

### Controls Ltd.

### **Product Manual**

#### **OPERATION**

The CVS 4057 3-Way Valves features modular construction and incorporates a sliding spool. The standard spool has a small center dead spot position and no valve port overlap. With the spool in the unlatched (rest position) as shown in the diagrams, Port 2 is open to Port 3 and Port 1 is closed. With the spool in the latched (actuated position), Port 2 is open to Port 1, and Port 3 is closed.

CVS offers two types of 4057 3-way valves:

**CG:** Pressure operated spring return **CP:** Manual latch or pressure operated with spring return

### SPECIFICATIONS

Body Material: Precision cast aluminum Standard Spool Material: Aluminum Standard Seal Material: Buna

Maximum Temperature: - 40°C ~ 120°C (- 40°F ~ 250°F)

Flow Coefficient (equivalent to 9/32 dia. Port): Cv = 1.2

Maximum Pressure at Ports 1, 2, or 3: \*125psi (860 kPa)

Net Weight:  $0.6 \sim 2.0$  lbs.  $(0.3 \sim 0.9 \text{ kg})$  150psi (1034 kPa) if a slight increase in operating force and pressure are acceptable.

#### Type 4057 3-Way Valve





Fig. 1.1 CVS Series 4057 3-Way Valve CGType

#### **FEATURES**

be applied to any port **BALANCED FORCE DESIGN: Pressure can** 

**CENTER DEAD SPOT: Standard** 

MOUNTING ARRANGED FOR PANEL OR BRACKET

HYDRAULIC FLUID CONTROL

**ACTUATOR CONTROL** 

PNEUMATIC PANEL SYSTEMS

## SAFETY CONTROL SYSTEMS

They offer versatility in operating requirements and allowable pressure limits. For a 1/4" size control automatic hydraulic or pneumatic control systems. valve, they offer exceptional flow capacity. The CVS 4057 valve is for use in manual and

hydraulic oils, and many other fluids. natural gas, L.P. gases, petroleum-base lubricants, These valves are suitable for use on clean air,

valve pressure to 125psi. met. Valves are made from precious cast and inspected to ensure that high quality standards are machined aluminum. Standard construction permits Each valve is carefully assembled, tested, and

stroke on loss of pilot pressure. introduction of pilot pressure, and allows the return characteristic for the oil and gas industry. For latch which will automatically drop out upon the instance, the 4057 model CP has a manual reset The CVS 4057 offers a unique and dynamic

#### INSTALLATION

enter the valve. applied so that the threads of the tape do not thread sealing tape may be used but must be sealant to pipe thread connections but do not permit it to enter the valve passage. Teflon 1/4" pipe thread fitting. Apply a quality thread All connections on 4057 Valves are made with

#### IMPORTANT

when Teflon thread sealing tape is used Avoid over tightening fittings on the valve port bosses as they may be cracked, especially

#### MAINTENANCE

spool. Spools on panel mounted valves can be simply removing the end cap and pulling out the disconnecting any piping. removed from in front of the panel without removed. This is done on most versions by To check the seal rings, the valve spool can be

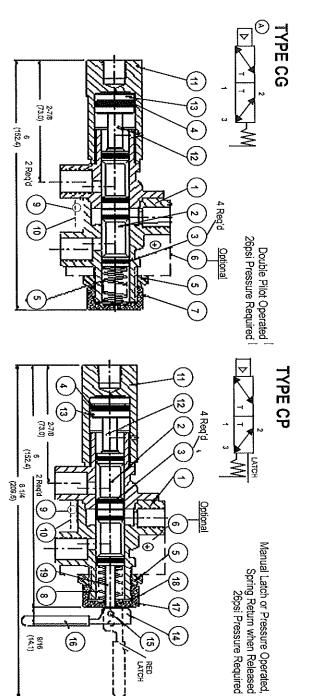
reinstall the piston. and install them. Remove excess grease and grease. Lightly coat the new rings with grease and coat the grooves with Dow Corning No. 55 the old O-rings, thoroughly clean the grooves, To replace O-rings, remove the spool, take off

systems, it is recommended that the system be checked monthly for proper functioning When these valves are used in safety control

ordering service parts always include the always give the Model No. and Serial No. If representative regarding operation of a control, When communicating with CVS sales description, Part No., and quantity desired

\* - denotes recommended spare part

# VALVE TYPE DESCRIPTION TABLE



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Xeī. #	TOIL #	Cescipion
	7909X001 - CG & CP	Body Assembly, NPT, Standard Finish
2	7893 - CG & CP	Spool, Center Dead Spot (Standard)
ω	7896L001 - CG & CP	Seal Ring, Nitrile - (4 Required) *
4	7898L001 - CG & CP	Seal Ring, Buna N (Standard) *
O1	3496 - CG & CP	Nut, Standard Finish
6	5186 - CG & CP	Bracket (Optional)
7	3626L004 - CG & CP	Cap, Standard Finish
8	7154L034 - CG & CP	Spring
9	705L001 - CG & CP	Drive Screw (Optional)
10	7895 - CG & CP	Name Plate
<u></u>	7923L001 - CG & CP	End Cap, NPT, Standard Finish
12	7865L001 - CG & CP	Stem
13	7899 - CG & CP	Piston
14	6492X - CP	Reset Latch Assembly, Standard Finish
15	236L001 - CP	Pin
16	3423 - CP	Latch Protector
17	3626L003 - CP	Cap, Standard Finish
18	6073 - CP	Spacer, Stainless Steel #416 (Standard)
19	6656L001 - CP	Rod

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