

1-800-GRAINGER (472-4643)



**Pneumatic Switches, Transducers, Relays, and Valves**

**Pneumatic Switches**—Feature electric pneumatic relays rated at 120V.

**Pressure Control**—Low pressure control is designed for applications in which a pneumatic air signal is used to operate an electric or electronic device. Applications include pressure-electric switches in pneumatic systems, control of pumps or small air compressors, and pressure-electric interlock of fluid flow systems.

**Relays**—Perform various functions in a control loop.

**Solenoid Air Valves**—Commonly used to alternately apply pressure to and exhaust pressure from pneumatically controlled devices.



Description	Max. Safe Air PSI	Control Air Pressure	Air Connc.	H (in.)	W (in.)	D (in.)	Dia. (in.)	Brand	Mfr. Model	Item No.
<b>Pneumatic Switches</b>										
Pneumatic Signal to Activate Electric Switch, Surface Mount, with Case	30	2 to 24 psi	Barb Fitting for ¼ OD Plastic Tubing	5 ½ in	3 ¾ in	2 in	—	Honeywell	P658A1013	<b>3UC33</b>
Pneumatic Signal to Activate Electric Switch, Panel Mount, w/o Case	30	2 to 24 psi		3 ¾ in	3 ¼ in	1 ¾ in	—	Honeywell	P658B1012	<b>3UC34</b>
Manual Diverting, Bleed or Blocking	30	0 to 18 psi	¾ (4 mm) Barbs	1 ½ in	1 ½ in	3 in	—	Honeywell	SP470A1000	<b>279A14</b>
Minimum Positioning	30	Main 18 psi / Pilot 3 to 15 psi		2 ¼ in	2 ½ in	3 ½ in	—	Honeywell	SP970A1005	<b>279A13</b>
<b>Pressure Control</b>										
Single Stage	—	3 to 20 psi	½ in Barbed	3 ¾	2 ¾	3 ¾	—	Johnson Controls	P10BC-7C	<b>40G329</b>
<b>Transducers</b>										
Electronic Pneumatic Transducer	25	0.5 to 19 psi	¾ in or ¼ in Barb	5 in	3 in	3 in	—	Johnson Controls	EP-8000-2	<b>36P580</b>
	25	18 to 25 psi		3 1 ½ in	1 2 ¾ in	2 in	—	Johnson Controls	EP-8000-1	<b>20RG01</b>
	30	0 to 18 psi		2 7 ½ in	3 ¾ in	2 in	—	Honeywell	RP7517B1016	<b>278Y48</b>
<b>Relays</b>										
Positioning Switch	30	0 to 30 psi	½ NPT Female	1 ½ in	1 ½ in	2 ¾ in	—	Siemens	141-0600	<b>4E715</b>
Electric Pneumatic	50	0 to 20 psi	Barb for ¼ O.D Plastic Tubing	2 ½ in	3 1 ¾ in	1 ¼ in	¾ in	Honeywell	RP419A1057	<b>60RC48</b>
Pneumatic Control Selector	30	0 to 18 psi	Barb Type for ¾ OD Plastic Tubing	—	—	1 in	1 ½	Honeywell	RP471A1003	<b>279A15</b>
Pneumatic Switching Control	30	3 to 15 psi		1 ½ in	1 1 ¾ in	2 ¾ in	—	Honeywell	RP670A1001	<b>279A19</b>
	30	3 to 7 psi		—	—	2 ¼ in	1 ½	Honeywell	RP670B1017	<b>279A20</b>
Pneumatic Capacity Control	30	0 to 18 psi	Barb for ¼ plastic tubing for port 1, Barb Type For ¾ OD Plastic Tubing for ports 2,3, and 4	—	—	1 ½ in	1 ½	Honeywell	RP970A1008	<b>279A18</b>
Pneumatic Reversing Control	30	18 psi Main, 3 to 15 psi Pilot	Port 1 (Main, Supply) barb for ¼ (6-mm) OD tubing Ports 2, 3, and 4 (Branch, Output, Pilot, Input and Exhaust, respectively) barb for ¾ (4-mm) OD tubing	—	—	2 ¼ in	1 ½	Honeywell	RP972A1006	<b>3UC63</b>
<b>Solenoid Air Valves</b>										
Electrically Operated, 2-Position, 3-Way Valve, Open Frame	50	0 to 30 psi	¼ in Barb	2 ¾	1 ¾	1 ¾	—	Siemens	265-1028	<b>44C453</b>
Electrically Operated, 2 Position, 3-Way Valve, Junction Box	50	0 to 30 psi		3 ¾	3 1 ¾	1 ¾	—	Siemens	265-1022	<b>4E725</b>



**Pneumatic Damper Actuators**

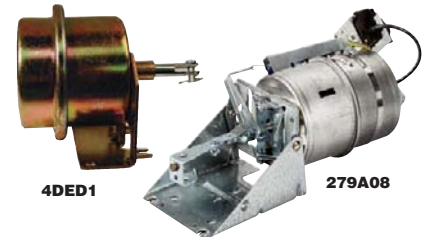
Proportional control of dampers in either independent or sequence operation.

**KMC models** are for use on VAV terminals, small dampers, and valves. ¾" fitting for ¼" tubing, ½" mounting hole diameter. Operating temperature limit: -20° to 180°F.

**Honeywell 3UC22 to 3UC24** have no bracket or ball joint, and are for direct replacement.

**Siemens/Powers Controls** - most models have pivot mounting.

**Johnson Controls models** respond to a pneumatic controller or electro-pneumatic transducer.



Operating PSI Range	Max. Air Pressure	Stroke	Nominal Spring Range	Net Force Exerted @ 18 PSI	Net Force Exerted @ 0 PSI	H	L	W	Includes	Brand	Mfr. Model	Item No.
<b>Linear Actuators</b>												
<b>VAV Terminals, Small Dampers</b>												
0 to 20	30 psi	1 1 ½ in	5 to 10 psi	67 lb	34 lb	4 ¼ in	5 ½ in	4 ¼ in	Mounting Bracket	KMC Controls	MCP-80313101	<b>4DED1</b>
	30 psi	1 1 ½ in	8 to 13 psi	47 lb	54 lb	4 ¼ in	5 ½ in	4 ¼ in	Mounting Bracket	KMC Controls	MCP-80315101	<b>4DED2</b>
	30 psi	1 1 ½ in	3 to 8 psi	81 lb	20 lb	4 ¼ in	5 ½ in	4 ¼ in	Mounting Bracket	KMC Controls	MCP-80318101	<b>4DED3</b>
3 to 8	25 psi	3 in	8 to 13 psi	47 lb	54 lb	4 in	11 in	—	Auxiliary Mounting Bracket	Johnson Controls	D-4073-5	<b>38Y119</b>
	30 psi	2 ¾ in	3 to 8 psi	36 lb	9 lb	2 1 ¾ in	6 ¾ in	—	—	Honeywell	MP909D1201	<b>3UC22</b>
5 to 10	30 psi	2 ¾ in	5 to 10 psi	30 lb	15 lb	2 1 ¾ in	6 ¾ in	—	—	Honeywell	MP909D1227	<b>3UC24</b>
8 to 13	30 psi	2 ¾ in	8 to 13 psi	21 lb	24 lb	2 1 ¾ in	6 ¾ in	—	—	Honeywell	MP909D1219	<b>3UC23</b>
<b>Small Dampers and High Velocity Mixing Boxes</b>												
3 to 13	29 psi	4 in	3 to 13 psi	3.3 lb	19.8 lb	6 ¾ in	17 in	6 ¾ in	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1018	<b>3UC26</b>
3 to 7	29 psi	4 in	3 to 13 psi	3.3 lb	19.8 lb	6 ¾ in	17 in	6 ¾ in	—	Honeywell	MP909E1026	<b>3UC27</b>
3 to 7	20 psi	2 ¾ in	8 to 13 psi	88 lb	24 lb	4 ¾ in	10 ½ in	4 ¾ in	Pivot Post, Mounting Plate, Clevis, and Arm	Powers Controls	331-4811	<b>2KGP4</b>
9 to 13	28 psi	3 ½ in	9 to 13 psi	3.3 lb	59.4 lb	6 ¾ in	17 in	6 ¾ in	Fixed External Mounting Bracket and Ball Joints	Honeywell	MP909E1174	<b>279A07</b>
<b>Medium to Large Dampers</b>												
0 to 20	30 psi	3 in	8 to 13 psi	150 lb	—	8 in	12 in	6 in	Mounting Bracket and Pilot Positioner	Johnson Controls	D-3153-1	<b>12Y963</b>
	30 psi	3 in	8 to 13 psi	150 lb	—	6 in	12 in	6 in	Mounting Bracket	Johnson Controls	D-3153-2	<b>12Y962</b>
3 to 7	30 psi	4 in	3 to 7 psi	121 lb	33 lb	4 ¾ in	10 in	4 1 ¾ in	—	Powers Controls	331-3000	<b>40PN45</b>
	29 psi	3 ½ in	3 to 13 psi	89 lb	50 lb	6 ¾ in	18 ¼ in	6 ¾ in	External Mounting Bracket and Crank Arm Assembly	Honeywell	MP918E1006	<b>279A06</b>
3 to 13	30 psi	4 in	3 to 13 psi	55 lb	33 lb	4 ¾ in	10 in	4 1 ¾ in	—	Powers Controls	331-3001	<b>40PN46</b>
	30 psi	6 in	3 to 8 psi	179 lb	54 lb	7 ½ in	14 in	7 ¾ in	—	Powers Controls	331-3012	<b>40PN49</b>
5 to 10	30 psi	2 ¾ in	5 to 10 psi	64 lb	24 lb	3 1 ¾ in	6 in	4 in	Bracket, Clevis	Powers Controls	331-4514	<b>40PN43</b>
	25 psi	3 ½ in	8 to 13 psi	83 lb	160 lb	8 in	20 ½ in	6 ¾ in	External Mounting Bracket, Crank Arm Assembly, and Positive Positioner	Honeywell	MP918A1024	<b>279A08</b>
8 to 13	30 psi	4 in	8 to 13 psi	55 lb	88 lb	7 ½ in	20 ½ in	4 ¾ in	Pivot Post and Mounting Plate	Powers Controls	331-2973	<b>2KGP5</b>
	30 psi	4 in	8 to 13 psi	55 lb	33 lb	4 ¾ in	10 in	4 1 ¾ in	Clevis	Powers Controls	331-2961	<b>40PN48</b>
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	7 ½ in	14 in	7 ¾ in	Clevis	Powers Controls	331-2856	<b>40PN54</b>
	30 psi	4 in	8 to 13 psi	55 lb	88 lb	7 ½ in	20 1 ¾ in	4 1 ¾ in	Positioning Relay	Powers Controls	332-2973	<b>40PN47</b>
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	7 ½ in	14 in	7 ¾ in	—	Powers Controls	331-3011	<b>40PN51</b>
	30 psi	6 in	8 to 13 psi	89 lb	144 lb	8 ½ in	20 1 ¾ in	7 ¾ in	Positioning Relay	Powers Controls	332-3011	<b>40PN52</b>
<b>Rotary Actuators</b>												
<b>VAV Terminals, Small Dampers</b>												
0 to 20	30 psi	—	5 to 10 psi	85 lb	42 lb	4 ½ in	8 ¼ in	4 ½ in	Mounting Bracket	KMC Controls	MCP-36313000	<b>4DEA7</b>
	30 psi	—	8 to 13 psi	59 lb	69 lb	4 ½ in	8 ¼ in	4 ½ in	Mounting Bracket	KMC Controls	MCP-36315000	<b>4DEA8</b>
	30 psi	—	3 to 8 psi	102 lb	25 lb	4 ½ in	8 ¼ in	4 ½ in	Mounting Bracket	KMC Controls	MCP-36318000	<b>4DEA9</b>
<b>Accessory</b>												
Proportional Pilot Positioner Kit, Control Range 2 to 12 psi; Pressure Range 2 to 13 psi; Max. Safe Air 25 psi psi										Johnson Controls	D-9502-8	<b>12Y965</b>