

Series 70 - Mechanical Valves for Use with Panel Operators





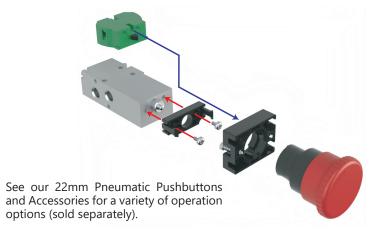
Features

- Fit NITRA 22mm pneumatic pushbuttons
- 3-port (3-way), 2-position and 5-port (4-way), 2-position configurations
- 1/8" NPT port sizes

Part No. 7010001800U

Metal Work Series 70 - Mechanical Valves				
Model	<u>7010001800U</u>	<u>7010001900U</u>		
Price	\$42.00	\$46.00		
Drawing Link	<u>PDF</u>	<u>PDF</u>		
Weight (lb)	0.29	0.35		
Manufacturer Specs	PDF	<u>PDF</u>		
Valve Type	3-port (3-way), 2-position, spring return	5-port (4-way), 2-position, spring return		
Valve Configuration	N.C.	N/A		
Operator	Pneuma	atic switch		
Acting	Spring	return		
Inlet Port Size	1/8"	-NPT		
Outlet Port Size	1/8"	' FNPT		
Flow (Cv)	0.	0.55		
Media	Filtered air without lubrication; lubrication, if used, must be continuous			
Pressure Range	36.3 to 145 psi			
Temperature	14°F to 140°F (-10°C to 60°C)			
Lubrication	ISO and UNI FD 22			
Life Cycle	1 million cycles			

For additional details see manfacturer's technical specifications, manuals and inserts (where applicable).





See <u>www.AutomationDirect.com</u> for a wide variety of fitting options



Series 70 - Valve Components

Metal Work Series 70 valves is one of the most popular lines of valves produced in Italy by Metal Work. They feature heavy duty construction and many options to choose from.

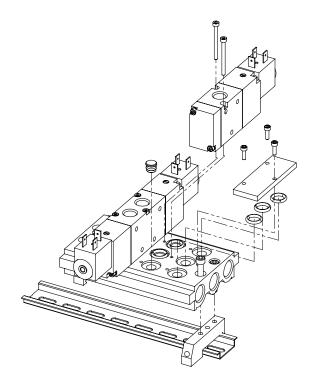
Features

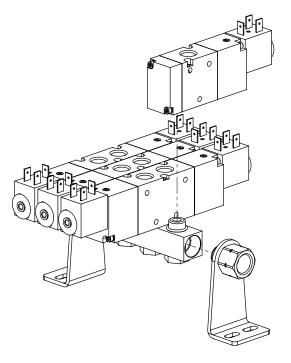
- Most styles available in four sizes
- 3-port (3-way) and 5-port (4-way) body-ported valves
- 2-position and 3-position operation
- Manual, mechanically operated, air pilot and solenoid valves

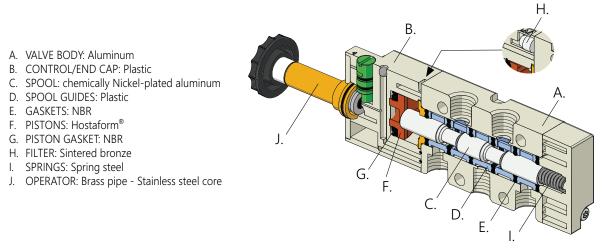


Scan or click the above QR code for the Metal Work Series 70 Instructions Insert

Valve Base Assembly Examples









Pneumatic Pushbuttons, 22mm

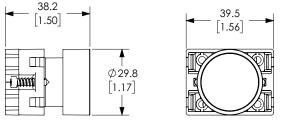
Momentary flush pushbuttons with protective plastic ring (30mm diameter actuator)



ECP3100

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



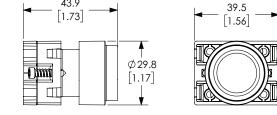
Momentary extended pushbuttons with protective plastic ring (30mm diameter actuator)



ECP3110

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



43.9

See our website 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.

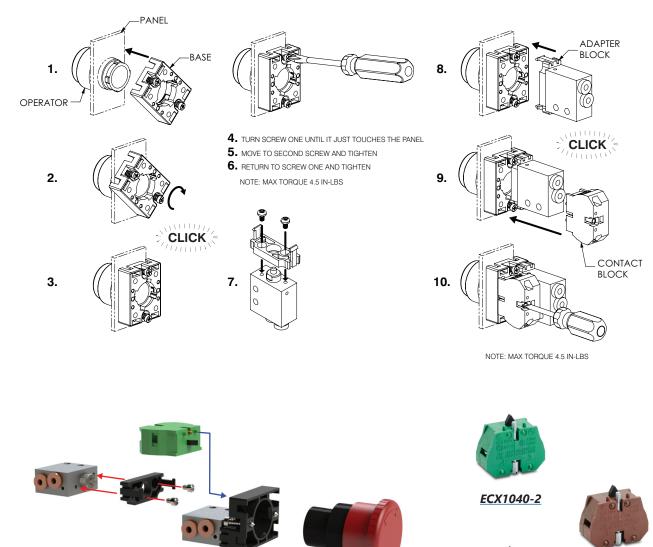
CE

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

Adapter Block Installation

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







ECX1042-2

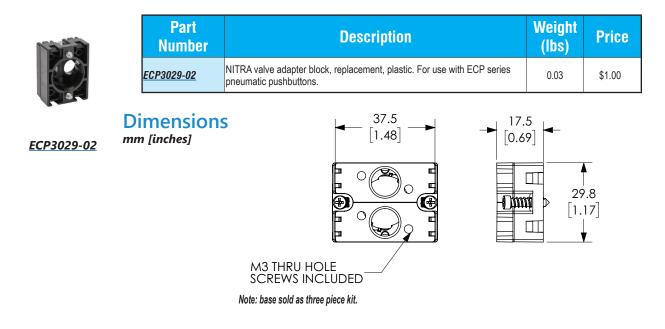


Pneumatic Key Selector Switches, 22mm

Key selector switches

	Part Number	Color	Description	Weight (lbs)	Price
	<u>ECP3420</u>	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
	<u>ECP3430</u>	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
<u>ECP3420</u>	<u>ECP3470</u>		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.				
	mm [iı)
<u>ECP3470</u>			Ø 29.8 [1.17]		39.5 [1.56]

Pneumatic switch accessory - support base with adapters



See our website www.AutomationDirect.com for complete Engineering drawings.