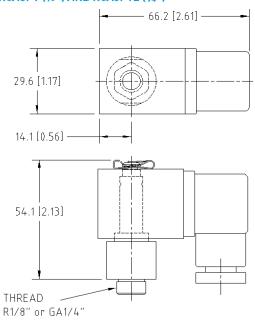
DIMENSIONS

(Dimensions in mm and [inches])

RCA3DM PILOT VALVE



RCA3PV (1/4") AND RCA3PV2 (1/4")



PULSE JET VALVES



T Series

DESCRIPTION

High performance diaphragm valve with threaded 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: Aluminium (diecast)

Ferrule: 305 SS Armature: 430FR SS Seals: Nitrile or Viton Spring: 304 SS Screws: 302 or 304 SS

Diaphragm Seat: PA-66 (standard), Viton or Nitrile coated mild steels, Nitrile, Viton 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

- 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.
- Mount valves to inlet pipes and blowtube to valves, ensuring no excess thread sealant can enter the valve itself.
- 5. Make electrical connections to solenoid or connect RCA pilot port to pilot valve (RCA valves only).
- 6. Apply moderate pressure to system and check for installation leaks.
- 7. Fully pressurise system.
- 8. Test fire and listen for proper actuation and crisp pulse noise.

WEIGHTS

SIZE	INTEGRAL PILOT (CA) kg (lb)	REMOTE PILOT (RCA) kg (lb)	SIZE	INTEGRAL PILOT (CA) kg (lb)	REMOTE PILOT (RCA) kg (lb)
10	NA	0.06 (0.14)	50	2.89 (6.38)	2.68 (5.92)
35	1.04 (2.28)	0.83 (1.83)	62	3.31 (7.30)	3.09 (6.82)
45	1.50 (3.30)	1.28 (2.83)	76	4.77 (10.52)	4.56 (10.04)

MAINTENANCE KITS

PIANTENANCE ICTO							
MODEL	NITRILE	VITON	LOW TEMPERATURE -60°C (-76°F) min.	INCLUDES Diaphragm kits include main			
RCA10-6T	K1001	K1002	NA	and secondary diaphragms (where required) and all			
CA/RCA35T	K3500	K3501	K3502	springs.			
CA/RCA40T*	K4000	_	NA				
CA/RCA45T	K4502	K4503	K4522				
CA/RCA50/62T	K5004	K5000	NA				
CA/RCA76T	K7600	K7601	NA				
Pilot repair kit	K0380	K0384	NA	o-ring, armature assembly, armature spring, ferrule			

^{*} This kit is for discontinued valves.

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOM. SIZE				FLOW		
	mm	in	DIAPHRAGMS	KV	CV	
10	10	3/8	1	2.5	2.9	
35	40	1.5	1	36	42	
45	40	1.5	2	44	51	
50	50	2	2	76	88	
62	62	2.5	2	91	106	
76	76	3	2	144	167	

Pressure Range: 30(5)-860(125) kPa(psi)

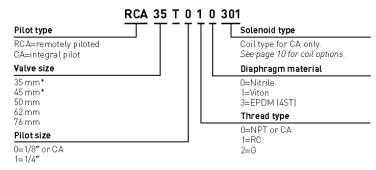
Temperature Range: Nitrile Seals: -40°C (-40°F) to 82°C (179.6°F)

Viton Seals: -29°C (-20.2°F) to 232°C (449.6°F)



PULSE JET VALVES

ORDER CODE



^{*}Note that the 35 & 45 share the same port sizes.

Order Code RCA50T Series

RCA10-6T/645 (1/4 NPT) RCA10-6T/669 (1/4 BSPT)

Examples: CA50T010-300

2" threaded port valve with 2" RC port threads, nitrile seals and 200/240 V AC integral pilot with DIN socket

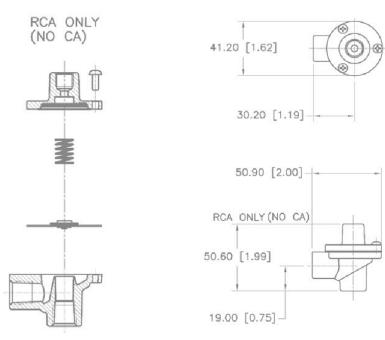
terminals.
RCA50T001

2" threaded port valve with 1/8" NPT remote pilot port, 2" NPT port threads and viton seals.

DIMENSIONS

(Dimensions in mm and [inches])

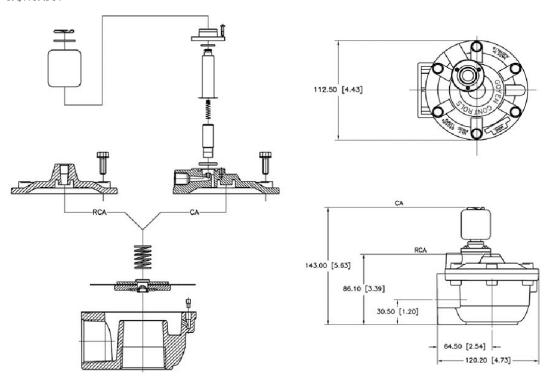
RCA10T



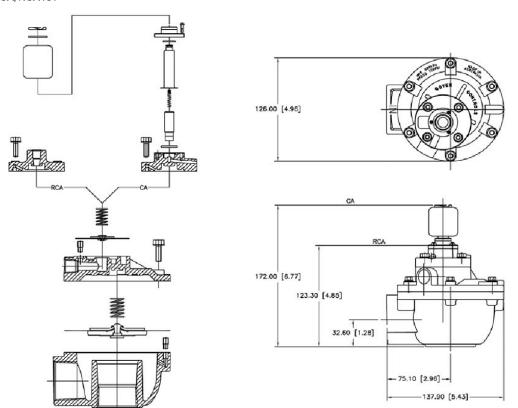


PULSE JET VALVES

CA/RCA35T



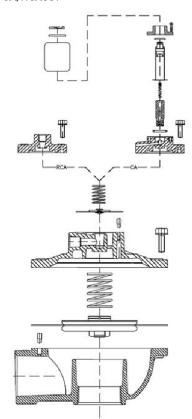


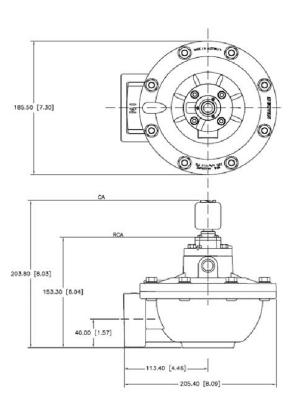




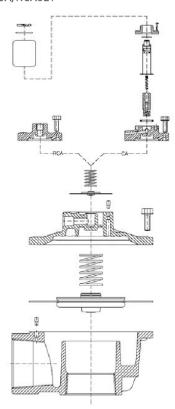
PULSE JET VALVES

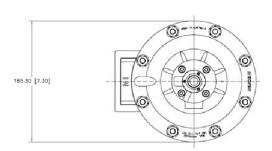
CA/RCA50T

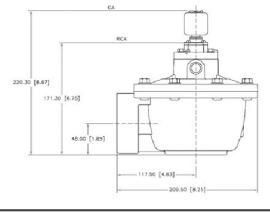




CA/RCA62T



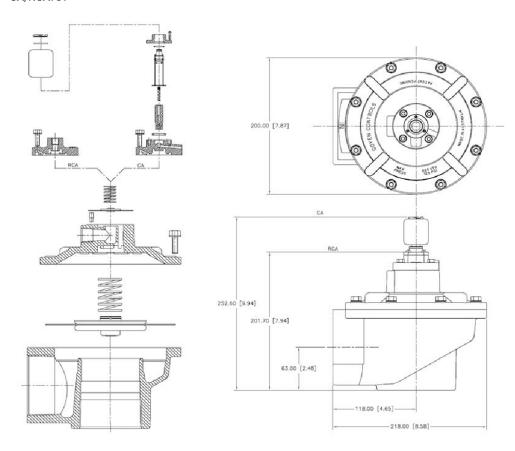






PULSE JET VALVES

CA/RCA76T







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.

- 1. Prepare supply and blowtube pipes* to suit valve specification. Avoid installing valves underneath the
- 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.
- 6. 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

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

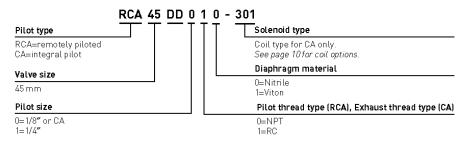


PULSE JET VALVES

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOM. SIZE	PORT	PORT SIZE NUMBER OF				TEMPERATURE RANGE °C °(F)		
	mm	in	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



Examples: CA45DD010-300

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

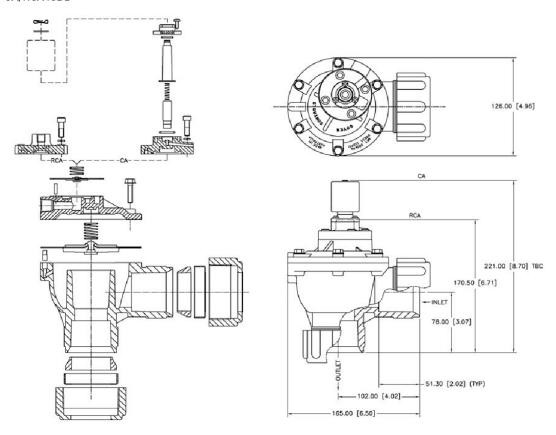
RCA45DD001

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

DIMENSIONS

(Dimensions in mm and [inches])

CA/RCA45DD





PULSE JET VALVES



DESCRIPTION

Very high performance diaphragm valve with flanged inlet port and slide seal outlet port for easy valve installation and removal. 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: Diecast aluminium or 316

stainless steel
Ferrule: 305 SS
Armature: 430FR SS
Seals: Nitrile or Viton
Spring: 304 SS
Screws: 302 or 304 SS

Outlet Slide Seal: EPDM or Viton Diaphragm Seat: PA-66 (standard),

Viton coated mild steel

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

- Prepare inlet flanges 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.
- Mount valves to inlet flange and blowtube to valves with all seals in place. Tighten flange bolts to 10Nm (7.4 ft-lbs) Ensure blowtube is pushed all the way into the valve outlet.

- 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. Where used, refer to DEINC-002 product specification for installation details.

SIZE	0D mm	OD inches
1.5″	48.3	1.900

We recommend Schedule 40 thickness

WEIGHTS

SIZE		REMOTE PILOT (RCA) kg (lb)
45	1.830 (4.03)	1.610 (3.55)

MAINTENANCE KITS

MODEL	NITRILE	VITON	INCLUDES
CA/RCA45FS	K4502	K4503 K4542 (Viton/SS) K4544 (Viton/SS Main Diaphragm only)	Diaphragm kits include main and secondary diaphragms and all springs.
CAC45FS to CA45FS Integral pilot cover conversion kit	K4532(NPT) K4538(RC)	K4537(NPT) K4539(RC)	The complete CA integrally piloted valve cover assembly. Does not include cover bolts or main bleed pin.
RCAC45FS to RCA45FS Remote pilot cover conversion kit	K4533(RC) K4535(NPT)	K4534(RC) K4536(NPT) K4543 (NPT/SS)	The complete RCA remotely piloted valve cover assembly with main diaphragm and spring. Does not include cover bolts or main bleed pin.
Integral pilot repair kit (CA45FS and CAC25FS)	K0380	K0384	O-ring armature assembly, armature spring, terrule.
Integral pilot repair kit (CAC45FS)	K0390	N/A	O-ring armature assembly, armature spring, ferrule.
45FS Outlet seal	G690864	G690864-2	Outlet seal

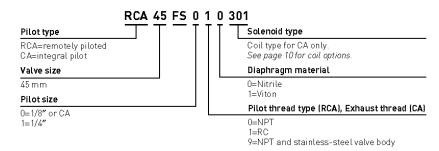


PULSE JET VALVES

PRODUCT CHARACTERISTICS AND PERFORMANCE

NOM. SIZE	PORT	PORT SIZE NUMBER OF		FLOW PRESSURE RANGE		TEMPERATURE RANGE °C °(F)		
	mm	in	DIAPHRAGMS	KV	CV	kPa (psi)	NITRILE SEALS	VITON SEALS
45	40	1.5	2	56	65	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

ORDER CODE



Examples: CA45FS010-300

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

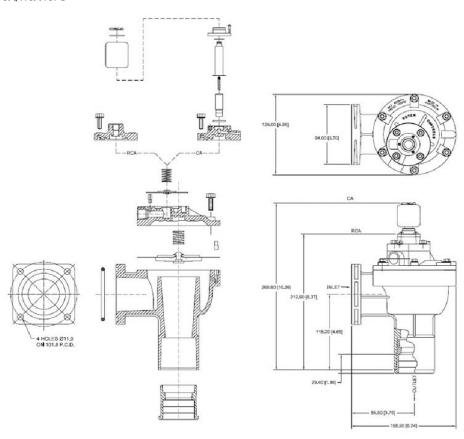
RCAC45F\$091

1.5" FS valve with 1/8" NPT remote pilot port, stainless steel body and valve cover, and viton seals.

DIMENSIONS

(Dimensions in mm and [inches])

CA/RCA45FS





PULSE JET VALVES



MM Series

DESCRIPTION

Very high performance diaphragm valve designed to be mounted directly into the compressed air manifold. 1" and 1.5" models are supplied with outlet pipes to length specified, 3" and 3.5" models are supplied without outlet pipes.

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: Diecast Aluminium

Ferrule: 305 SS Armature: 430FR SS

Diaphragm and Seals: Nitrile or Viton

Spring: 304 SS Screws: 302 or 304 SS

Outlet Pipe: Schedule 40 wrought steel

zinc passivated

Diaphragm Seat: PA-66 (25 & 40MM standard), Nitrile coated mild steel (76MM standard), Acetal (102MM standard) or Viton coated mild steel (all sizes)

Refer to Q Series Solenoid product data sheet for solenoid

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)
- 76MM CRN Alberta, Quebec, Ontario (to 779 kPa/113.1 psi, 76°C/170°F), British Columbia
- 102MM CRN Alberta, Quebec, Ontario (to 76°C/170°F)

INSTALLATION

- MM valves are installed through the tank, refer to the appropriate template listed below.
- To avoid any potential operational problems it is preferable that the valves are not mounted underneath the tank where condensation may collect. All o-rings should be coated with a silicone based lubricant or similar.

- Dresser nut seals where used are a pressure seal only, not a structural component. Do not rely on dresser seals to retain either the tanks or blowtubes. Tanks and blowtubes must be independently restrained.
- 4. Tighten dresser nuts to 20 Nm (15 ftlbs) max.
- 5. Tighten pipe outlets to 20 Nm (15 ftlbs).
- Make electrical connections to solenoid or connect RCA pilot port to pilot valve (RCA valves only).
- 7. Ensure compressed air supply is dry and free from oil and dirt.
- Check all cleaning system components are secure before applying pressure.
- 9. Apply moderate pressure and check for leaks.
- 10. Fully pressurise system.
- 11. Test fire and listen for proper actuation and crisp pulse noises.

WEIGHTS

SIZE	INTEGRAL PILOT (CA) kg (lb)	REMOTE PILOT (RCA) kg (lb)
25	0.720 (1.59)	0.500 (1.10)
40	1.120 (2.47)	0.900 (1.98)
76	3.900 (8.60)	3.680 (8.11)
102	3.900 (8.60)	3.680 (8.11)

MAINTENANCE KITS AND ACCESSORIES

MODEL	NITRILE	VITON	INCLUDES
CA/RCA25MM Diaphragm kit	K2501	K2503	
CA/RCA40MM Diaphragm kit	K4000	K4007	
CA/RCA76MM Diaphragm kit	K7600	K7601	
CA/RCA102MM Diaphragm kit	K10200	K10201	
CA/RCA102MM Diaphragm kit for sultur-rich environments (coal-fired boiler applications)	K10203		
Pilot repair kit (all models)	K0380	K0384	o-ring, armature assembly, armature spring, ferrule
CA/RCA25MM*P Installation template	Drawing 69	90048	Installation templates are available free of charge.
CA/RCA25MM*D Installation template	Drawing 69	90046	
CA/RCA40MM*P Installation template	Drawing 69	90045	
CA/RCA40MM*D Installation template	Drawing 60)9999	
CA/RCA76MM Installation template	Drawing 69 and 69005		
CA/RCA102MM Installation template	Drawing 69 and 691056		Suitable for 102MM hose



PULSE JET VALVES

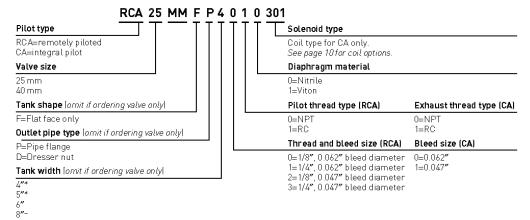
PRODUCT CHARACTERISTICS AND PERFORMANCE

NOM. SIZE	POR	T SIZE	NUMBER OF	FL	0 W	PRESSURE RANGE*	TEMPERATURE	RANGE °C °(F)*
	mm	in	DIAPHRAGMS	KV	CV	kPa (psi)	NITRILE SEALS	VITON SEALS
25	25	1	1	26	30	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
40	40	1.5	2	44	51	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
76	76	3	2	200	233	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
102	102	3.5	2	238	277	30(5)-860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

* Unless limited by CRN.

ORDER CODE

1" and 1.5" Models



 $^{*25\,\}mathrm{mm}$ only, $^\dagger40\,\mathrm{mm}$ only

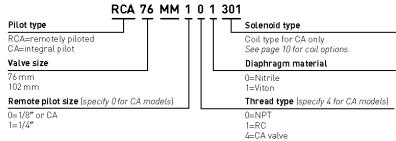
Examples: CA40MMFD6000-300

 1.5° MM valve to suit a foil flat-faced tank with a dresser nut outlet, NPT exhaust port, $\emptyset 0.062^{\circ}$ bleed, nitrile seals and $220/240\,\text{V}$ AC integral pilot with DIN socket terminals.

RCA25MM001

1 $^{''}$ MM valve only, $\frac{1}{8}$ $^{''}$ NPT remote pilot, $\emptyset 0.062$ $^{''}$ bleed and viton seals.

3" and 3.5" Models



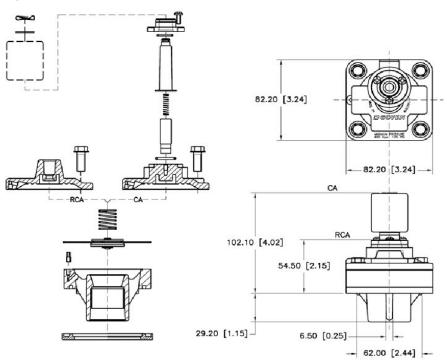


PULSE JET VALVES

DIMENSIONS

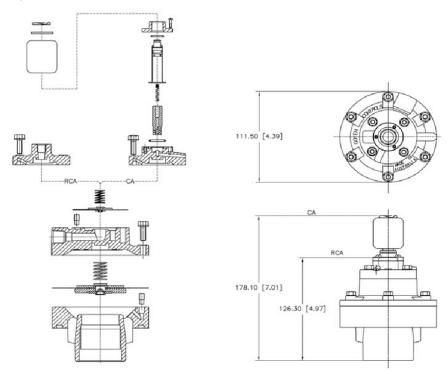
(Dimensions in mm and [inches])

CA/RCA25MM



Note: Pipe outlet not shown

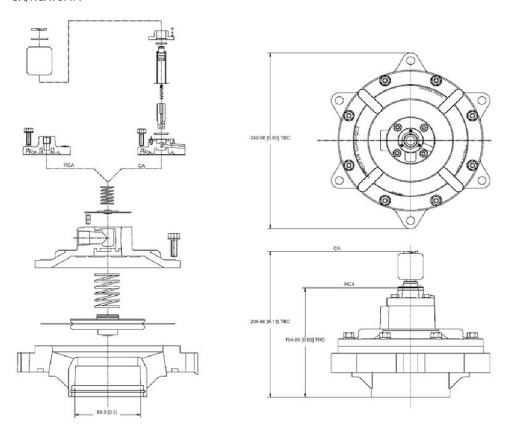
CA/RCA40MM





PULSE JET VALVES

CA/RCA76MM

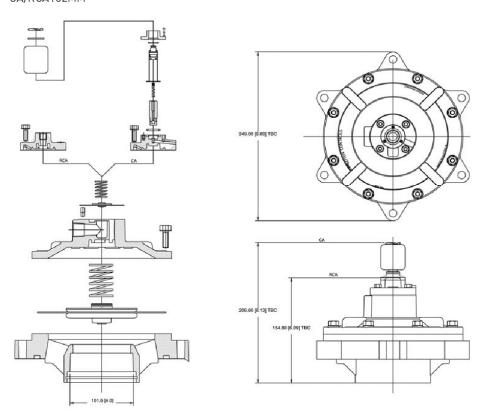


Note: Suggested pipe size is 3" NB Schedule 40 pipe (OD=89.0 mm, 3.5")



PULSE JET VALVES

CA/RCA102MM



Note: Suggested pipe size is 3.5" NB Schedule 30 pipe (OD=101.6 mm, 4")

PULSE JET VALVES



DESCRIPTION

The 3" CA76MR, RCA76MR and the 2.5" CA62MR and RCA62MR pulse jet valves are designed for direct mounting to nominal 12" diameter cylindrical manifolds. The 40MMR is designed for nominal 6" diameter manifolds. The 62MR,76MR and 40MMR valves deliver very high flow performance and are suited to reverse pulse jet dust collector applications for a wide range of installations. The MR range is built to an exceptional quality standard and is supported by dedicated and experienced applications engineers.

SUITABLE FOR

Mounting to 12" nominal diameter pipe schedule steel or stainless steel manifolds in dust collector applications in reverse pulse jet filter cleaning. Typical applications include bag filters, cartridge filters, envelope filters, ceramic filters and sintered metal fibre filters.

The MR Series valves are available for purchase in three configurations – as a stand-alone valve, with an outlet pipe, or assembled to a manifold as part of a complete filter cleaning solution.

CONSTRUCTION AND SPECIFICATIONS

Body and top cover: Die-cast

Aluminium Ferrule: 305 SS Armature: 430FR SS

Diaphragm and seals: Nitrile or Viton

Spring: 304 SS

Screws: 302 SS and 304 SS

Outlet pipe: Schedule 40 wrought steel with surface protection (other materials on request)

Diaphragm Seat: Nitrile encapsulated mild steel or Viton encapsulated mild steel

INSTALLATION

- 1. The valves are installed through the tank.
- To avoid any potential operational problems it is preferable that the valves are not mounted underneath the tank where condensation may collect. All o-rings should be coated with a silicone based lubricant or similar.
- 3. Tighten pipe outlets to 340 Nm (251 ft-lbs).

- Make electrical connections to solenoid or connect RCA pilot port to pilot valve (RCA valves only).
- 5. Ensure compressed air supply is dry and free from oil and dirt.
- Check all cleaning system components are secure before applying pressure.
- 7. Apply moderate pressure and check for leaks.
- 8. Fully pressurise system.
- 9. Test fire and listen for proper actuation and crisp pulse noises.

Note:

Minimum valve-to-valve separation distance must be considered with due regard to the applicable pressure vessel design code (e.g. ASME, PED) and the required tank pressure rating.

WEIGHTS

SIZE	INTEGRAL PILOT (CA) kg (lb)	REMOTE PILOT (RCA) kg (lb)
76MR	4.27 kg (9.41 lb)	4.05 kg (8.93 lb)
62MR	4.58 kg (9.41 lb)	4.36 kg (8.93 lb)
40MMR	1.63 kg (3.59 lb)	1.41 kg (3.11 lb)

PRODUCT CHARACTERISTICS AND PERFORMANCE

SIZE	FLOW	PRESSURE RANGE	TEMPERATURE RANGE °C (°F)*					
	KV (CV)	kPa (psi)*	NITRILE SEALS	VITON SEALS				
76MR	200 (233)	30 kPa/5 psi to 860 kPa/125 psi	-40°C (-40°F) to 82°C (179.6°F).	-29°C (-20.2°F) to 232°C (449.6°F).				
62MR	150.7 (175.2)	30 kPa/5 psi to 860 kPa/125 psi	-40°C (-40°F) to 82°C (179.6°F).	-29°C (-20.2°F) to 232°C (449.6°F).				
40MMR	150.7 (175.2)	30 kPa/5 psi to 860 kPa/125 psi	-40°C (-40°F) to 82°C (179.6°F).	-29°C (-20.2°F) to 232°C (449.6°F).				

* Unless limited by CRN.

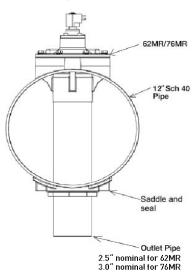
APPROVALS

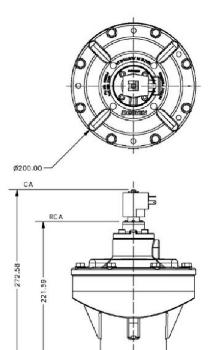
• 76MR CRN - Alberta (to 632 kPa/91.1 psi, 80°C/176°F)

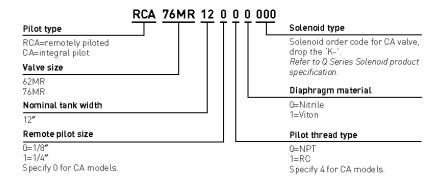


PULSE JET VALVES WITHOUT MANIFOLD

62MR/76MR CONFIGURATIONS WITH OUTLET PIPE, WITHOUT MANIFOLD







OPERATION

Recommended on-time range: 50 to 500 ms.

Recommended time between pulses: 1 minute or greater.

MAINTENANCE

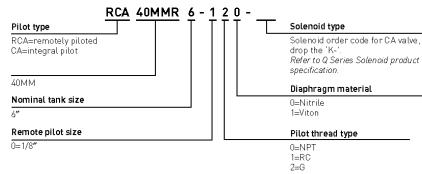
Before conducting any maintenance activity on the system ensure that components are fully isolated from pressure and power supplies. Pressure and power should not be reapplied until the valve has been fully assembled. Diaphragm and pilot inspection should be conducted annually.

MAINTENANCE KITS

	NITRILE	VITON
CA/RCA76MR Diaphragm Kit	K7600	K7601
Pilot Repair Kit for all models	K0380	K0384
CA/RCA62MR Diaphragm Kit	K7604	K7602

- Diaphragm kits include main and secondary diaphragms and all diaphragm springs.
- Pilot repair kit includes O-ring, armature assembly, armature spring and ferrule.

TYPE	NOMINAL		PRESSURER	ANGE (BAR)	COIL	KV	CV
	PORT SIZE	DIAPH	min	max			
CA62MR	2.5"	2	0.3	8.6	YES	150.7	175.2
RCA62MR	2.5"	2	0.3	8.6	NO	150.7	175.2



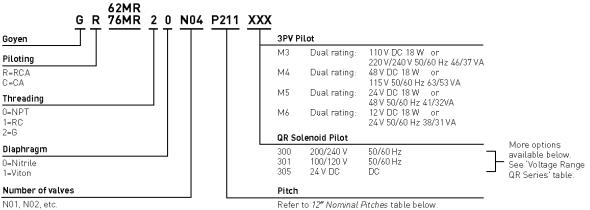


PULSE JET VALVES WITH MANIFOLD

INFORMATION WHEN ORDERING 62/76MR COMPLETE WITH MANIFOLD



ORDER CODE



TANK TEMPERATURE & PRESSURE RANGES					
Carbon steel	-40°C to 110°C	-40°F to 230°F			
Stainless steel	−50°C to 93°C	−58°F to 199°F			
Pressure range	100 kPa to 800 kPa	14.5 psi to 116 psi			

CERTIFICATIONS



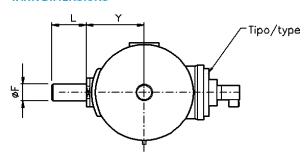


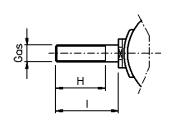
12" MINIMAL PITCH DISTANCES						
HEADER MATERIAL CALCULATION STANDARD WALL	CARBON STEEL ASME 6.35 mm	CARBON STEEL ASME 7.14 mm	STAINLESS STEEL ASME/PED AT TEMPERATURE DESIGN 70°C 4.57 mm			
400 kPa	203 mm/8"	203 mm/8"	203 mm/8"			
500 kPa	203 mm/8"	203 mm/8"	214 mm/8.4"			
600 kPa	210 mm/8.3"	205 mm/8.1"	227 mm/8.9"			
700 kPa	215 mm/8.5"	210 mm/8.3"	240 mm/9.4"			
800 kPa	225 mm/8.9"	215 mm/8.5"	257 mm/10"			
860 kPa	230 mm/9.1"	220 mm/8.7"	268 mm/11"			



PULSE JET VALVES WITH MANIFOLD

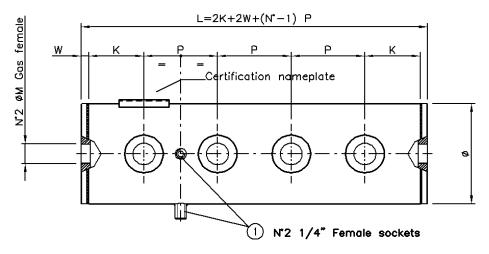
TANK DIMENSIONS





Valve Blowpipe

Ø TANK	ØF	Υ	SHORT UNTHREADED	L	LONG UNTHREADED	L	LONG THREADED	Ø G GAS	Н	1
DN12"	88.9	187 mm/ 7.4"	TS520	80 mm/ 3.1"	TL520	140 mm/ 5.5"	TF520	2.5"	130 mm/ 5.1"	140 mm/ 5.5"



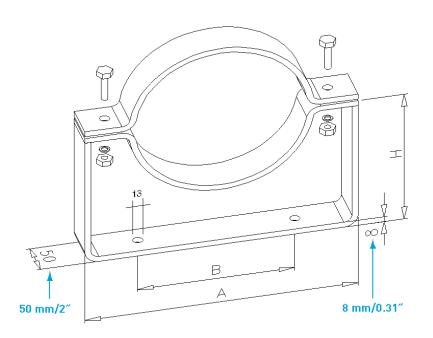
Ø TANK	Ø VALVE	P MIN.	K MIN.	w	ØМ
DN12"	2.5"	205 mm*/8.1"	130 mm/5.1"	25 mm/0.98"	2"

^{*} Refer to 12" Nominal Pitches table above.

TO BE COMPLETED BY CUSTOMER					
P DISTANCE REQUIRED	N NUMBER OF VALVES	K OPTIONAL			



PULSE JET VALVES WITH MANIFOLD



BRACKET DIMENSIONS						
DN TANK	TYPE OF BRACKET	Α	В	Н		
	TH12	490 mm/19"	300 mm/12"	340 mm/13"		
12" (323, 9)	TM12	490 mm/19"	300 mm/12"	288 mm/11"		
(020, 7)	TB12	490 mm/19"	300 mm/12"	234 mm/9.2"		

