



# Pneumatic Pushbuttons, 22mm

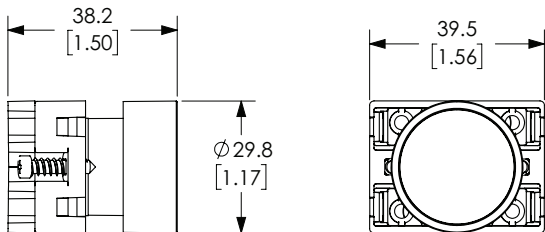
## Momentary flush pushbuttons with protective plastic ring (30mm diameter actuator)



ECP3100

Part Number	Color	Description	Weight (lbs)	Price
ECP3100	Black	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: black, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3101	Red	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: red, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3102	Green	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: green, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3103	Yellow	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: yellow, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3104	Blue	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: blue, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3105	White	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: white, flush, 30mm, round, plastic.	0.07	\$2.75
ECP3106	Red	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: red, flush, 30mm, round, plastic, operator text "(O)".	0.07	\$3.00
ECP3107	Green	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: green, flush, 30mm, round, plastic, operator text "(I)".	0.07	\$3.00

### Dimensions mm [inches]



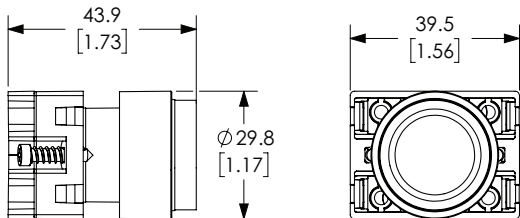
## Momentary extended pushbuttons with protective plastic ring (30mm diameter actuator)



ECP3110

Part Number	Color	Description	Weight (lbs)	Price
ECP3110	Black	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: black, extended, 30mm, round, plastic.	0.07	\$2.75
ECP3111	Red	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: red, extended, 30mm, round, plastic.	0.07	\$2.75
ECP3112	Green	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: green, extended, 30mm, round, plastic.	0.07	\$2.75
ECP3113	Yellow	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: yellow, extended, 30mm, round, plastic.	0.07	\$2.75
ECP3114	Blue	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: blue, extended, 30mm, round, plastic.	0.07	\$2.75
ECP3115	White	NITRA pneumatic pushbutton, IP65, 22mm, momentary, plastic base, plastic bezel, black, operator only. Operator: white, extended, 30mm, round, plastic.	0.07	\$2.75

### 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
ECP3420	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	\$10.00
ECP3430	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	\$10.00
ECP3470	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	\$9.75

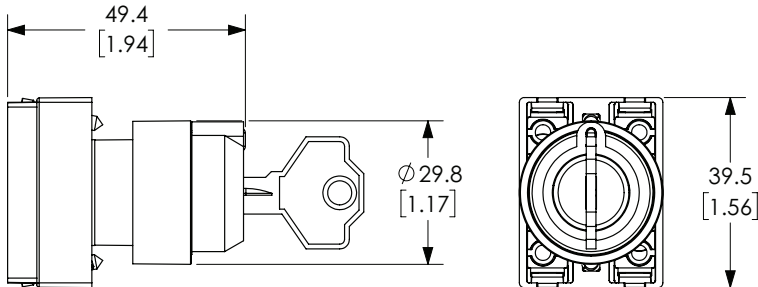


**Note: Keyed switches come with two keys. All plastic 22mm keyed switches are keyed the same. Replacement keys are available. Order part no. ECX1067-2 (pkg. of 2). Keys for plastic 22mm keyed switches are not compatible with Cutler-Hammer key switches.**



ECP3470

### Dimensions mm [inches]



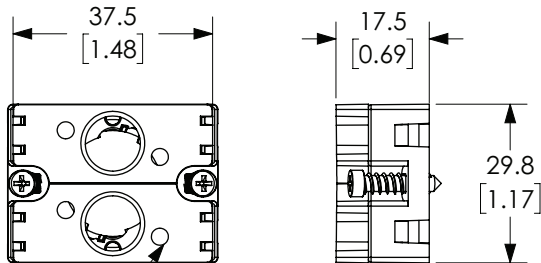
## Pneumatic switch accessory - support base with adapters



ECP3029-02

Part Number	Description	Weight (lbs)	Price
ECP3029-02	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.

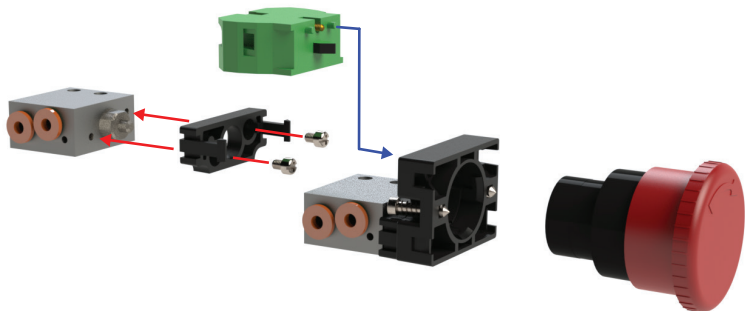
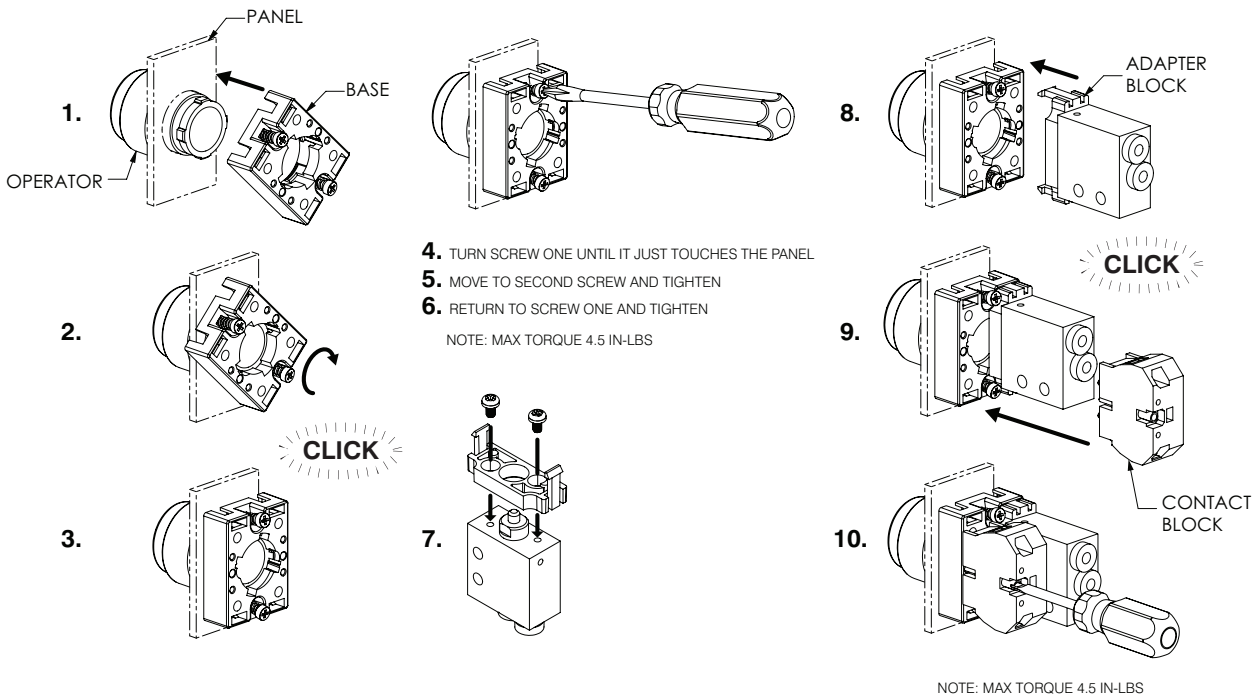
## Features

- 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



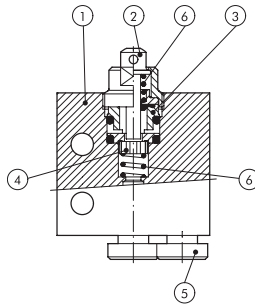
ECX1030-2



# 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

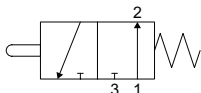


Diagram "A"

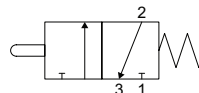


Diagram "B"



EVP-CA-PL

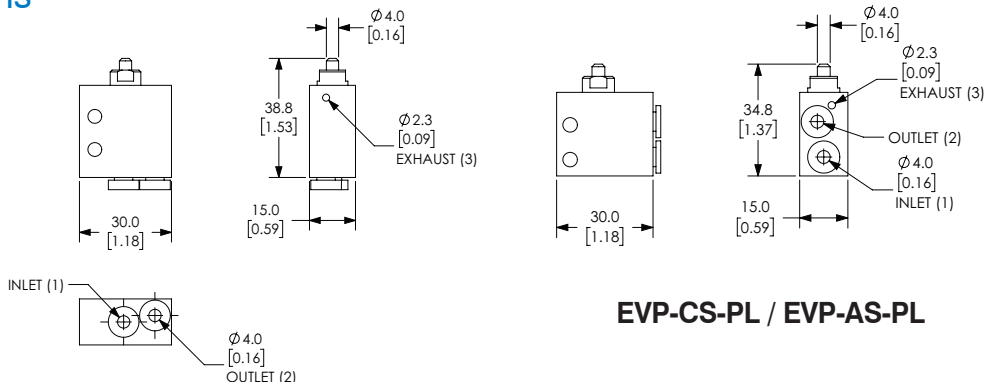


EVP-CS-PL

Specifications				
<b>Model</b>	<i>EVP-CA-PL</i>	<i>EVP-AA-PL</i>	<i>EVP-CS-PL</i>	<i>EVP-AS-PL</i>
<b>Price</b>	\$17.50	\$19.50	\$16.00	\$17.50
<b>Weight (lbs)</b>	0.1	0.1	0.1	0.1
<b>Valve Type</b>	2-port (3-way) 2-position			
<b>Acting</b>	Metal plunger, normally closed, spring return	Metal plunger, normally open, spring return	Metal plunger, normally closed, spring return	Metal plunger, normally open, spring return
<b>Diagram</b>	B	A	B	A
<b>Port Size</b>	Axial ports 5/32in (4mm)		Side ports 5/32in (4mm)	
<b>Flow (Cv)</b>	0.13	0.13	0.13	0.13
<b>Fluid</b>	Air (to be filtered by 40µ filter element)			
<b>Min. / Max. Pressure</b>	7.25 to 145 psi (0.5 to 10 bar)			
<b>Temperature</b>	14°F to 140°F (-10°C to 60°C)			
<b>Lubrication</b>	Not Required			
<b>Body</b>	Aluminum			
<b>Protection</b>	IP65			

## Dimensions

mm [inches]



EVP-CA-PL / EVP-AA-PL

EVP-CS-PL / EVP-AS-PL

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