

OVERVIEW OF COMMON SOLENOIDS

3-Way Normally Open (except where noted) See page 2 for complete specifications See page 3 for additional, special order models

12 VDC Latch

24	VAC

Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage	Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage
E02	NELSON	2.0	1/2" MNPT w/ Leads	175	Robust for TWIG systems	E40	GEM-SOL	1.6	1/2" FNPT w/ Leads	175	Long wire runs, 50/60 Hz.
E23	BACCARA	1.2	12" Leads	175	Economical for TWIG systems (2-3")	E41	PARKER	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust, high amps
E29	NETAFIM	2.0	47" Leads	140	For TWIG systems	E43	BACCARA	1.2	12" Leads	175	Economical
						E46	GEM-SOL	1.6	1/2" FNPT w/ Leads	175	Short wire runs. 60 Hz.

12 VDC

Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage
E11	GEM-SOL	1.6	1/2" FNPT w/ Leads	175	Normally Closed for PSNO (2-4")
E21	PARKER	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust, for non- PSNO applications
E25	SOLENOID SOLUTIONS	3.2	1/2" FNPT w/ Leads	150	Normally Closed for PSNO (6-8")

110-120 VAC

Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage
E50	PARKER	1.6 / 1.2	1/2" FNPT w/ Leads	175	Pivot Point, standard. 50/60 Hz
E52	PARKER	3.2	1/2" FNPT w/ Leads	175	Pivot Point, faster re- sponse (6-8"). 50/60 Hz
E53	GEM-SOL	1.6	1/2" FNPT w/ Leads	175	Pivot Point, economical. 60 Hz

24 VDC

Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage
E30	PARKER	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust 24VDC
E34	BACCARA	1.2	12" Leads	175	Economical 24VDC (2-4")

Normally Closed Solenoids

For normally open valve applications (e.g. PSNO)

Model #	Manuf.	Voltage	Orifice (mm)	Max psi	Common Usage
E11	GEM-SOL	12 VDC	1.6	175	PSNO valves (2-4")
E25	SOLENOID SOLUTIONS	12 VDC	3.2	150	PSNO valves (6-8")

Window+ Controllers

Model #	Manuf.	Orifice (mm)	Electrical Conn.	Max psi	Common Usage
E20	GEM-SOL	1.6	Window+	175	Robust for 2-8"
E31	BACCARA	1.2	Window+	175	For 2-4"

NOTE:

Orifice size affects the valve opening/closing speed (e.g. smaller orifice results in slower response).

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STANDARD SOLENOIDS

Specifications

3-Way Normally Open (except where noted)

Mod-		Pai	rt Numbers			In-	Hold-			Orifice⁵	Electrical	Max	Common
el #	Manuf.	Kit (800 / 1000)	Solenoid Only	Coil Only	Voltage	rush Amps	ing Amps	Ohm	Watts	(mm)	Conn.	psi	Usage
E02	NELSON	8925-032 / 12575-002	12845	-	9-15 VDC Latch ¹⁰	-	-	-	-	2.0ª	1/2" MNPT w/Leads	175	Robust for TWIG systems
E11 ¹	GEM-SOL	8925-011 / 12575-011	7510-011	-	12 VDC		0.83	14.3	10	1.6	1/2" FNPT w/ Leads	175	PSNO (2-4")
E20 ²	GEM-SOL	11253-002 / -	7510-040, 11222-002°	-	12-24 VDC Latch	-	-	5		1.6	Window+	175	Window+ Con- troller for 4-8"
E21	PARKER	8925-001 / 12575-021	7510-001	7510-101	12 VDC	-	0.6	20	8	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust 12VDC
E23	BACCARA	8925-035 / 12575-023	7510-052	7510-1527	9/12 VDC Latch ¹¹	-	-	4.2	3	1.2	12" Leads	175	Economical for TWIG systems (2-3")
E251	SOLENOID SOLUTIONS	8925-020 / -	7510-036	7510-136	12 VDC	1.42	1.42		17	3.2	1/2" FNPT w/ Leads	150	PSNO fast response (6-8")
E29	NETAFIM	8925-029 / 12575-029	7510-029	NA	12-40 VDC Latch ¹²	-	-	4.2		2.0	47" Leads	140	For TWIG systems
E30	PARKER	8925-002 / -	7510-002	7510-102	24 VDC	-	0.3	83	8	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust 24VDC
E31 ³	BACCARA	11253-001 / 11253-003	11222-0019	-	18-21 VDC Latch	-	-	23	3	1.2	Window+	175	Window+ Con- troller for 2-4"
E34	BACCARA	8925-037 / 12575-034	7510-054	7510-154	24 VDC	0.125	0.125	119	3	1.2	12" Leads	175	Economical 24VDC (2-4")
E40	GEM-SOL	8925-043 / 12575-040	7510-015	7510-115	24 VAC (50/60 Hz)	0.15	0.15	diode⁴	2.5	1.6	1/2" FNPT w/ Leads	175	Long wire runs 24VAC
E41	PARKER	8925-003 / 12575-041	7510-003	7510-103	24 VAC	1.1	0.65	7.8	8	1.6 / 1.2	1/2" FNPT w/ Leads	175	Robust 24VAC, high amps
E43	BACCARA	8925-033 / 125759-043	7510-050	7510-150	24 VAC	0.125	0.125	diode⁴	3	1.2	12" Leads	175	Economical 24VAC
E46	GEM-SOL	8925-044 / 12575-046	7510-016	7510-116	24 VAC (60 Hz)	0.8	0.43	9	5.5	1.6	1/2" FNPT w/ Leads	175	For short wire runs, 24VAC
E50	PARKER	8925-004 / 12575-050	7510-004	7510-104	120 VAC (50/60 Hz)	0.2	0.1	184	8	1.6 / 1.2	1/2" FNPT w/ Leads	175	Pivot Point, standard
E52	PARKER	8925-024 / -	7510-033	7510-1336	120 VAC (50/60 Hz)	0.7	0.3	27	17	3.2	1/2" FNPT w/ Leads	175	Pivot Point, faster response (6-8")
E53	GEM-SOL	8925-045 / 12575-053	7510-051	7510-151	110 VAC (60 Hz)	0.15	0.11	230	5.5	1.6	1/2" FNPT w/ Leads	175	Pivot Point, economical

NOTES:

1. Normally Closed.

2. Was "E20-1" prior to June 2019.

3. Was "E33-1" prior to June 2019.

4. If the solenoid contains a diode, the resistance reading obtained using a voltmeter will be inaccurate (extremely high). This is because a diode acts like a check valve that only opens when a sufficient amount of "pressure" (voltage) is present. Used in low-wattage solenoids to allow longer wire runs, but may not be compatible with some controllers.

5. Orifice size affects the valve opening/closing speed (e.g. smaller orifice results in slower response).

6. Replacement coils for "Solenoid Solutions" brand order #7510-137.

7. Base only part #7510-252.

- 8. Adaptable to 4mm (for fast response) by removing common port restrictor.
- 9. Window+ Controller with solenoid. Window+ Controller only = #11222.

10. Pulse width 60 msec.

11. Pulse width 25-50 msec.

12. Pulse width 80-500 msec.

2

VALVES

SPECIAL ORDER SOLENOIDS

Specifications

3-Way Normally Open (except where noted)

These solenoids are special request only and may require longer lead times. Pricing is subject to change. Recommended to substitute for one of the standard options if possible (page 2).

Model		Par	t Numbers			In-	Hold-			Orifice ²	Electrical	Max	
#	Manuf.	Kit (800 / 1000)	Solenoid Only	Coil Only	Voltage	rush Amps	ing Amps	Ohm	Watts	(mm)	Conn.	psi	Common Usage
-	BACCARA	-	-	7510-155	12 VDC Latch	-	-	12	-	-	Leads		2-way coil for using TWIG on 1-1.5" valves by others⁵
E121	GEM-SOL	8925-015 / 12575-012	7510-012	7510-112	24 VDC	-			10	1.6	1/2" FNPT w/Leads	175	For normally open valves
E131	GEM-SOL	8925-016 / 12575-013	7510-013	7510-116	24 VAC (60 Hz)	0.8	0.43	9	5.5	1.6	1/2" FNPT w/Leads	175	For normally open valves
E141	GEM-SOL	8925-014 / 12575-014	7510-014	7510-151	120 VAC (60 Hz)	0.15	0.11	230	5.5	1.6	1/2" FNPT w/Leads	175	For normally open valves
E24	BACCARA/ MAD- TAKIN	8925-062 / -	7510-072	7510-152	9/12 VDC Latch	-	-	4.2	3	5.6	10" Leads	150	E23 actuated hyd. relay⁴, fast response for 6-8"
E42	PARKER	8925-023 / -	7510-032	7510-132	24 VAC (60 Hz)	3.6	1.8		16	3.2	1/2" FNPT w/Leads	175	Fast response for 6-8"
E44	BACCARA	8925-070 / -	7510-080	NA	24 VAC	0.21	0.018		0.43	1.6	1/2" FNPT w/Leads	200	Ultra-long distance
E45	BACCARA/ MAD- TAKIN	8925-060 / -	7510-070	7510-150	24 VAC	0.125	0.125	diode ³	3	5.6	10" Leads	150	E43 actuated hyd. relay⁴, fast response for 6-8"
E47	GEM-SOL	-	7510-047	7510-147	24 VAC (50 Hz)	0.8	0.43	9	5.5	1.6	1/2" FNPT w/Leads	175	50 Hz version of E46
E48	PARKER	8925-048 / 12575-048	7510-048	-	24 VAC (50/60 Hz)	0.72			10	2.4	1/2" FNPT w/Leads	180	Fast response at lower amps
E49	GEM-SOL	8925-049 / 12575-049	7510-049	7510-116	24 VAC (60 Hz)	0.8	0.43	9	5.5	2.4	1/2" FNPT w/Leads	80	Faster response E46
E60	PARKER	8925-005 / -	7510-005	7510-105	220/240 VAC (50/60 hz)	0.1	0.07	750	8	1.6	1/2" FNPT w/Leads	175	
E61	GEM-SOL	8925-046 / -	7510-017	7510-117	230 VAC (60 Hz)	0.07	0.05	850	8	1.6	1/2" FNPT w/Leads	175	
E62	PARKER	8925-025 / -	7510-034	7510-134	220/240 VAC (50/60 Hz)	0.3	0.2		16	3.2	1/2" FNPT w/Leads	175	Fast response for 6-8"
E70	PARKER	8925-006 / -	7510-006	7510-106	480 VAC	0.05	0.03			1.6 / 1.2	1/2" FNPT w/Leads	175	
E72	PARKER	8925-026 / -	7510-035	7510-135	480 VAC	0.2	0.08			3.2	1/2" FNPT w/Leads	175	Fast response for 6-8"
E80	MAD- TAKIN	9335-001 / -	_6	-	-	-	-	-	-	-	-		Hydraulic relay

NOTES:

1. Normally Closed.

2. Orifice size affects the valve opening/closing speed (e.g. smaller orifice results in slower response).

3. If the solenoid contains a diode, the resistance reading obtained using a voltmeter will be inaccurate (extremely high). This is because a diode acts like a check valve that only opens when a sufficient amount of "pressure" (voltage) is present. Used in low-wattage solenoids to allow longer wire runs, but may not be compatible with some controllers.

4. Solenoid actuated hydraulic relay also requires a minimum of 10 psi when the system is off in order to stay closed. If there is less than 10 psi, upstream water will leak out the vent port. Thus, it should not be used immediately downstream of sand media filter stations where the tanks could drain out when the system is off.

5. See page 6 for details.

6. E80 is a hydraulic relay (not a solenoid). The hydraulic relay alone is #9331-001 (see page 12 for details).

5/17/2024

3

CONTROI

VALVES

DISCONTINUED SOLENOIDS

Specifications

3-Way Normally Open (except where noted)

These solenoids are in the process of being discontinued - no or limited inventory remains. Contact factory for additional information.

Model	Manuf.	Pa	rt Numbers	S	Maltana	In- rush	Hold-	Ohm	Watts	Orifice	Electrical	Max	Netes
#	Manur.	800 Series Kit	Solenoid Only	Coil Only	Voltage	Amps	ing Amps	Ohm	walls	(mm)	Conn.	psi	Notes
-	EVOLUTION- ARY CONC.		7859		24 VAC	0.385	0.2			1.2	18" leads	90	(normally closed)
E22	PARKER	8925-021	7510-030	7510-130	12 VDC	-	1.2			3.2	1/2" FNPT	175	Use E25 for nor- mally open valves
E26	BACCARA	8925-071	7510-081	NA	12 VDC	-	0.004			1.6	1/2" FNPT	200	Use E21
E27	GEM-SOL	8925-047	7510-041	7510-141	12-24 VDC Lat	-	-	13.5	5.5	1.6	Plug-In	175	Use EO2
E28	BERMAD	8925-013	7510-021	NA	12-50 VDC Pul	-	-	4.2		2.2	10" Leads	150	Limited remaining inventory. (Use EO2)
E32	PARKER	8925-022	7510-031	7510-131	24 VDC	-	0.6			3.2	1/2" FNPT w/Leads	175	Discontinued
E41.1	ASCO	8925-053	7510-060	7510-160	24VAC								Use E41
E50.1	ASCO	8925-054	7510-061	7510-161	120 VAC								Use E50
E82	PARKER	8925-027	7510-031	7510-131	24VDC		0.6			3.2	1/2" FNPT	175psi	Discontinued



CONTROI VALVES

PORTS AND ELECTRICAL CONNECTIONS

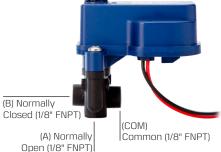
3-Way Normally Open Solenoid Logic

Energized = Common and Normally Closed are connected De-Energized = Common and Normally Open are connected





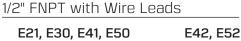
, Open (1/8" ENPT) (2) Common (1/8" FNPT) Manual Overide³ (1) Normally (normal position) *NA since 2018 Netafim (E29) Wire Leads



Parker

FNPT)

FNPT)





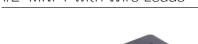


E48

GEM-SOL 1/2" FNPT, Plug-in Hub with Wire Leads



Nelson (E02) 1/2" MNPT with Wire Leads





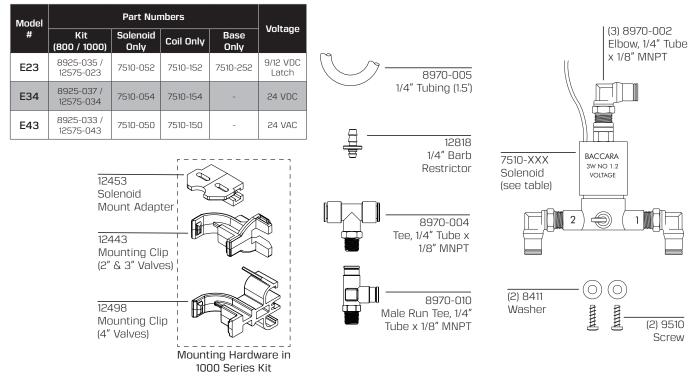
Nelson Irrigation Corporation 848 Airport Rd. Walla Walla, WA 99362-2271 USA Tel: 509.525.7660 Fax: 509.525.7907 info@nelsonirrigation.com www.nelsonirrigation.com

5/17/2024

VALVES

BACCARA KITS

Small orifice, economical



2-WAY SOLENOIDS

This Baccara 12 VDC Latching solenoid coil is approved for use with the TWIG[®] Wireless Control System on turf-style 1 & 1.5" valves from other manufacturers.* An adapter may be required as shown below (contact factory for availability).

This solenoid is not for use with Nelson valves.

Model	P	art Numbei	rs	Voltage	Ohm
#	Kit	Coil + Base	Coil	voitaye	Onin
-	-	-	7510-155	12 VDC Latch	12



7510-155 2-Way Solenoid Coil



13969 7510-155 Solenoid Coil with washer for Irritrol valves*



13970 Adapter for Hydro-Rain HRP; Rain Bird 75-DAS, 100-DAS, 075-ASVF, 100-ASVF, all DV, DVF, and JTV valves*



13970-001 Adapter for Hunter valves*



13970-002 Adapter for Hydro-Rain HRB; Rain Bird PEB, PGA, EFB-CP, BPE/ BPES, & GB valves*

*Nelson Irrigation cannot guarantee fitment with specific makes/models of valves from other manufacturers.

5/17/2024

NELSON

SOLENOIDS

VALVES

GEM-SOL KITS

# Kit Conduit Conduit<				/w du	Plug-In Hu 1/2" FNPT	Orifice	Watts	Voltage		rt Numbers		Model
E11 12575-01 7510-01 10 15 E40 12575-01 7510-01 100-01 25 15 E46 12575-01 7510-01 240-02 25 15 E46 12575-01 7510-01 240-02 25 15 E46 12575-01 750-001 7510-01 100-042 25 16 E53 12575-013 750-001 7510-01 100-042 55 16 E53 12575-013 750-001 100-042 55 16 12 18 E46 12575-013 750-005 E 12816 1976-4 12 75 E53 12575-013 100-042 55 16 12 <t< th=""><th></th><th>(3) 8970-002</th><th></th><th></th><th>Conduit Connectio</th><th>(mm)</th><th></th><th></th><th>Coil Only</th><th></th><th>(800 / 1000)</th><th>#</th></t<>		(3) 8970-002			Conduit Connectio	(mm)			Coil Only		(800 / 1000)	#
E40 12570-000 7510-015 1600 Hz 25 16 E46 12575-002 7510-015 100 VAC 5.5 1.6 E53 8257-013 7510-015 100 VAC 5.5 1.6 E46 12575-013 7510-015 100 VAC 5.5 1.6 E47 12575-013 7510-015 100 VAC 5.5 1.6 E47 1247 Tubing (15) E 1248 Bd 129764 129764 Additional Fittings in 800 Series Kit Additional Hardware in 1000 Series Kit Additional Hardware in 1000 Series Kit 12 E48 8970-007 Mounting 8970-007 Sole 12 E48 8970-007 Mounting 8970-007 Mounting 12 E48 8970-007 Mounting 12 12 12 E49 8970-007 Mounting 12 12 12 E014 Tube x 1/4" MNPT 12 12 12 12 E02 12 12 12 12 12 12 12 E02 12 12		Elbow, 1/4" Tube x 1/8" MNPT	⊧ <u> </u>			1.6	10			7510-011		E11
E43 12575-046 750-016 750-015 100 VAC 5.5 16 E53 12575-045 750-051 750-051 100 VAC 5.5 16 121 </td <td>10-XXX</td> <td></td> <td></td> <td></td> <td></td> <td>1.6</td> <td>2.5</td> <td></td> <td>7510-115</td> <td>7510-015</td> <td></td> <td>E40</td>	10-XXX					1.6	2.5		7510-115	7510-015		E40
ED3 12575-053 7500-051 (60 Hz) 55 10 Image: Construction of the second s	olenoid	Solenoid (see table)				1.6	5.5		7510-116	7510-016		E46
Additional Fittings in 800 Series Kit Additional Hardware in 1000 Series Kit Additional Fittings in 800 Series Kit Additional Hardware in 1000 Series Kit Image: Series Kit Additional Hardware in 1000 Series Kit Image: Series Kit Additional Hardware in 1000 Series Kit Image: Series Kit Screw Image: Series Kit Additional Hardware in 1000 Series Kit Image: Series Kit Screw Image: Series Kit Mounting Hardware in 1000 Series Kit Image: Series Kit Screw Image: Series Kit Mounting Hardware in 1000 Series Kit Image: Series Kit Screw Image: Screw Screw Image: Screw <t< td=""><td></td><td></td><td></td><td></td><td></td><td>1.6</td><td>5.5</td><td></td><td>7510-151</td><td>7510-051</td><td></td><td>E53</td></t<>						1.6	5.5		7510-151	7510-051		E53
										3		
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Wounting Hardware included in tobo Series Kit Mounting Hardware (2) 6318 Mounting Hardware (2)	Clip	12443 Mounting Clip		G		Τε					 	
Male Run Tee, 1/4" Tube x 1/4" MNPT Male Run Tee, 1/4" Tube x 1/8" MNPT Mounting (4" Value Model Part Numbers Mounting # Kit (800/ 1000) Solenoid Coil Only Voltage B925-032/ 12575-002 12845 12 VDC Latch 13367 1200 Series Kit Coil Only Coil Onl	res)	(2" & 3" Valves)	(2"					 			 	
Model Part Numbers # Kit (800 / 1000) Only E02 8925-032 / 12845 12575-002 12845 122 VOItage Mounting Hardware included in 1000 Series Kit (2) 6818 2443 1000 Series Kit 200 Series Kit (2) 6818	Clip	12498 Mounting Clip	BS N	Ŕ		Male		e, 1/4"	ale Run Te			
Model # Part Numbers Voltage # Kit Solenoid Coil Only E02 8925-032 / 12575-002 12845 - 12 VDC Latch Mounting Hardware included in 1000 Series Kit 2443 Mounting Hardware included in 1000 Series Kit Screw Mounting Hardware included in 26 818 Mounting Hardware included in 2005 Series Kit (2) 6818	(es)	(4" Valves)			e x 1/8" MNPT	Tub				ا 	 	
Mounting Hardware included in 12443 1000 Series Kit Mounting Clip (2" & 3" Valves)				IM Restrictor, 1/8 IPT x 1/8" FNPT	2m MN			12 VDC	Coil Only	Solenoid Only	Kit (800 / 1000) 8925-032 /	#
Abounting Clip (2" & 3" Valves) (2" & 3" Valves)	1281 1/4" Bar Restricto	1/			E02	uded in	inclu			cluded in	in	
(2) 8904 Washer 12498	8970-00 [ee, 1/4" Tube 1/8" MNP	10 10 10 10 10 10 10 10 10 10 10 10 10 1						Screw (2) 8904		J Series Kit	g Clip	Mountir (2" & 3"
Mounting Clip (4" Valves)	8970-0 ale Run Tee, 1/ ıbe x 1/8" MNF	Male Run				Ô	_0					Mountir

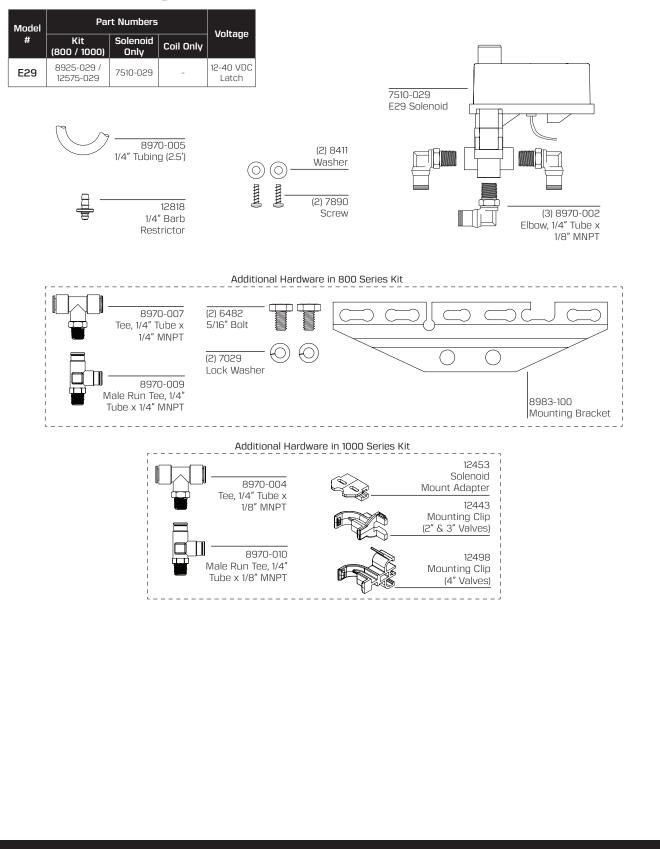
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NELSON

SOLENOIDS

VALVES

NETAFIM KITS



5/17/2024

CONTROI VALVES



9



1.6/1.2 mm orifice. Includes custom frost resistant plunger.

Model #	Part Numbers			Voltage
	Kit (800 / 1000)	Solenoid Only	Coil Only	voitage
E21	8925-001 / 12575-021	7510-001	7510-101	12 VDC
E30	8925-002 / 12575-030	7510-002	7510-102	24 VDC
E41	8925-003 / 12575-041	7510-003	7510-103	24 VAC
E50	8925-004 / 12575-050	7510-004	7510-104	120 VAC (50/60 Hz)

Additional Fittings in 800 Series Kit

8970-007

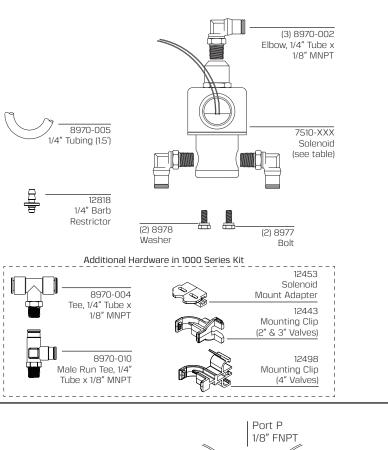
1/4" MNPT

8970-009

Tee, 1/4" Tube x

Male Run Tee, 1/4"

Tube x 1/4" MNPT



3.2 mm, fast response

Model #	Part Numbers			Maltana
	Kit 800 Series	Solenoid Only	Coil Only	Voltage
E42	8925-023	7510-032	7510-132	24 VAC (60 Hz)
E52	8925-024	7510-033	7510-133*	120 VAC (50/60 Hz)
E62	8925-025	7510-034	7510-134	220/240 VAC (50/60 Hz)
E72	8925-026	7510-035	7510-135	480 VAC

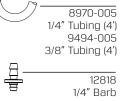
*Replacement old-style coil (Solenoid Solutions) use 7510-137.



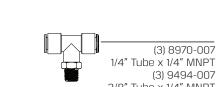
7510-137

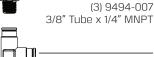


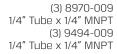




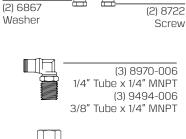
Restrictor







(3) 8970-007



Ε

Port E

1/4" FNPT



А

7510-XXX Solenoid (see table)

Port A

1/4" FNPT

WINDOW+ CONTROLLER KITS

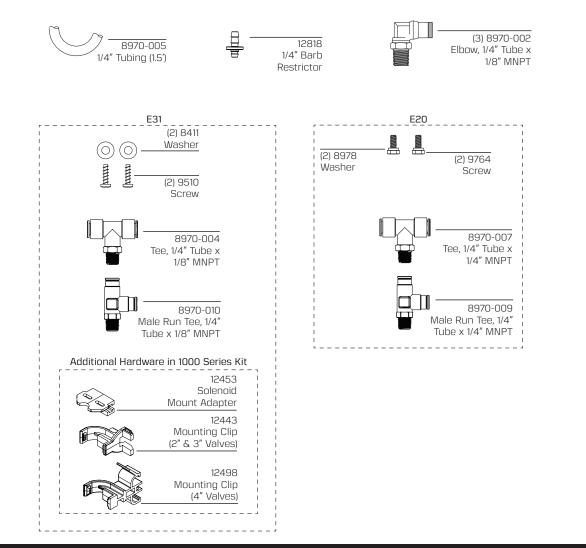
Standalone timer with solenoid.

Model	Part Numbers				Voltoro
#	Kit (800 / 1000)	Controller + Solenoid	Solenoid Only*	Coil Only*	Voltage
E20	11253-002 / -	11222-002	7510-040	-	12-24 VDC Latch
E31	11253-001 / 11253-003	11222-001	7510-053	7510-153	18-21 VDC Latch

*These solenoids should only be used with the Window+ Controller. They are not approved for use with other controllers.



11222-XXX (see table) Window+ Controller with Solenoid (11222-001 Model E31 shown)

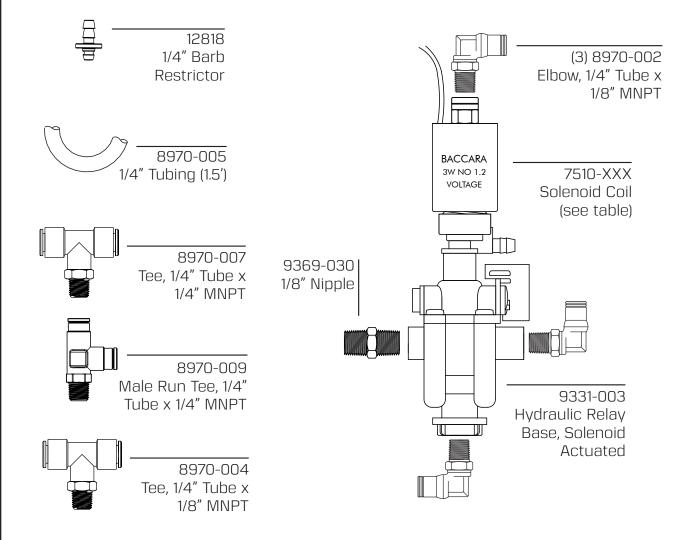




SOLENOID-ACTUATED HYDRAULIC RELAY

Hydraulic relay base with large (5.6 mm) orifices activated by a small solenoid coil for fast response on large valves.*

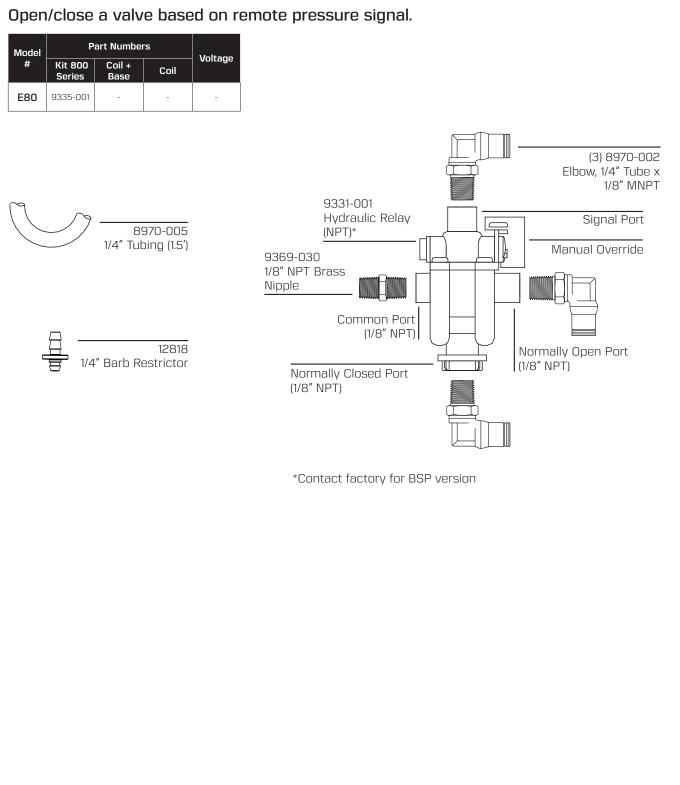
Model #	Part Numbers			Voltage
	Kit 800 Series	Coil + Base	Coil	voitage
E24	8925-062	7510-072	7510-152	9/12 VDC Latch
E45	8925-060	7510-070	7510-150	24 VAC



*Solenoid actuated hydraulic relay requires a minimum of 10 psi when the system is off in order to stay closed. If there is less than 10 psi, upstream water will leak out the vent port. Thus, it should not be used immediately downstream of sand media filter stations where the tanks could drain out when the system is off.

VALVES

HYDRAULIC RELAY



5/17/2024