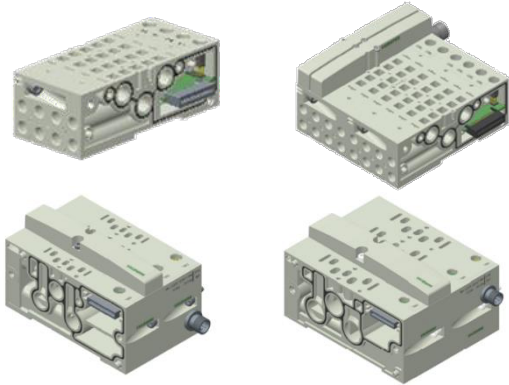# G3 & 580 Now Support Up to 128 Solenoid Coils with 500 Series

Description	Part Number
501 32+ Solenoid Coil 4 Station Sub Base with X32 Valve Drivers (Push-in 1/4inF)	K501AFM42MA0010
501 32+ Solenoid Coil Mid-Station Supply & Auxiliary Power 8 Station Sub Base with X32 Valve Drivers (Push-in 1/4inF)	K501AFM82TA0010
502 32+ Solenoid Coil Mid-Station Supply & Auxiliary Power 4 Station Sub Base with X16 Valve Drivers (NPTF 1/4inF)	8502AFM42TA0010
503 32+ Solenoid Coil Mid-Station Supply & Auxiliary Power 4 Station Sub Base with X16 Valve Drivers (NPTF 1/4inF)	8503AFM42TA0010

Up to 128 Solenoid Coils

The 500 Series valve platform with extended solenoid coil capability allows for a maximum of 128 solenoid coils in a single valve manifold/island assembly. This maximizes the number of solenoid coils in a control cabinet and minimizes nodes needed. New sub base assemblies with advanced communication technology make extended solenoid coil manifolds/islands possible. The 501 Series can support up to 128 solenoid coils, and the 502 and 503 Series can support up to 80 solenoid coils. A wide variety of G3 and 580 electronic protocols are supported for extended solenoid coil manifolds/islands, including EtherNet/IP™ DLR, Profibus™ DP, and Valve Sub-bus for distribution, as shown on page 2. Using the online DPM configurator is highly recommended when configuring extended solenoid coil manifolds/islands to eliminate errors and to save time.

Segment Targets

Segments to target include life science with both pharmaceutical and biopharmaceutical, food/beverage, fine chemicals, and water/wastewater.

Features

- Up to 64 solenoid coils with 501 Series (11mm) without requiring a mid-station air supply and auxiliary power
- Up to 128 solenoid coils with 501 Series (11mm) with integrated mid-station air supply and auxiliary power
- Market leading up to 80 solenoid coil capability in 502 Series (18mm) and 503 Series (26mm) with integrated mid-station air supply and auxiliary power

Key Benefits

- Optimized number of control/pilot valves per cabinet (fewer nodes dedicated to pneumatic manifolds)
- Enhanced process control architecture flexibility (control cabinet sized per the number of valves per skid, per module)
- Cost effective process control via fieldbus pneumatic manifolds

Up to 128 Solenoid Coil Supported Protocols

	G3 Communication Node and I/O	580 Communication Node
CC-Link IE Field™	√	N/A
EtherCAT®	√	√
Ethernet POWERLINK®	√	N/A
EtherNet/IP™ DLR	√	√
Modbus® TCP/IP	√	N/A
PROFIBUS™ DP	√	√
PROFINET™	√	√
Valve Sub-bus	√	√
580 CHARMs	N/A	48 Solenoid Coils (coming soon)

Up to 128 Solenoid Coil Valve Series Capability

	Maximum Solenoid Coils	Mid-Station Supply & Auxiliary Power Required?
501 Series (11mm)	128	64+ Solenoid Coil Manifolds/Islands
502 Series (18mm)	80	32+ Solenoid Coil Manifolds/Islands
503 Series (26mm)	80	32+ Solenoid Coil Manifolds/Islands

For More Information on Up to 128 Solenoid Coil Valve Manifolds/Islands

- **G3 Electronics:** www.asco.com/G3
- **580 Electronics:** www.asco.com/en-us/Pages/pneumatic-valve-series-580.aspx
- **501 Series Valves:** www.asco.com/en-us/Pages/pneumatic-valve-series-501.aspx
- **502 Series Valves:** www.asco.com/en-us/Pages/pneumatic-valve-series-502.aspx
- **503 Series Valves:** www.asco.com/en-us/Pages/pneumatic-valve-series-503.aspx

- **Sales Hub Training with Configuration Examples:** Sales Hub App → Pneumatic Valves → Fieldbus Electronics → Presentations → G3 Electronics Platform