



# Pneumatic Pushbuttons, 22mm Key Operated & Double Headed

Mushroom pushbutton operator - key operated  
(40mm dia. actuator)



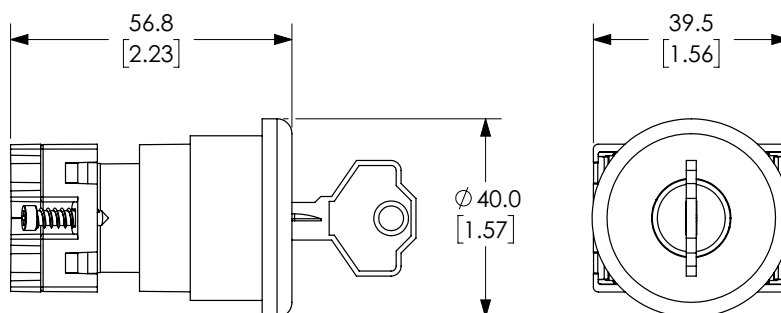
**ECP3141**

| Part Number    | Color | Description                                                                                                                                                     | Weight (lbs) | Price   |
|----------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|
| <b>ECP3141</b> | Red   | NITRA pneumatic pushbutton, IP65, 22mm, key operated release, plastic base, plastic bezel, black, operator only, Operator: red, mushroom, 40mm, round, plastic. | 0.19         | \$12.00 |



*Note: Keyed switches come with two keys. All plastic 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2). Keys for plastic 22mm keyed switches are not compatible with Cutler-Hammer key switches.*

## Dimensions mm [inches]



## Double headed pushbutton operator



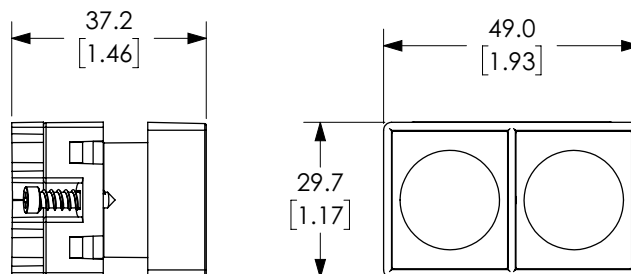
**ECP3150**



**ECP3152**

| Part Number    | Color     | Description                                                                                                                                                                                      | Weight (lbs) | Price  |
|----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|
| <b>ECP3150</b> | Green/Red | NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only, Operator: green and red, double headed, rectangular, plastic.                              | 0.08         | \$5.25 |
| <b>ECP3152</b> | Green/Red | NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only, Operator: green and red, double headed, rectangular, plastic, operator text "(I) and (O)". | 0.08         | \$6.00 |

## Dimensions mm [inches]



See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# Pneumatic Key Selector Switches, 22mm

## Key selector switches



**ECP3420**

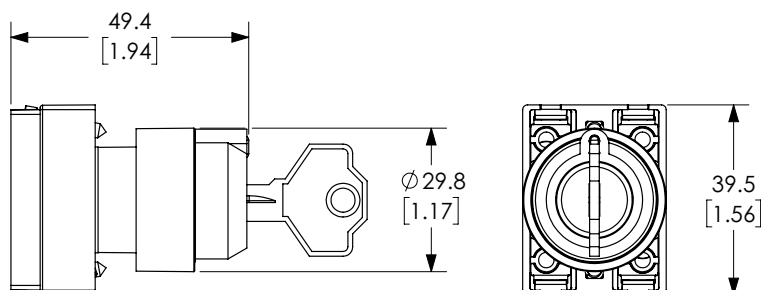
| Part Number    | Color | Description                                                                                                                                                                                             | Weight (lbs) | Price   |
|----------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|
| <b>ECP3420</b> | Black | NITRA pneumatic selector switch, IP65, 22mm, 2-position, maintained, key removable in all positions, plastic base, plastic bezel, operator only, Operator: black, key, 30mm, round, plastic.            | 0.17         | \$12.00 |
| <b>ECP3430</b> | Black | NITRA pneumatic selector switch, IP65, 22mm, 2-position, spring return from right, key removable left position, plastic base, plastic bezel, operator only, Operator: black, key, 30mm, round, plastic. | 0.17         | \$12.00 |
| <b>ECP3470</b> | Black | NITRA pneumatic selector switch, IP65, 22mm, 3-position, maintained, key removable in all positions, plastic base, plastic bezel, operator only, Operator: black, key, 30mm, round, plastic.            | 0.17         | \$11.00 |



*Note: Keyed switches come with two keys. All plastic 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2). Keys for plastic 22mm keyed switches are not compatible with Cutler-Hammer key switches.*

## Dimensions

mm [inches]



**ECP3470**

## Pneumatic switch accessory - support base with adapters

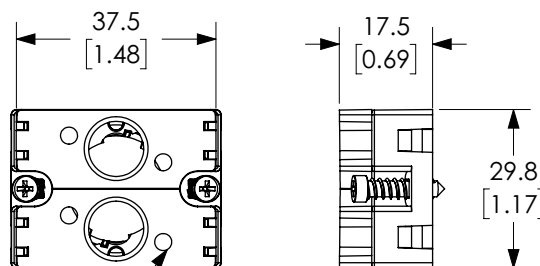


**ECP3029-02**

| Part Number       | Description                                                                                     | Weight (lbs) | Price  |
|-------------------|-------------------------------------------------------------------------------------------------|--------------|--------|
| <b>ECP3029-02</b> | NITRA valve adapter block, replacement, plastic. For use with ECP series pneumatic pushbuttons. | 0.03         | \$1.00 |

## Dimensions

mm [inches]



M3 THRU HOLE  
SCREWS INCLUDED

*Note: base sold as three piece kit.*

See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete Engineering drawings.



# Pneumatic Pushbuttons, 22mm

NITRA® pneumatic pushbuttons are all plastic and come with adapters to allow mounting of up to two 3-way valves, or one valve and one to three contact blocks. They fit in a standard 22.5mm hole, just like electrical pushbuttons.

## Features

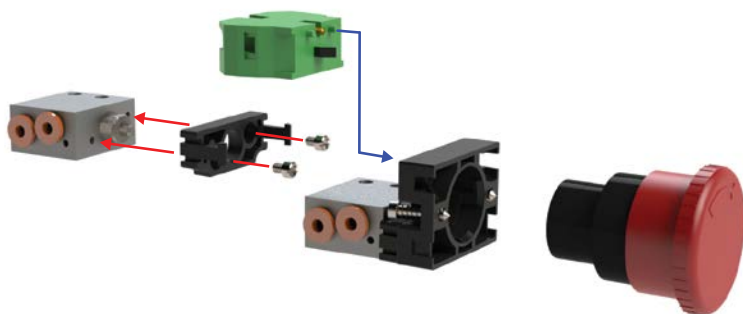
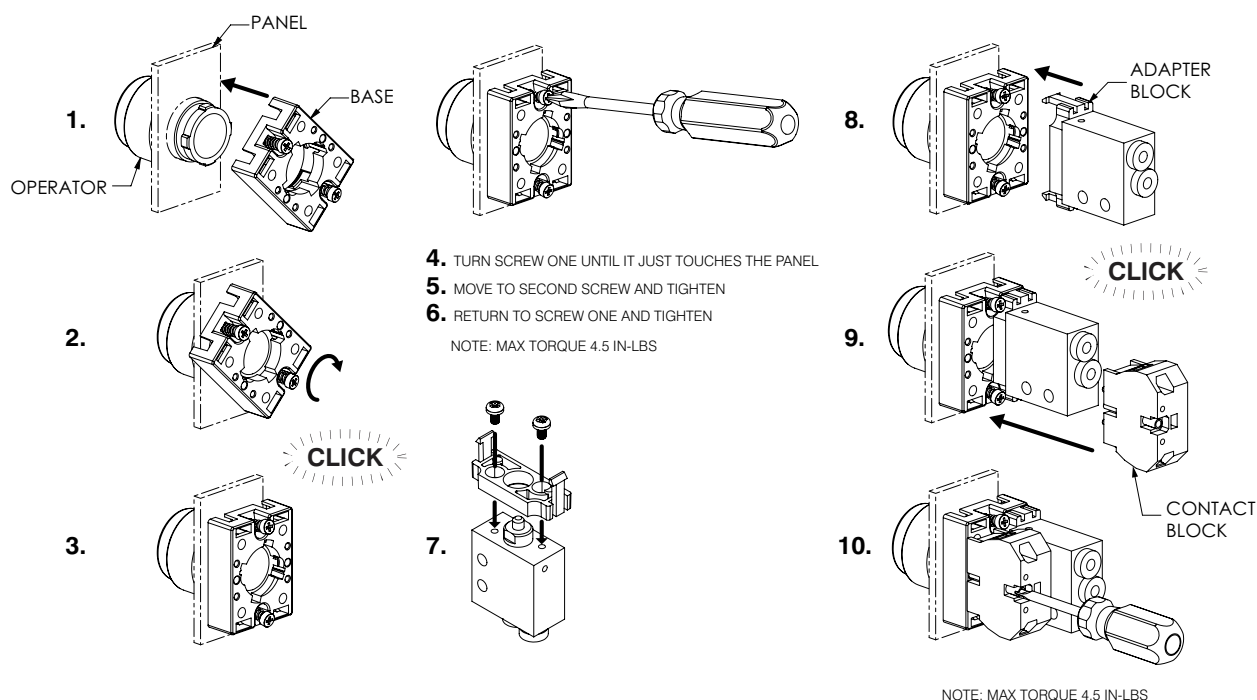
- Plastic bezel and button
- Valve adapters and mounting screws included
- Valves sold separately
- Bases will work with GCX plastic operators and **only** the three ECX Series contact blocks shown below



## Pushbutton Specifications

|                              |                                         |
|------------------------------|-----------------------------------------|
| <b>Operating Temperature</b> | -13 to 158°F (-25 to +70°C)             |
| <b>Storage Temperature</b>   | -40 to 176°F (-40 to +80°C)             |
| <b>Mechanical Life</b>       | 1,000,000 cycles                        |
| <b>Switching Cycles</b>      | 3600 cycles/hr                          |
| <b>Mounting (Valve)</b>      | (4) M3x5 valve mounting screws included |
| <b>Protection</b>            | IP65 after installation                 |
| <b>Approvals</b>             | CE                                      |

## Adapter Block Installation



**ECX1040-2**



**ECX1042-2**



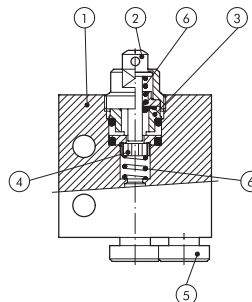
**ECX1030-2**



# Pneumatic Manual Valves

## Pneumatic Manual Valve Materials

1. Aluminum valve body
2. Chemically nickel-plated brass button
3. Brass distance plates
4. NBR gaskets
5. Stainless steel, brass and plastic push-to-connect cartridges
6. Stainless steel springs



## Pneumatic Metal Plunger Valves

*These pneumatic valves are used with Nitra pneumatic pushbuttons and switches*

## Features

- Available in normally open or normally closed
- 5/32" [4mm] push-to-connect ports located on side or end

### Valve Symbols

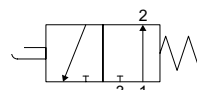


Diagram "A"

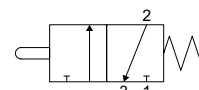


Diagram "B"



**EVP-CA-PL**

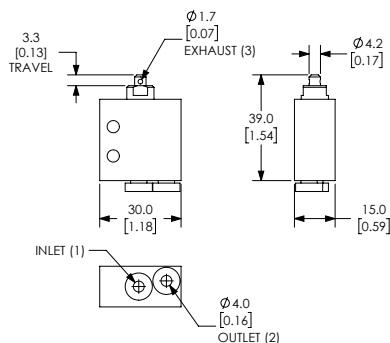


**EVP-CS-PL**

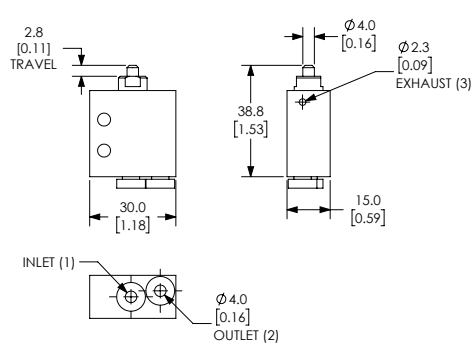
| Specifications       |                                               |                                             |                                               |                                             |
|----------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------|---------------------------------------------|
| Models               | EVP-CA-PL                                     | EVP-AA-PL                                   | EVP-CS-PL                                     | EVP-AS-PL                                   |
| Price                | \$21.50                                       | \$23.50                                     | \$19.00                                       | \$21.50                                     |
| Weight (lbs)         | 0.1                                           | 0.1                                         | 0.1                                           | 0.1                                         |
| Valve Type           | 2-port (3-way) 2-position                     |                                             |                                               |                                             |
| Acting               | Metal plunger, normally closed, spring return | Metal plunger, normally open, spring return | Metal plunger, normally closed, spring return | Metal plunger, normally open, spring return |
| Diagram              | B                                             | A                                           | B                                             | A                                           |
| Port Size            | Axial ports 5/32in (4mm)                      |                                             | Side ports 5/32in (4mm)                       |                                             |
| Flow (Cv)            | 0.13                                          | 0.13                                        | 0.13                                          | 0.13                                        |
| Fluid                | Air (to be filtered by 40μ filter element)    |                                             |                                               |                                             |
| Min. / Max. Pressure | 7.25 to 145 psi (0.5 to 10 bar)               |                                             |                                               |                                             |
| Temperature          | 14°F to 140°F (-10°C to 60°C)                 |                                             |                                               |                                             |
| Lubrication          | Not Required                                  |                                             |                                               |                                             |
| Body                 | Aluminum                                      |                                             |                                               |                                             |
| Protection           | IP65                                          |                                             |                                               |                                             |

## Dimensions

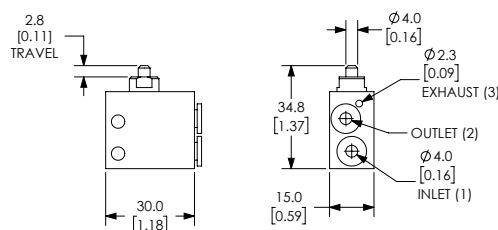
mm [inches]



**EVP-CA-PL**



**EVP-AA-PL**



**EVP-CS-PL / EVP-AS-PL**

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