Solenoid Pilot Actuated Valves

501 Series | 502 Series | 503 Series |

502 Series | Directional Control Valve







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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		Response Time (ms)	Pilot Pr at 73°I PSI (F/23°C	Operat Pressi Port PSI (bar)/inl	ıre 1	
		Return (12)		1 → 2 1 → 4	2 → 3 4 → 5	Energize/ De-Energize	min.	max	min.	max	Part Number
Rubber Packed Technology, with Manual Override											
	B1		0.460 (460)	0.465 (465)	14/29	29 (2)	115 (8)	28 (-0.95)	115 (8)	R501A2B10MA00F1	
5/2	BN	Differential Air Return	Proprietary	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		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

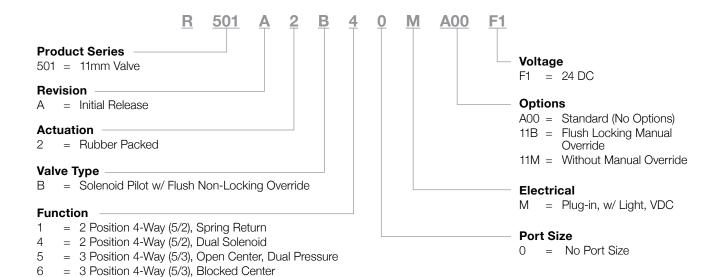
Materials in Contact w/Fluid						
Body	Aluminum, E-Coating treatment					
Spool	Aluminum or Stainless Steel					
Piston	POM					
Spring	Steel					
Spool Seals	NBR + PUR					
Other Seals	NBR + FKM					
Other materials	PAM (Polyarylamide) 50% Glass Fiber Reinforced					
Valve to Subbase Gasket	NBR			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

Operating Data

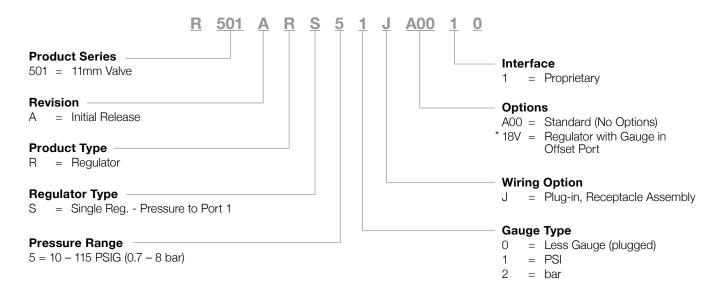
All Solenoids Are Continuous Duty Rated	24 VDC
Power (Watts)	0.8
Holding Current (Amps)	0.025
Ambient Temperature Range Min/Max °F (°C)	-14° F (-10° C)/122° F (50° C)

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

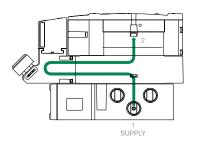


^{*} Regulator gauges must be offset with 18V option on alternating stations to prevent interference.

Sandwich Pressure Regulator Block

Type: RS



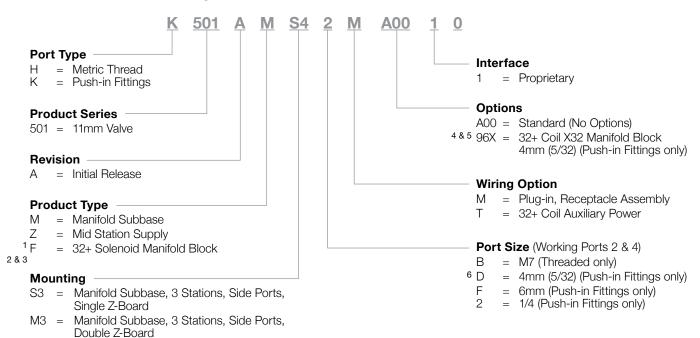




Single pressure from a single supply.



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

¹ Available with M4 mounting only

² 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

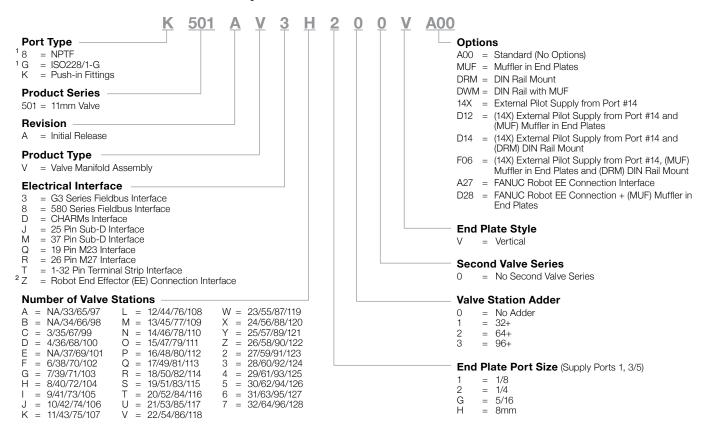
³ Product Type F available with Mounting M4 and Wiring Option M for a 4 station manifold block with X32 drivers

⁴ Option 96X is only available when F, M8, and T are selected together

⁵ Option 96X overrides the port size for the X32 manifold block only (stations 5-8)

⁶ Port Size D is not available when Product Type F, Mounting M8, and Wiring Option T is selected together

How to Order: Manifold Assembly



¹ Port Type 8 & G available in Port Size 1/8

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

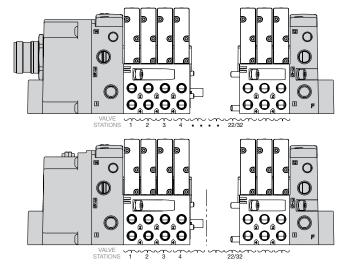
Sub-D, Terminal Strip, Round Interface, and End Effector Interface

- 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.





² 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
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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)	Rated Flow at 90 PSI Cv (I/min (ANR))		at 90 PSI Time Cv (I/min (ANR)) Respor		at 90 PSI Response Pilot Pressur. Time at 73° (Par) CV (PR)		F/23°C	Operating Pressure Port 1 PSI (bar)/inHg (-bar)		1
	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 Overri	de				
2 x 3/2	BD		Proprietary	0.650 (650)	0.600 (600)	36/15	58	115	36*	115	R502A2BD0MA00F1	
NC		Normally Closed	ISO	0.500 (500)	0.440 (440)	30/13	(4.0)	(8)	(2)	(8)	11002A2BB0WA0011	
			Spool an	d Sleeve	Technolog	y, with Manu	ıal Overr	ide	,			
	B1	4 2 12 7 1 1 W	Proprietary	0.470 (470)	0.530 (530)	16/49	29 (2)	115	28	115	R502A1B10MA00F1	
		Spring Return	ISO	0.410 (410)	0.390 (390)	10/43	(2)	(8)	(-0.95)	(8)	11002ATBTOWNAGOTT	
5/2	BN	Differential Air Return	Proprietary	0.470 (470)	0.530 (530)	11/26	22 (1.5)	115 (8)	28 (-0.95)	115 (8)	R502A1BN0MA00F1	
5/2	BIN		ISO	0.410 (410)	0.390 (390)		(1.5)				R502ATBN0MA00FT	
	B4	Solenoid Air Return	Proprietary	0.470 (470)	0.530 (530)	12/15	29 (2)	115	28	115	R502A1B40MA00F1	
	64		ISO	0.410 (410)	0.390 (390)	12/15		(8)	(-0.95)	(8)	R3UZATB4UMAUUFT	
	B5		Proprietary	0.380 (380)	0.500 (500)	23/13	22	115	28	115		
	63	Center Open to Exhaust	ISO	0.340 (340)	0.350 (350)	23/13	(1.5)	(8)	(-0.95)	(8)	R502A1B50MA00F1	
5/3	De		Proprietary	0.420 (420)	0.440 (440)		22	115	28	115	DEOG A1DCOMACOE1	
5/3	B0	Center Closed	ISO	0.360 (360)	0.350 (350)	12/12	22 (1.5)	(8)	(-0.95)	(8)	R502A1B60MA00F1	
	B7	14 M 7 T T T T T T T T T T T T T T T T T T	Proprietary	0.420 (420)	0.430 (430)	10/00	22	22 115	28	115	DE00 MDZOMACCE	
	B/	Center Open to Pressure	ISO	0.370 (370)	0.350 (350)	13/23	(1.5)	(8)	(-0.95)	(8)	R502A1B70MA00F1	

^{*} Minimum pressure with external piloting

Construction

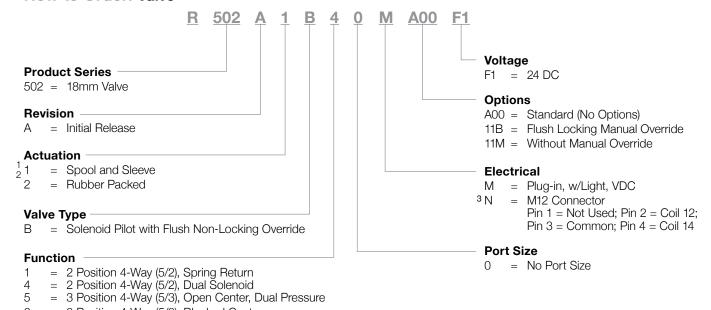
Materials in Contact w/Fluid						
Body	Aluminum, E-Coating treatment					
Spool	Aluminum or Stainless Steel					
Piston	POM					
Spring	Steel					
Spool Seals	NBR + PUR					
Other Seals	NBR + FKM					
Other materials	PAM (Polyarylamide) 50% Glass Fiber Reinforced					
Valve to Subbase Gasket	NBR			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



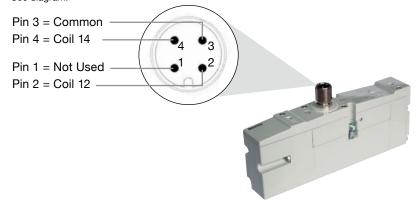
How to Order: Valve



¹ Not available with Function D

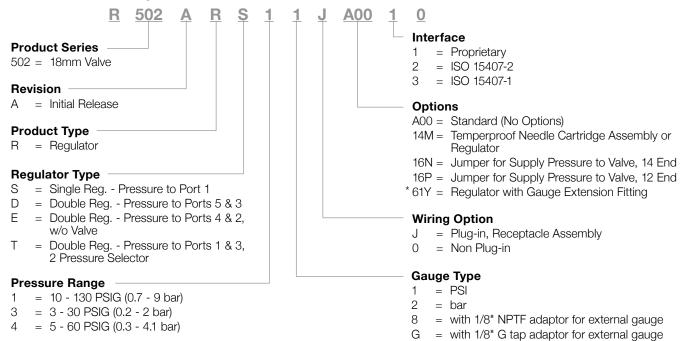
 2 Available with Function D only

³ See diagram:



= 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



^{*} Regulator gauges must be offset with 61Y option on alternating stations to prevent interference.

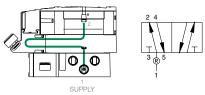
Sandwich Pressure Regulator Block

Types: RS / RD / RE / RT



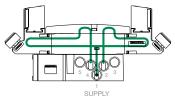
ISO 15407-2/15407-1 Interface

Type RS



Single pressure from a single supply.

Type RE

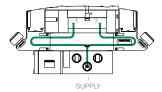


External outlet regulator used with jumper plate for single or dual pressure.



Proprietary Interface

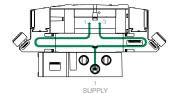
Type RD





Dual pressure from a single supply.

Type RT

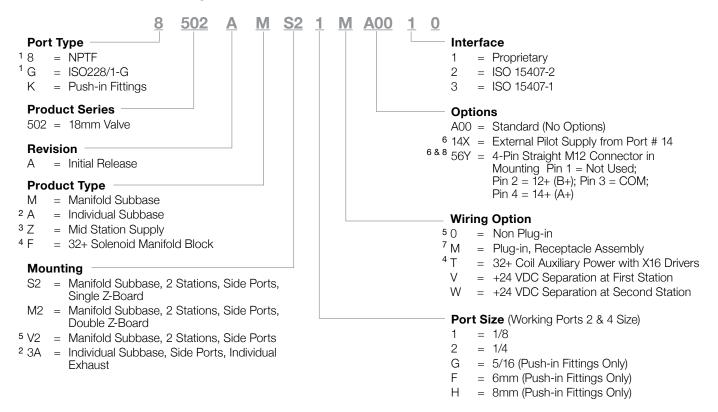




Two-pressure selector used for multi-pressure applications.

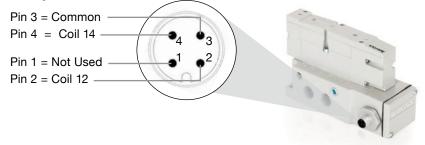


How to Order: Mounting



¹ Port Type 8 & G available in 1/8 size for Product Type F, M and Z or 1/4 for Product Type A

⁸ See diagram:



² Not available with proprietary interface, only available with 1/4 port size

³ Only available with M2 and V2 mountings

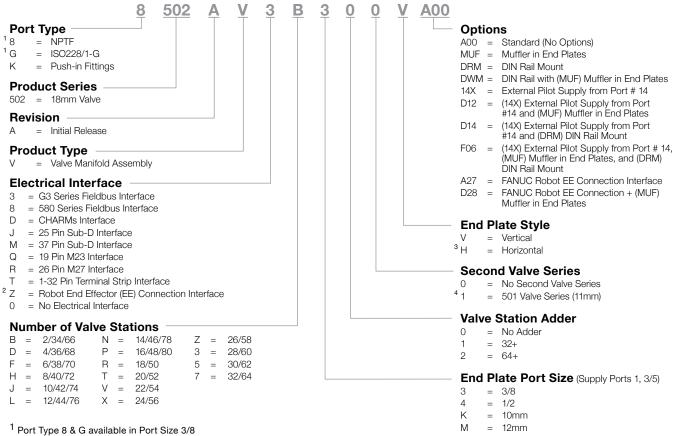
 $^{^4}$ 32+ Coil Rule: Product Type F, Mounting M4, and Wiring Option T must all be selected together

⁵ Only available with ISO 15407-1 Interface

⁶ Available with 3A mounting only

⁷ 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

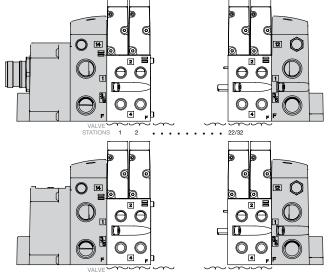
• Shaded components described by Assembly Kit model number designation

• 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 R502A2B40MA00F1 Valve Station #6 Mounting #3 8502AMM21MA0010 Assembled

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



² FANUC EE Interface (A27 or D28) must be selected under Options

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

 $^{^4}$ 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
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 - 80 valve solenoids per manifold
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 - 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

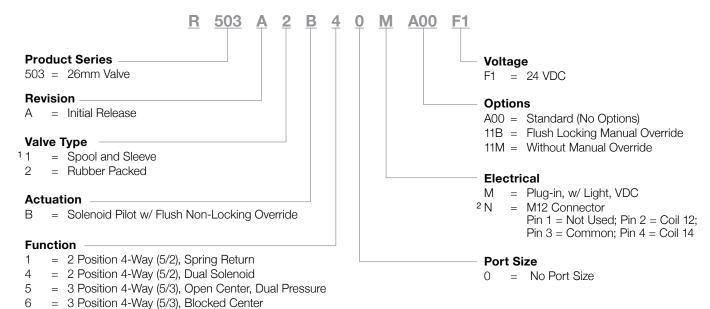
All Solenoids Are Continuous Duty Rated	24 VDC
Power (Watts)	1.7
Holding Current (Amps)	0.071
Ambient Temperature Range Min/Max °F (°C)	-14° F (-10° C)/122° F (50° C)

Performance Data

				Rated Flow		Door	Pilot Pressure		Operating Pressure			
Function Type	Function Code	ISO Symbol Pilot (14) Return (12)	Interface	at 90 C (I/min	O PSI CV (ANR))	Response Time (ms)	at 73°	F/23°C (bar)	Pressi Port PSI (bar)/inl	1		
		neturii (12)		1 2 1 4	2 3 3 5	Energize/ De-Energize	min.	max	min.	max	Part Number	
			Rubbe	r Packed		gy, with Manı	ual Over	ride				
	B1	4 2 12 14 5 1 3 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)		(=/	(4)	(3.33)	(4)		
5/2	BN	4 2	Proprietary	1.422 (1400)	1.321 (1300)	28/40	44 (3)	115 (8)	28 (-0.95)	115 (8)	R503A2BN0MA00F1	
		Differential Air Return	ISO	1.220 (1200)	1.118 (1100)		(0)	(6)	(-0.93)	(6)		
	B4	14 2	Proprietary	1.422 (1400)	1.321 (1300)	20/20	29 (2)	115	28 (-0.95)	115	R503A2B40MA00F1	
		Solenoid Air Return	ISO	1.220 (1200)	1.118 (1100)		(2)	(8)	(-0.95)	(8)		
	B5	4 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Proprietary	0.610 (600)	1.321 (1300)	18/45	44	115	28 (-0.95)	115 (8)	R503A2B50MA00F1	
		Center Open to Exhaust	ISO	0.610 (600)	1.118 (1100)		(3)	(8)				
5/3	B6	14 2 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	Proprietary	1.422 (1400)	1.321 (1300)	15/20	58 (4)	115	28 (-0.95)	115	R503A2B60MA00F1	
0,0		Center Closed	ISO	1.220 (1200)	1.118 (1100)	10,20	(4)	(8)	(-0.95)	(8)	11000/12500111/1001	
	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)	(0)	(6)	(-0.93)			
2 NO ?	BA		Proprietary	0.965 (950)	0.965 (950)	- 15/20 51 (3.5)	20 51	115 (8)	51*	51* 115 (3.5) (8)	R503A2BA0MA00F1	
INC		Normally Open Inormally Closed	ISO	0.915 (900)	0.915 (900)		(3.3)	(3.3) (6)	(0) (3.5)			
2 NC 2	BD		Proprietary	1.016 (1000)	0.813 (800)	15/20	51	115	51*	115 (8)	R503A2BD0MA00F1	
NO		Normally Closed	ISO	0.915 (900)	0.813 (800)	10/20	(3.5)	5) (8)	(3.5)	(0)	1.000/1.222011/1.001	
			Spool a		T	gy, with Mar	ual Ove	rride				
	B1	4 2 12 14 5 1 3 83	Proprietary	1.220 (1200) 1.118	1.220 (1200) 1.016	20/60	29 (2)	115 (8)	28 (-0.95)	115 (8)	R503A1B10MA00F1	
5/2		Spring Return	ISO	(1100)	(1000)							
	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)		(=)	(0)	(0.00)	(0)		
	B5	4 2 7 3 83 (12)	Proprietary	1.016 (1000)	1.016 (1000)	20/60	29 (2)	115 (8)	28 (-0.95)	115 (8)	R503A1B50MA00F1	
		Center Open to Exhaust	ISO	0.813 (800)	0.813 (800)		(=)	(0)	(-0.95)	(8)		
5.40	B7	14	Proprietary	1.016 (1000)	1.016 (1000)	20/60	29 (2)	115	28 (-0.95)	115 (8)	R503A1B70MA00F1	
5/3		Center Open to Pressure	ISO	0.813 (800)	0.813 (800)		(4)	(8)	(-0.93)	(0)	NOOO/TEPOWAGGI	
	_{p+}	14 4 2 THE STATE OF THE STATE O	Proprietary	1.016 (1000)	1.016 (1000)	Spring: _20/60	29	115	28	115	DECOMEDIANO	
	ВТ	Open Center, Spring and Detent	ISO	0.813 (800)	0.813 (800)	Detent: 15/NA	(2)	(8)	28 (-0.95)	(8)	R503A1BT0MA00F1	

^{* 51} PSI for a pressure supply (P1) \leq 109 PSI (if > 109 PSI, Pmin. = P1-58 PSI)

How to Order: Valve



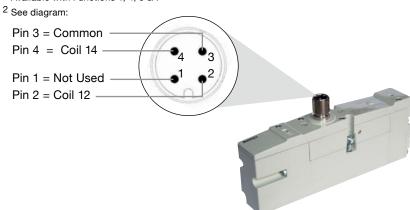
¹ Available with Functions 1, 4, 5 & 7

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

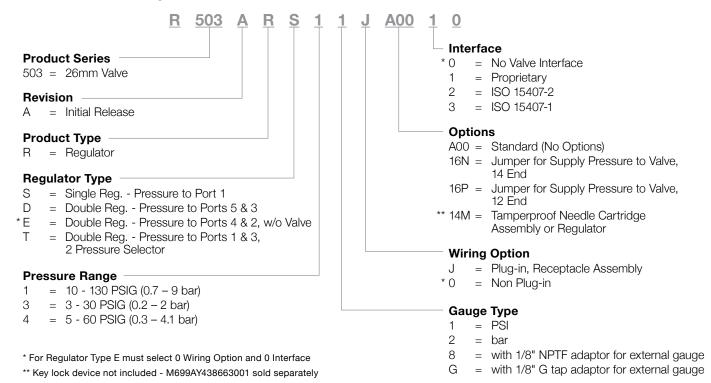
= 5/3 Open to Exhaust, Spring vs Detent,

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



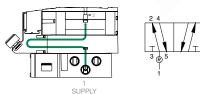
Sandwich Pressure Regulator Block

Types: RS / RD / RE / RT



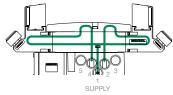
ISO 15407-2/15407-1 Interface

Type RS



Single pressure from a single supply.

Type RE

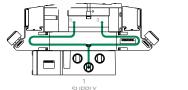


External outlet regulator used with jumper plate for single or dual pressure.



Proprietary Interface

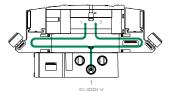
Тур





Dual pressure from a single supply.

Type RT

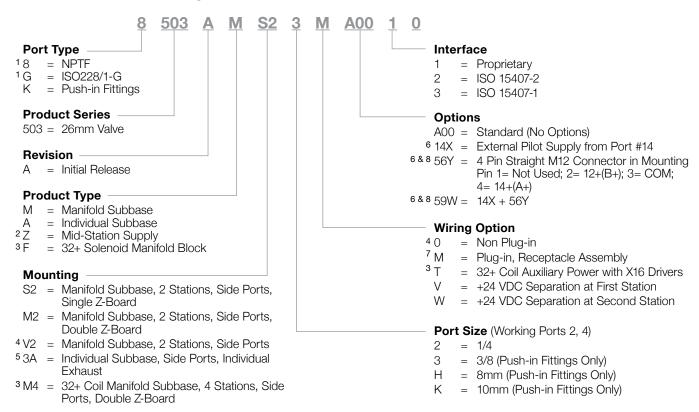


5 ® 8 3

Two-pressure selector used for multi-pressure applications.

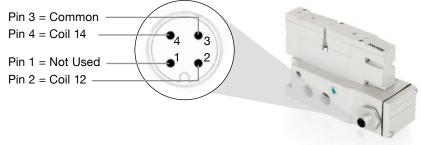


How to Order: Mounting



¹ Port Type 8 & G available in Port Size 1/4 only

⁸ See diagram:



² Available with M2 & V2 Mountings only

³ 32+ Coil Rule: Product Type F, Mounting M4, and Wiring Option T must all be selected together

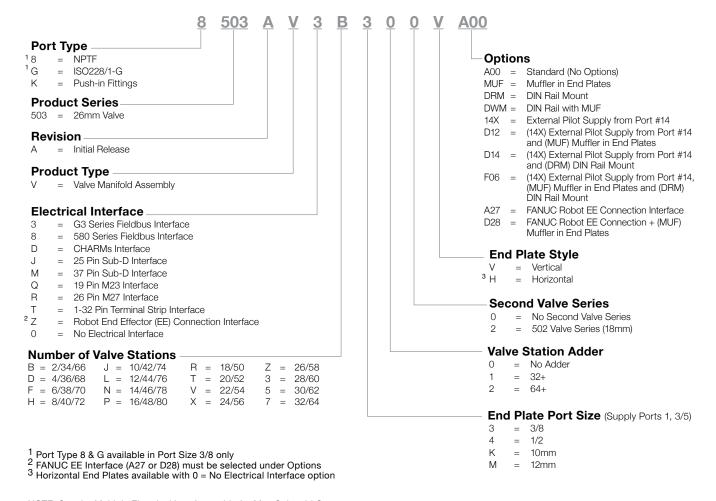
⁴ Available with ISO 15407-1 Interface only

⁵ Not available with Proprietary Mounting

⁶ Available with 3A Mounting only

⁷ Not available with V2 Mounting

How to Order: Manifold Assembly



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

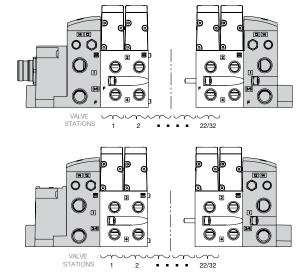
Sub-D, Terminal Strip, Round Interface, and End Effector Interface

- 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.



Sandwich Option Kit

Valve Series	Туре	Speed Control Kit	Shut Off Block Kit		Pressure	Block Kit		Exhaust	Block Kit		
		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.	needing blocking discs. a single valve manifold. It a exhaust rest exhaust exte manifold. but file a single valve manifold. a single valve manifold. but file file file file file file file file				Used to isolate the a single valve stat manifold. It allows exhaust response exhaust externally manifold.	ion from the for faster by re-routing		
		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) 12 (3) (2) (1)	(3) (2) (1) (4) (5) 14 (5) (7) (8) (1) (4) (5) 14					
				4mm Push-in	6mm Push-in	1/4 Push-in	M7				
501 Series (11mm)	Proprietary	R501AS428500001	R501AY428501001	K501AW517220004	K501AW517220003	K501AW517220002 H501AW517220001		-	-		
				1/8 1	NPTF	1/8	3 G	1/8 NPTF	1/8 G		
500	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		
500	Proprietary	R503AS425575002	R503AY426707002	8503AW428300004		G503AW4	28300004	8503AX428300002	G503AX428300002		
503 Series	ISO 15407-2	R503AS425575001	R503AY426707001	8503AW4	8503AW428300003 G503AW42		8503AW428300003 G503AW428300003		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
	s Vertical	w/Muffler, w/DIN	8501A	AK42946	65006	G501AK429465014			K501AK429465032		K501AK429465008		55008	K501AK429465016		65016	
501		w/Muffler, w/o DIN	8501	8501AK429465005		G501AK429465013		65013	K501AK429465031		65031	K501/	AK42946	65007	K501A	AK4294	65015
Series (11mm)		w/o Muffler, w/DIN	8501	8501AK429465002		G501AK429465010		K501AK429465030		K501AK429465004		K501AK42946501		65012			
		w/o Muffler, w/o DIN	8501	AK42946	65001	G501/	AK4294	65009	K501	AK4294	65029	K501/	AK42946	55003	K501	AK4294	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		Push 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	AK43147	77008	G502/	AK4314	77020	K502	4K4314	77012	K502	4K43147	77010	K502	AK4314	77024	K502	AK43147	7022
502	Vertical	w/Muffler, w/o DIN	8502	AK4314	77007	G502	6502AK431477019 K5		K502	4K4314	77011	K502AK431477009		K502	AK43147	77023	K502	AK43147	77021	
Series (18mm)		w/o Muffler, w/DIN	8502	AK43147	77002	G502	G502AK431477014 K		K502	AK43147	77006	K502AK431477004			K502AK431477018			K502AK431477016		77016
		w/o Muffler, w/o DIN	8502AK431477001			G502	AK4314	77013	K502	AK43147	77005	K502	4K43147	77003	K502	AK4314	77017	K502AK4314770		77015
	Horizontal	w/o Muffler, w/o DIN	8502	8502AK431478001			G502AK431478004			AK43147	78003	K502	4K43147	78002	K502	AK43147	78006	K502AK431478005		8005
		w/Muffler, w/DIN	8503	3503AK428327008			G503AK428327020		K503	AK4283	27010	K503AK428327012		27012	K503AK428327022		27022)22 K503AK428327		27024
503	Vertical	w/Muffler, w/o DIN	8503	AK4283	27007	G503/	AK4283	27019	K503/	AK42832	27009	K503.	4K4283	27011	K503.	AK4283	27021	K503/	AK42832	27023
Series (26mm)	vertical	w/o Muffler, w/DIN	8503	AK4283	27002	G503/	AK4283	27014	K503AK428327004		27004	K503AK428327006		27006	K503AK428327016		27016 K503AK428327		27018	
		w/o Muffler, w/o DIN	8503	4K4283	27001	G503/	AK4283	27013	K503AK428327003		27003	K503AK428327005		27005	K503AK428327015)15 K503AK42832701		27017	
	Horizontal	w/o Muffler, w/o DIN	8503	8503AK428304001 G503AK428304004			04004	K503AK428304002 K503AK428304003			K503AK428304005 K503AK4283040			04006						

Multipin Electrical Interface

Multipin Electrical	Product Image	Description		Part Number	Notes	Max. # of
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	I	P599AE428441002	protection recommended.	
			2m	SC2502MCX0000000		
25 Pin Sub-D		Female Cable 22 AWG – Unshielded, Standard	5m	SC2505MCX0000000	_	22
Interface			10m	SC2510MCX0000000		
	4		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.	
	4	Female Cable 22 AWG – Unshielded, Standard		SC3702MCX0000000		
37 Pin Sub-D	1			SC3705MCX0000000	_	32
Interface	Million		10m	SC3710MCX0000000		. 02
	W		2m	NDB37F22U02MSB4		
		Female Cable 22 AWG - Unshielded IP65	5m	NDB37F22U05MSB4	-	
			10m	NDB37F22U10MSB4		
		Housing Kit Assembly w/o DIN Rail Clamps	P599AE428436001		External fusing or output	
19 Pin M23		Housing Kit Assembly w/DIN Rail Clamps M23 Female Cable		P599AE428436002	protection recommended.	10
Interface				CC1905MI00000000		16
				CC1910MI00000000	_	
		Housing Kit Assembly w/o DIN Rail Clamps	F	P599AE502625001	External fusing or output	
26 Pin M27		Housing Kit Assembly w/DIN Rail Clamps	F	P599AE502625002	protection recommended.	00
Interface		MOZ Farrada Oalda	5m	CC2605MI00000000		22
		M27 Female Cable	10m	CC2610MI00000000	_	
1-32 Pin Terminal		Housing Kit Assembly w/o DIN Rail Clamps	F	P599AE428444001	External fusing or output protection	
Strip Interface	10.	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	F	P599AE509838001	Internal cable available from FANUC.	8

^{*} Maximum number of valve stations is determined by:

[·] Combination of all stations cannot exceed 32 solenoids.



[·] 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.

Accessories Kit

Accessories	Product Image	Descr	intion	Port		Part Number			
Kit	(Example Only)	Beson	iption	Number	501 Series (11mm)	502 Series (18mm)	503 Series (26mm)		
Blank Station Plate Kit			a manifold station ure use.	-	P501AB429685001	P502AB431813001	P503AB428359001		
DIN Rail Clamp Kit	€ (ME) — (ME)	to a machine includes hardwa the m	nanifold assembly via DIN Rail. Kit re for each end of anifold. ail not included.	-	239-980				
				1	P501AD431915001	P502AD431914001	P503AD431191001		
				3	P501AD431915002	P502AD431914002	P503AD431191002		
		Used to isolate 1, 3 & 5 galleries of the manifold internally. NOTE: Includes tag to label ports blocked.		5	P501AD431915003	P502AD431914003	P503AD431191003		
Blocking Disc Kit				1+3	P501AD431915004	P502AD431914004	P503AD431191004		
DISC VII				1 + 5	P501AD431915005	P502AD431914005	P503AD431191005		
				3+5	P501AD431915006	P502AD431914006	P503AD431191006		
				1, 3, 5	P501AD431915007	P502AD431914007	P503AD431191007		
Internal Muffler Element		Muffler o	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	501 Series (11mm)	502 Series (18mm)	503 Series (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	Description	Parts		Part Number	
Parts Kit	(Example Only)	Description	Included	501 Series (11mm)	502 Series (18mm)	503 Series (26mm)
Interface Mounting Kit	97 1:11 State 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	Manifold block, (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	INF II		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	. нар	3/8"	G503AT429964004
502 Series (18mm)	000	502 to 501 Adaptor Plate w/PCB	Proprietary	NPTF		8502AT429963001
to 501 Series (11mm)		502 to 501 Adaptor Plate w/PCB	Proprietary	G Tap		G502AT429963002

Ordering Adaptor Plate Kit

Example Order - 502 & 501 Manifold Shown

Example Order	- 502 & 501 Mailliold Silo
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



 * 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
				Matria Thread	M7	H501AZM8BTA0010
				Metric Thread	M7	H501AZM4BMA0010
					1/4	K501AZM82TA0010
501 Series	- Calabra		Proprietary		6mm	K501AZM8FTA0010
(Tirrirri)				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
			Proprietary	NPTF	1/8	8502AZM21TA0010
			Froprietary	G Tap	1/8	G502AZM21TA0010
	10				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 don in ridings	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
				G Tap	1/4	G503AZM22TA0010
	A ST				1/4	K503AZM22TA0020
503 Series	12112		ISO 15407-2		3/8	K503AZM23TA0020
(26mm)	PUR CO				8mm	K503AZM2HTA0020
				Push-in Fittings	10mm	K503AZM2KTA0020
				.	1/4	K503AZM22TA0010
			Proprietary	у	3/8	K503AZM23TA0010
			riophetary		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 Manifold Block	64	Not Door in a	Proprietary		1/4	K501AFM42MA0010
		w/ X32 Valve Drivers	64	Not Required	Froprietary	Push-in Fittings	6mm	K501AFM4FMA0010
501							4mm (5/32)	K501AFM4DMA0010
Series (11mm)						Metric Thread	M7	H501AFM8BTA0010
	E 100 000	501 32+ Solenoid Mid-Station Supply & Auxiliary		32+ Solenoid Manifolds/	D		1/4	K501AFM82TA0010
		Supply & Auxiliary Power 8-Station Manifold Block w/ X32 Valve Drivers	128	Islands	Proprietary	Push-in Fittings	6mm	K501AFM8FTA0010
	100						4mm (5/32)	K501AFM8FT96X10*
					ISO	NPTF	1/8	8502AFM41TA0020
		502 32+ Solenoid Mid-Station Supply & Auxiliary Power 4-Station Manifold Block w/	80		15407-2	G Tap	1/8	G502AFM41TA0020
					Proprietary	NPTF	1/8	8502AFM41TA0010
						G Tap	1/8	G502AFM41TA0010
	The state of the s						1/4	K502AFM42TA0020
502	20.02			32+ Solenoid Manifolds/ Islands	ISO		5/16	K502AFM4GTA0020
Series (18mm)					15407-2		6mm	K502AFM4FTA0020
	The state of the s	X16 Valve Drivers				Push-in	8mm	K502AFM4HTA0020
	Sell of the sell o					Fittings	1/4	K502AFM42TA0010
					Proprietary		5/16	K502AFM4GTA0010
							6mm	K502AFM4FTA0010
							8mm	K502AFM4HTA0010
					ISO	NPTF	1/4	8503AFM42TA0020
					15407-2	G Tap	1/4	G503AFM42TA0020
					Proprietary	NPTF	1/4	8503AFM42TA0010
		500.00			Troprictary	G Tap	1/4	G503AFM42TA0010
	Dam.	503 32+ Solenoid Mid-					1/4	K503AFM42TA0020
503 Series		Station Supply & Auxiliary	80	32+ Solenoid Manifolds/	ISO		3/8	K503AFM43TA0020
(26mm)	The same of the sa	Power 4-Station Manifold Block		Islands	15407-2		8mm	K503AFM4HTA0020
		w/ X16 Valve Drivers				Push-in	10mm	K503AFM4KTA0020
		211/013				Fittings	1/4	K503AFM42TA0010
	106:				Proprietary		3/8	K503AFM43TA0010
					. ropriotary		8mm	K503AFM4HTA0010
							10mm	K503AFM4KTA0010

 $^{^{\}star}$ 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 [®]	J	J
Ethernet POWERLINK®	$\sqrt{}$	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



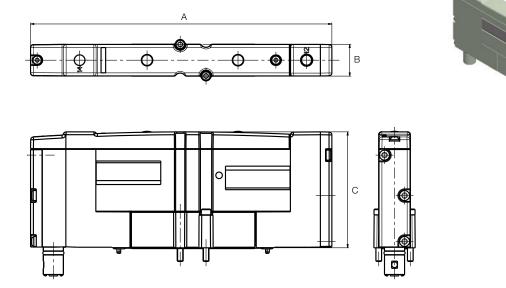


External Pilot Supply Plug Location



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

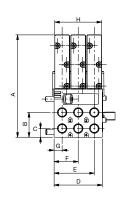


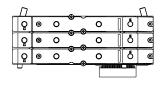
Weight	Valve	Manifol	d Block	End
110.9	Body	3-Station	4-Station	Plates
lbs	0.205	0.50	0.60	1.20
(kg)	(0.093)	(0.23)	(0.27)	(0.54)

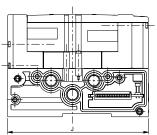
Α	В	С
105	11	40.4
(4.13)	(0.43)	(1.59)

Plug-in Valve Mounted

3-Station Manifold Block







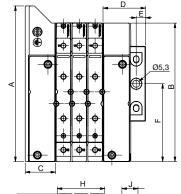


Α	В	С	D	E	F	G	Н	J
76.4	18.5	6.5	36	30	18	6	35	105
(3.008)	(0.728)	(0.26)	(1.42)	(1.18)	(0.71)	(0.236)	(1.38)	(4.13)

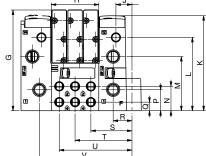
Dimensions: mm (inches)

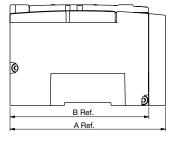
Plug-in Valve Mounted

3-Station Manifold Assembly



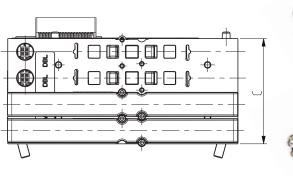




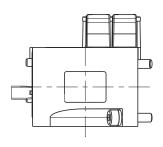


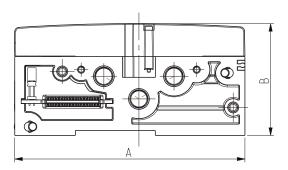
Α	В	С	D	E	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	V
118	105	23	32.3	7.1	59	76.4	36	12.2	72	55.6	41.1	18.5	15.9	6.5	14.3	31.2	43.2	55.2	70.3
(4.646)	(4.134)	(0.91)	(1.27)	(0.28)	(2.32)	(3.008)	(1.42)	(0.48)	(2.84)	(2.19)	(1.618)	(0.73)	(0.626)	(0.26)	(0.56)	(1.23)	(1.7)	(2.173)	(2.768)

501 Series Mid-Station Supply Block



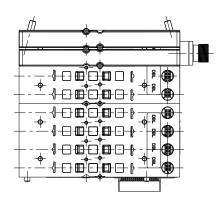




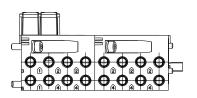


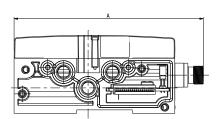
Α	В	С
105	51	48
(4.13)	(2.01)	(1.89)

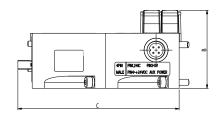
501 Series 32+ Solenoid Mid-Station & Auxiliary Power 8-Station Manifold Block with X32 Valve Drivers









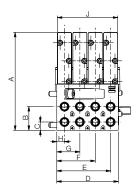


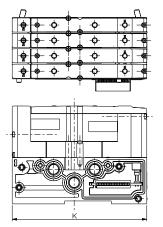
Weight
lbs (kg)
1.45
(0.66)

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

Plug-in Valve Mounted

4-Station Manifold Block





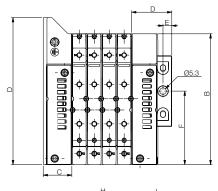


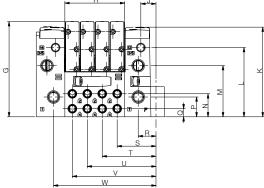
Α	В	С	D	E	F	G	Н	J	K
76.4	18.5	6.5	48	42	30	18	6	47	105
(3.008)	(0.728)	(0.256)	(1.890)	(1.653)	(1.181)	(0.709)	(0.236)	(1.850)	(4.134)

Dimensions: mm (inches)

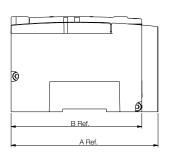
Plug-in Valve Mounted

4-Station Manifold Assembly





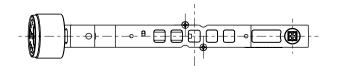


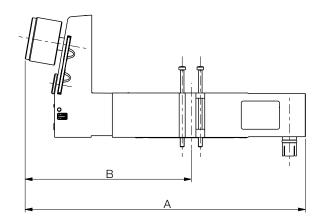


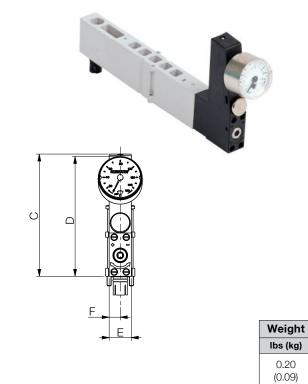
Α	В	С	D	E	F	G	Н	J	K	L	М	N	Р	Q	R	S	Т	U	V	W
118	105	23	32.3	7.1	59	76.4	48	12.2	72	55.6	41.1	18.5	15.9	6.5	14.3	31.2	43.2	55.2	67.2	82.3
(4.65)	(4.13)	(0.90)	(1.27)	(0.28)	(2.32)	(3.01)	(1.89)	(0.48)	(2.83)	(2.19)	(1.62)	(0.73)	(0.63)	(0.26)	(0.56)	(1.23)	(1.70)	(2.17)	(2.65)	(3.24)

Sandwich Pressure Regulator

Single Regulator



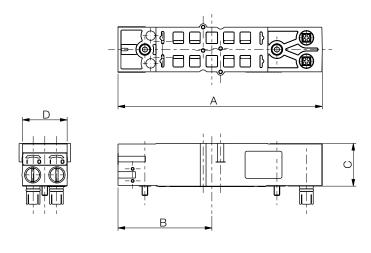




Α	В	С	D	E	F
139.1	82.5	60.7	59.5	11	5.5
(5.476)	(3.248)	(2.390)	(2.342)	(0.433)	(0.216)

Dimensions: mm (inches)

Sandwich Shut Off Block Kit



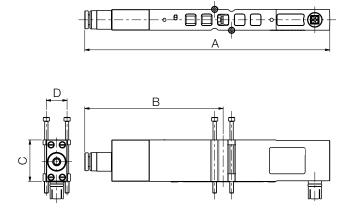


Weight
lbs (kg)
0.25 (0.11)

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



Sandwich Pressure Block Kit



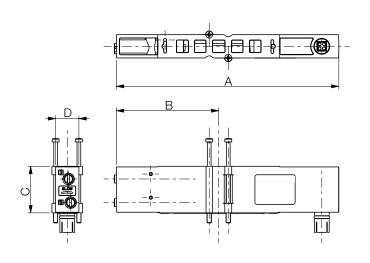


Weight
lbs (kg)
0.15 (0.07)

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

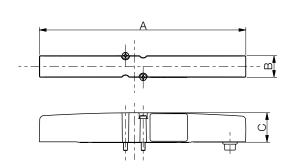




Weight			
lbs (kg)			
0.15 (0.07)			

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

Blank Station Plate Kit

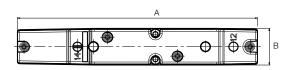




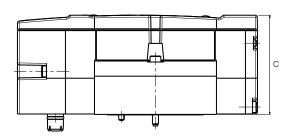
Weight
lbs (kg)
0.10 (0.05)

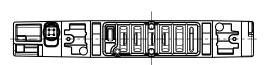
Α	В	С
105.1	11	15
(4.138)	(0.433)	(0.591)

502 Series Plug-in Valve

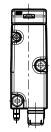










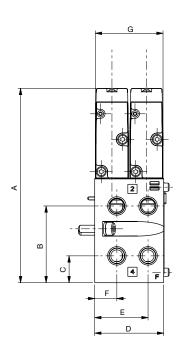


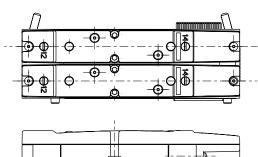
Weight	Valve	Manifold	End
	Body	Block	Plates
lbs	0.372	0.75	3.30
(kg)	(0.169)	(0.34)	(0.45)

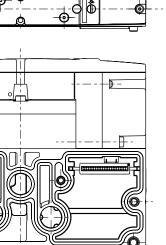
Α	В	С
120	18	49.6
(4.72)	(0.71)	(1.95)

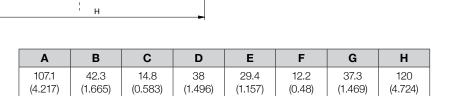
Plug-in Valve Mounted

Plug-in Manifold Block



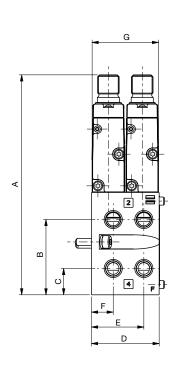


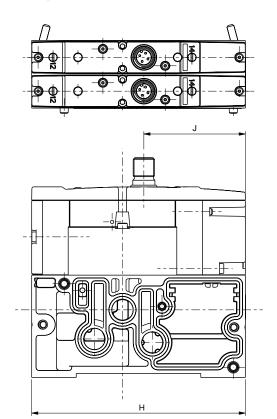




M12 Valve Mounted

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



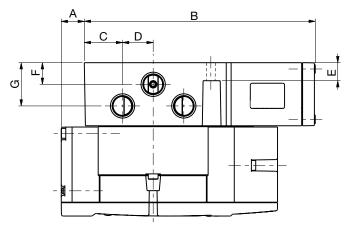




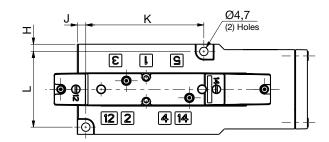
Α	В	С	D	Е	F	G	Н	J
123.6	42.3	14.8	38	29.4	12.2	37.3	120	57
(4.866)	(1.665)	(0.583)	(1.496)	(1.157)	(0.48)	(1.469)	(4.724)	(2.244)

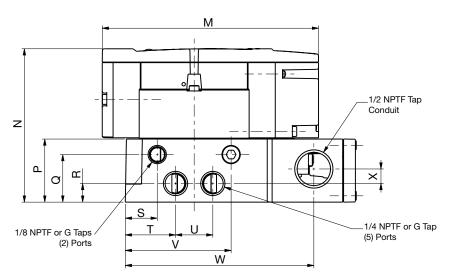
Plug-in Valve on Individual Subbase

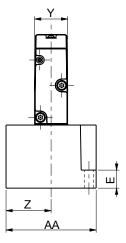
Plug-in Individual Subbase









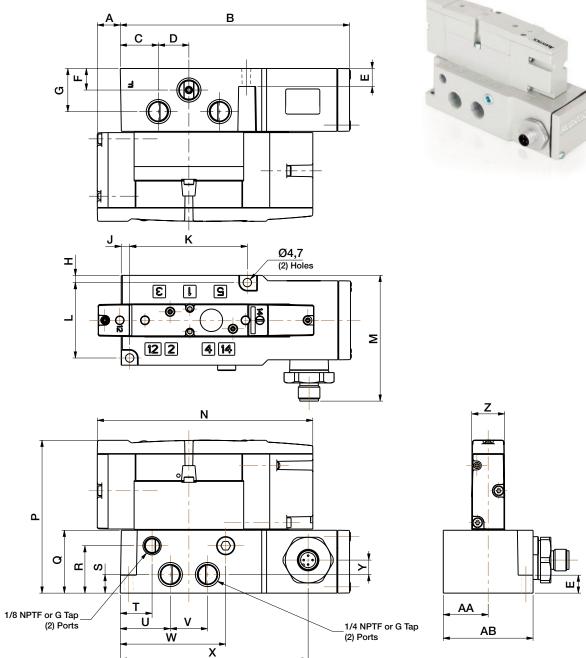


Α	В	С	D	E	F	G	Н	J	K	L	М	N
12.8	128.1	21.2	17	10	12	24	4	4.7	65.5	42	120	85.1
(0.504)	(5.043)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(4.724)	(3.35)

Р	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)



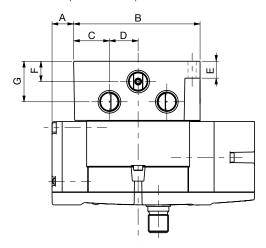
Α	В	С	D	Е	F	G	Н	J	K	L	М	N
12.8	128.1	21.2	17	10	12	24	4	4.7	65.5	42	70	120
(0.504)	(5.043)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(2.756)	(4.724)

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)

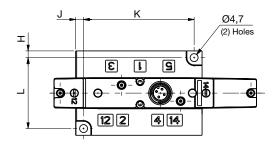


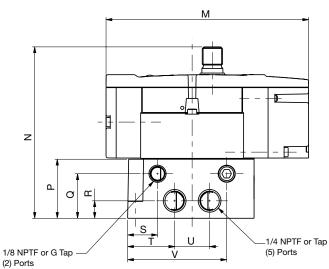
Non Plug-in Valve on Individual Subbase

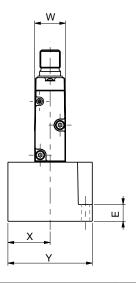
Non Plug-in Individual Subbase (ISO 15407-1)







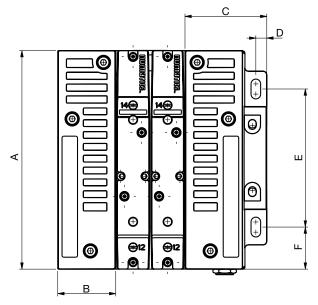




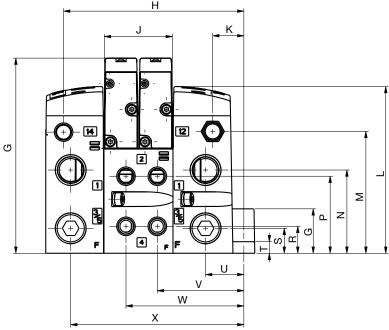
Α	В	С	D	E	F	G	Н	J	K	L	М	N
12.8	74.9	21.2	17	10	12	24	4	4.7	65.5	42	120	101.6
(0.504)	(2.949)	(0.835)	(0.669)	(0.394)	(0.472)	(0.945)	(0.157)	(0.185)	(2.579)	(1.654)	(4.724)	(4)

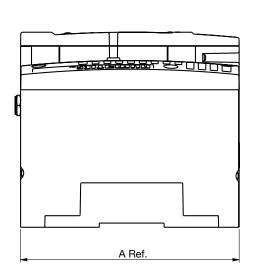
P	Q	R	S	Т	U	V	W	X	Y
35	26.4	10.4	17.7	27.9	20.7	58.7	18.3	25	50
(1.378)	(1.039)	(0.409)	(0.697)	(1.098)	(0.815)	(2.311)	(0.72)	(0.984)	(1.969)

Manifold Assembly with Vertical End Plates





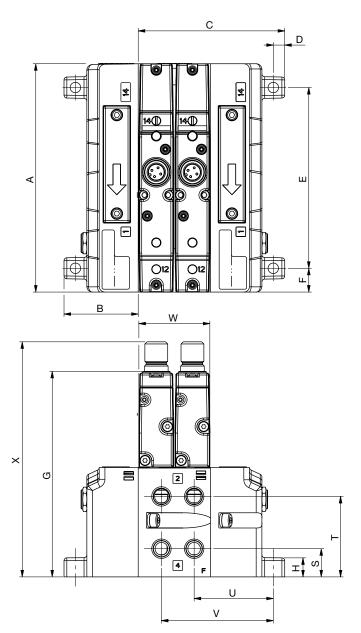




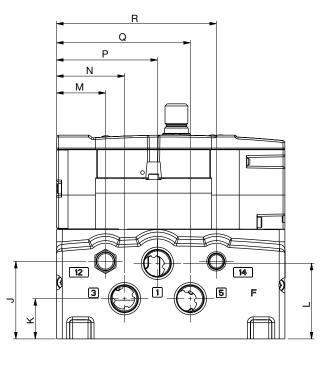
Α	В	С	D	Е	F	G	Н	7	K	L
120 (4.724)	31.9 (1.256)	44.9 (1.768)	6 (0.236)	75.8 (2.984)	23.1 (0.909)	107.1 (4.217)	98.9 (3.894)	37.3 (1.469)	17.1 (0.673)	91.6 (3.606)

M	N	P	Q	R	S	Т	U	٧	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



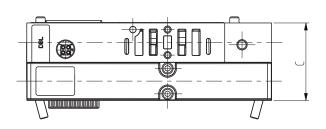




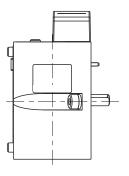
Α	В	С	D	E	F	G	Н	J	K	L
120.0	39.0	39.0	6.0	95.0	12.5	108.1	10.0	40.8	21.2	39.8
(4.72)	(1.54)	(1.54)	(0.24)	(3.74)	(0.49)	(4.26)	(0.39)	(1.61)	(0.83)	(1.57)

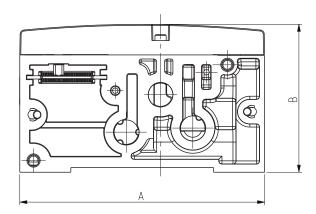
M	N	P	Q	R	S	Т	U	٧	W	X
25.7	35.7	53.0	70.3	84.0	14.8	42.3	41.6	58.8	37.3	123.6
(1.01)	(1.41)	(2.09)	(2.77)	(3.31)	(0.58)	(1.67)	(1.64)	(2.31)	(1.47)	(4.87)

502 Series Mid-Station Supply Block





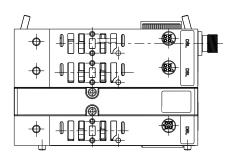




Α	В	С
120	72.5	38
(4.72)	(2.85)	(1.50)

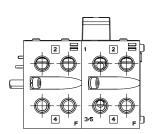
502 Series Mid-Station Supply/Auxiliary Power Manifold Block

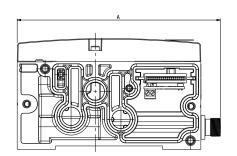
with X32 Solenoid Coils Kit











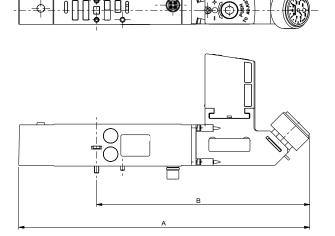


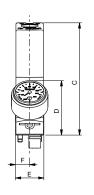
Weight				
lbs (kg)				
1.70				
(0.77)				

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

Sandwich Pressure Regulator

Single Regulator





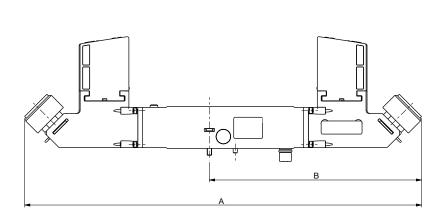


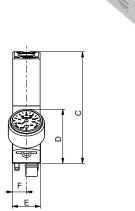
Weight				
lbs (kg)				
0.65 (0.30)				

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

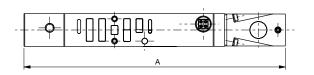


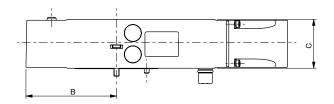


Weight
lbs (kg)
1.05
(0.48)

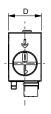
Α	В	С	D	E	F
261.2	139.6	73.5	35.6	18.6	9.3
(10.283)	(5.496)	(2.894)	(1.402)	(0.732)	(0.366)

Sandwich Shut Off Block Kit







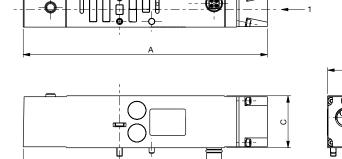


Weight	
lbs (kg)	
0.30	l
(0.14)	

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

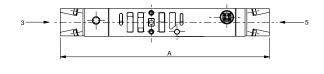




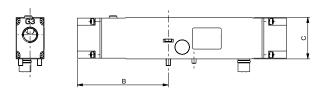


Α	В	С	D		
129.2	51	27.5	18.5		
(5.087)	(2.008)	(1.083)	(0.728)		

Sandwich Exhaust Block Kit





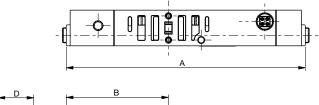


Weight	
lbs (kg)	
0.30 (0.14)	

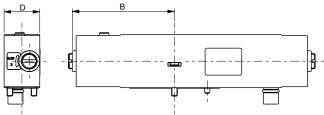
Α	A B		D		
138.4	60.2	27.5	18.5		
(5.449)	(2.37)	(1.083)	(0.728)		

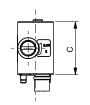
Dimensions: mm (inches)

Sandwich Speed Control Kit





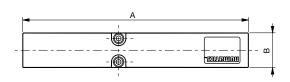


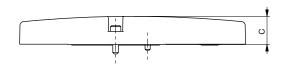


Weight
lbs (kg)
0.30 (0.14)

Α	A B		D		
124	53	27.5	18.5		
(4.882)	(2.087)	(1.083)	(0.728)		

Blank Station Plate Kit



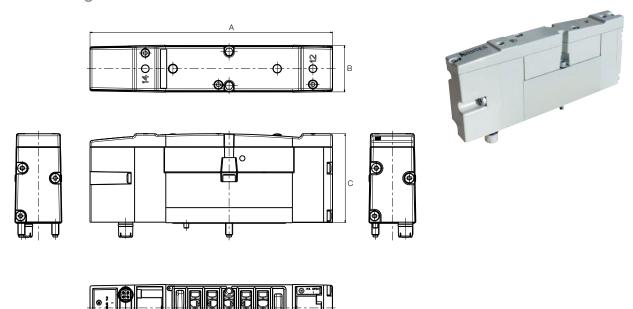


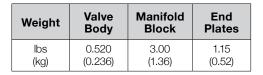


Weight
lbs (kg)
0.10 (0.05)

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

503 Series Plug-in Valve

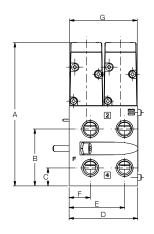


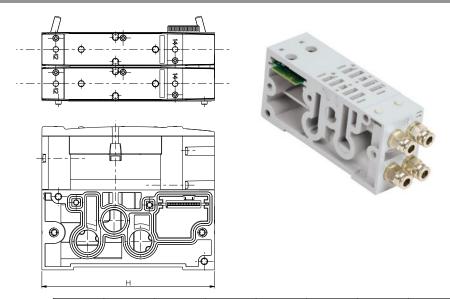


Α	В	С		
136	26	50		
(5.35)	(1.02)	(1.97)		

Plug-in Valve Mounted

Plug-in Manifold Block



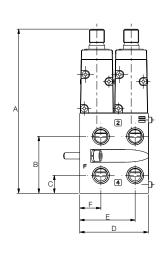


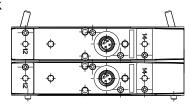
Α	ВС		D	E	F	G	Н	
112.9	44.9	14.2	54	43.7	16.7	53.3	136	
(4.445)	(1.768)	(0.56)	(2.13)	(1.72)	(0.66)	(2.098)	(5.35)	ĺ

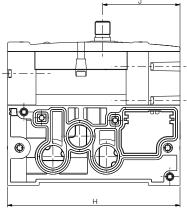
Dimensions: mm (inches)

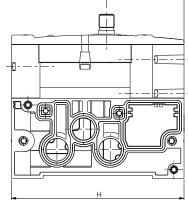
M12 Valve Mounted (ISO 15407-1)

2-Station Plug-in Manifold Block





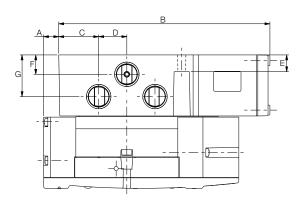




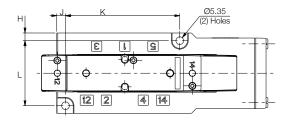
Α	В	С	D	E	F	G	Н	J
129.4	44.9	14.2	54	43.7	16.7	53.3	136	61
(5.094)	(1.768)	(0.56)	(2.13)	(1.72)	(0.66)	(2.098)	(5.35)	(2.4)

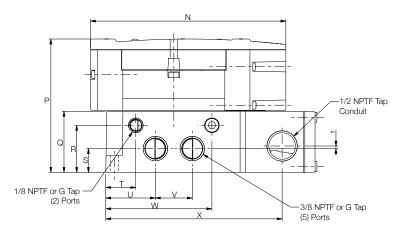
Plug-in Valve Mounted on Individual Subbase

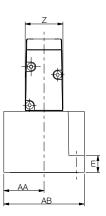
Plug-in Individual Subbase









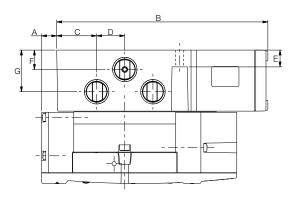


Α	В	С	D	E	F	G	Н	J	K	L	N	Р
10.6 (0.417)	147 (5.787)	27.8 (1.09)	19.6 (0.77)	11.7 (0.46)	13.5 (0.53)	29 (1.142)	5.4 (0.21)	6.1 (0.24)	79.6 (3.13)	45.3 (1.78)	136 (5.35)	92.9 (3.657)
												4.0

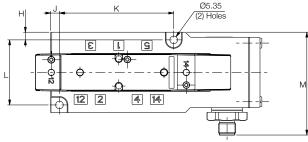
Q	R	S	Т	U	V	W	X	Y	Z	AA	AB
42.5	32.8	16.6	20.9	34.5	25.7	73.9	1.8	26.3	28	28	56
(1.67)	(1.29)	(0.65)	(0.82)	(1.36)	(1.01)	(2.91)	(0.071)	(1.04)	(1.1)	(1.1)	(2.2)

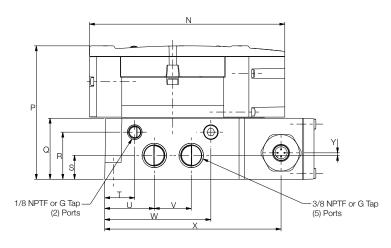
Plug-in Valve Mounted on Individual Subbase

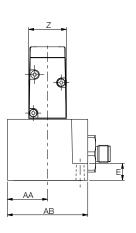
M12 Individual Subbase (ISO 15407-2)









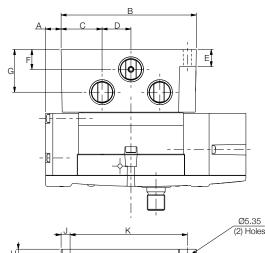


Α	В	С	D	E	F	G	Н	J	K	L	М	N
10.6	147	27.8	19.6	11.7	13.5	29	5.4	6.1	79.6	45.3	71.6	136
(0.417)	(5.787)	(1.09)	(0.77)	(0.46)	(0.53)	(1.142)	(0.21)	(0.24)	(3.13)	(1.78)	(2.819)	(5.35)

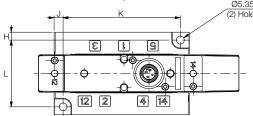
P	Q	R	S	Т	U	٧	W	Х	Y	Z	AA	AB
92.9	42.5	32.8	16.6	20.9	34.5	25.7	73.9	122.8	1.8	26.3	28	56
(3.657)	(1.67)	(1.29)	(0.65)	(0.82)	(1.36)	(1.01)	(2.91)	(4.835)	(0.071)	(1.04)	(1.1)	(2.2)

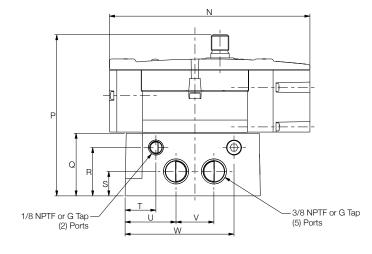
M12 Valve Mounted on Individual Subbase

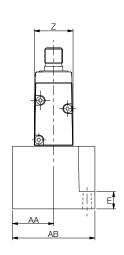
Non Plug-in Individual Subbase (ISO 15407-1)







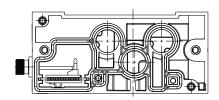


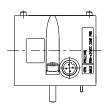


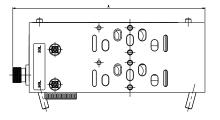
Α	В	С	D	E	F	G	Н	J	K	L	N	Р
10.6	91.7	27.8	19.6	11.7	13.5	29	5.4	6.1	79.6	45.3	136	109.4
(0.417)	(3.61)	(1.09)	(0.77)	(0.46)	(0.53)	(1.142)	(0.21)	(0.24)	(3.13)	(1.78)	(5.35)	(4.307)

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





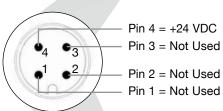


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		J 	



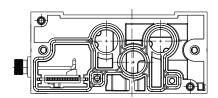
Α	В	С
148.7	54	63
(5.85)	(2.13)	(2.48)

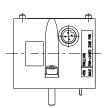
V & W Wiring Options

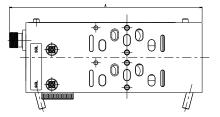


Dimensions: mm (inches)

Plug-in W Wiring

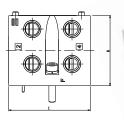






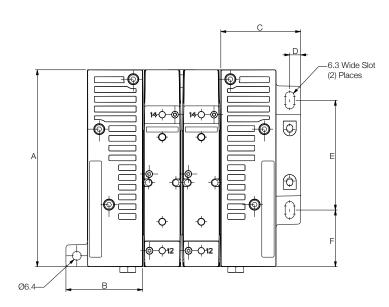
Α	В	С
148.7	54	63
(5.85)	(2.13)	(2.48)



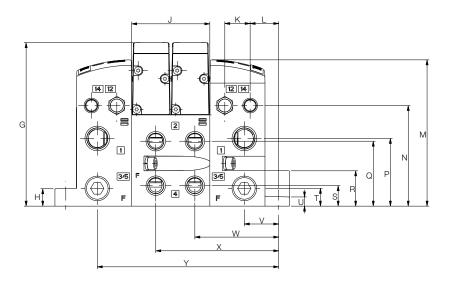


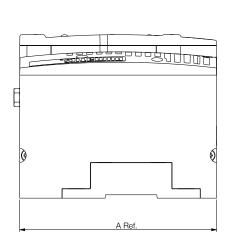


Manifold Assembly with Vertical End Plates





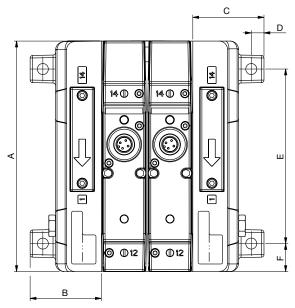


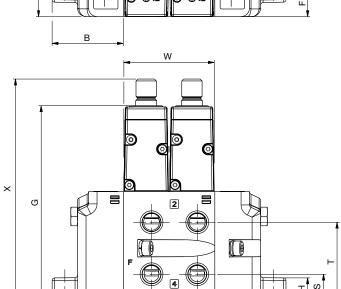


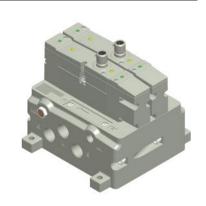
Α	В	С	D	E	F	G	Н	J	K	L	М
136 (5.354)	53 (2.087)	55.1 (2.17)	7.5 (0.3)	75.8 (2.98)	39.1 (1.54)	112.9 (4.445)	12 (0.47)	54 (2.13)	17.5 (0.69)	19.8 (0.78)	101.1 (3.98)
	N	Р	Q	R	s	т	U	V	W	Y	V
		-		• • •		-				_ ^	•

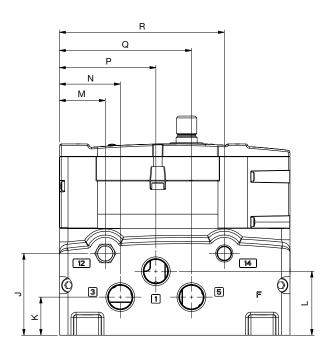
56

Manifold Assembly with Horizontal End Plates





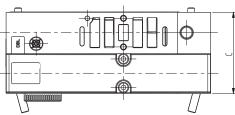


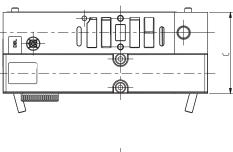


Α	В	С	D	Е	F	G	Н	J	K	L
136.0	42.0	42.0	7.5	103.0	16.5	113.6	12.0	48.3	22.5	37.8
(5.35)	(1.65)	(1.65)	(0.30)	(4.06)	(0.65)	(4.47)	(0.47)	(1.90)	(0.89)	(1.49)

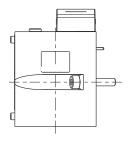
M	N	P	Q	R	S	Т	U	V	W	X
27.0	35.9	56.9	77.9	97.3	14.2	44.9	44.9	71.9	53.3	129.4
(1.06)	(1.41)	(2.24)	(3.07)	(3.83)	(0.56)	(1.77)	(1.77)	(2.83)	(2.10)	(5.09)

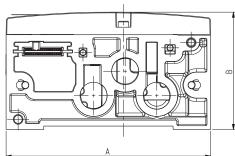
503 Series Mid-Station Supply Block





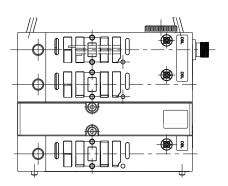


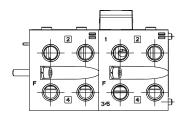


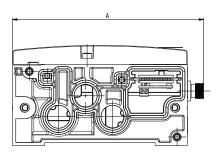


Α	В	С
136	78	54
(5.35)	(3.07)	(2.13)

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

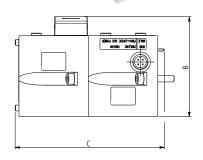










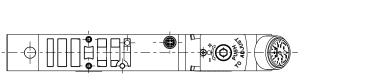


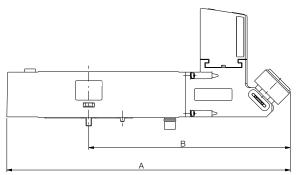
Weight
lbs (kg)
2.60 (1.18)

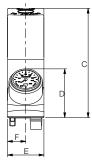
Α	В	С
148.6	77.8	116.1
(5.85)	(3.06)	(4.57)

Sandwich Pressure Regulator

Single Regulator





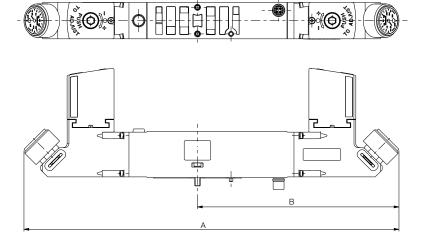


Weight
lbs (kg)
0.95
(0.43)

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)

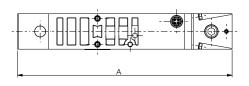
Double Regulator

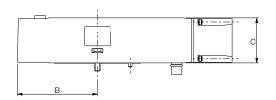




Α	В	С	D	E	F
268.2	144.1	78.2	34.8	26	13
(10.56)	(5.673)	(3.08)	(1.37)	(1.02)	(0.51)

Sandwich Shut Off Block Kit







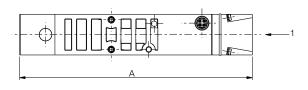


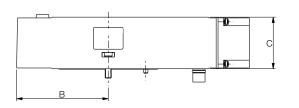
Weight
lbs (kg)
0.45
(0.20)

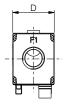
Α	В	С	D
157.3	58.6	33	26.5
(6.193)	(2.307)	(1.3)	(1.04)

Dimensions: mm (inches)

Sandwich Pressure Block Kit





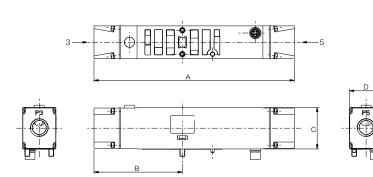




Weight	
lbs (kg)	
0.45	
(0.20)	

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

Sandwich Exhaust Block Kit



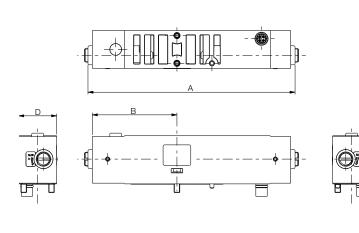


Weight		
lbs (kg)		
0.50		
(0.23)		

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

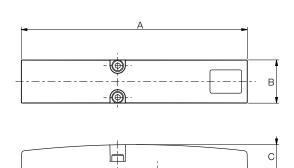






Α	В	С	D
142	58	33	26
(5.591)	(2.283)	(1.3)	(1.02)

Blank Station Plate Kit



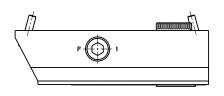


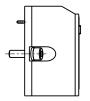
Weight	
lbs (kg)	
0.20 (0.09)	

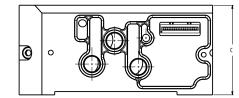
Α	В	С
136	26	14.8
(5.354)	(1.024)	(0.58)

Adaptor Plate Kit

503 Valve Series to 502 Valve Series



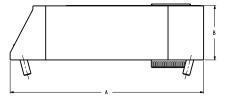








Weight
lbs (kg)
1.50
(0.68)

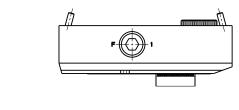


A	В	С
136	38.25	63
(5.35)	(1.51)	(2.48)

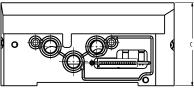
Dimensions: mm (inches)

Adaptor Plate Kit

502 Valve Series to 501 Valve Series







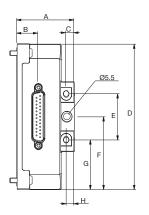


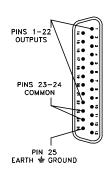


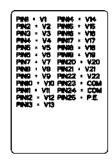


Α	В	С
120	33.5	57.5
(4.72)	(1.32)	(2.26)

25 Pin Sub-D Connector Kit

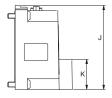








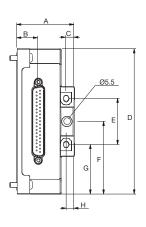
Weight
lbs (kg)
0.70 (0.32)

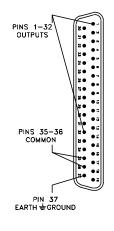


Α	В	С	D	E	F	G	Н	J	K
46.4	17	6.7	118	37.5	59	40.2	6.7	68.1	24.4
(1.827)	(0.669)	(0.26)	(4.65)	(1.48)	(2.32)	(1.58)	(0.26)	(2.68)	(0.96)

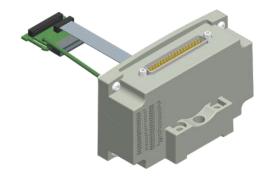
Dimensions: mm (inches)

37 Pin Sub-D Connector Kit







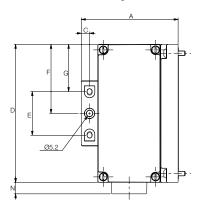


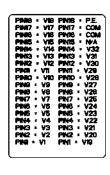
Weight
lbs (kg)
0.70
(0.32)



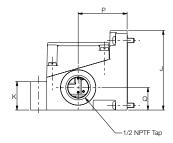
Α	В	С	D	E	F	G	Н	J	K
46.4	17	6.7	118	37.5	59	40.2	6.7	68.1	24.4
(1.827)	(0.669)	(0.26)	(4.65)	(1.48)	(2.32)	(1.58)	(0.26)	(2.68)	(0.96)

1-32 Terminal Strip Kit







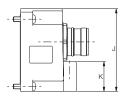


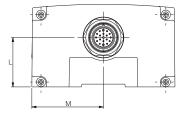
Weight
lbs (kg)
1.20 (0.54)

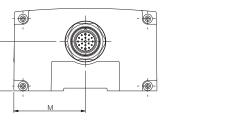
Α	С	D	E	F	G	J	K	N	Р	Q
82.7 (3.256)	7 (0.28)	118 (4.65)	37.5 (1.48)	59 (2.32)	40.2 (1.583)		24.4 (0.96)	9.8 (0.39)	41.9 (1.65)	19.3 (0.76)

Dimensions: mm (inches)

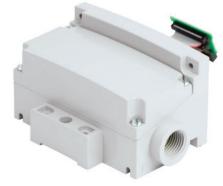
19 Pin M23 Connector Kit







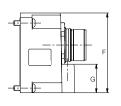


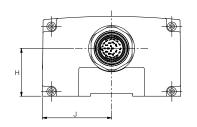


Weight
lbs (kg)
0.70
(0.32)

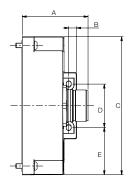
Α	С	D	E	G	J	K	L	М
56.3	6.7	118	37.5	40.2	68.1	24.4	40.8	59
(2.217)	(0.26)	(4.65)	(1.48)	(1.583)	(2.68)	(0.96)	(1.61)	(2.323)

26 Pin M27 Connector Kit









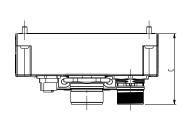


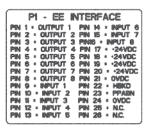
Weight
lbs (kg)
0.70 (0.32)

Α	В	C	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)

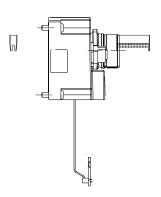
Dimensions: mm (inches)

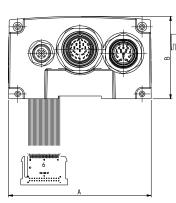
Robot FANUC End Effector (EE) Interface

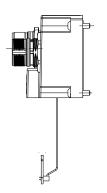












Weight
lbs (kg)
0.90
(0.41)

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



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