

Solenoids

Dorot / Gevasol



Netafim offers a complete package of solenoids for diaphragm valves with different properties. The following factors play an important role when selecting the right solenoid:

Electrical characteristics	: voltage, frequency and output
Screw thread connections	: 3/4" UNF or M20x1
Version	: 2-way or 3-way
Type of diaphragm valve	: Normally Open / Normally Closed
Control	: water or air
Energising time	: more heating occurs with prolonged energisation
Diaphragm chamber volume	
Working pressure	

Agricultural solenoids

"Agricultural" solenoids are used as standard by Dorot. These solenoids have a one-piece 3/4" UNF fitting and are suitable for most applications, such as ebb and flow, sprinkler and substrate installations.

TECHNICAL DATA

2-way agricultural (Dorot)	: 24 VAC-50/60 Hz (inrush 3 W, holding 1.4 W)
	: 24VDC (4.5W) (holding 2.9W)
	: 12VDC (4.5W) (holding 3.4W)
	: 9-12VDC pulse (latch)
	: 3/4" UNF
3-way agricultural (Dorot)	: 24VAC-50/60Hz (3W)
	: 24VDC (4.5W)
	: 12VDC (4.5W) (holding 3.4W)
	: 9V pulse (latch)
	: 3/4" UNF
2-way industrial (G-80)	: 24VAC-50/60Hz (7,5W)
	: 24VDC (6.5W)
	: 230V-50/60Hz (7,5W)
	: 3/4" UNF



Industrial solenoids (G80)

If more than just a solenoid is required, an "industrial" solenoid (G80) can be the solution. These solenoids have a 3/4" UNF connection and a modular design. They are also available on a "base block" and have a loose stainless steel operator, loose solenoid and connecting plug.

Industrial solenoids (Gem Sol)

The "industrial" solenoids from Gem Sol have an M20x1 connection and thus fit directly onto a Dorot 75 3-way diaphragm valve. The modular range of "industrial" Gem Sol solenoids is large, allowing us to offer a tailor-made solution for every situation. This line has a wide variety of powers and nozzle diameters in the robust brass "base blocks" with stainless steel operators. The 2.5 watt solenoid, for example, is ideal for applications with prolonged energisation. All parts are of a high quality, resulting many years of dependability. An overview of the combination possibilities of the parts programme can be found in the table.

3-way industrial
(G-80)
For Dorot-80

- : 24VAC-50/60Hz (4W)
- : 24VDC (6.5W)
- : 230V-50Hz (4W)
- : 3/4" UNF
- : Available with base block (NO/NC)



3-way industrial
(Gem Sol)

- : 24VAC-50Hz (5.5W)
- : 24VAC-60Hz (5.5W)
- : 24VDC (5.5W)
- : 230V-50/60Hz (5.5W)
- : M20x1
- : Application on Dorot 75 3-way and (in combination with "base block") on other valves



Table of interchangeable parts for 3-way industrial solenoid (Gem Sol)



	Complete solenoid type	Nozzle (mm)	Solenoid (Watt)	Operator (1*)	Plunger (2*)		
AC voltage	Normally Open	24VAC-50Hz (NO)	1,6	8W	ADC(AC)	NO	
			1,6	5,5W	AC	NO	
			2,4	8W	ADC(AC)	NO	
			2,4	5,5W	AC	NO	
		24VAC-60Hz (NO)	1,6	8W	ADC(AC)	NO	
			1,6	5,5W	AC	NO	
			2,4	8W	ADC(AC)	NO	
			2,4	5,5W	AC	NO	
	Normally Closed	24VAC-50/60Hz (NO)	1,6	2,5W	AC-2,5	NO-2,5	
			1,6	8W	ADC(AC)	NO	
		24VAC-50Hz (NC)	1,6	8W	ADC(AC)	NC	
			1,6	5,5W	AC	NC	
			2,4	8W	ADC(AC)	NC	
			2,4	5,5W	AC	NC	
24VAC-60Hz (NC)	1,6	8W	ADC(AC)	NC			
	1,6	5,5W	AC	NC			
	2,4	8W	ADC(AC)	NC			
	2,4	5,5W	AC	NC			
DC voltage	Normally Open	24VAC-50/60Hz (NC)	1,6	2,5W	AC-2,5	NC-2,5	
			1,6	8W	ADC(AC)	NC	
		230V 50/60Hz (NC)	1,6	8W	ADC(AC)	NC	
			24VDC (NO)	1,6	10W	ADC (DC / AC)	NO
				1,6	5,5W	DC	NO
			Normally Closed	24VDC (NO)	2,4	10W	ADC (DC / AC)
	2,4	5,5W			DC	NO	
	24VDC (NC)	1,6		2,5W	DC-2,5	NO-2,5	
		1,6		10W	ADC (DC / AC)	NC	
		1,6	5,5W	DC	NC		
2,4		10W	ADC (DC / AC)	NC			
2,4	5,5W	DC	NC				
1,6	2,5W	DC-2,5	NC-2,5				