# Solenoid Pilot Actuated Valves

501 Series
502 Series

502 Series | Directional Control Valve

503 Series









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#### 501 Series - Directional Control Valve Platform

#### Featuring Higher Flow in a Compact Valve Package

#### **Features**

- Solenoid air pilot actuated
- Low wattage 0.8 Watt for DC application
- DC solenoids Polarity insensitive with surge suppression
- · Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- IN Fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot
- IP65 Certified

#### Sandwich and Manifold Accessories

- Pressure Regulators for supply pressure control at individual valve
- Speed control to control exhaust flow allows for control of actuator extend or retract speed
- Shut off block for individual valve to be isolated from pressure supply during operation and repair
- Mid Station Supply Manifold block allows for multiple pressure zones (with blocking discs) or additional air supply to a manifold

#### Fieldbus Electronics Compatible

- G3 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 128 valve solenoids per manifold
  - Easy distribution of additional manifolds through Sub-bus communication
  - One Node supports up to 16 I/O modules
  - Available with Auto Recovery Module (ARM) which allows configuration information to be saved and reloaded to replacement module automatically
- 580 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 128 valve solenoids per manifold











# **Performance Data**

Function Type	Function Code	ISO Symbol Pilot (14)	Interface	at 90 C (I/min	Rated Flow at 90 PSI Cv (I/min (ANR))		Pilot Pr at 73°I PSI (	-/23°C	Operat Pressu Port PSI (bar)/inl	ıre 1	
	Return (12)	Return (12)		1 → 2 1 → 4	2 → 3 4 → 5	Energize/ De-Energize	min.	max	min.	max	Part Number
	1		Rubber	Packed To	echnology	, with Manua	al Overric	le	I		
	B1	14 2 12 12 14 15 13 183 (12) Spring Return		0.460 (460)	0.465 (465)	14/29	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2B10MA00F1
5/2	BN	Jasephan Spirit		0.460 (460)	0.465 (465)	25/21	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2BN0MA00F1
	B4	Solenoid Air Return		0.460 (460)	0.465 (465)	11/11	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2B40MA00F1
	B5	Center Open to Exhaust	Proprietary -	0.420 (420)	0.470 (470)	27/12	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2B50MA00F1
5/3	B6	Center Closed		0.460 (460)	0.465 (465)	13/12	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2B60MA00F1
	B7	Center Open to Pressure		0.460 (460)	0.411 (411)	17/38	36 (2.5)	115 (8)	28 (-0.95)	115 (8)	R501A2B70MA00F1
2 x 3/2 NO	ВА	Normally Open		0.450 (450)	0.450 (450)	18/18	0.3 x Operating Pressure + 13 PSI	115 (8)	30 (2)	115 (8)	R501A2BA0MA00F1
2 x 3/2 NC	BD	Normally Closed		0.460 (460)	0.470 (470)	18/18	0.09 x Operating Pressure + 33.5 PSI	115 (8)	30 (2)	115 (8)	R501A2BD0MA00F1

### Construction

Materials in Contact w/Fluid							
Body	Aluminum, E-Coating treatment						
Spool	Aluminum or Stainless Steel						
Piston	POM						
Spring	Steel						
Spool Seals	NBR + PUR						
Other Seals	NBR + FKM						
Other materials	PAM (Polyarylamide) 50% Glass Fiber Reinforced						
Valve to Subbase Gasket	NBR						
Subbases	Aluminum, E-Coating treatment						

# **Operating Data**

All Solenoids Are Continuous Duty Rated	24 VDC
Power (Watts)	0.8
Holding Current (Amps)	0.025
Ambient Temperature Range Min/Max °F (°C)	-14° F (-10° C)/122° F (50° C)

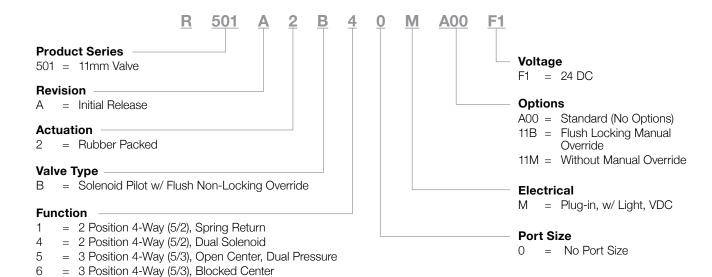






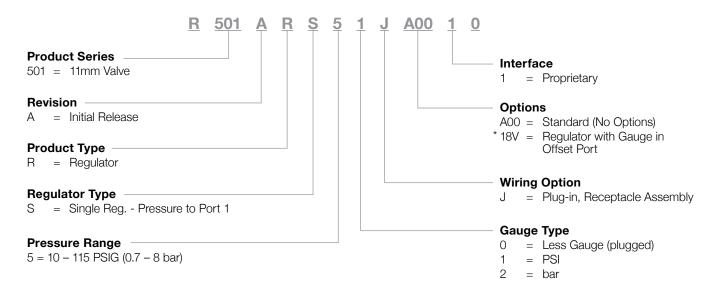
How to Order: Valve

3 Position 4-way (5/3), Open to 2 & 4 in Center
Dual 3-Way, 14 Normally Open – 12 Normally Open
Dual 3-Way, 14 Normally Closed – 12 Normally Closed
2 Position 4-Way (5/2), Differential Air Return w/o Spring





### **How to Order: Regulator**

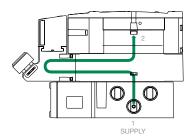


<sup>\*</sup> Regulator gauges must be offset with 18V option on alternating stations to prevent interference.

# **Sandwich Pressure Regulator Block**

#### Type: RS

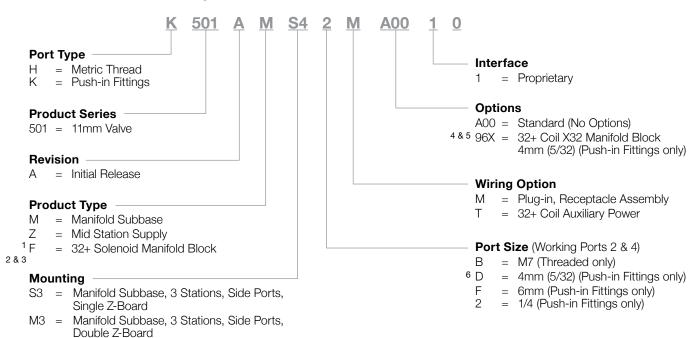






Single pressure from a single supply.

### **How to Order: Mounting**



Single Z-Board

Double Z-Board

S4

M8 =

= Manifold Subbase, 4 Stations, Side Ports,

32+ Coil Manifold Subbase, 8 Stations,

M4 = Manifold Subbase, 4 Stations, Side Ports,

Side Ports, Double Z-Board



<sup>&</sup>lt;sup>1</sup> Available with M4 mounting only

<sup>&</sup>lt;sup>2</sup> Product Type F available with Mounting M8 and Wiring Option T for an 8 station manifold block with mid-station supply, auxiliary power, and X32 drivers

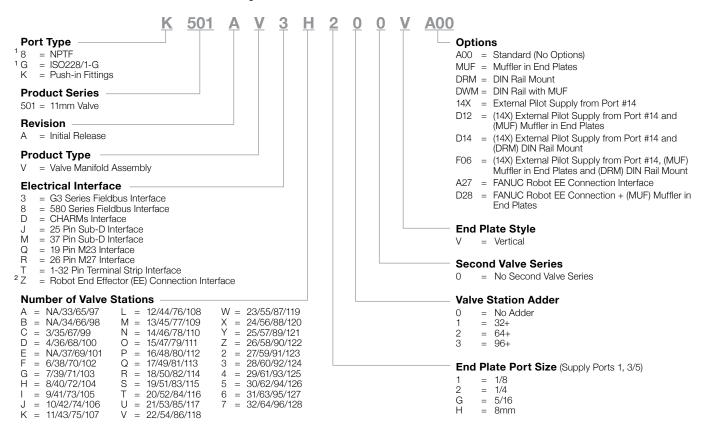
<sup>&</sup>lt;sup>3</sup> Product Type F available with Mounting M4 and Wiring Option M for a 4 station manifold block with X32 drivers

<sup>&</sup>lt;sup>4</sup> Option 96X is only available when F, M8, and T are selected together

<sup>&</sup>lt;sup>5</sup> Option 96X overrides the port size for the X32 manifold block only (stations 5-8)

<sup>&</sup>lt;sup>6</sup> Port Size D is not available when Product Type F, Mounting M8, and Wiring Option T is selected together

#### **How to Order: Manifold Assembly**



<sup>&</sup>lt;sup>1</sup> Port Type 8 & G available in Port Size 1/8

NOTE: See the Multipin Electrical Interface table for Max Solenoid Outputs.

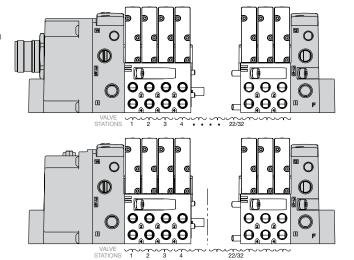
#### Sub-D, Terminal Strip, Round Interface, and End Effector Interface

- Shaded components described by Assembly Kit model number designation
- Each valve manifold station is listed in sequential order from left to right when facing the port side of the manifold as indicated

#### Example Order - 501 Shown

25 Pin Sub-D	K501AVJGG00VA00
Valve Station #1	R501A2B10MA00F1
Valve Station #2	R501A2B10MA00F1
Valve Station #3	R501A2B10MA00F1
Valve Station #4	R501A2B10MA00F1
Mounting #1	K501AMS42MA0010
Valve Station #5	R501A2B40MA00F1
Valve Station #6	R501A2B40MA00F1
Valve Station #7	R501A2B40MA00F1
Mounting #2	K501AMM32MA0010
	Assembled

NOTE: Example order for Fieldbus electronics see 580 or G3 Fieldbus catalog.







<sup>&</sup>lt;sup>2</sup> FANUC EE Interface (A27 or D28) must be selected under Options

#### 502 Series - Directional Control Valve Platform

#### Featuring Higher Flow in a Compact Valve Package

#### **Features**

- · Solenoid air pilot actuated
- Low wattage 1.3 Watt for DC application
- DC solenoids Polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- IN Fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot
- IP65 Certified

#### Sandwich and Manifold Accessories

- Pressure Regulators for supply pressure control at individual valve
- Speed control to control exhaust flow allows for control of actuator extend or retract speed
- Shut off block for individual valve to be isolated from pressure supply during operation and repair
- Mid Station Supply Manifold block allows for multiple pressure zones (with blocking discs) or additional air supply to a manifold

#### **Fieldbus Electronics Compatible**

- G3 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 80 valve solenoids per manifold
  - Easy distribution of additional manifolds through Sub-Bus communication
  - One Node supports up to 16 I/O modules
  - Available with Auto Recovery Module (ARM) which allows configuration information to be saved and reloaded to replacement module automatically
- 580 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 80 valve solenoids per manifold











### **Performance Data**

Function Type	Function Code	ISO Symbol Pilot (14)	Pilot (14) Interface		Flow PSI V (ANR))	Response Time at 73°F/23°C (ms) PSI (bar)		Operating Pressure Port 1 PSI (bar)/inHg (-bar)			
		Return (12)		1 → 2 1 → 4	2 → 3 4 → 5	Energize/ De-Energize	min.	max	min.	max	Part Number
			Rubber	Packed To	echnology	, with Manua	al Overrio	de			
2 x 3/2	BD	**************************************	Proprietary	0.650 (650)	0.600 (600)	36/15	58 (4.0)	115 (8)	36*	115	R502A2BD0MA00F1
NC		Normally Closed	ISO	0.500 (500)	0.440 (440)				(2)	(8)	TIOGENEED OWN CONT
			Spool an	d Sleeve	Technolog	y, with Manu	al Overr	ide	,	,	
	B1	4 2 12 14 T W	Proprietary	0.470 (470)	0.530 (530)	16/49	29 (2)	115	28	115	R502A1B10MA00F1
	D1	Spring Return	ISO	0.410 (410)	0.390 (390)	10/43	(2)	(8)	(-0.95)	(8)	ROUZAIBIUMAUUFI
5/2	BN	BN 14 2 3 13 183 (12) Differential Air Return	Proprietary	0.470 (470)	0.530 (530)	11/26	22	115 (8)	28 (-0.95)	115 (8)	R502A1BN0MA00F1
5/2			ISO	0.410 (410)	0.390 (390)		(1.5)				N302ATBNOMAUUFT
	В4	Solenoid Air Return	Proprietary	0.470 (470)	0.530 (530)	12/15	29 (2)	115	28	115 (8)	R502A1B40MA00F1
			ISO	0.410 (410)	0.390 (390)			(8)	(-0.95)		
	B5		Proprietary	0.380 (380)	0.500 (500)	23/13	22 (1.5)	115 (8)	28 (-0.95)	115	R502A1B50MA00F1
	В	Center Open to Exhaust	ISO	0.340 (340)	0.350 (350)					(8)	NSUZATBSUMAUUFT
5/3	B6	Center Closed	Proprietary	0.420 (420)	0.440 (440)		22	115	28	115	R502A1B60MA00F1
5/3	Во		ISO	0.360 (360)	0.350 (350)	12/12	(1.5)	.5) (8)	(-0.95)	(8)	NSUZATBOUMAUUFT
	D7	14 4 2 1	Proprietary	0.420 (420)	0.430 (430)	13/23	22	115	28 (-0.95)	115 (8)	
	B7	B7 Center Open to Pressure	ISO	0.370 (370)	0.350 (350)	13/23	(1.5)	(8)			R502A1B70MA00F1

<sup>\*</sup> Minimum pressure with external piloting

### Construction

Materials in Contact w/Fluid							
Body	Aluminum, E-Coating treatment						
Spool	Aluminum or Stainless Steel						
Piston	POM						
Spring	Steel						
Spool Seals	NBR + PUR						
Other Seals	NBR + FKM						
Other materials	PAM (Polyarylamide) 50% Glass Fiber Reinforced						
Valve to Subbase Gasket	NBR						
Subbases	Aluminum, E-Coating treatment						

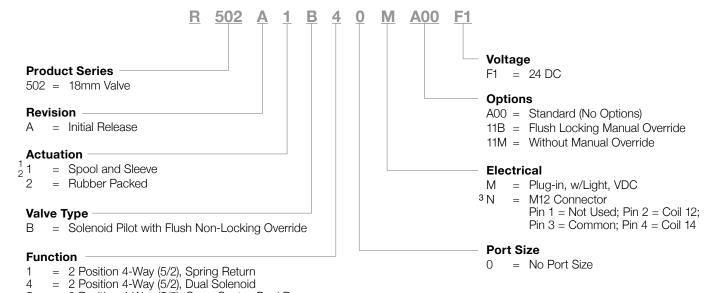
# **Operating Data**

All Solenoids Are Continuous Duty Rated	24 VDC
Power (Watts)	1.3
Holding Current (Amps)	0.054
Ambient Temperature Range Min/Max °F (°C)	-14 °F (-10 °C)/122 °F (50 °C)





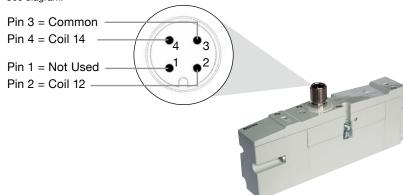
### **How to Order: Valve**



<sup>1</sup> Not available with Function D

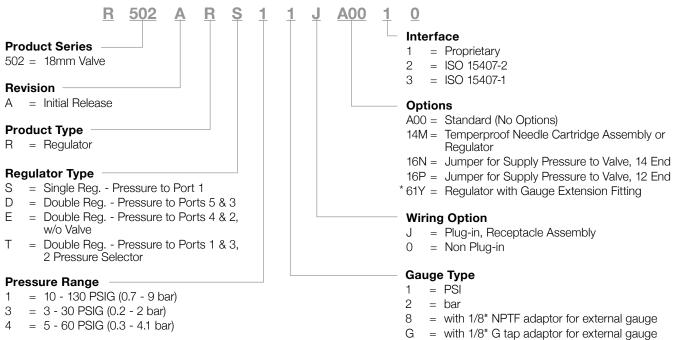
 $^{2}$  Available with Function D only

<sup>3</sup> See diagram:



= 3 Position 4-Way (5/3), Open Center, Dual Pressure
= 3 Position 4-Way (5/3), Blocked Center
= 3 Position 4-way (5/3), Open to 2 & 4 in Center
= Dual 3-way, 12 Normally Closed - 14 Normally Closed

### **How to Order: Regulator**



<sup>\*</sup> Regulator gauges must be offset with 61Y option on alternating stations to prevent interference.

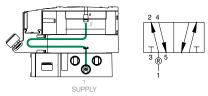
### Sandwich Pressure Regulator Block

#### Types: RS / RD / RE / RT



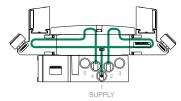
ISO 15407-2/15407-1 Interface

#### Type RS



Single pressure from a single supply.

#### Type RE

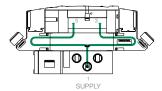


External outlet regulator used with jumper plate for single or dual pressure.



Proprietary Interface

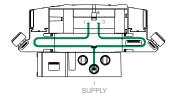
#### Type RD





Dual pressure from a single supply.

#### Type RT



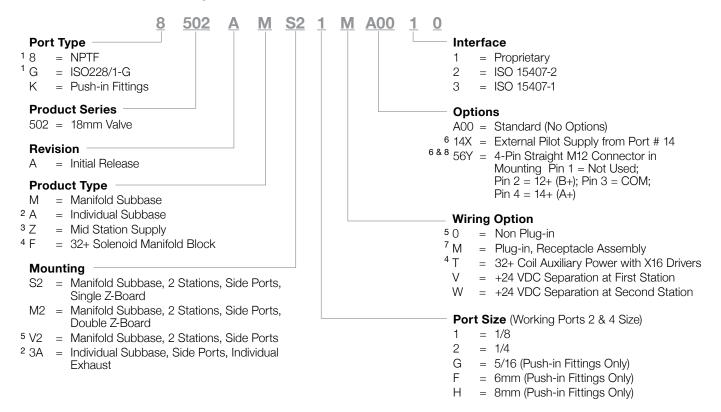


Two-pressure selector used for multi-pressure applications.



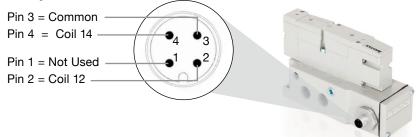


#### **How to Order: Mounting**



 $<sup>^{1}</sup>$  Port Type 8 & G available in 1/8 size for Product Type F, M and Z or 1/4 for Product Type A

<sup>8</sup> See diagram:



<sup>&</sup>lt;sup>2</sup> Not available with proprietary interface, only available with 1/4 port size

<sup>&</sup>lt;sup>3</sup> Only available with M2 and V2 mountings

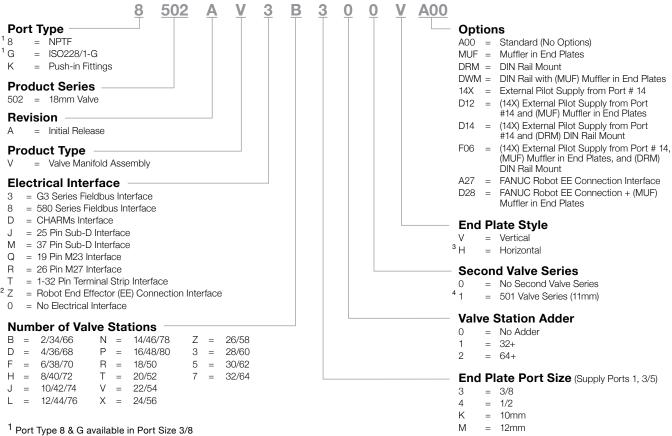
 $<sup>^4</sup>$  32+ Coil Rule: Product Type F, Mounting M4, and Wiring Option T must all be selected together

<sup>&</sup>lt;sup>5</sup> Only available with ISO 15407-1 Interface

<sup>&</sup>lt;sup>6</sup> Available with 3A mounting only

<sup>&</sup>lt;sup>7</sup> Not available with V2 Mounting

### **How to Order: Manifold Assembly**



NOTE: See the Multipin Electrical Interface table for Max Solenoid Outputs.

## Sub-D, Terminal Strip, Round Interface, and End Effector Interface

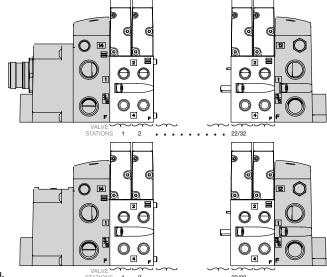
• Shaded components described by Assembly Kit model number designation

• Each valve manifold station is listed in sequential order from left to right when facing the port side of the manifold as indicated

#### Example Order - 502 Shown

25 Pin Sub-D 8502AVJF300VA00 Valve Station #1 R502A2B40MA00F1 Valve Station #2 R502A2B40MA00F1 Mounting #1 8502AMM21MA0010 Valve Station #3 R502A2B60MA00F1 Valve Station #4 R502A2B60MA00F1 Mountina #2 8502AMM21MA0010 Valve Station #5 R502A2R40MA00F1 Valve Station #6 R502A2B40MA00F1 Mounting #3 8502AMM21MA0010 Assembled

NOTE: Example order for Fieldbus electronics see 580 or G3 Fieldbus catalog.







<sup>&</sup>lt;sup>2</sup> FANUC EE Interface (A27 or D28) must be selected under Options

 $<sup>^{3}</sup>$  Horizontal End Plates available with 0 = No Electrical Interface option

 $<sup>^4</sup>$  End Plate is NPTF 1/8 or Push-in 8mm

#### 503 Series - Directional Control Valve Platform

#### Featuring Higher Flow in a Compact Valve Package

#### **Features**

- 5 Ported, 2 and 3 position, 4-way, Spool & Sleeve and Rubber Seal, Cv: 1.2 1.4
- Solenoid air pilot actuated
- Low wattage 1.7 Watt for DC application
- DC solenoids Polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- IN Fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot
- G3 Fieldbus Electronics
- IP65 Certified

#### **Sandwich and Manifold Accessories**

- Pressure Regulators for supply pressure control at individual valve
- Speed control to control exhaust flow allows for control of actuator extend or retract speed
- Shut off block for individual valve to be isolated from pressure supply during operation and repair
- Mid Station Supply Manifold block allows for multiple pressure zones (with blocking discs) or additional air supply to a manifold

#### **Fieldbus Electronics Compatible**

- G3 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 80 valve solenoids per manifold
  - Easy distribution of additional manifolds through Sub-Bus communication
  - One Node supports up to 16 I/O modules
  - Available with Auto Recovery Module (ARM) which allows configuration information to be saved and reloaded to replacement module automatically
- 580 Fieldbus Electronics
  - Graphic Display for easy commissioning, visual status & diagnostics
  - 80 valve solenoids per manifold

#### Construction

Materials in Contact w/Fluid							
Body	Aluminum, E-Coating treatment						
Spool	Aluminum or Stainless Steel						
Piston	POM						
Spring	Steel						
Spool Seals	NBR + PUR						
Other Seals	NBR + FKM						
Other materials	PAM (Polyarylamide) 50% Glass Fiber Reinforced						
Valve to Subbase Gasket	NBR						
Subbases	Aluminum, E-Coating treatment						











### **Operating Data**

All Solenoids Are Continuous Duty Rated	24 VDC
Power (Watts)	1.7
Holding Current (Amps)	0.071
Ambient Temperature Range Min/Max °F (°C)	-14° F (-10° C)/122° F (50° C)





# **Performance Data**

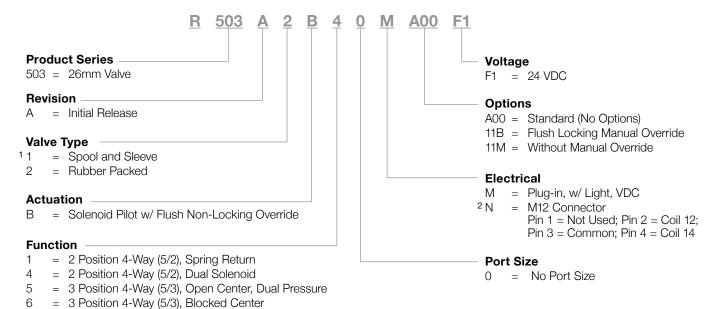
		Rated Flow		Response	Pilot Pressure		Operating					
Function Type	Function Code	ISO Symbol Pilot (14) Return (12)	Interface	at 90 C (I/min	PSI (ANR))	Time (ms)	at 73°	F/23°C (bar)	Pressi Port PSI (bar)/inl	ure 1		
		neturii (12)		1 → 2 1 4	2 <del>3</del> 3 5	Energize/ De-Energize	min.	max	min.	max	Part Number	
			Rubbe	r Packed	Technolog	gy, with Manı	ual Over	ride				
	B1	14 2 12 WW 83	Proprietary	1.422 (1400)	1.321 (1300)	20/60	29 (2)	115 (8)	28 (-0.95)	115 (8)	R503A2B10MA00F1	
		Spring Return	ISO	1.220 (1200)	1.118 (1100)		(=)	(0)	( 0.00)	(0)		
5/2	BN	4 2	Proprietary	1.422 (1400)	1.321 (1300)	28/40	44 (3)	115	28 (-0.95)	115	R503A2BN0MA00F1	
		Differential Air Return	ISO	1.220 (1200)	1.118 (1100)		(3)	(8)	(-0.95)	(8)		
	B4		Proprietary	1.422 (1400)	1.321 (1300)	20/20	29 (2)	115	28	115	R503A2B40MA00F1	
		Solenoid Air Return	ISO	1.220 (1200)	1.118 (1100)	20,20	(2)	(8)	(-0.95)	(8)	11000/125/10/11/1001	
	B5	4 2 7	Proprietary	0.610 (600)	1.321 (1300)	18/45	44	115	28	115	R503A2B50MA00F1	
		Center Open to Exhaust	ISO	0.610 (600)	1.118 (1100)	10.10	(3)	(8)	(-0.95)	(8)		
5/3	B6	4 2 1	Proprietary	1.422 (1400)	1.321 (1300)	15/20	0 58 (4)	115	28 (-0.95)	115 (8)	R503A2B60MA00F1	
0,0		Center Closed	ISO	1.220 (1200)	1.118 (1100)	10/20	(4)	(8)				
	B7	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Proprietary	1.321 (1300)	0.610 (600)	18/45	44 (3)	115 (8)	28 (-0.95)	115 (8)	R503A2B70MA00F1	
		Center Open to Pressure	ISO	1.118 (1100)	0.610 (600)		(0)					
2 NO ?	ВА		Proprietary	0.965 (950)	0.965 (950)	15/20	15/20 51 (3.5)	51 115 (3.5) (8)	51* (3.5)	115 (8)	R503A2BA0MA00F1	
INC		Normally Open Inormally Closed	ISO	0.915 (900)	0.915 (900)							
2 NG ?	BD	BD	BD		Proprietary	1.016 (1000)	0.813 (800)	15/20	51 115	51* 11	115	R503A2BD0MA00F1
NO		Normally Closed	ISO	0.915 (900)	0.813 (800)			(3.5) (8)	(3.5)	(8)		
			Spool a		ſ	gy, with Mar	nual Ove	rride		I		
	B1	14 2 12 12 12 14 14 15 13 83 83	Proprietary	1.220 (1200)	1.220 (1200)	20/60	29 (2)	115 (8)	28 (-0.95)	115 (8)	R503A1B10MA00F1	
5/2		Spring Return	ISO	1.118 (1100)	1.016 (1000)		, ,	. ,	( 0.00)	(5)		
	B4	14 2	Proprietary	1.220 (1200)	1.220 (1200)	15/15	29 (2)	115 (8)	28 (-0.95)	115 (8)	R503A1B40MA00F1	
		Solenoid Air Return	ISO	1.118 (1100)	1.016 (1000)		(2)	(0)	( 0.33)	(0)		
	B5	4 2 83 83 (12)	Proprietary	1.016 (1000)	1.016 (1000)	20/60	29 (2)	115 (8)	28	115 (8)	R503A1B50MA00F1	
		Center Open to Exhaust	ISO	0.813 (800)	0.813 (800)		(2)	(6)	(-0.95)	(6)		
E 12	B7	14 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Proprietary	1.016 (1000)	1.016 (1000)	20/60	29 (2)	115 (8)	28 (-0.95)	115	R503A1B70MA00F1	
5/3		Center Open to Pressure	ISO	0.813 (800)	0.813 (800)		(4)	(0)	(-0.95)	(8)	1.000, 1.5. 011/1.001	
	ВТ	14 2 7 7 8 8 8 1(12)	Proprietary	1.016 (1000)	1.016 (1000)	Spring: 20/60	29 (2)	115	28	115	R503A1BT0MA00F1	
		Open Center, Spring and Detent	ISO	0.813 (800)	0.813 (800)	Detent: 15/NA	(2)	(8)	(-0.95)	(8)	1.000ATETOWIAGOTT	

<sup>\* 51</sup> PSI for a pressure supply (P1)  $\leq$  109 PSI (if > 109 PSI, Pmin. = P1-58 PSI)



7

#### How to Order: Valve



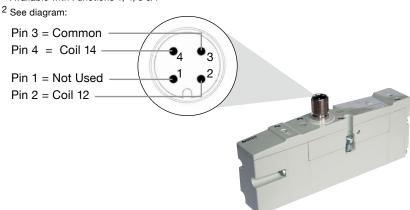
<sup>1</sup> Available with Functions 1, 4, 5 & 7

= 3 Position 4-way (5/3), Open to 4 & 2 in Center

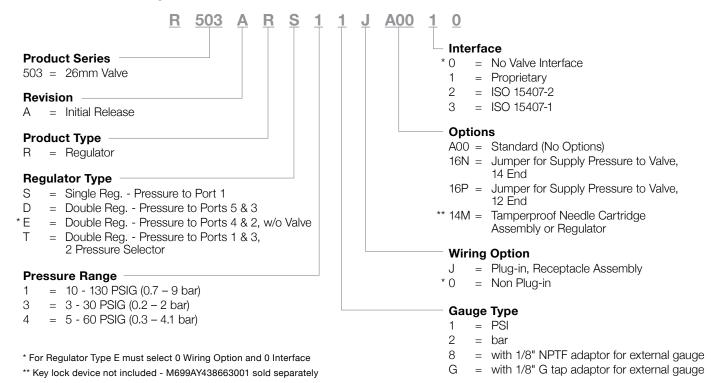
= 5/3 Open to Exhaust, Spring vs Detent,

Dual 3-way (2 x 3/2), 14 Normally Open - 12 Normally Open
 Dual 3-way (2 x 3/2), 14 Normally Closed - 12 Normally Closed
 2 Position 4-Way (5/2), Differential Air Return w/o Spring

14 Momentary - 12 Maintain (Operator Shared Station Valve)



#### **How to Order: Regulator**



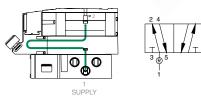
## Sandwich Pressure Regulator Block

# Types: RS / RD / RE / RT



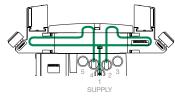
ISO 15407-2/15407-1 Interface

#### Type RS



Single pressure from a single supply.

#### Type RE

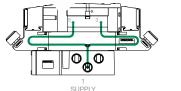


External outlet regulator used with jumper plate for single or dual pressure.



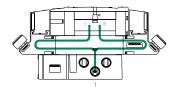
Proprietary Interface

#### Тур



Dual pressure from a single supply.

#### Type RT



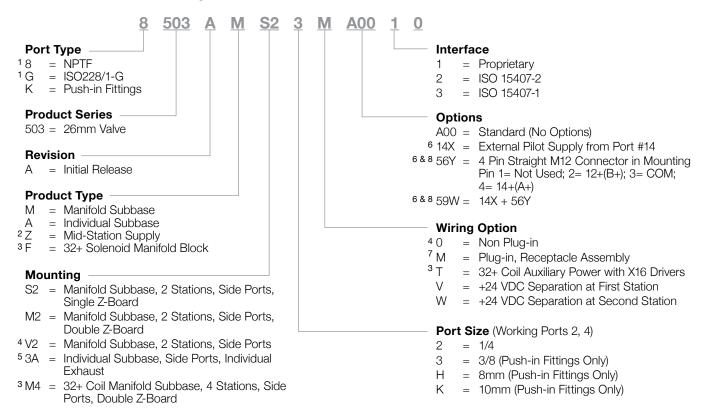


Two-pressure selector used for multi-pressure applications.



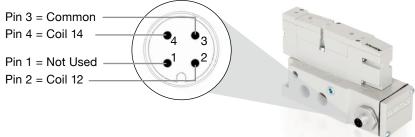


### **How to Order: Mounting**



<sup>&</sup>lt;sup>1</sup> Port Type 8 & G available in Port Size 1/4 only

<sup>8</sup> See diagram:



<sup>&</sup>lt;sup>2</sup> Available with M2 & V2 Mountings only

 $<sup>^{3}</sup>$  32+ Coil Rule: Product Type F, Mounting M4, and Wiring Option T must all be selected together

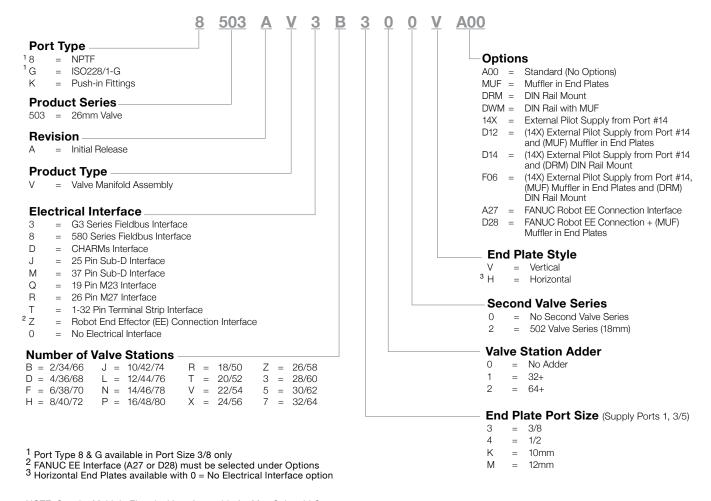
<sup>&</sup>lt;sup>4</sup> Available with ISO 15407-1 Interface only

<sup>&</sup>lt;sup>5</sup> Not available with Proprietary Mounting

<sup>&</sup>lt;sup>6</sup> Available with 3A Mounting only

<sup>&</sup>lt;sup>7</sup> Not available with V2 Mounting

### **How to Order: Manifold Assembly**



NOTE: See the Multipin Electrical Interface table for Max Solenoid Outputs.

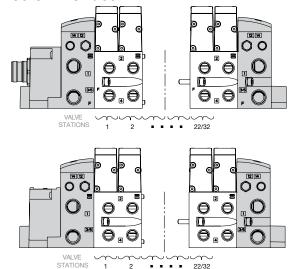
#### Sub-D, Terminal Strip, Round Interface, and End Effector Interface

- Shaded components described by Assembly Kit model number designation
- Each valve manifold station is listed in sequential order from left to right when facing the port side of the manifold as indicated

#### Example Order - 503 Shown

25 Pin Sub-D 8503AVJF300VA00 Valve Station #1 R503A2B40MA00F1 Valve Station #2 R503A2B40MA00F1 Mounting #1 8503AMM22MA0010 Valve Station #5 R503A2B60MA00F1 Valve Station #6 R503A2B60MA00F1 Mounting #2 8503AMM22MA0010 Valve Station #5 R503A2B40MA00F1 Valve Station #6 R503A2B40MA00F1 Mounting #3 8503AMM22MA0010 Assembled

NOTE: Example order for Fieldbus electronics see 580 or G3 Fieldbus catalog.





**AVENTICS** 

# Sandwich Option Kit

Valve Series	Туре	Speed Control Kit	Shut Off Block Kit		Pressure		Exhaust	Block Kit	
		**************************************			***************************************		10		
		Inserted between the valve and the mounting. It allows the user to adjust the flow out of the 3 & 5 ports of the valve. This will allow them to adjust the speed of the extend and retract of the cylinder.	Used to shut- off pressure when mounted below valve. It allows for easy maintenance without the need to shut-off pressure to the entire manifold.	Used to supply a needing blocking	separate pressure	t Used to isolate the exhaust o a single valve station from the manifold. It allows for faster exhaust response by re-routi exhaust externally from the manifold.			
		12 (3) (2) (1) (4) (5) 14	EB B P A EA  XE (3) (2) (1) (4) (5) X  XE (3) (2) (1) (4) (5) X  EB B P A EA		12 (3) (2) (1)	(3)	(5) (4) (5) 14		
				4mm Push-in	6mm Push-in				
501 Series (11mm)	Proprietary	R501AS428500001	R501AY428501001	K501AW517220004	K501AW517220003	K501AW517220002	H501AW517220001	-	-
				1/8 [	NPTF	1/8	3 G	1/8 NPTF	1/8 G
	Proprietary	R502AS429395002	R502AY429409002	8502AW4	28685004	G502AW4:	28685004	8502AX428685002	G502AX428685002
502 Series (18mm)	ISO 15407-2	R502AS429395001	R502AY429409001	8502AW4	28685003	G502AW4	28685003	8502AX428685001	G502AX428685001
	ISO 15407-1	-	-					-	-
				1/4 NPTF 1/4 G				1/4 NPTF	1/4 G
	Proprietary	R503AS425575002	R503AY426707002	8503AW4	28300004	G503AW4:	28300004	8503AX428300002	G503AX428300002
503 Series (26mm)	ISO 15407-2	R503AS425575001	R503AY426707001	8503AW4	28300003	G503AW4:	28300003	8503AX428300001	G503AX428300001
	ISO 15407-1	R503AS432940001	_		_	_	-	_	_



#### **End Plate Kit**

End Plate Kit is used to stack multiple blocks together into a manifold assembly.



Vertical End Plates w/o DIN, w/o Muffler



Vertical End Plates w/o DIN, w/Muffler

Valvo		Port Type	NPTF			G				Push In							
Valve Series	Orientation	Port Number	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12
		Port Size	1/8	1/8	M7	1/8	1/8	M7		1/4		5/16	5/16	1/4	8mm	8mm	6 mm
		w/Muffler, w/DIN	8501A	8501AK429465006		G501	AK4294	65014	K501AK429465032			K501AK429465008			K501AK429465016		65016
501	Vertical	w/Muffler, w/o DIN	8501	8501AK429465005		G501AK429465013		K501AK429465031		K501AK429465007		65007	K501AK429465018		65015		
Series (11mm)	vertical	w/o Muffler, w/DIN	8501	3501AK429465002		G501AK429465010		K501AK429465030		K501AK429465004		55004	K501AK42946501		65012		
()		w/o Muffler, w/o DIN	8501	3501AK429465001		G501AK429465009		65009	K501AK429465029		K501/	AK42946	55003	K501	4K4294	65011	



Horizontal End Plates w/o DIN



Vertical End Plates w/o DIN, w/o Muffler



Vertical End Plates w/o DIN, w/Muffler

Valve		Port Type		NPTF			G							Pus	h In					
Series	Orientation	Port Number	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12	1	3/5	14, 12
		Port Size	3/8	3/8	1/8	3/8	3/8	1/8	3/8	3/8	1/8	1/2	1/2	1/8	10mm	10mm	6 mm	12mm	12mm	6 mm
		w/Muffler, w/DIN	8502	AK4314	77008	G502	AK4314	77020	K502	4K4314	77012	K502	AK4314	77010	K502	AK4314	77024	K502	AK43147	77022
502	Vertical	w/Muffler, w/o DIN	8502	AK4314	77007	G502	AK4314	77019	19 K502AK4314770		77011	K502AK431477009		K502	AK4314	77023	K502	AK43147	77021	
Series	vertical	w/o Muffler, w/DIN	8502	AK4314	77002	G502	AK4314	77014	K502AK431477006		77006	K502AK431477004		K502AK431477018		18 K502AK431477		77016		
(18mm)		w/o Muffler, w/o DIN	8502AK431477001		G502AK431477013 K502AK431477005		77005	K502	AK4314	77003	K502	AK4314	77017	K502AK431477015		77015				
	Horizontal	w/o Muffler, w/o DIN	8502	8502AK431478001			G502AK431478004			AK43147	78003	K502	AK4314	78002	K502	AK43147	78006	6 K502AK431478005		78005
		w/Muffler, w/DIN	8503	AK4283	27008	G503	AK4283	27020	K503/	AK4283	27010	K503	AK4283	27012	K503.	AK4283	27022	K503	AK42832	27024
503	Vertical	w/Muffler, w/o DIN	8503	AK4283	27007	G503	AK4283	27019	K503/	K503AK428327009 K503AK428327011		27011	K503AK428327021		28327021 K503AK428		AK42832	27023		
Series	verticai	w/o Muffler, w/DIN	8503	AK4283	27002	G503	AK4283	27014	K503AK428327004		27004	K503AK428327006		27006	K503AK428327016		K428327016 K503AK42		AK4283	27018
(26mm)		w/o Muffler, w/o DIN	8503	AK4283	27001	G503	AK4283	27013	K503AK428327003		27003	K503AK428327005		05 K503AK428327015		28327015 K503AK42832		27017		
	Horizontal	w/o Muffler, w/o DIN	8503	AK4283	04001	G503AK428304004			K503A	K4283	04002	K503AK428304003			K503AK428304005			K503	AK42830	04006





### **Multipin Electrical Interface**

Multipin Electrical	Product Image	Description		Part Number	Notes	Max.
Interface	(Example Only)	Description	501,	502 & 503 Valve Series	Notes	Coils
		Housing Kit Assembly w/o DIN Rail Clamps	ı	P599AE428441001	External fusing or output	
		Housing Kit Assembly w/DIN Rail Clamps	ı	P599AE428441002	protection recommended.	
			2m	SC2502MCX0000000		
25 Pin Sub-D		Female Cable 22 AWG – Unshielded, Standard	5m	SC2505MCX0000000	_	22
Interface			10m SC2510MCX0000000			
	W. and		2m	NDB25F22U02MSB4		
		Female Cable 22 AWG - Unshielded IP65	5m	NDB25F22U05MSB4	_	
			10m NDB25F22U10MSB4			
		Housing Kit Assembly w/o DIN Rail Clamps	F	P599AE428442001	External fusing or output	
		Housing Kit Assembly w/DIN Rail Clamps	F	P599AE428442002	protection recommended.	
			2m	SC3702MCX0000000		
37 Pin Sub-D	- Days	Female Cable 22 AWG – Unshielded, Standard	5m	SC3705MCX0000000	_	32
Interface				SC3710MCX0000000		32
	W			NDB37F22U02MSB4		
		Female Cable 22 AWG - Unshielded IP65	5m	NDB37F22U05MSB4	_	
			10m	NDB37F22U10MSB4		
		Housing Kit Assembly w/o DIN Rail Clamps	F	P599AE428436001	External fusing or output	
19 Pin M23		Housing Kit Assembly w/DIN Rail Clamps		P599AE428436002	protection recommended.	
Interface			5m CC1905MI00000000			- 16
		M23 Female Cable	10m CC1910MI00000000		_	
		Housing Kit Assembly w/o DIN Rail Clamps	-			
					External fusing or output protection recommended.	
26 Pin M27 Interface		Housing Kit Assembly w/DIN Rail Clamps		P599AE502625002		22
intoriaco		M27 Female Cable	5m	CC2605MI00000000	_	
			10m	CC2610MI00000000		
1-32 Pin		Housing Kit Assembly w/o DIN Rail Clamps	F	P599AE428444001	External fusing or output protection	
Terminal Strip Interface	100	Housing Kit Assembly w/DIN Rail Clamps	P599AE428444002		recommended. 2) Min. Wire AWG 26, Max. Wire AWG 18.	32
Robot End Effector (EE) Interface		FANUC Housing Kit Assembly for PNP I/O	P599AE509838001		Internal cable available from FANUC.	8

<sup>\*</sup> Maximum number of valve stations is determined by:

<sup>·</sup> Combination of all stations cannot exceed 32 solenoids.



<sup>•</sup> The electrical connection type.

The valve type - single solenoid valves up to the maximum solenoid outputs allowed by the electrical connection type (see chart above) or a combination of single and/or double solenoid valves not to exceed the maximum number of solenoid outputs allowed.

a combination of single and/or double solenoid valves not to exceed the maximum number of solenoid outputs allowed.

### **Accessories Kit**

Accessories	Product Image	Descr	intion	Port		Part Number			
Kit	(Example Only)	2000.		Number	<b>501 Series</b> (11mm)	<b>502 Series</b> (18mm)	<b>503 Series</b> (26mm)		
Blank Station Plate Kit			a manifold station ure use.	-	P501AB429685001	P502AB431813001	P503AB428359001		
DIN Rail Clamp Kit	4 m — 4 m —	to a machine includes hardwa the m	nanifold assembly via DIN Rail. Kit ure for each end of anifold. ail not included.	-	239-980				
				1	P501AD431915001	P502AD431914001	P503AD431191001		
		Used to isolate 1, 3 & 5 galleries of the manifold internally. NOTE: Includes tag to label ports blocked.		3	P501AD431915002	P502AD431914002	P503AD431191002		
				5	P501AD431915003	P502AD431914003	P503AD431191003		
Blocking Disc Kit				1+3	P501AD431915004	P502AD431914004	P503AD431191004		
				1+5	P501AD431915005	P502AD431914005	P503AD431191005		
				3+5	P501AD431915006	P502AD431914006	P503AD431191006		
				1, 3, 5	P501AD431915007	P502AD431914007	P503AD431191007		
Internal Muffler Element		Muffler	element	-	427991-001	429372-001	426186-001		
External Gauge Adaptor Kit			1/8" NPTF and G adaptor for external gauge		-	239-	1561		
		Thread Type	Tube Size	Quantity	<b>501 Series</b> (11mm)	<b>502 Series</b> (18mm)	<b>503 Series</b> (26mm)		
		M7	4mm	10	H850A104B004N10				
Fittings		M7	6mm	10	H850A104B006N10	See Fittings Catalog	See Fittings Catalog		
		M7	1/4	10	H850A104B104N10				

# **Replacement Parts Kit**

Replacement	Product Image	D	Parts		Part Number	
Parts Kit	(Example Only)	Description	Included	<b>501 Series</b> (11mm)	<b>502 Series</b> (18mm)	<b>503 Series</b> (26mm)
Interface Mounting Kit	900 1:11 1000 1	Includes Mounting Gaskets {(1) (2) Accessories to valve or base, (1) (1) End-Plate to electrical housing], O-ring, (2) Manifold block mounting washers, (4) Electrical housing mo	(1) Body to base screws and lock	M501AU521771001	M502AU521772001	M503AU521773001
		3 – 30 PSIG Regulator Kit		-	M502AR427995001	M503AR428759001
		5 - 60 PSIG Regulator Kit		_	M502AR427995002	M503AR428759002
Regulator Replacement		10 - 130 PSIG Regulator Kit	Includes regulator	-	M502AR427995003	M503AR428759003
Kit		0.2 - 2.0 bar Regulator Kit	assembly, gaskets, screws.	-	M502AR427995004	M503AR428759004
		0.3 – 4.0 bar Regulator Kit		-	M502AR427995005	M503AR428759005
		0.7 – 9.0 bar Regulator Kit		_	M502AR427995006	M503AR428759006
		0 – 160 PSIG Regulator Gauge Head Extended		-	M502AG521734001	-
		0 - 160 PSIG Regulator Gauge Head		M501AG504541001	M502AG521734002	M503AG521734009
Describer		0 – 60 PSIG Regulator Gauge Head Extended		-	M502AG521734003	-
Regulator Gauge		0 - 60 PSIG Regulator Gauge Head	Includes gauge head, o-ring, and	_	M502AG521734004	M503AG521734010
Replacement Kit		0 – 11 bar Regulator Gauge Head Extended	hitch-pin.	-	M502AG521734005	-
		0 - 11 bar Regulator Gauge Head		M501AG504540001	M502AG521734006	M503AG521734011
		0 – 4 bar Regulator Gauge Head Extended		-	M502AG521734007	-
		0 - 4 bar Regulator Gauge Head		_	M502AG521734008	M503AG521734012





### **Adaptor Plate Kit**

The adaptor plate allows the transition from 503 Series to 502 Series and 502 Series to 501 Series in a single manifold assembly. Includes the adapter plate, transfer board, gasket, screws.

Valve Series	Product Image (Example Only)	Description	Interface	Thread Type	Supply Port 1 Size	Part Number
		503 to 502 Adaptor Plate w/PCB	Proprietary/ ISO 15407-2	NPTF		8503AT429964001
503 Series (26mm) to		503 to 502 Adaptor Plate w/o PCB (for ISO 15407-1 Mounting)	ISO 15407-1	NP1F	3/8"	8503AT429964002
502 Series (18mm)		503 to 502 Adaptor Plate w/PCB	Proprietary/ ISO 15407-2	G Tap		G503AT429964003
		503 to 502 Adaptor Plate W/o PCB (for ISO 15407-1 Mounting)	ISO 15407-1	ч пар		G503AT429964004
<b>502 Series</b> (18mm)	. 80.00 .	502 to 501 Adaptor Plate w/PCB	Proprietary	NPTF		8502AT429963001
to 501 Series (11mm)		502 to 501 Adaptor Plate w/PCB	Proprietary	G Тар		G502AT429963002

#### **Ordering Adaptor Plate Kit**

### Example Order - 502 & 501 Manifold Shown

Example Order -	502 & 501 Manifold Sn
25 Pin Sub-D	8502AVJH301VA00
Valve Station #1	R502A2B40MA00F1
Valve Station #2	R502A2B40MA00F1
Mounting #1	8502AMM21MA0010
Valve Station #3	R502A2B40MA00F1
Valve Station #4	R502A2B40MA00F1
Mounting #2	8502AMM21MA0010
Valve Station #5	R501A2B40MA00F1
Valve Station #6	R501A2B40MA00F1
Valve Station #7	R501A2B40MA00F1
Valve Station #8	R501A2B40MA00F1
Mounting #3	H501AMM4BMA0010
	Assembled



 $^{\star}$  Example purposes only. 502 Series to 501 Series Manifold shown.

NOTE: When looking at Cylinder Ports, Adaptor Plate can only be used to transition from 503 Series to 502 Series or 502 Series to 501 Series valves starting from the left side of a Manifold Assembly.





# Mid-Station Supply Manifold Block Kit

Valve Series	Product Image (Example Only)	Description	Interface	Thread Type	Supply Port 1 Size	Part Number
	i.			Matria Thread	M7	H501AZM8BTA0010
				Metric Thread	M7	H501AZM4BMA0010
					1/4	K501AZM82TA0010
501 Series	and the same of th		Proprietary		6mm	K501AZM8FTA0010
(11mm)				Push-in Fittings	1/4	K501AZM42MA0010
					6mm	K501AZM4FMA0010
					4mm (5/32)	K501AZM4DMA0010
			ISO 15407-2	NPTF	1/8	8502AZM21TA0020
			130 13407-2	G Tap	1/8	G502AZM21TA0020
			Dropriotory	NPTF	1/8	8502AZM21TA0010
			Proprietary	G Tap	1/8	G502AZM21TA0010
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1/4	K502AZM22TA0020
502 Series		Add additional supply and exhaust capacity to large manifold assemblies.	ISO 15407-2		5/16	K502AZM2GTA0020
(18mm)					6mm	K502AZM2FTA0020
				Push-in Fittings	8mm	K502AZM2HTA0020
			Proprietary	r usir iirr itungs	1/4	K502AZM22TA0010
					5/16	K502AZM2GTA0010
					6mm	K502AZM2FTA0010
					8mm	K502AZM2HTA0010
			ISO 15407-2	NPTF	1/4	8503AZM22TA0020
			100 10407-2	G Tap	1/4	G503AZM22TA0020
			Proprietary	NPTF	1/4	8503AZM22TA0010
			1 Tophotal y	G Tap	1/4	G503AZM22TA0010
	R.				1/4	K503AZM22TA0020
503 Series (26mm)			ISO 15407-2		3/8	K503AZM23TA0020
(26mm)			100 10 101 2		8mm	K503AZM2HTA0020
				Push-in Fittings	10mm	K503AZM2KTA0020
				22	1/4	K503AZM22TA0010
			Proprietary		3/8	K503AZM23TA0010
			Proprietary		8mm	K503AZM2HTA0010
					10mm	K503AZM2KTA0010





Up to 128 Solenoid Coils with 500 Series Manifold Blocks

Valve Series	Product Image (Example Only)	Description	Maximum Solenoid Capacity	Mid-Station Supply & Auxiliary Power Requirements	Interface	Thread Type	Supply Port 1 Size	Part Number
						Metric Thread	M7	H501AFM4BMA0010
		501 32+ Solenoid 4-Station	0.4	Net Describe d	Proprietary		1/4	K501AFM42MA0010
		Manifold Block w/ X32 Valve Drivers	64	Not Required	1 Tophotaly	Push-in Fittings	6mm	K501AFM4FMA0010
501	1/2						4mm (5/32)	K501AFM4DMA0010
Series (11mm)						Metric Thread	M7	H501AFM8BTA0010
		501 32+ Solenoid Mid-Station Supply & Auxiliary	400	32+ Solenoid Manifolds/	Duominton		1/4	K501AFM82TA0010
		Power 8-Station Manifold Block w/ X32 Valve Drivers	128	Islands	Proprietary	Push-in Fittings	6mm	K501AFM8FTA0010
							4mm (5/32)	K501AFM8FT96X10*
					ISO	NPTF	1/8	8502AFM41TA0020
					15407-2	G Tap	1/8	G502AFM41TA0020
			80	32+ Solenoid Manifolds/ Islands	Proprietary	NPTF	1/8	8502AFM41TA0010
					Порпесату	G Tap	1/8	G502AFM41TA0010
	The state of	502 32+ Solenoid Mid-Station Supply & Auxiliary					1/4	K502AFM42TA0020
502	20.6				ISO		5/16	K502AFM4GTA0020
Series (18mm)	July 2.	Supply & Auxiliary Power 4-Station Manifold Block w/			15407-2		6mm	K502AFM4FTA0020
	The same of the sa	X16 Valve Drivers				Push-in	8mm	K502AFM4HTA0020
						Fittings	1/4	K502AFM42TA0010
	3				Proprietary		5/16	K502AFM4GTA0010
					roprictary		6mm	K502AFM4FTA0010
							8mm	K502AFM4HTA0010
					ISO	NPTF	1/4	8503AFM42TA0020
					15407-2	G Tap	1/4	G503AFM42TA0020
	10.				Proprietary	NPTF	1/4	8503AFM42TA0010
	12/13/10	500.00			1 Topriotally	G Tap	1/4	G503AFM42TA0010
	The same of the sa	503 32+ Solenoid Mid-					1/4	K503AFM42TA0020
503		Station Supply & Auxiliary	80	32+ Solenoid Manifolds/	ISO		3/8	K503AFM43TA0020
Series (26mm)		Power 4-Station Manifold Block	00	Islands	15407-2		8mm	K503AFM4HTA0020
		w/ X16 Valve Drivers				Push-in	10mm	K503AFM4KTA0020
		211/013				Fittings	1/4	K503AFM42TA0010
	66.				Proprietary		3/8	K503AFM43TA0010
					Proprietary		8mm	K503AFM4HTA0010
							10mm	K503AFM4KTA0010

 $<sup>^{\</sup>star}$  Option 96X overrides the port size for stations 5 – 8 of the X32 manifold block with 4mm (5/32) Push-in fittings.

NOTE: The Up to 128 Solenoid Coil blocks are required for valve manifolds/islands with more than 32 solenoid coils. It is highly recommended that the online DPM configurator is used when configuring extended solenoid coil manifolds/islands to eliminate errors and to save time.

Supported Protocols	580 Communication Node	G3 Communication Node and I/O
CC-Link IE Field™	-	J
EtherCAT <sup>®</sup>	J	J
Ethernet POWERLINK®	J	J
EtherNet/IP™ DLR	J	J
Modbus® TCP/IP	-	J
PROFIBUS® DP	√ .	√
PROFINET®	J	J
Valve Sub-bus	√	√



#### Internal/External Pilot Selection

#### **Individual Subbase**



NOTE: Individual Subbases are factory set for internal pilot supply. To convert to external pilot supply install M4 plug P.N. 129-216 (sold separately) down inside in the pressure port (1). Remove the 1/8 pipe plug from port 14 to supply pilot pressure.

### **Manifold Assembly**



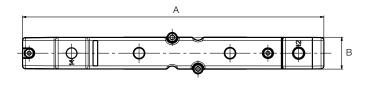


External Pilot Supply Plug Location

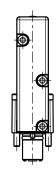


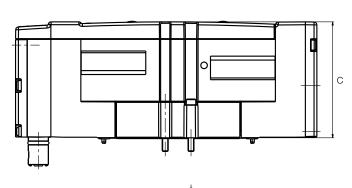
NOTE: Manifold Assemblies are factory set for internal pilot supply. To convert to external pilot supply install pilot supply seal screws 501 Series: 127-803, 502 & 503 Series: 426188-001, as shown in the pictures.

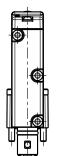
# 501 Series Plug-in Valve

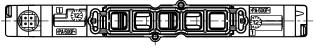










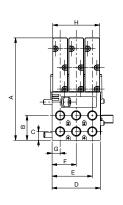


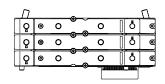
Weight	Valve	Manifol	d Block	End	
g	Body	3-Station	4-Station	Plates	
lbs	0.205	0.50	0.60	1.20	
(kg)	(0.093)	(0.23)	(0.27)	(0.54)	

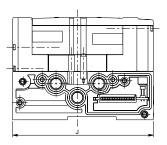
Α	В	С
105	11	40.4
(4.13)	(0.43)	(1.59)

# **Plug-in Valve Mounted**

### **3-Station Manifold Block**







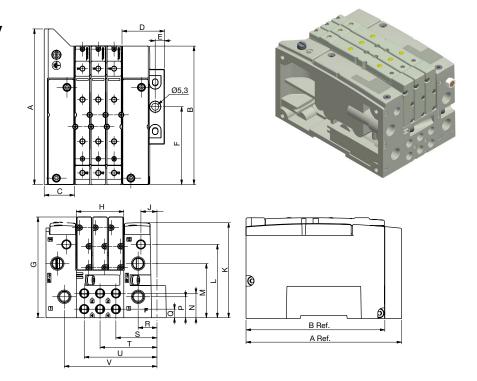


Α	В	С	D	E	F	G	Н	J
76.4	18.5	6.5	36	30	18	6	35	105
(3.008)	(0.728)	(0.26)	(1.42)	(1.18)	(0.71)	(0.236)	(1.38)	(4.13)

# Dimensions: mm (inches)

# **Plug-in Valve Mounted**

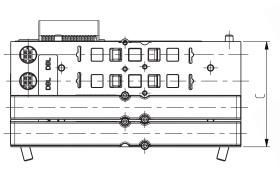
# 3-Station Manifold Assembly



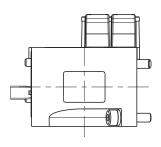
Α	В	С	D	Е	F	G	Н	J	K	L	М	N	Р	Q	R	S	T	U	V
118	105	23	32.3	7.1	59	76.4	36	12.2	72	55.6	41.1	18.5	15.9	6.5	14.3	31.2	43.2	55.2	70.3
(4.646)	(4.134)	(0.91)	(1.27)	(0.28)	(2.32)	(3.008)	(1.42)	(0.48)	(2.84)	(2.19)	(1.618)	(0.73)	(0.626)	(0.26)	(0.56)	(1.23)	(1.7)	(2.173)	(2.768)

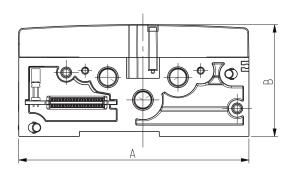


# 501 Series Mid-Station Supply Block



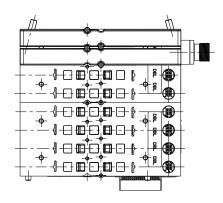




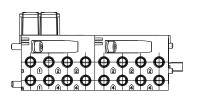


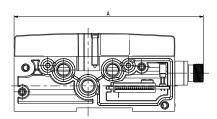
Α	В	С
105	51	48
(4.13)	(2.01)	(1.89)

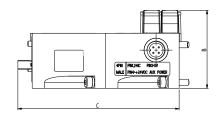
501 Series 32+ Solenoid Mid-Station & Auxiliary Power 8-Station Manifold Block with X32 Valve Drivers









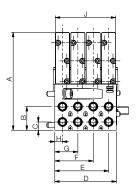


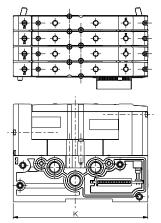
Weight
lbs (kg)
1.45
(0.66)

Α	В	С
123.6	51	105.3
(4.87)	(2.01)	(4.15)

# **Plug-in Valve Mounted**

#### **4-Station Manifold Block**





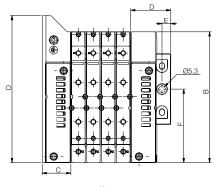


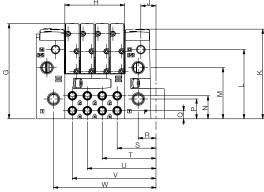
Α	В	С	D	E	F	G	Н	J	K
76.4	18.5	6.5	48	42	30	18	6	47	105
(3.008)	(0.728)	(0.256)	(1.890)	(1.653)	(1.181)	(0.709)	(0.236)	(1.850)	(4.134)

# Dimensions: mm (inches)

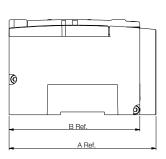
# **Plug-in Valve Mounted**

# **4-Station Manifold Assembly**







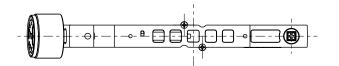


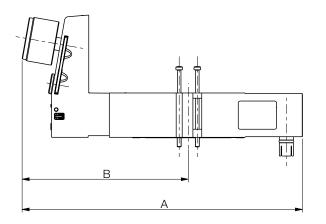
Α	В	С	D	E	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	V	W
118	105	23	32.3	7.1	59	76.4	48	12.2	72	55.6	41.1	18.5	15.9	6.5	14.3	31.2	43.2	55.2	67.2	82.3
(4.65)	(4.13)	(0.90)	(1.27)	(0.28)	(2.32)	(3.01)	(1.89)	(0.48)	(2.83)	(2.19)	(1.62)	(0.73)	(0.63)	(0.26)	(0.56)	(1.23)	(1.70)	(2.17)	(2.65)	(3.24)

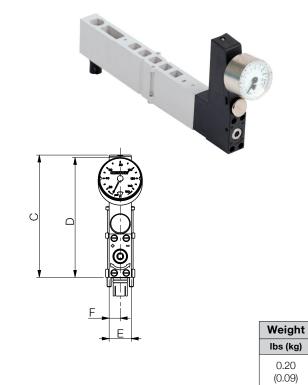


# **Sandwich Pressure Regulator**

# **Single Regulator**



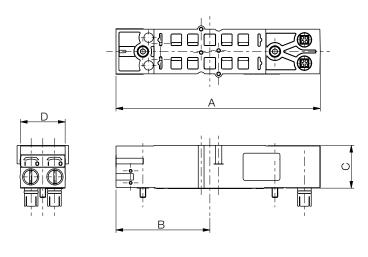




				_		,
Α	В	С	D	E	F	
139.1	82.5	60.7	59.5	11	5.5	
5.476)	(3.248)	(2.390)	(2.342)	(0.433)	(0.216)	

## Dimensions: mm (inches)

### Sandwich Shut Off Block Kit





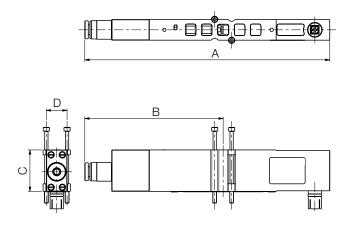
Weight
lbs (kg)
0.25 (0.11)

Α	В	С	D
105.2	48.4	22	23
(4.142)	(1.905)	(0.866)	(0.905)





### Sandwich Pressure Block Kit



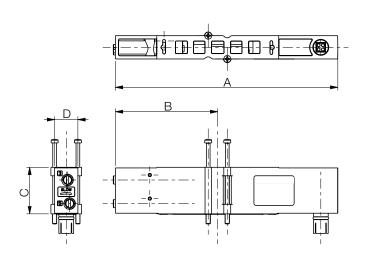


Weight							
lbs (kg)							
0.15 (0.07)							

Α	В	С	D
130.1	73.5	22.0	11.0
(5.12)	(2.89)	(0.87)	(0.43)

### Dimensions: mm (inches)

# Sandwich Speed Control Kit



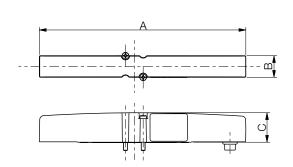


Weight		
lbs (kg)		
0.15 (0.07)		
(0.01)		

Α	В	С	D
105.1	48.4	22	11
(4.137)	(1.905)	(0.866)	(0.433)



#### **Blank Station Plate Kit**

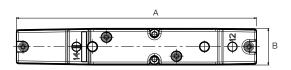




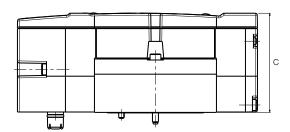
Weight							
lbs (kg)							
0.10 (0.05)							

Α	В	С
105.1	11	15
(4.138)	(0.433)	(0.591)

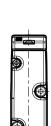
## 502 Series Plug-in Valve

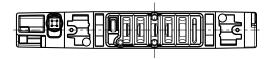










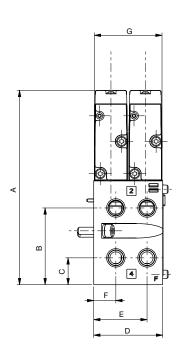


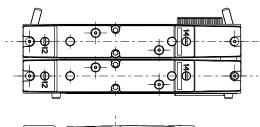
Weight	Valve	Manifold	End
	Body	Block	Plates
lbs	0.372	0.75	3.30
(kg)	(0.169)	(0.34)	(0.45)

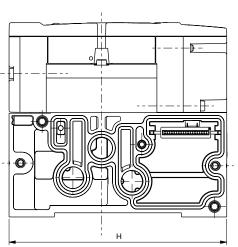
Α	В	С
120	18	49.6
(4.72)	(0.71)	(1.95)

## **Plug-in Valve Mounted**

## Plug-in Manifold Block



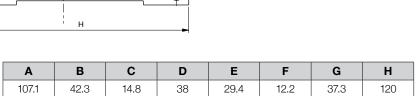




(1.665)

(0.583)

(4.217)



(1.157)

(0.48)

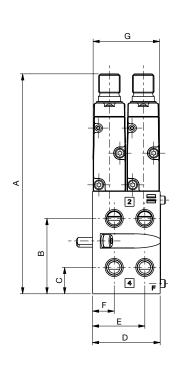
(1.469)

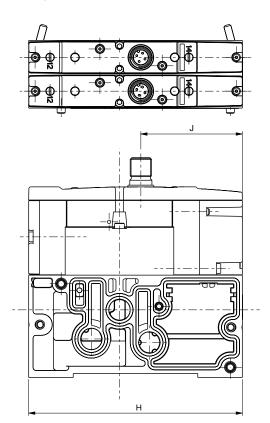
(4.724)

(1.496)

#### **M12 Valve Mounted**

## Non Plug-in Manifold Block (ISO 15407-1)



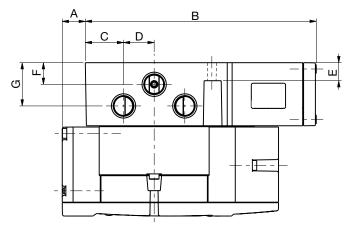




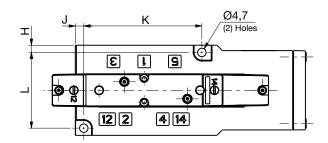
Α	В	С	D	E	F	G	Н	J
123.6	42.3	14.8	38	29.4	12.2	37.3	120	57
(4.866)	(1.665)	(0.583)	(1.496)	(1.157)	(0.48)	(1.469)	(4.724)	(2.244)

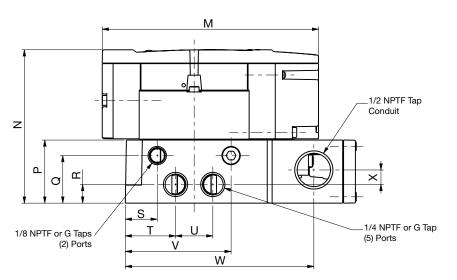
## Plug-in Valve on Individual Subbase

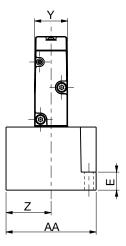
### Plug-in Individual Subbase









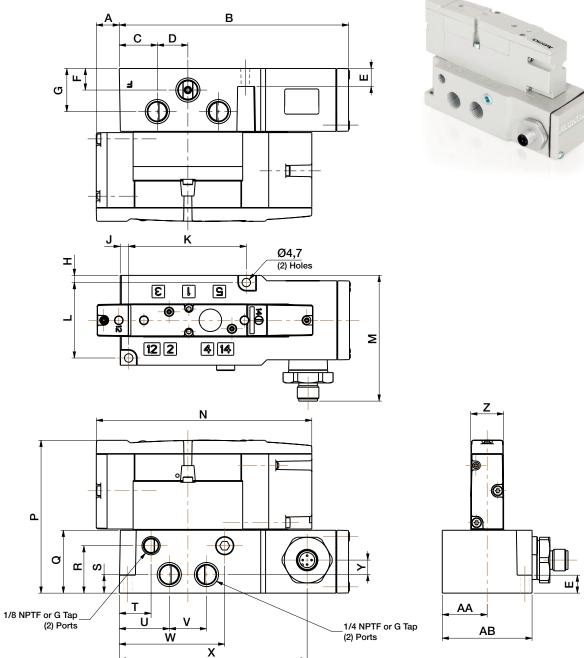


Α	В	С	D	E	F	G	Н	J	K	L	М	N
12.8	128.1	21.2	17	10	12	24	4	4.7	65.5	42	120	85.1
(0.504)	(5.043)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(4.724)	(3.35)

P	Q	R	S	Т	U	V	W	Х	Y	Z	AA
35	26.4	10.4	17.7	27.9	20.7	58.7	104.6	8.1	18.3	25	50
(1.378)	(1.039)	(0.409)	(0.697)	(1.098)	(0.815)	(2.311)	(4.118)	(0.319)	(0.72)	(0.984)	(1.969)

## Plug-in Valve on Individual Subbase

### M12 Individual Subbase (ISO 15407-2)



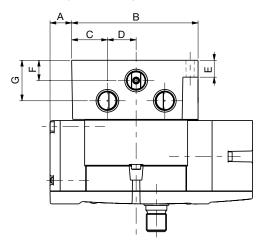
Α	В	С	D	E	F	G	Н	J	K	L	М	N
12.8	128.1	21.2	17	10	12	24	4	4.7	65.5	42	70	120
(0.504)	(5.043)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(2.756)	(4.724)

P	Q	R	S	Т	U	V	W	Х	Y	Z	AA	AB
85.1	35	26.4	10.4	17.7	27.9	20.7	58.7	104.6	8.1	18.3	25	50
(3.35)	(1.378)	(1.039)	(0.409)	(0.697)	(1.098)	(0.815)	(2.311)	(4.118)	(0.319)	(0.72)	(0.984)	(1.969)

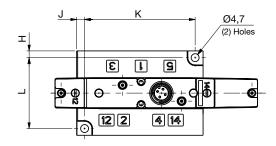


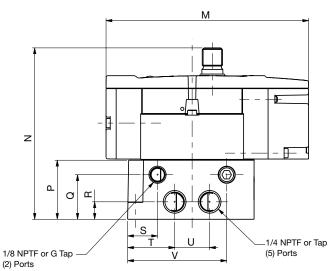
## Non Plug-in Valve on Individual Subbase

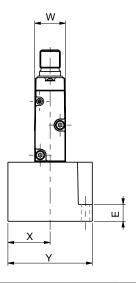
## Non Plug-in Individual Subbase (ISO 15407-1)











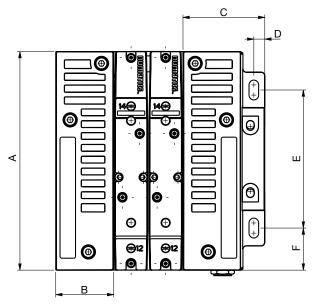
Α	В	С	D	E	F	G	Н	J	K	L	М	N
12.8	74.9	21.2	17	10	12	24	4	4.7	65.5	42	120	101.6
(0.504)	(2.949)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(4.724)	(4)

Р	Q	R	S	Т	U	V	W	Х	Υ
35	26.4	10.4	17.7	27.9	20.7	58.7	18.3	25	50
(1.378)	(1.039)	(0.409)	(0.697)	(1.098)	(0.815)	(2.311)	(0.72)	(0.984)	(1.969)

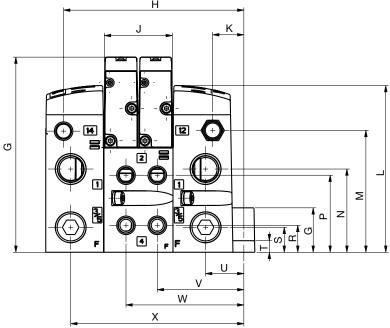


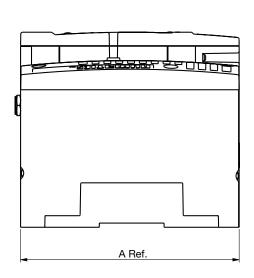


## **Manifold Assembly with Vertical End Plates**





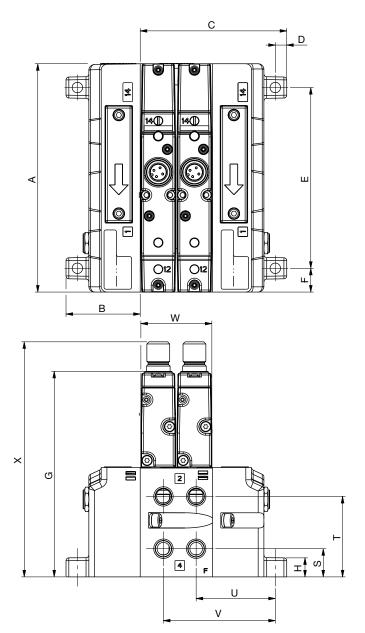




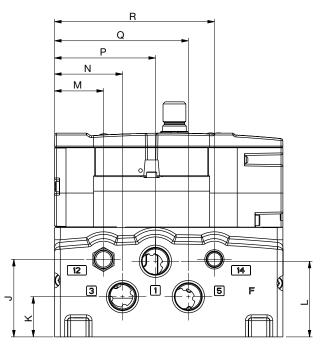
Α	В	С	D	E	F	G	Н	J	K	L
120	31.9	44.9	6	75.8	23.1	107.1	98.9	37.3	17.1	91.6
(4.724)	(1.256)	(1.768)	(0.236)	(2.984)	(0.909)	(4.217)	(3.894)	(1.469)	(0.673)	(3.606)

М	N	Р	Q	R	S	Т	U	V	W	Х
66.9	45.7	42.3	24.4	14.8	13.7	6.35	21	47.5	64.7	95
(2.634)	(1.799)	(1.665)	(0.961)	(0.583)	(0.539)	(0.25)	(0.827)	(1.87)	(2.547)	(3.74)

## **Manifold Assembly with Horizontal End Plates**







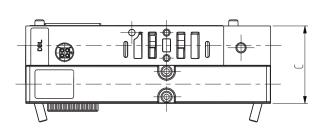
Α	В	С	D	Е	F	G	Н	J	K	L
120.0	39.0	39.0	6.0	95.0	12.5	108.1	10.0	40.8	21.2	39.8
(4.72)	(1.54)	(1.54)	(0.24)	(3.74)	(0.49)	(4.26)	(0.39)	(1.61)	(0.83)	(1.57)

M	N	P	Q	R	S	Т	U	٧	W	X
25.7	35.7	53.0	70.3	84.0	14.8	42.3	41.6	58.8	37.3	123.6
(1.01)	(1.41)	(2.09)	(2.77)	(3.31)	(0.58)	(1.67)	(1.64)	(2.31)	(1.47)	(4.87)

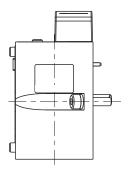


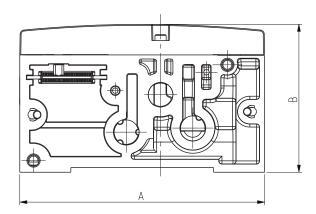


# 502 Series Mid-Station Supply Block







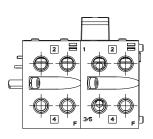


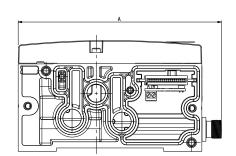
Α	В	С
120	72.5	38
(4.72)	(2.85)	(1.50)

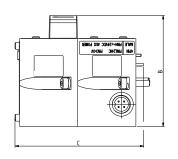
502 Series Mid-Station Supply/Auxiliary Power Manifold Block with X32 Solenoid Coils Kit









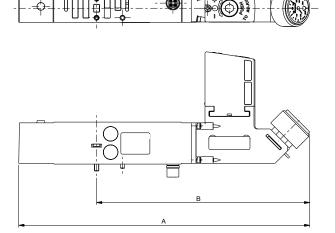


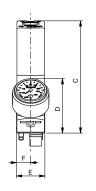
Weight				
lbs (kg)				
1.70				
(0.77)				

Α	В	С
132.7	72.5	84
(5.22)	(2.85)	(3.31)

## **Sandwich Pressure Regulator**

### **Single Regulator**





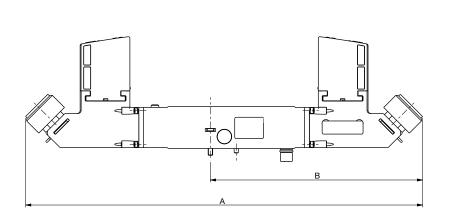


Weight
lbs (kg)
0.65 (0.30)

Α	В	С	D	E	F
190.6	139.6	73.5	35.6	18.6	9.3
(7.504)	(5.496)	(2.894)	(1.402)	(0.732)	(0.366)

### Dimensions: mm (inches)

### **Double Regulator**

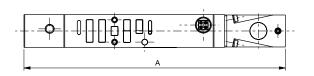


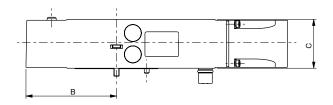


Weight
lbs (kg)
1.05 (0.48)

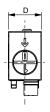
Α	В	С	D	E	F
261.2	139.6	73.5	35.6	18.6	9.3
(10.283)	(5.496)	(2.894)	(1.402)	(0.732)	(0.366)

#### Sandwich Shut Off Block Kit







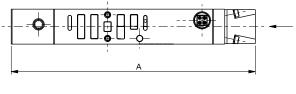


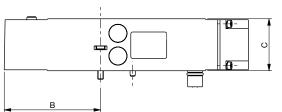
Weight				
lbs (kg)				
0.30 (0.14)				

Α	В	С	D
147.2	51	27.5	18.5
(5.795)	(2.008)	(1.083)	(0.728)

### Dimensions: mm (inches)

#### Sandwich Pressure Block Kit





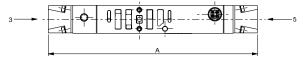




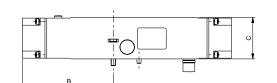
Α	В	С	D
129.2	51	27.5	18.5
(5.087)	(2.008)	(1.083)	(0.728)



#### Sandwich Exhaust Block Kit







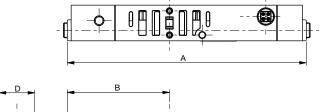


Weight
lbs (kg)
0.30
(0.14)

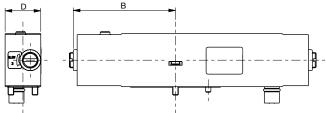
Α	В	D		
138.4	60.2	27.5	18.5	
(5.449)	(2.37)	(1.083)	(0.728)	

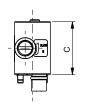
### Dimensions: mm (inches)

### **Sandwich Speed Control Kit**





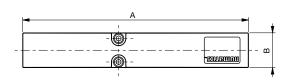


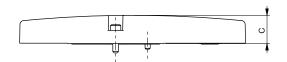


Weight
lbs (kg)
0.30 (0.14)

Α	В	С	D
124	53	27.5	18.5
(4.882)	(2.087)	(1.083)	(0.728)

### **Blank Station Plate Kit**

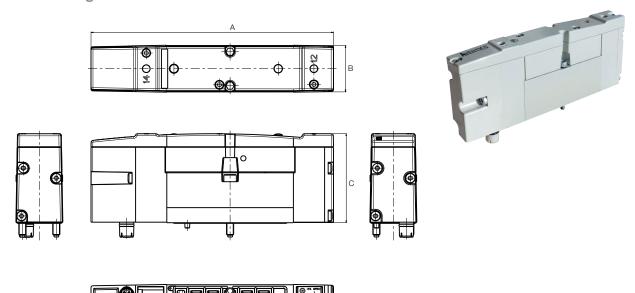


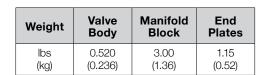




Α	В	С		
120	18.5	15		
(4.724)	(0.728)	(0.591)		

## 503 Series Plug-in Valve



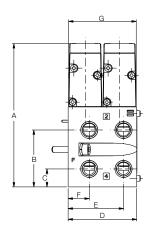


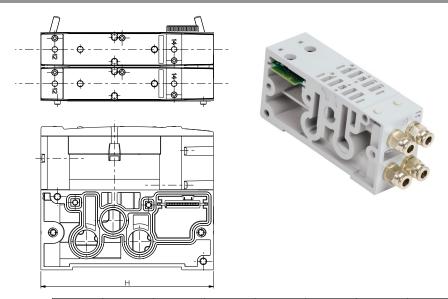
Α	В	С
136	26	50
(5.35)	(1.02)	(1.97)



## **Plug-in Valve Mounted**

## Plug-in Manifold Block



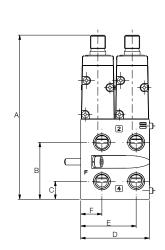


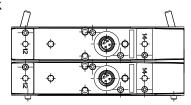
A	В	С	D	E	F	G	Н
2.9	44.9	14.2	54	43.7	16.7	53.3	136
445)	(1.768)	(0.56)	(2.13)	(1.72)	(0.66)	(2.098)	(5.35)

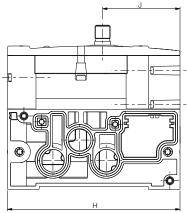
#### Dimensions: mm (inches)

M12 Valve Mounted (ISO 15407-1)

## 2-Station Plug-in Manifold Block







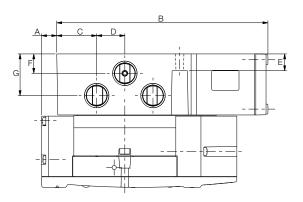
	] -
Н	

Α	В	С	D	E	F	G	Н	J
129.4	44.9	14.2	54	43.7	16.7	53.3	136	61
(5.094)	(1.768)	(0.56)	(2.13)	(1.72)	(0.66)	(2.098)	(5.35)	(2.4)

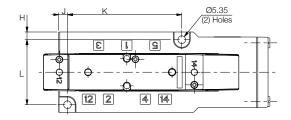


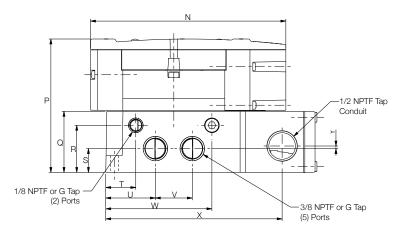
## Plug-in Valve Mounted on Individual Subbase

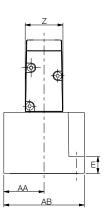
### Plug-in Individual Subbase









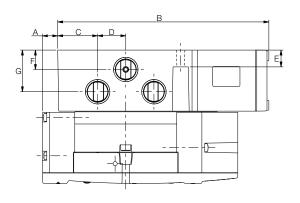


Α	В	С	D	E	F	G	Н	J	K	L	N	P
10.6 (0.417)	147 (5.787)	27.8 (1.09)	19.6 (0.77)	11.7 (0.46)	13.5 (0.53)	29 (1.142)	5.4 (0.21)	6.1 (0.24)	79.6 (3.13)	45.3 (1.78)	136 (5.35)	92.9 (3.657)
		-	_	-		\/	147	V	V	-		4.0

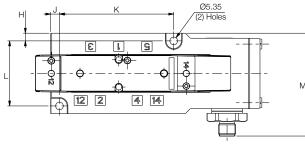
Q	R	S	Т	U	V	W	X	Y	Z	AA	AB
42.5	32.8	16.6	20.9	34.5	25.7	73.9	1.8	26.3	28	28	56
(1.67)	(1.29)	(0.65)	(0.82)	(1.36)	(1.01)	(2.91)	(0.071)	(1.04)	(1.1)	(1.1)	(2.2)

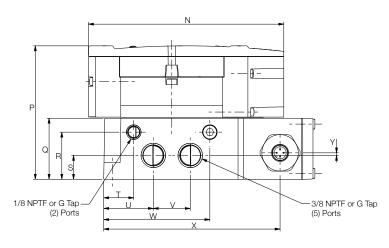
## Plug-in Valve Mounted on Individual Subbase

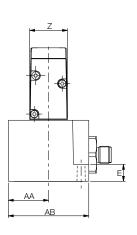
### M12 Individual Subbase (ISO 15407-2)











Α	В	С	D	E	F	G	Н	J	K	L	M	N
10.6	147	27.8	19.6	11.7	13.5	29	5.4	6.1	79.6	45.3	71.6	136
(0.417)	(5.787)	(1.09)	(0.77)	(0.46)	(0.53)	(1.142)	(0.21)	(0.24)	(3.13)	(1.78)	(2.819)	(5.35)

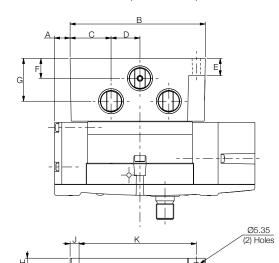
Р	Q	R	S	Т	U	V	W	Х	Y	Z	AA	AB
92.9	42.5	32.8	16.6	20.9	34.5	25.7	73.9	122.8	1.8	26.3	28	56
(3.657)	(1.67)	(1.29)	(0.65)	(0.82)	(1.36)	(1.01)	(2.91)	(4.835)	(0.071)	(1.04)	(1.1)	(2.2)



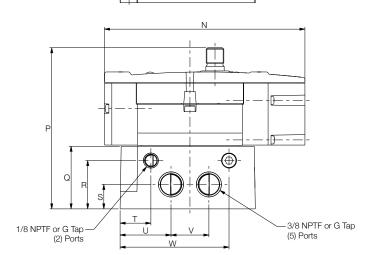


#### M12 Valve Mounted on Individual Subbase

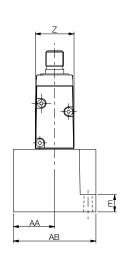
### Non Plug-in Individual Subbase (ISO 15407-1)







4 14

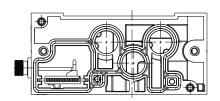


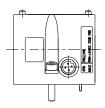
Α	В	С	D	E	F	G	Н	J	K	L	N	Р
10.6	91.7	27.8	19.6	11.7	13.5	29	5.4	6.1	79.6	45.3	136	109.4
(0.417)	(3.61)	(1.09)	(0.77)	(0.46)	(0.53)	(1.142)	(0.21)	(0.24)	(3.13)	(1.78)	(5.35)	(4.307)

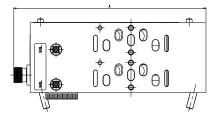
Q	R	S	Т	U	V	W	Х	Y	Z	AA	AB
42.5	32.8	16.6	20.9	34.5	25.7	73.9	26.3	28	56	28	56
(1.67)	(1.29)	(0.65)	(0.82)	(1.36)	(1.01)	(2.91)	(1.04)	(1.1)	(2.2)	(1.1)	(2.2)



## Plug-in V Wiring





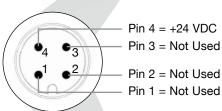


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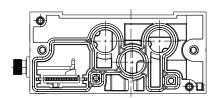
Α	В	С
148.7	54	63
(5.85)	(2.13)	(2.48)

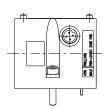
**V & W Wiring Options** 

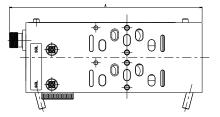


## Dimensions: mm (inches)

## Plug-in W Wiring

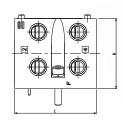






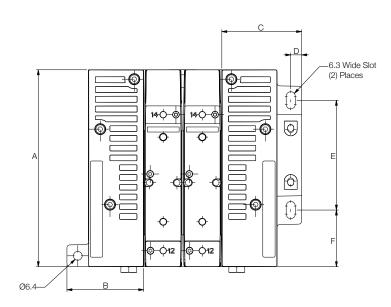
Α	В	С			
148.7	54	63			
(5.85)	(2.13)	(2.48)			



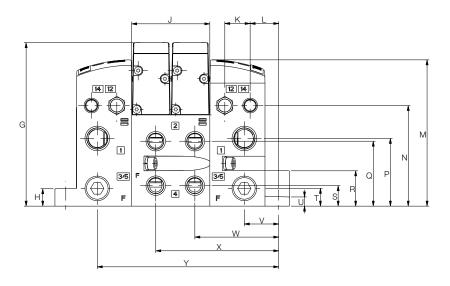


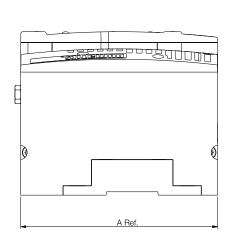


## **Manifold Assembly with Vertical End Plates**









Α	В	С	D	E	F	G	Н	J	K	L	М
136 (5.354)	53 (2.087)	55.1 (2.17)	7.5 (0.3)	75.8 (2.98)	39.1 (1.54)	112.9 (4.445)	12 (0.47)	54 (2.13)	17.5 (0.69)	19.8 (0.78)	101.1 (3.98)
	N	Р	Q	R	S	Т	U	٧	W	Х	Υ
	69.5	46.8	44.9	24.4	14.2	12.3	6.4	23.8	58	85	125.4

(0.48)

(0.25)

(0.94)

(2.28)



(2.74)

(1.843)

(1.77)

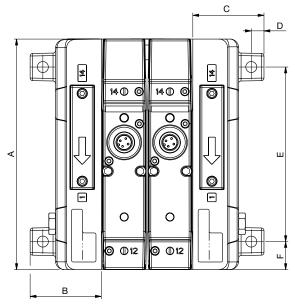
(0.96)

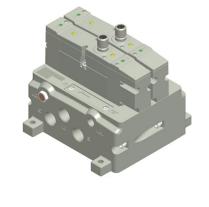
(4.937)

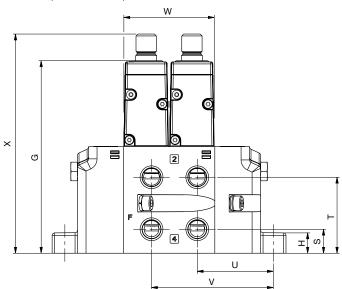
(3.346)

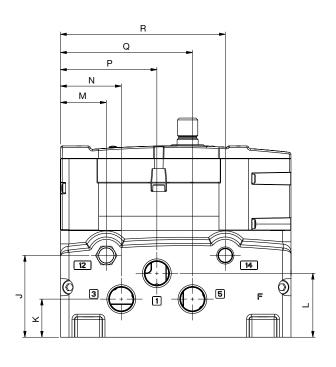
(0.56)

## **Manifold Assembly with Horizontal End Plates**





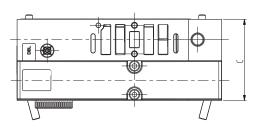


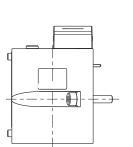


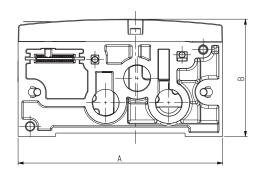
Α	В	С	D	E	F	G	Н	J	K	L
136.0	42.0	42.0	7.5	103.0	16.5	113.6	12.0	48.3	22.5	37.8
(5.35)	(1.65)	(1.65)	(0.30)	(4.06)	(0.65)	(4.47)	(0.47)	(1.90)	(0.89)	(1.49)

M	N	P	Q	R	S	Т	U	V	W	Х
27.0	35.9	56.9	77.9	97.3	14.2	44.9	44.9	71.9	53.3	129.4
(1.06)	(1.41)	(2.24)	(3.07)	(3.83)	(0.56)	(1.77)	(1.77)	(2.83)	(2.10)	(5.09)

# 503 Series Mid-Station Supply Block



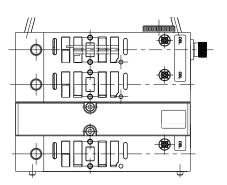


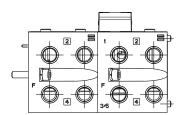


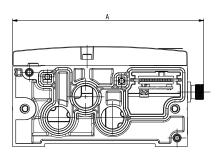


Α	В	С
136	78	54
(5.35)	(3.07)	(2.13)

503 Series Mid-Station Supply/Auxiliary Power Manifold Block with X32 Solenoid Coils Kit

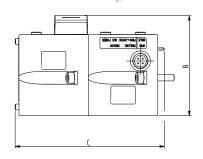












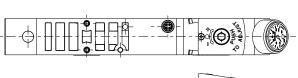
Weight
lbs (kg)
2.60 (1.18)

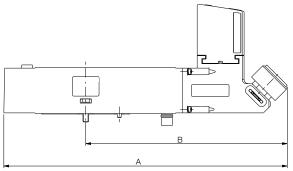
Α	В	С
148.6	77.8	116.1
(5.85)	(3.06)	(4.57)

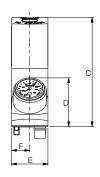


## **Sandwich Pressure Regulator**

### **Single Regulator**







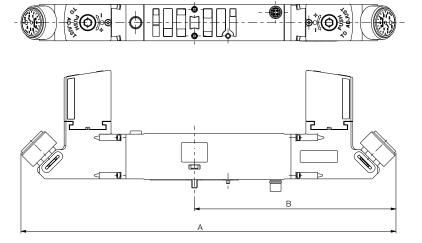
Weight	

0.95 (0.43)

Α	В	С	D	E	F
202.7	144.1	78.2	34.8	26	13
(7.98)	(5.673)	(3.08)	(1.37)	(1.02)	(0.51)

### Dimensions: mm (inches)

### **Double Regulator**

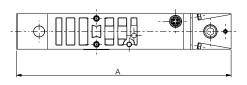


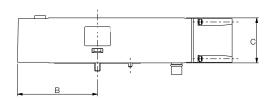


Α	В	С	D	E	F
268.2	144.1	78.2	34.8	26	13
(10.56)	(5.673)	(3.08)	(1.37)	(1.02)	(0.51)



#### Sandwich Shut Off Block Kit







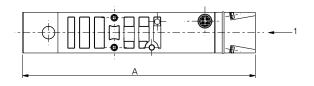


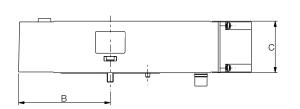
Weight	
lbs (kg)	
0.45	
(0.20)	

Α	В	С	D
157.3	58.6	33	26.5
(6.193)	(2.307)	(1.3)	(1.04)

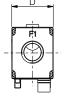
### Dimensions: mm (inches)

#### Sandwich Pressure Block Kit







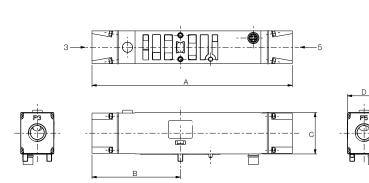


Weight
lbs (kg)
0.45 (0.20)

Α	В	С	D
148.8	58.6	33	26.5
(5.858)	(2.307)	(1.3)	(1.04)



#### Sandwich Exhaust Block Kit



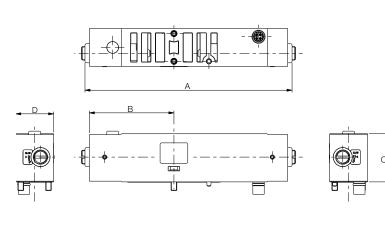


Weight
lbs (kg)
0.50
(0.23)

Α	В	С	D
159.2	70.2	33	26.5
(6.268)	(2.764)	(1.3)	(1.04)

### Dimensions: mm (inches)

### **Sandwich Speed Control Kit**

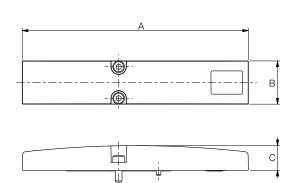




Weight
lbs (kg)
0.55 (0.25)

Α	В	С	D		
142	58	33	26		
(5.591)	(2.283)	(1.3)	(1.02)		

### **Blank Station Plate Kit**



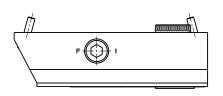


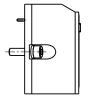
Weight
lbs (kg)
0.20 (0.09)

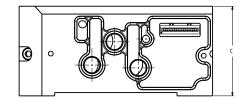
Α	В	С
136	26	14.8
(5.354)	(1.024)	(0.58)

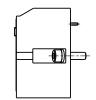
### **Adaptor Plate Kit**

#### 503 Valve Series to 502 Valve Series



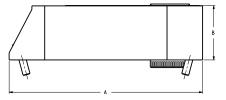








Weight
lbs (kg)
1.50
(0.68)

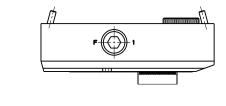


Α	В	С
136	38.25	63
(5.35)	(1.51)	(2.48)

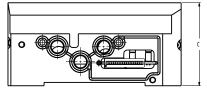
### Dimensions: mm (inches)

### **Adaptor Plate Kit**

### 502 Valve Series to 501 Valve Series









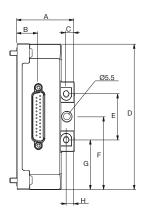


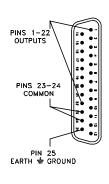


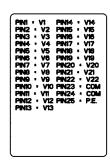
Α	В	С
120	33.5	57.5
(4.72)	(1.32)	(2.26)



#### 25 Pin Sub-D Connector Kit









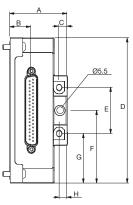
Weight
lbs (kg)
0.70 (0.32)

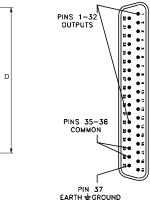


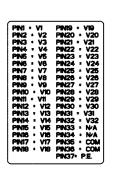
Α	В	С	D	E	F	G	Н	J	K
46.4	17	6.7	118	37.5	59	40.2	6.7	68.1	24.4
(1.827)	(0.669)	(0.26)	(4.65)	(1.48)	(2.32)	(1.58)	(0.26)	(2.68)	(0.96)

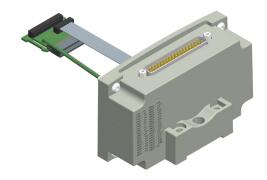
#### **Dimensions: mm (inches)**

#### 37 Pin Sub-D Connector Kit









Weight				
lbs (kg)				
0.70				
(0.32)				

ς			
			J
		к	
	D		

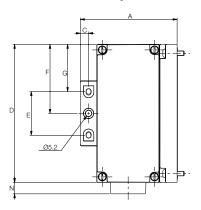
Α	В	С	D	E	F	G	Н	J	K
46.4	17	6.7	118	37.5	59	40.2	6.7	68.1	24.4
(1.827)	(0.669)	(0.26)	(4.65)	(1.48)	(2.32)	(1.58)	(0.26)	(2.68)	(0.96)



Weight

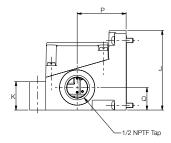
#### **Dimensions: mm (inches)**

## 1-32 Terminal Strip Kit







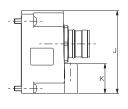


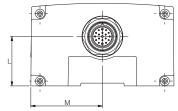
					lb	s (kg)	
					(	1.20 0.54)	
G	J	K	N	F	•	Q	

Α	С	D	E	F	G	J	K	N	P	Q
82.7	7	118	37.5	59	40.2	68.1	24.4	9.8	41.9	19.3
(3.256)	(0.28)	(4.65)	(1.48)	(2.32)	(1.583)	(2.68)	(0.96)	(0.39)	(1.65)	(0.76)

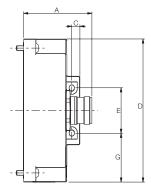
#### **Dimensions: mm (inches)**

#### 19 Pin M23 Connector Kit







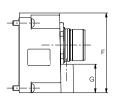


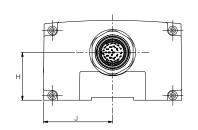


Weight				
lbs (kg)				
0.70				
(0.32)				

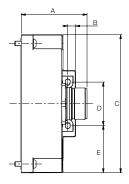
Α	С	D	E	G	J	K	L	М
56.3	6.7	118	37.5	40.2	68.1	24.4	40.8	59
(2.217)	(0.26)	(4.65)	(1.48)	(1.583)	(2.68)	(0.96)	(1.61)	(2.323)

#### 26 Pin M27 Connector Kit









PINIS - VIS	PINIB . P.E.
PIN17 - V17	PINIT + COM
PINIS - VIS	PINIS + COM
PINIS - VIS	PINES : N/A
	PINI4 + V32
PIN13 : V13	PIN13 • V31
PIN12 : V12	PIN12 * V30
PINII + VII	PINII * V29
PINIO : VIO	PINIO : V28
PIN9 : V9	PIN9 : V27
PINS : VS	PINS : V26
PIN7 : V7	PIN7 + V25
PINS : V6	PINS : V24
PINS : VS	PIN5 : V23
PIN4 - V4	PIN4 : V22
PIN3 · V3	PIN3 * V21
PIN2 * V2	PIN2 * V20
PINI · VI	PIN1 : V19
1	

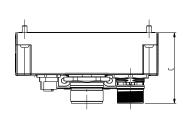
(0.32)
0.70

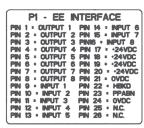
Weight lbs (kg)

Α	В	С	D	E	F	G	Н	J
56.1	6.7	118	37.5	40.2	68.1	24.4	40.8	59
(2.209)	(0.264)	(4.65)	(1.48)	(1.58)	(2.68)	(0.961)	(1.61)	(2.32)

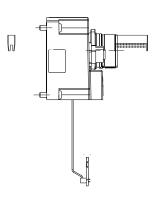
### Dimensions: mm (inches)

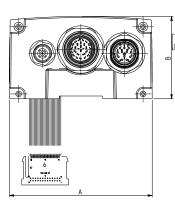
### **Robot FANUC End Effector (EE) Interface**

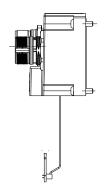












Weight
lbs (kg)
0.90 (0.41)

Α	В	С
118	68.1	58.4
(4.65)	(2.68)	(2.30)





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