

Far superior in performance when compared to the commonly used poppet type valves, the rugged Series 62 delivers long, trouble-free service.

### FEATURES:

Bray Controls offers the high flow Series 62 solenoid valve featuring a modular, pilot operated spool control valve that is convertible from 4-Way (5/2) to 3-Way (3/2). The 4-Way solenoid valve can be used on direct acting or spring return actuators. It can also be converted to a 3-Way valve for use on spring return actuators with the use of the optional conversion kit. Two standard coil housings/connectors are available;

- The CSA recognized general purpose watertight (NEMA 4, 4x) units with 1/2" NPT connection and flying leads.
- The IP65 DIN units with cable gland and M15 threaded connector.

All housing types are offered with single or dual coils.

### MANUAL OVERRIDE:

As a standard feature, each unit contains a mechanical manual override located on the solenoid valve block. In the event of electrical power failure, manual operation is simply a matter of rotating the manual override screw which will override the solenoid integral pilot.

### DIRECT MOUNTING:

Meets NAMUR(VDI/VDE 3845) mounting standards. All Series 62 units mount directly to the Bray Series 92/93 Pneumatic Actuator, no external piping is required. Bray's direct mounting permits quick and simple field installation.

### SERIES 55 SPEED CONTROL:

Optional speed controls that allow independent control of speed in both directions of actuator travel are available.

### COIL HOUSINGS:

Two standard coil housings are offered:

- The watertight (NEMA 4, 4x) housing offers a potted coil and flying leads. Coils are CSA recognized to U.S. and Canadian standards.
- The IP65 DIN housings offer a potted coil and carry the CE mark.

Standard solenoid valves are supplied as single coil units. Dual coil units are available for customers who require actuators to remain in the last position during electrical power failures.

**VALVE DESIGN:** Pilot Operated Spool.

**MEDIA:** Dry or lubricated air or inert gases.

**SPRING RETURN ACTUATORS:** The Series 62, 4-way solenoid valve fills the spring chamber with supply air rather than drawing air from the surrounding atmosphere. This keeps the spring chamber clean and dry, and improves the performance and service life of the actuator.

### ELECTRICAL CHARACTERISTICS

#### COIL RATINGS:

NEMA 4, 4X Housings:

24, 110, 220, Volts, 50-60 HZ

12, 24 Volts DC

IP65 DIN Housings:

24, 110, 220 Volts, 50-60 HZ

12, 24 Volts DC

Insulation-Class F Coils

Maximum Temperature Rating: 311°F (155°C)

**FLOW - 1/4" PIPE:**  $C_v = 1.4$ , 131 psi (9 bar) maximum

**Note:** Bray S92/93 actuation times are dependent on the flow capacity of the air supply. It is strongly recommended that only the Bray S62 high flow solenoid be used with the Bray S92/93 actuators. The use of smaller port solenoids, solenoid manifolds, small I.D. air supply tubing and/or extended lengths of tubing can significantly reduce the actuation time and/or the initial response to the command signal.

#### NOMINAL POWER (Watts):

NEMA Coil: 24 VAC, 3W; 110VAC, 4.0W; 220VAC, 5.5W;

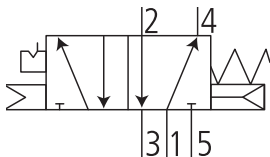
12 VDC, 3W; 24VDC, 4.5W

DIN Coil: AC, 3.5W; 12VDC, 4.5W; 24VDC, 3W

**MAXIMUM FREQUENCY:** 5 times per minute

**DUTY CYCLE:** Continuous

#### FLOW SCHEMATICS:



### MECHANICAL CHARACTERISTICS

**MOUNTING:** NAMUR (VDI/VDE 3845), mountable in any position, hardware included.

#### MATERIALS:

Body: Anodized Aluminum

Spring: Phosphate treated black steel

Shading Coil: Copper

Seals: NBR + PUR

Core / Tube: Stainless / Brass

End Covers & Plate: 6/6 glass filled polyamide (PA/FV)

Spool: Aluminum

Internal Parts: Zamak, Steel, Acetal

**PNEUMATIC PORTS:** 1/4" NPT (G1/4 also available)

#### ELECTRICAL CONNECTIONS:

NEMA Housings: 1/2" NPT

DIN Housing: Cable Gland M15 x 1.5

#### CONSTRUCTION:

- Molded and potted coil Class F insulation.
- Molded Cordsets and connectors available for IP65 DIN coil housings.
- Consult Bray representative or factory for further information.

#### NORMAL AMBIENT TEMPERATURE RANGE:

NEMA or DIN Housings:

AC/DC: +5°F to +140°F (-15°C to +60°C)

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