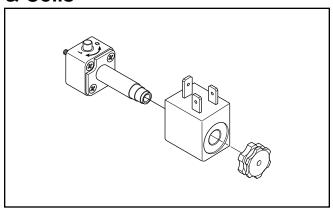


22mm Solenoid Pilot Operators & Coils



22mm Solenoid Pilot Options

The P2FP13*4* (NC) 3/2 solenoid pilot operators are designed for piloting pneumatic control valves with compressed air or other inert gases.

The P2FP operator is available for Normal operating pressures up to 10 bar or the Xtreme maximum operating pressure of 16 bar and wide band voltage tolerances required for mobile applications.

Corrosion Resistant Design

The pilot valve body is manufactured in thermoplastic PA6 material and the core tube brass / stainless steel. The plunger / core is made from stainless steel and the valve seats from FKM.

Solenoid Pilot Exhaust

These operators all exhaust out of the top of the core tube which is tapped M5. The standard solenoid nut tted to the core tube is a diffuser nut which allows the exhaust to escape to atmosphere. This nut also minimizes ingress of dirt into the valve through this port. The alternative plastic knurled nut can be speci ed (refer to part number system) if the exhaust air needs captured and piped away using the M5 tapped port.

Mobile Applications

Viking Xtreme valves are tested to +5g shock and vibration. Solenoid operated valves are designed to operate with wide voltage tolerance bands within the ambient temperature ranges stated in the technical section.

Coils

Coils are wound with enameled copper wire, having a temperature index of 1800C with class F insulation (1550C) and are encapsulated in Thermoplastic resin. When tted with suitable connector and correct gasket, they give protection to IP65.

ATEX



ATEX is a European Directive (94/9/EC) valid for products to be used within an explosive atmosphere.

Both ATEX certi ed solenoid, remote pilot and manual operated valves, as well as complete solenoid pilot assemblies are available. See page B13 for a complete list of valves available. For speci c information regarding ATEX certi cation please visit www.parker/pneumatics.

Manual Override Options

The pilot operators can be supplied with locking or non-locking manual override. The standard manual override is the monostable (spring return) extended brass override. Alternatively the bistable (locking) override can be speci ed as an alternative for the Normal duty 10 bar option.

Spares

Solenoid operators are available as spares complete with mounting screws and seals. Coils and connectors should be ordered separately unless ATEX certi ed and intrinsically safe is needed. ATEX certi ed operators and coils must be ordered together.

Transients

Interrupting the current through the solenoid coil produces momentary voltage peaks which, under unfavorable conditions, can amount to several hundred times the rated operating voltage. Normally, these transients do not cause problems, but to achieve the maximum life of relays in the circuit (and particularly of transistors, thyristors and integrated circuits) it is desirable to provide protection by means of voltage-dependent resistors (varistors). All connectors / cable plugs with LEDs include this type of circuit protection.

Materials

Pilot Valve

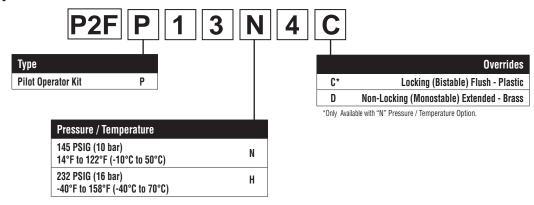
Body	Polyamide
Armature Tube:	
Normal Pilot Operator	Brass
Extreme Pilot Operator	Stainless Steel
Plunger & Core	Corrosion resistant Cr-Ni Steel
Seals	FKM (Viton™)
Screws	Stainless Steel
Coil	

Encapsulation MaterialThermoplastic



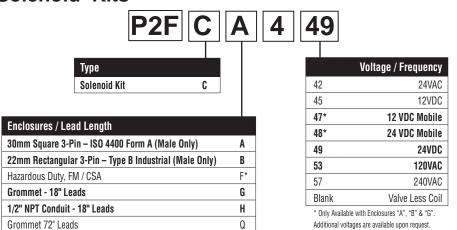


Pilot Operator Kits



Solenoid Kits

1/2" Conduit 72" Leads



R

Solenoid Enclosures



Option A 30mm Square, 3-Pin ISO 4400, DIN 43650A



Option B 22mm Rectangular, 3-Pin DIN, Type B Industrial



Option G & Q Grommet, 18" or 72" Leads



Option H & R 1/2" Conduit, 18" or 72" Leads

BOLD OPTIONS ARE MOST POPULAR

Solenoid Information (Solenoids are rated for continuous duty.)

Voltage			Enclosure "A"		Enclosure "B" to "R"		
Code	AC		DC	Power	Holding	Power	Holding
	60Hz	50Hz	DC	Consumption	(Amps)	Consumption	(Amps)
42	24	22		3.9VA	.14	7.3VA	.31
45	_	_	12	2.6W	.21	4.6W	.37
47*	_	_	12	6.2W	.52	5.5W	.46
48*	_	_	24	6.8W	.29	6.0W	.25
49	_	_	24	2.7W	.11	4.8W	.20
53	120	110	_	4.1VA	.04	6.3VA	.05
57	240	230		3.7VA	.02	6.4VA	.03

^{*} Mobile voltages. Solenoid Voltage Characteristics for all coils located on page 19.



Contact Customer Support for more information.

 $^{^{\}ast}$ Only Available with Voltage Codes "45", "49", "53" & "57". Not for use with the Xtreme Version (-40°C to 70°C).