

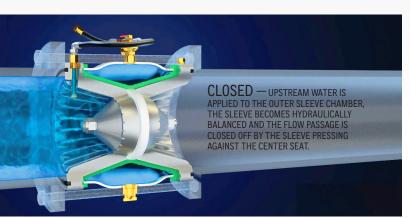






CONTROL YOU CAN COUNT ON SEASON AFTER SEASON







2





MANUAL ON-OFF

ALL 800 SERIES VALVES (EXCEPT 800P) ARE EQUIPPED WITH A 3-WAY MANUAL ON-OFF SELECTOR VALVE.



ELECTRIC ON-OFF

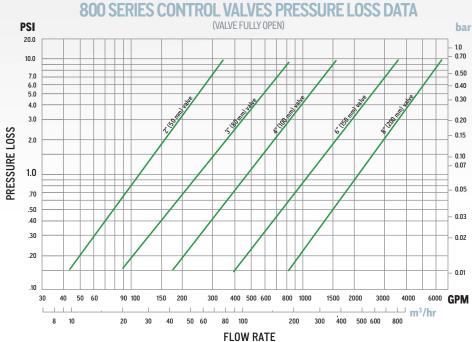
ADD A SOLENOID FOR ELECTRIC ON-OFF CAPABILITY.







AS A HYDRAULICALLY OPERATED SLEEVE-TYPE VALVE, THE 800 SERIES CONTROL VALVE IS DESIGNED FOR VERSATILITY. THE BASIC BODY CAN BE EQUIPPED WITH SEVERAL DIFFERENT OPTIONS FOR CONTROLLING PRESSURE AND FLOW. IT'S ALSO ENGINEERED FOR EXTREMELY HIGH EFFICIENCY, RESULTING IN LOW PRESSURE LOSS AND HIGH FLOW CAPACITY.





800 SERIES CONTROL VALVES

TO ORDER: Select one option from each of the five sections to build the valve description code.

SECTION	1. SIZE/MATERIAL/ CONNECTIONS	2. PRESSURE	3. PRESSURE CONTROL	4. ON/OFF CONTROL	5. FILTER
CODE	A6 B5	C3	D01	E01	Н3
DESCRIPTION	6" Cast Iron Wafer w/Stud Kit	Medium (18-80 psi)	None	Manual Selector Only	Internal Filter

1	1. SIZE/MATERIAL/CONNECTIONS								
CODE	MATERIAL	CONNECTIONS							
	2" VALVES								
A2 B3	0	2" Threaded (NPT)							
A2 B6	Cast Iron	2" Victaulic							
A2 B9		Wafer (no stud kit)							
A2 B10	Aluminum	Wafer w/stud kit for 2" Flanges							
A2 B17		Wafer w/stud kit for 75/100 Big Gun							
		3" VALVES							
A3 B6	Cast Iron	3" Victaulic							
A3 B9		Wafer (no stud kit)							
A3 B10	Aluminum	Wafer w/stud kit for 3" Flanges							
A3 B17		Wafer w/stud kit for 150 Big Gun							
		4" VALVES							
A4 B4		Wafer (no stud kit)							
A4 B5	Cast Iron	Wafer w/stud kit for 4" Flanges							
A4 B21	oust non	Wafer 6x4x6 (no stud kit)							
A4 B22		Wafer 6x4x6 w/stud kit							
A4 B9		Wafer (no stud kit)							
A4 B10		Wafer w/stud kit for 4" Flanges							
A4 B17	Aluminum	Wafer w/stud kit for 200 Big Gun							
A4 B23		Wafer 6x4x6 (no stud kit)							
A4 B24		Wafer 6x4x6 w/stud kit							
		6" VALVES							
A6 B4		Wafer (no stud kit)							
A6 B5	Cast Iron	Wafer w/stud kit for 6" flanges							
A6 B21		Wafer 8x6x8 (no stud kit)							
A6 B22		Wafer 8x6x8 w/stud kit							
		8" VALVES							
A8 B4	Cast Iron	Wafer (no stud kit)							
A8 B5		Wafer w/stud kit for 8" flanges							

2. PRESSURE								
CODE	OPERATING PRESSURE							
C1	Low (10-50 psi)							
C2	High (30-200 psi)							
C3	Medium (18-80 psi)							

3. F	PRESSURE CONTROL
CODE	ADJ. RANGE
D01	None
	PRESSURE REDUCING
D02	5-50 psi, 4-8"
D03	10-120 psi, 4-8"
D04	25-200 psi, 4-8"
D11	5-30 psi, 2" and 3"
D12	5-60 psi, 2" and 3"
D13	10-120 psi, 2" and 3"
	PRESSURE SUSTAINING
D05	25-200 psi, 4-8"
D08	10-120 psi, 4-8"
D09	5-50 psi, 4-8"
D15	5-60 psi, 2" and 3"
D16	10-120 psi, 2" and 3"
	RATE OF FLOW
D18-1	3" Pipe, 120-400 gpm
D18-2	4" Pipe, 200-550 gpm
D18-3	6" Pipe, 350-1000 gpm
D18-4	6" Pipe, 500-2000 gpm
D18-5	8" Pipe, 500-1550 gpm
D18-6	8" Pipe, 900-3800 gpm
	SLEEVE EXHAUST
D06	Valve open below 30 psi
D06-1	Valve open below 10 psi
	SHUTTLE CHECK
D07	Shuttle Check





	4. ON/OFF CONTROLS*						
CODE	ON/OFF CONTROL						
E00	None						
E01	Manual Selector Only						
	MANUAL SELECTOR WITH SOLENOID						
E11	E11 Solenoid - 12 VDC, 1.6mm, NC ⁺						
E20	E20 Window+ Controller, 1.6mm (4-8")						
E21	E21 Solenoid - 12 VDC, 1.6mm						
E23	E23 Solenoid - 9-12 VDC Lat., 1.2mm						
E25	E25 Solenoid - 12 VDC, 3.2mm, NC [†]						
E29	E29 Solenoid - 12-40 VDC Lat., 2.0mm						
E30	E30 Solenoid - 24 VDC, 1.6mm						
E31	E31 Window+ Controller, 1.2mm (2" and 3")						
E34	E34 Solenoid - 24 VDC, 1.2mm						
E40	E40 Solenoid - 24 VAC, 1.6mm, 2.5W						
E41	E41 Solenoid - 24 VAC, 1.6mm, 8W						
E43	E43 Solenoid - 24 VAC, 1.2mm, 3W						
E46	E46 Solenoid - 24 VAC, 1.6mm, 5.5W						
E50	E50 Solenoid - 120 VAC, 1.6mm, 8W						
E52	E52 Solenoid - 120 VAC, 3.2mm, 17W						
E53	E53 Solenoid - 110 VAC, 1.6mm, 5.5W						

5. FILTER								
CODE FILTER								
H2	External Filter							
Н3	Internal Filter (2" and 3")							
нз	Internal Filter (4-8")							
FILTER	WITH TUBING PROTECTION							
H4	External Filter							
H5	Internal Filter (2" and 3")							
по	Internal Filter (4-8")							

Nelson Control Valves come standard normally closed. Use the following codes to specify non-standard, normally open, or special solenoid plumbing logic.

	OPTIONAL SOLENOID LOGIC												
SOLENOID ONLY			SUSTAINING W/ SOLENOID				REDUCING W/ SOLENOID			SUSTAINING/REDUCING W/ SOLENOID			
CODE	SOLENOID STATUS	VALVE STATUS	CODE	SOLENOID STATUS	VALVE STATUS	CODE SOLENOID VALVE STATUS STATUS		CODE	SOLENOID STATUS	VALVE STATUS			
L02	Energized	Closed	L03 Energized De-energized		Sustaining	L08	Energized	Closed	L09	Energized	Sustaining-Reducing		
LUZ	De-energized	0pen			Closed	LUO	De-energized	Reducing	LU9	De-energized	Closed		
			L04 ⁺	Energized	Sustaining				L10	Energized	Sustaining		
			LU4	De-energized	0pen				LIU	De-energized	Reducing		
			L05	Energized	Closed				L11	Energized	Reducing		
		LUS	De-energized	Sustaining					De-energized	Sustaining			
			L06	Energized	0pen								
		LUG	De-energized	Sustaining									

[†]Pressure Sustaining normally-open valve ("PSNO") for applications at filter stations.

^{*}Contact Factory for full solenoid specifications. Other models available for special order.

*Normally closed solenoid for pressure sustaining,

normally open valve ("PSNO") for applications at filter stations.

BIG GUN® CONTROL VALVES

PIVOT GUN CONTROL VALVES are specified as the 800P (see below). SOLID SET GUN CONTROL VALVES can be specified as a 2", 3" or 4" B17 800 Series Valve (see page 4). This includes a 3-way manual on-off selector kit, a mounting bracket and rubber drain/plug but does not include a ball drain/vent kit.



800P - 2" (50 MM) PIVOT END GUN VALVE (Booster Pump Controlled - no solenoid required) Medium Pressure sleeve (18-80 psi) includes ball drain/vent, 2 rubber drains, and 1/4" tube fitting in jacket

MODEL NO.	DESCRIPTION	PART NUMBER
800P	800P End Gun Valve, A2B12C3, no stud kit	13271-003
60UP	800P End Gun Valve, A2B11C3, with stud kit	13271-001



2 x Rubber drain/plug (1) #9800 Upstream – to release air (1) #9800-100 Downstrean – to drain gun



10753 Ball drain/vent Installed in booster pump volute or valve jacket to prevent booster pump air lock

SOLENOIDS & VALVE ACCESSORIES

3-Way Solenoid Specifications (For Electric On-Off choose from DC, DC Latching or AC Solenoids.)

<u>.</u>			RECOMM.	IN-	HOLD-	RESIS-		INI	.ET	ELECTRICAL	MAX.			
MODEL #	MFG.	VOLTAGE	VALVE SIZE	RUSH AMPS	ING AMPS	TANCE (OHM)	WATTS		FICE	CONNECTION	PRES- Sure	КІТ	COIL +BASE	COIL
E11	GEM-SOL	12 VDC NC ¹	2" - 6"	-	0.83	14.3	10	1.6 mm	1/16"	1/2" FNPT w/ Leads	175 psi	8925-011	7510-011	-
E21	PARKER	12 VDC	all	-	0.6	20	8	1.6 mm	1/16"	1/2" FNPT w/ Leads	175 psi	8925-001	7510-001	7510-101
E23	BACCARA	9/12 VDC Lat	2" - 4"	-	-	4.2	3	1.2 mm	3/64"	>12" Leads	175 psi	8925-035	7510-052	7510-152
E25	SOLENOID SOLUTIONS	24 VDC NC ¹	6" & 8"	1.42	1.42	-	17	3.2 mm	1/8"	>12" leads	150 psi	8925-020	7510-036	7510-136
E29		12-40 VDC Lat	all	-	-	-	-	2 mm	5/64"	47" Leads	140 psi	8925-029	7510-029	NA
E30	PARKER	24 VDC	all	-	0.3	83	8	1.6 mm	1/16"	1/2" FNPT w/ Leads	175 psi	8925-002	7510-002	7510-102
E34	BACCARA	24 VDC	2" - 4"	0.125	0.125	119	3	1.2 mm	3/64"	>12" Leads	175 psi	8925-037	7510-054	7510-154
E40	GEM-SOL	24 VAC	all	0.15	0.15	diode ²	2.5	1.6 mm	1/16"	1/2" FNPT Plug-In	175 psi	8925-043	7510-015	7510-115
E41	PARKER	24 VAC	all	1.1	0.65	7.8	8	1.6 mm	1/16"	1/2" FNPT w/ Leads	175 psi	8925-003	7510-003	7510-103
E43	BACCARA	24 VAC	2" - 4"	0.125	0.125	diode ²	3	1.2 mm	3/64"	>12" Leads	175 psi	8925-033	7510-050	7510-150
E46	GEM-SOL	24 VAC	all	0.8	0.43	9	5.5	1.6 mm	1/16"	1/2" FNPT Plug-In	175 psi	8925-044	7510-016	7510-116
E50	PARKER	120 VAC	all	0.2	0.1	184	8	1.6 mm	1/16"	1/2" FNPT w/ Leads	175 psi	8925-004	7510-004	7510-104
E52	PARKER	120 VAC	6" & 8"	0.7	0.3	27	17	3.2 mm	1/8"	1/2" FNPT w/ Leads	175 psi	8925-024	7510-033	7510-133
E53	GEM-SOL	110 VAC	all	0.15	0.11	230	5.5	1.6 mm	1/16"	1/2" FNPT Plug-In	175 psi	8925-045	7510-051	7510-151

^{1.} Normally closed solenoids for pressure sustaining normally open ("PSNO") applications, and other normally open valve applications.

Protect control tubing from damage caused by coyotes and other animals. Choose Factory installed H4 or H5 depending on valve size or order kit *13038.





DESCRIPTION	4" Valve x 6"	6" Valve x 8"	Window + Controller
	Flange Adapter Kit	Flange Adapter Kit	w/ 12/24 VDC Lat.
PART NO.	11433,	12225,	E31 for 2, 3";
	11433-001 (w/6" stud kit)	12225-001 (w/8" stud kit)	E20 for 4, 6, 8"

^{2.} 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.

IMAGINED, ENGINEERED & MANUFACTURED WITH INTENT

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