

THREADED VALVES

GOYEN - T SERIES

THREADED VALVES

PRODUCT LEAFLET



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 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)

WEIGHTS

| SIZE | INTEGRAL PILOT (CA) KG (LB) | REMOTE PILOT (RCA) KG (LB) | SIZE | INTEGRAL PILOT (CA) KG (LB) | INTEGRAL PILOT (CA) 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

| MODEL | NITRILE | VITON | LOW TEMPERATURE -60°C (-76°F) MIN. | INCLUDES |
|------------------|---------|-------|---------------------------------------|--|
| RCA10-6T | K1001 | K1002 | NA | Diaphragm kits include main and secondary diaphragms (where required) and all springs. |
| CA/RCA35T | K3500 | K3501 | K3502 | |
| 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 |

PRODUCT CHARACTERISTICS AND PERFORMANCE

| SIZE | NOMINAL PORT SIZE | | NUMBER OF DIAPHRAGMS | FLOW | |
|------|-------------------|------|-------------------------|------|-----|
| | MM | INCH | | KV | CV |
| 10 | 6 | 1/4 | 1 | 2.5 | 2.9 |
| 35 | 40 | 1.5 | 1 | 35 | 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)

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PRODUCT LEAFLET

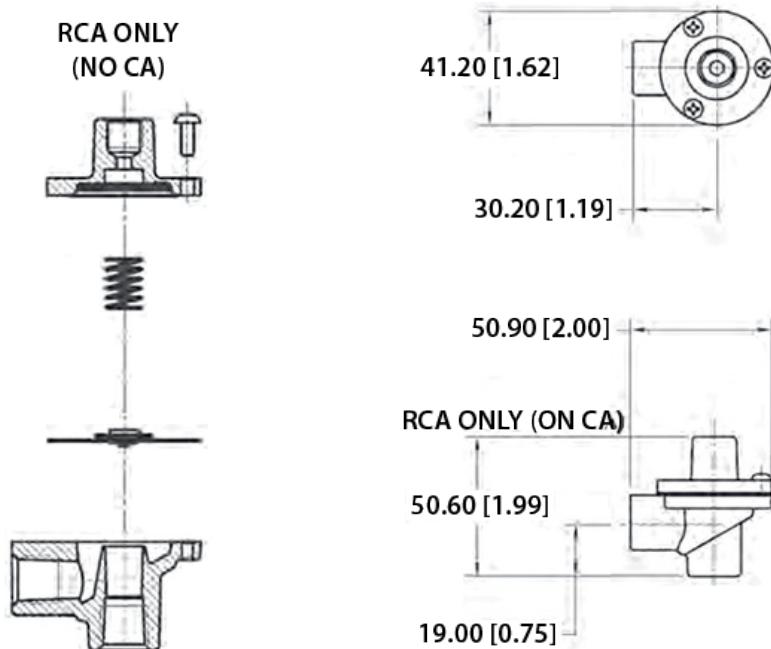
ORDER CODE

| RCA 35 T 0 1 0 301 | |
|---|--|
| Pilot type | |
| RCA=remotely piloted | |
| CA=integral pilot | |
| Valve size | |
| 35 mm* | |
| 45 mm* | |
| 50mm | |
| 62mm | |
| 76mm | |
| Pilot size | |
| 0=1/8" or CA | |
| 1=1/4" (Not available on 35T) | |
| Solenoid type | |
| Coil type for CA only. | |
| See the RCA3 Solenoid Pilot Valves brochure for coil options. | |
| Diaphragm material | |
| 0=Nitrile | |
| 1=Viton | |
| 3=EPDM (4ST) | |
| Thread type | |
| 0=NPT or CA | |
| 1=RC | |
| 2=G | |

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

DIMENSIONS IN MM (AND INCHES)

RCA10-6T



ORDER CODE RCA10-6T SERIES

RCA10-6T/645 (1/4" NPT IN/OUT port, 1/8" NPT pilot port)
 RCA10-6T/669 (1/4" RC IN/OUT port, 1/8" RC pilot port)

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

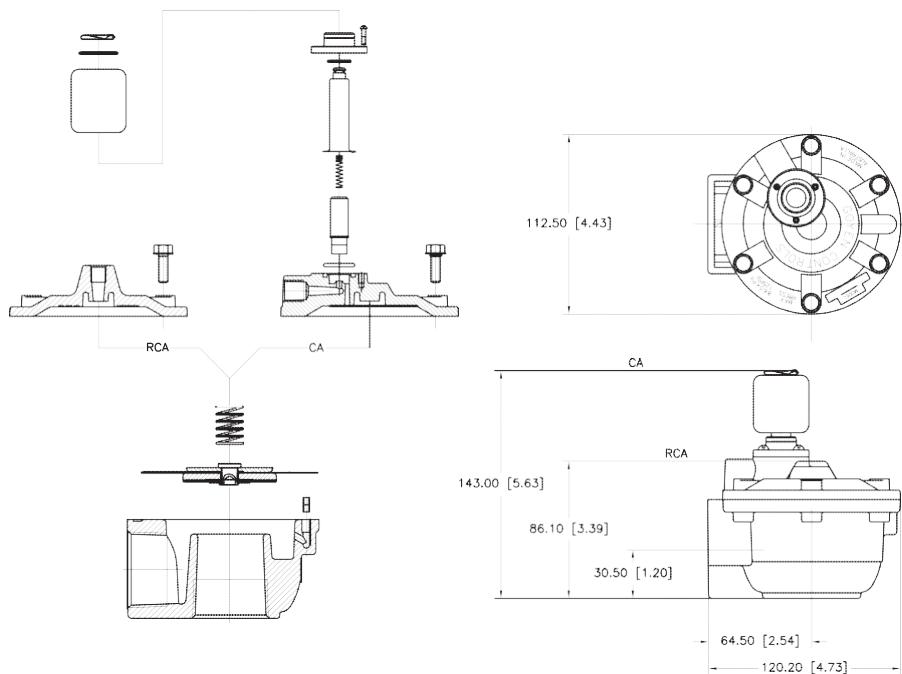
2" threaded port valve with 1/8" NPT remote pilot port, 2" NPT port threads and viton seals.

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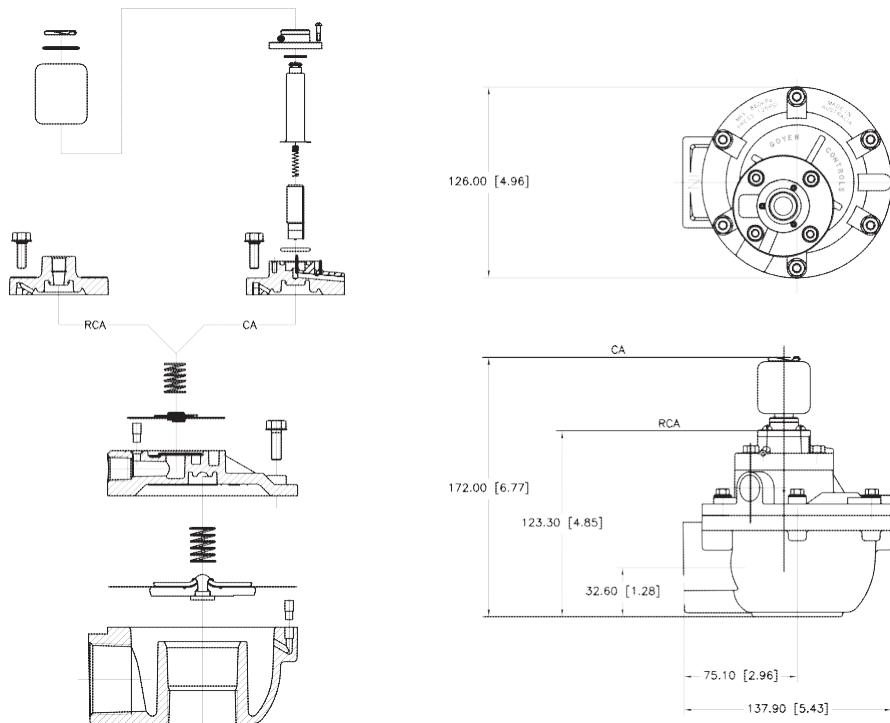
THREADED VALVES

PRODUCT LEAFLET

CA/RCA35T



CA/RCA45T

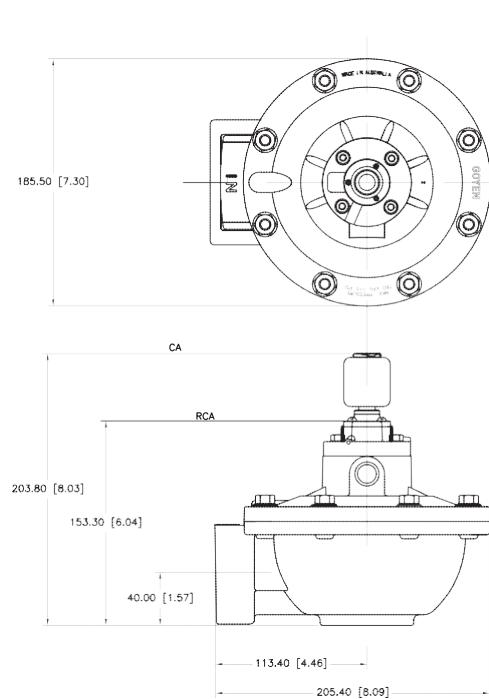
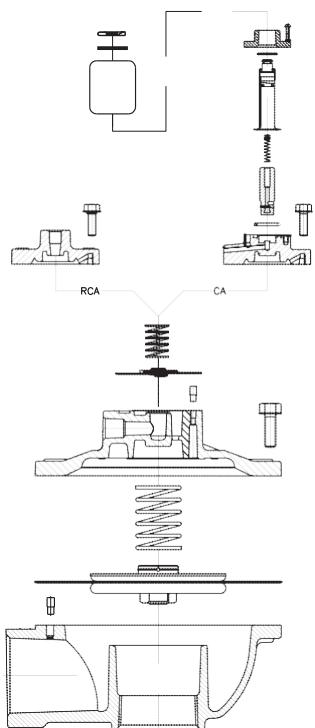


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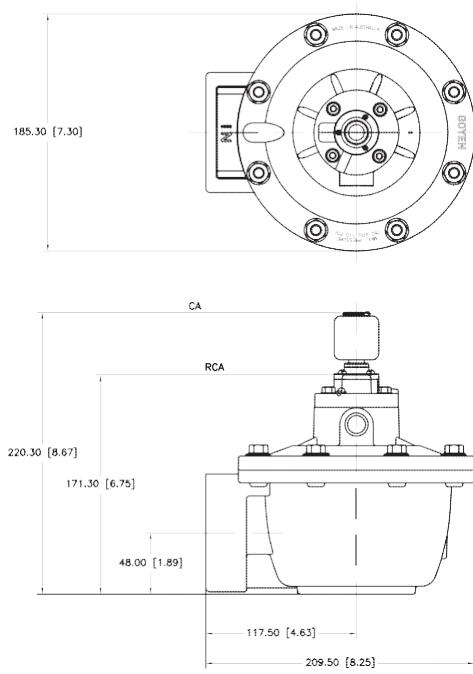
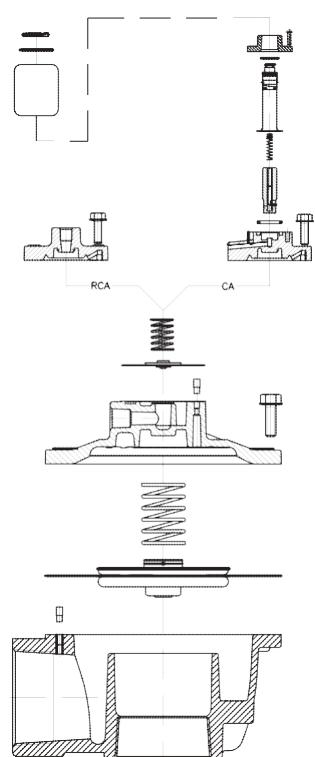
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CA/RCA50T



CA/RCA62T

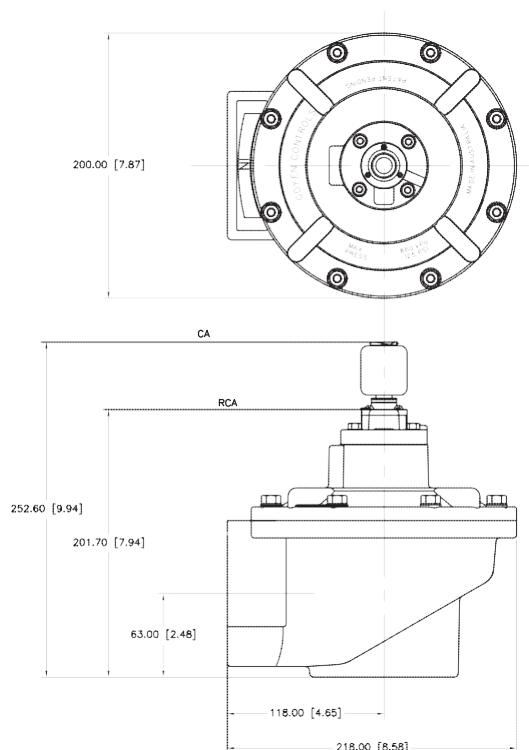
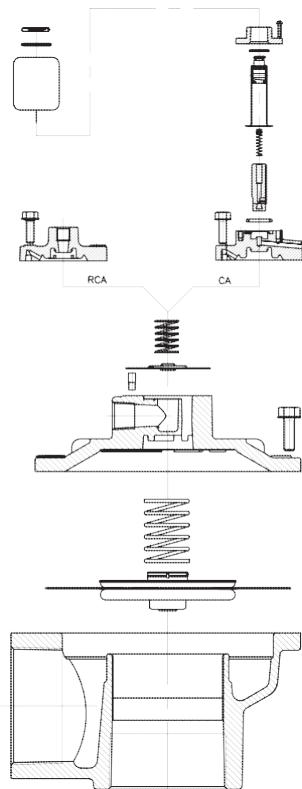


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CA/RCA76T



GOYEN - T SERIES

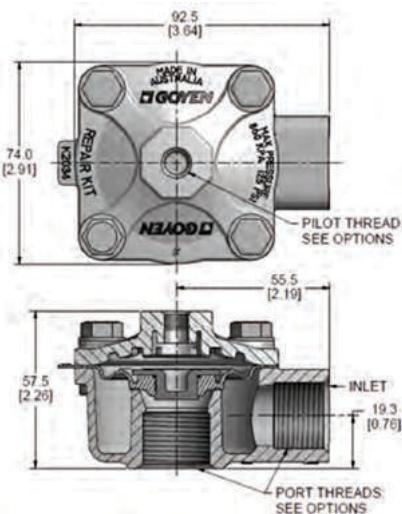
THREADED VALVES

PRODUCT LEAFLET

RCAC20T4 - REVERSE PULSE JET VALVES



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 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 |
|------|-------|-----------|
| 3/4" | 26.67 | 1.05 |

WEIGHTS

| VALVE | KG (LB) |
|----------|-------------|
| RCAC20T4 | 0.31 (0.68) |

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 |
| 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

RCAC20T4012
 3/4" RC threaded 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 RCAC20T4 meets the requirements of the European Low Voltage Directive 2006/95/EC, when fitted with the RCA3PV pilot.

MAINTENANCE KITS

| MODEL | SHOCKWAVE | VITON |
|---------------|-----------|-------|
| DIAPHRAGM KIT | | |
| RCAC20T4 | K2034 | K2033 |

ORDER CODE

| | | | |
|--------------------|---|---|---|
| RCAC20T4 | 0 | 1 | 2 |
| Pilot size | | | |
| 0=1/8" | | | |
| 1=1/4" | | | |
| Diaphragm material | | | |
| 1=Viton | | | |
| 2=Shockwave | | | |
| Thread type | | | |
| 0=NPT | | | |
| 1=RC | | | |
| 2=G | | | |

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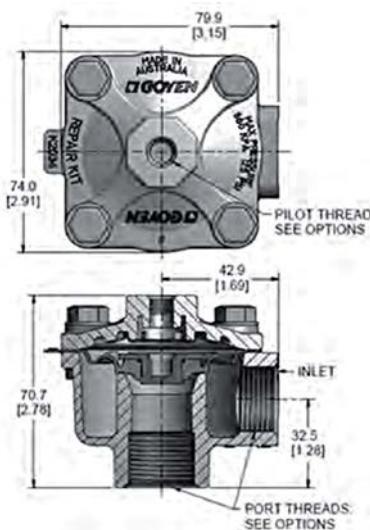
THREADED VALVES

PRODUCT LEAFLET

RCAC20ST4 - REVERSE PULSE JET VALVES



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.

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 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 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) |

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 |
| 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

RCAC20ST4012
 3/4" RC Short threaded valve with 1/8" RC pilot, 4/3" RC port 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

| | | | |
|--------------------|---|---|---|
| RCAC20ST4 | 0 | 1 | 2 |
| Pilot size | | | |
| 0=1/8" | | | |
| 1=1/4" | | | |
| Diaphragm material | | | |
| 1=Viton | | | |
| 2=Shockwave | | | |
| Thread type | | | |
| 0=NPT | | | |
| 1=RC | | | |
| 2=G | | | |

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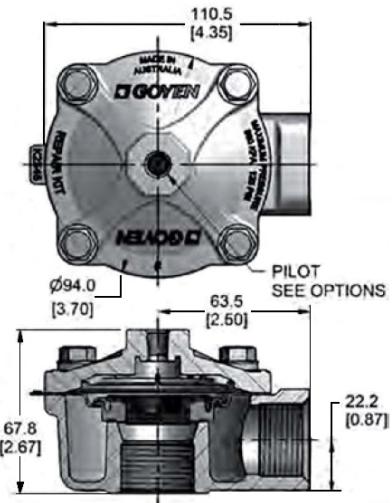
THREADED VALVES

PRODUCT LEAFLET

RCAC25T4 - REVERSE PULSE JET VALVES



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 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 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) |

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 | 24 | 27 | 30(5) to 860(125) | -40(-40) to 82(179.6) | -29(-20.2) to 232(449.6) |

EXAMPLES

RCAC25T4012
1" RC threaded port valve with 1/8" 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.

ORDER CODE

| | | | |
|--------------------|---|---|---|
| RCAC25T4 | 0 | 1 | 2 |
| Pilot size | | | |
| 0=1/8" | | | |
| 1=1/4" | | | |
| Diaphragm material | | | |
| 1=Viton | | | |
| 2=Shockwave | | | |
| Thread type | | | |
| 0=NPT | | | |
| 1=RC | | | |
| 2=G | | | |



GOYEN - T SERIES

THREADED VALVES

PRODUCT LEAFLET

DIAPHRAGM SERVICE KITS FOR DELETED VALVES

Maintenance kits

| MODEL | NITRILE | VITON | LOW TEMPERATURE -60°C (-76°F) MIN. | INCLUDES |
|-----------|---------|-------|------------------------------------|--|
| CA/RCA20T | K2000 | K2007 | NA | Diaphragm kits include main and secondary diaphragms (where required) and all springs. |
| CA/RCA25T | K2501 | K2503 | K2504 | |
| CA/RCA32T | K2500 | NA | NA | |
| CA/RCA40T | K4000 | NA | NA | |



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Note: We are engineering partner as a total system solution provider. GOYEN manufactures a range of components to ensure cost effective and reliable cleaning system design, installation and operation within a reverse pulse filter. Within a reverse pulse filter the overall cleaning efficiency and long term performance of the bags or cartridges are critically dependent upon to control of the cleaning air into the individual filter bag or cartridge. GOYEN products are produced to exacting tolerances and quality standards to ensure their effectiveness within any reverse pulse filter. As a comprehensive solution provider, We have great quality control procedures. The calculate various system designs and can work together perfectly. Finally we are fully committed to maintaining environment quality together.

GOYEN CONTROLS PTY LIMITED, AUSTRALIA

Note: The information and data contained in this document are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide a guideline for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing industrial property rights must be observed.

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