Two-Hand Control Valves Specialty Valves



Function of CSV's

Concurrent actuation of the recessed buttons generates a signal. Releasing one or both buttons immediately stops the signal which cannot be re-instituted until both buttons are again actuated concurrently.

Low Stress (LS) models are for high production applications where operator fatigue is a concern. Needing only 6 ounces of force to actuate, LS units ease the stress on worker's hands and wrists and greatly reduce the risk of repetitive motion disorders. Standard models require 18 ounces of force to actuate.

Consult Website for Dimensional Drawings.

CSV-101 & CSV-101LS & CSV-101W



CSV-101 (ACTUATED) 4-WAY POWER VALVE DOUBLE-ACTING CYLINDER

Will actuate any 3 or 4-way air piloted, spring return power valve or small single-acting cylinders. ($C_v=0.11$)

CSV-102 & CSV-102LS & CSV-102W



Complete power package containing a 4-way power valve (C_v =1.00) for direct actuation of single-acting or double acting air cylinders. Actuation sends a sustained air flow to one cylinder port. Releasing one or both buttons shifts the flow to the other cylinder port. Built-in mufflers reduce sound levels.

CSV-103



Converts an air signal into an electrical signal for actuating solenoid valves or other electrical devices. Concurrent actuation of the recessed buttons produces an electrical output. Releasing one or both buttons stops the output. The CSV-103 will not recycle until both triggers are released and again actuated concurrently. Internal switch rated at 15 amps, 480 VAC. Includes lead wire and receptacle.

For Safer Operation of Your Machinery

CSVs are two-hand anti-tiedown controls. When used, they provide safer operation of air presses, drill fixtures, clamping fixtures, cylinders, valves, or light assembly equipment. Models 101, 101LS, 102, 102LS and 103 have compact and completely self-contained controls, recessed actuation buttons built in the ends and a universal mount for convenient positioning. For remote two-hand, anti-tiedown operations, see model CSV-107.

CSV-101W & CSV-102W

CSVs are designed for use in a wash-down environment. The units provide the same pilot and power functionality of the CSV-101 and CSV-102, respectively. The logic circuitry is housed in a fiberglass industrial control panel enclosure, providing excellent chemical and corrosion resistance.

CSV-107 Logic Unit Responds To Remote Signals

CSV-107 is designed to actuate 3 or 4-way air piloted, spring return - power valves or directly power smaller single-acting cylinders. A signal can only be initiated by concurrent actuation from two remote inputs. Releasing one or both buttons immediately stops the signal and the unit cannot recycle until both signals are again simultaneously actuated. ($C_V = 0.11$)



The CSV-107 may be purchased alone or with low stress signal valves (LS1, LS2). For information on Mead Low Stress Valves, which are offered with CSV Low Stress (LS) units, please refer to page 25. Push-to-connect fittings included on all pneumatic models.

Specifications

Model No.	Function	Ports (NPTF)
CSV-101	Actuation of Power Valve	(2) ¹ / ₈ "
CSV-101 W	Actuation of Power Valve	(3) ¹ / ₈ "
CSV-101 LS	CSV-101, With Low Stress Actuation	(2) ¹ / ₈ "
CSV-102	Direct Actuation of Air Cylinder or Air Press	(3) $\frac{1}{4}$ Fittings
CSV-102 W	Direct Actuation of Air Cylinder or Air Press	(6) $\frac{1}{4}$ "Fittings
CSV-102 LS	CSV-102, With Low Stress Actuation	(3) $\frac{1}{4}$ Fittings
CSV-103	Electrical Actuation of Solenoid Valve	(1) ¹ / ₈ "
CSV-107	Remote Logic Unit Only	(3) Fittings
CSV-107 LS1	Logic Unit, (2) LTV-PBG Low Stress Valves	Included for
CSV-107 LS2	Logic Unit, (2) LTV-PBGF Low Stress Valves	°/32 OD Tube

Note: Operating pressure range is 70 - 100 PSI.

Warning: CSV's are intended to operate pneumatic valves and cylinders. They are not meant to be used on full or partial revolution fly wheel presses, power brakes or other similar devices.

Warning: Actuators for CSV-107 must be positioned so that they may not be accidentally tripped or operated in an unsafe manner. Do not actuate CSV-107 with foot operated valves.

Air Presses



^{1/4} Ton Arbor Press Versatile, light-duty press. Single-acting, spring return.



3/4 Ton Column Press Column provides infinitely variable daylight settings and permits radial swing.



³/₄ Ton Arbor Press Heavy-duty cast iron frame is extremely rigid.



1 ³/₄ Ton Arbor Press Welded steel plate frame. Cylinder mount and table are milled to provide precise rod alignment.

Air Presses Automate Tasks

Economical air powered presses reduce production costs by automating crimping, heat sealing, bending, forming, pressing, swaging, riveting and burnishing operations. Easy hook-up. Just attach to your shop air supply. No wiring, pumps, or motors needed.

Single-Acting Air Presses

Besides the AP-42P shown on this page, Mead offers two other single-acting alternatives. AP-122 combines a 4" bore single-acting cylinder (H-122) with the AP-400M press stand. AP-283 combines a 6" bore cylinder(#6030403) with the AP-600M press stand. A PL-600 cylinder-to-stand adapter plate is required for mounting this cylinder on the stand. Full dimensional drawings are given on the following page.

	Description	'/ ₄ Ion Arbor Press	°/₄ Ion Column Press	³ /₄ Ion Arbor Press	1°/ ₄ Ion Arbor Press
2	Press Stand Only	AP-42M	CP-400M	AP-400M	AP-600M
Ľ	Cylinder Mounted On Stand**	AP-42P	CP-400P	AP-400P	AP-600P
	Complete Press with Two Hand	-	CP-400C	AP-400C	AP-600C
Ľo	Controls (Not Piped)				
Ës	Double Rod Option (DR)	NA	٠	٠	•
	Non-Rotating Option (NR)	NA	٠	•	٠
	Specifications				
\ominus	Cylinder Bore (In.)	21/4	4	4	6
	Thrust at 100 PSI (lbs.)	477	1508	1508	3393
	Standard Stroke Length (In.)	2 (Spr. Ret)	4*	$2^{1/2^{*}}$	4*
SURFACE	Table Width and Depth (In.)	3 x 3	$6^{7}/_{8} \times 8^{3}/_{4}$	5 x 5	8 x 8

Note: Standard column for Column Press is 14" long. Longer column (18" max.) is available on request. * Additional stroke available to 4" on AP-400 and to 6" on AP-600. Consult factory.

** Consult website for press hookups.

Press Options

Rod Speed Reduction

To control the downward speed of double-acting presses, place a Mead Dyla-Trol valve (see page 62) in the bottom cylinder port so that incoming air flows freely and exhausting air is metered. Model MF1-25 is suitable for the control of all presses under most conditions.

Two Hand Control Unit



Models with a "C" suffix are supplied with a two hand anti-tiedown unit. Recessed trigger buttons, located in each end of the compact unit, require the press operator to use both hands concurrently to operate the press. Models CP-400C and AP-400C include the

CSV-102, which has a built-in power valve. Model AP-600C includes the CSV-101 and a $1/2^{"}$ power valve (C5-3). All air logic. No electrical wiring. See page 63 for the two hand controls. See pages (22-23) for the power valve.

Double Rod Option (DR)



Double-acting press cylinders may be ordered with the piston rod extending from both ends. This minimizes rod deflection and make it possible to adjust stroke length. When a CP-400 is ordered with double rod, spacers are supplied to facilitate adjustment.

Press Speed Boost



Quick exhaust valves increase rod speed by allowing exhaust air to be dumped right at the cylinder instead of passing back through the directional valve. If speed is to

be increased in both directions on double-acting presses, use one QEV in each port. Use model QEV-3 with 1/4 ton presses and model QEV-2B on 3/4 and 1 3/4 ton models. See page 69 for more information regarding QEVs.