

Technical Specification



Description

Superior performance, easy maintenance diaphragm valve available with threaded ports (T3), dresser nut ports (DD3) or flange and slide ports (FS3). Outlet at 90° to inlet. 3 Series valves are available as remote pilot valves and may be converted to integral pilot applications through the use of the screw in pilots of the MIP and 3DS series.

Suitable for

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

Construction

Body: Aluminium (diecast) Seals: Nitrile or Viton (diaphragms reinforced) Spring: 304 SS Diaphragm Seat: PA-6 (standard), Viton coated mild steel

Operation

Recommended on time range: 50-500ms 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 (US) C22.2 No 139-1982, UL 429 (CA & RCA)

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 type and specification. Avoid installing valves underneath the tank.
- Ensure tank and pipes are free from dirt, rust or other particulate. 2.
- 3. Ensure supply air is clean and dry.
- 4. Mount valves to inlet pipes (or flanges, tighten bolts to 10Nm) and blowtube to valves, ensuring no excess thread sealant can enter the valve itself. Ensure blowtube is fully inserted into the valve outlet.
- 5. Tanks and pipes must be independently restrained from FS and DD valves.
- 6. Connect RCAC pilot port to remote pilot valve, or install MIP/3DS screw in pilot valve.
- 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. Refer to Camlock product specifications for installation details.

,	*Pipes must be to Schedule 40 outside diameter							
	Schedule 40 Size	OD mm	OD Inches					
	3⁄4''	26.7	1.050					
	1"	33.4	1 315					

Weights

Remote Pilot (RCAC)	Size	Remote Pilot (RCAC)
Kg (IDS)		Kg (lbs)
0.55 (1.21)	25T3	0.65 (1.43)
0.55 (1.21)	25DD3	1.05 (2.32)
0.55 (1.21)	25FS3	0.95 (2.08)
0.55 (1.21)		
	Kg (lbs) 0.55 (1.21) 0.55 (1.21) 0.55 (1.21)	Kg (lbs) 0.55 (1.21) 25T3 0.55 (1.21) 25DD3 0.55 (1.21) 25FS3

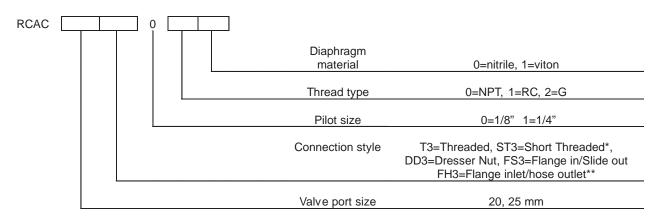
Maintenance Kits and Accessories

Includes
Diaphragm kits include main
diaphragm, spring, and locking pin.
Nut, seal, and seal
retaining ring.
Nut, seal, and seal
retaining ring.
-2 Outlet seal
-2 Outlet seal
-2 Wall seal
Flange adaptor to mount FS
valves to round tanks.
Eliminates welding. Refer to Camlock product specification.
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Product Characteristics and Performance

Model	Port S	Size	Number of	Flo	w	Pressure Range	Temperature	Range °C °(F)
	mm	in	diaphragms	Kv	Cv	kPA(Psi)	Nitrile Seals	Viton Seals
20T3	20	3⁄4"	1	14	17	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
20ST3	20	3⁄4"	1	14	17	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
20DD3	20	3⁄4"	1	14	17	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
20FS3	20	3⁄4"	1	19	22	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
25T3	25	1"	1	24	27	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
25DD3	25	1"	1	24	27	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)
25FS3	25	1"	1	34	40	30(5) - 860(125)	-40(-40) to 82(179.6)	-29(-20.2) to 232(449.6)

Order Code



*Available for 20 (3/4") size only. **Available for 25 (1") size only.

Examples: RCAC25T3010

1" threaded port valve with 1/8" pilot, 1" RC port threads, nitrile seals.

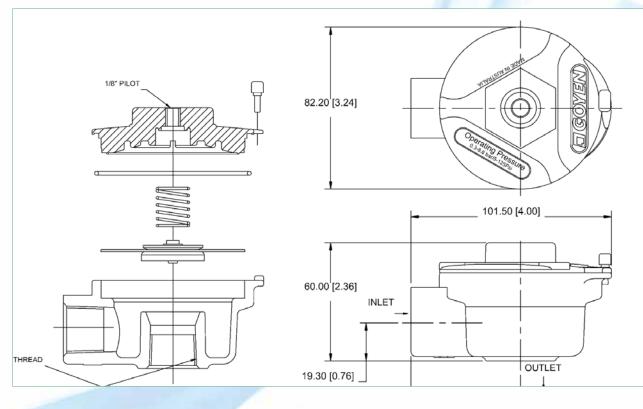
RCAC20FS3001

3/4" flange inlet slide seal outlet port valve with 1/8" NPT remote pilot port and viton seals.

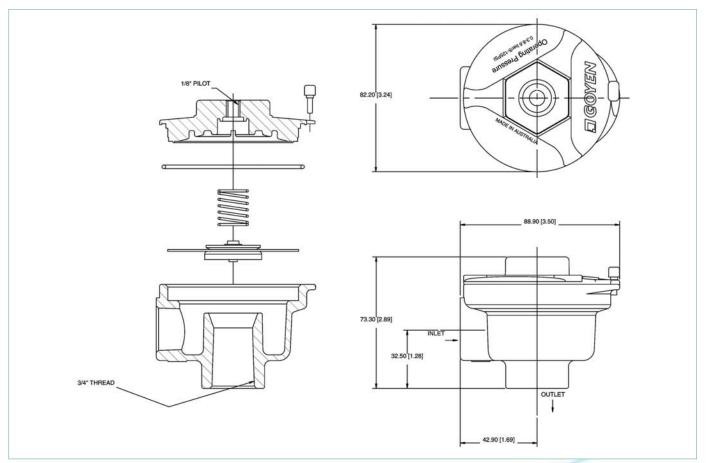
Dimensions

(Dimensions in mm and [inches])

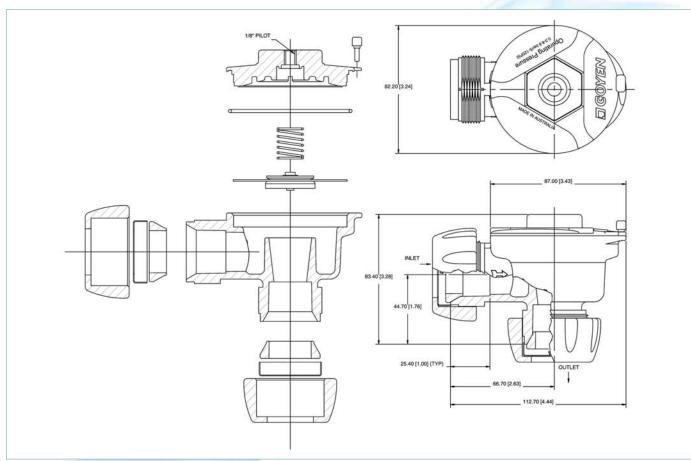
RCAC20T3



RCAC20ST3

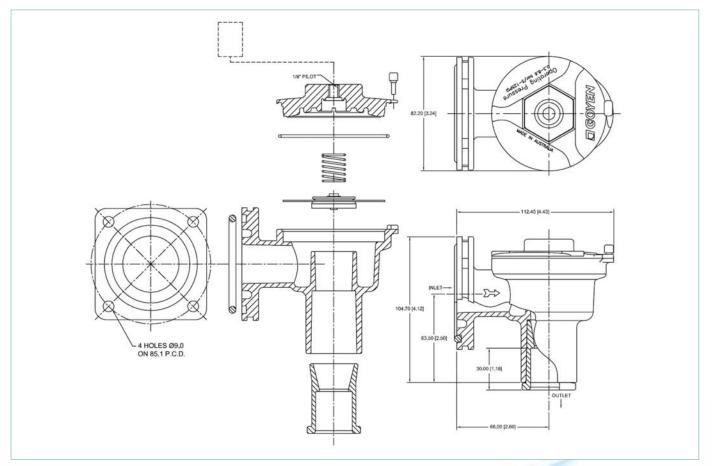


RCAC20DD3

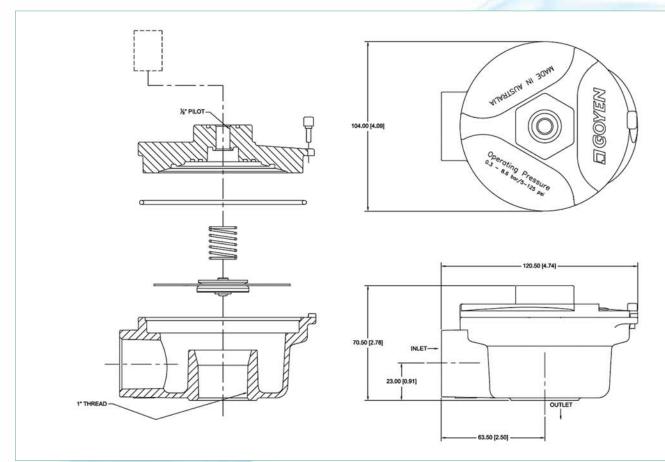


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RCAC20FS3

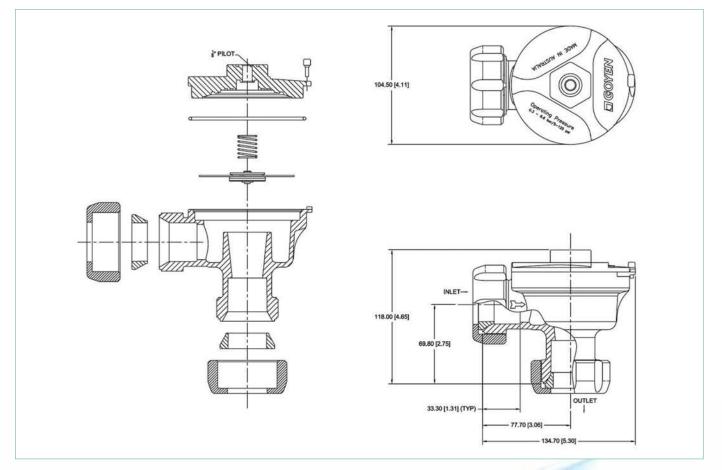


RCAC25T3

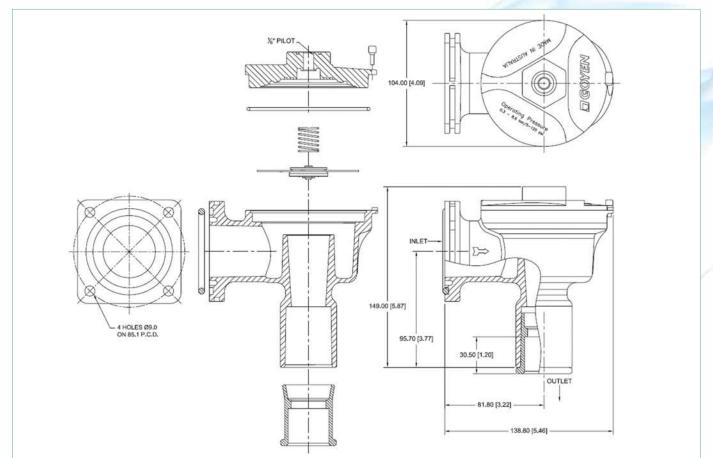


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RCAC25DD3



RCAC25FS3



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