

OPERATING GUIDE

DD Series

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INSTALLATION

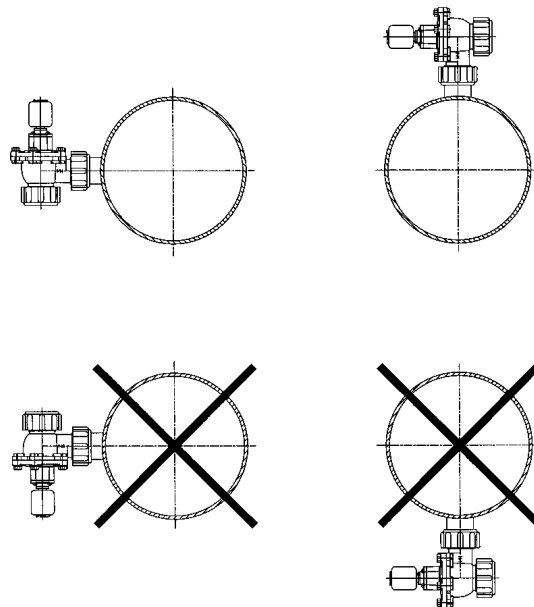
Mechanical Installation

The DD valves series valves allow the valve to be directly installed onto the inlet and outlet pipes without additional flange or pipe threads. Installation is achieved through compression nuts that provide an airtight seal. Valve must be independently restrained. These valves offer the same high performance as the "T" series valve with the same right angle construction.

The valves may be operated either by integral pilot solenoid (CA models) or remote pilot solenoids (RCA models)

Typical Inlet Installation

The flange mount of the valve may be oriented to the pressure vessel as illustrated below.



Never mount the valve on the underside of the header or upside-down as this allows the accumulation of moisture in the valve, which is detrimental to performance

Electrical Installation

To operate these main valve assemblies:

- RCA versions should use Goyen pilot solenoid RCA3D, which can be electrically operated in a remote location.
- CA versions are directly mounted with pilot operator.

** Refer to "Drawing Download" section for complete drawings and CAD downloads.*

OPERATION

Operating Pressure Range

All DD Valves

Maximum operating pressure 860 kPa (125 psi)

Recommended operating pressure 760 kPa (110 psi)

Minimum operating pressure 30 kPa (5 psi)

Electrical Pulse times

Coils

Electrical "on time" ranges between 50 m sec to 500 m sec

Start-up Procedure

For correct installation of GOYEN DD series valves ensure the following checks are satisfied:

- ensure valves are fully secured in position
- ensure dresser nuts are tightened to - 20nm (15 ft/lbs)
- ensure blowtube is secured adequately to the valve outlet and reverse pulse filter wall.
- the required air pressure has been applied to the header tank, ensuring compressed air is dry and free of particulates.
- all joints around the valve installation do not leak air.
- check the electrical connection at the remote pilot solenoid valve or on board the valve.
- check valve exhaust outlet for adequate venting and noise suppression. in case of turbine applications, protection against particulate / vermin inclusions should be incorporated.
- switch electrical control to continuous cycle and observe for several operating cycles. check for the correct valve opening sequence.

Fault Finding & Diagnostics

DD valve fails to open:

- Check electrical signal to RCA or CA operator coil
- Check for adequate air pressure and that it is present at inlet of the valve.
- Check exhausts are free from obstructions

DD valve has resonance noise evident.

- Check excessive silencer restriction in exhaust outlets
- Check partial blockages of bleed paths
- Check supply header capacity

DD valve fails to close

- Check that pilot is closing
- Check for blockages of bleed path
- Check for diaphragm damage either in the membrane or seat

PRODUCT MAINTENANCE

Schedule maintenance should be applied, however it is recommended that full inspection be carried out within 2 years of service life.

SPARE PARTS

RCA/CA operator kit	K0380
Standard Coil kits	Refer Coil Options
Diaphragm kits:	
RCA/CA20DD	k2000 Standard
	K2007 Viton
RCA/CA25DD	K2501 Standard
	K2503 Viton
RCA/CA45DD	K4502 Standard
	K4503