

numatics®

2035 Series

Solenoid Pilot Actuated Valves



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EMERSON™
Industrial Automation

BCAE
Automation Solutions

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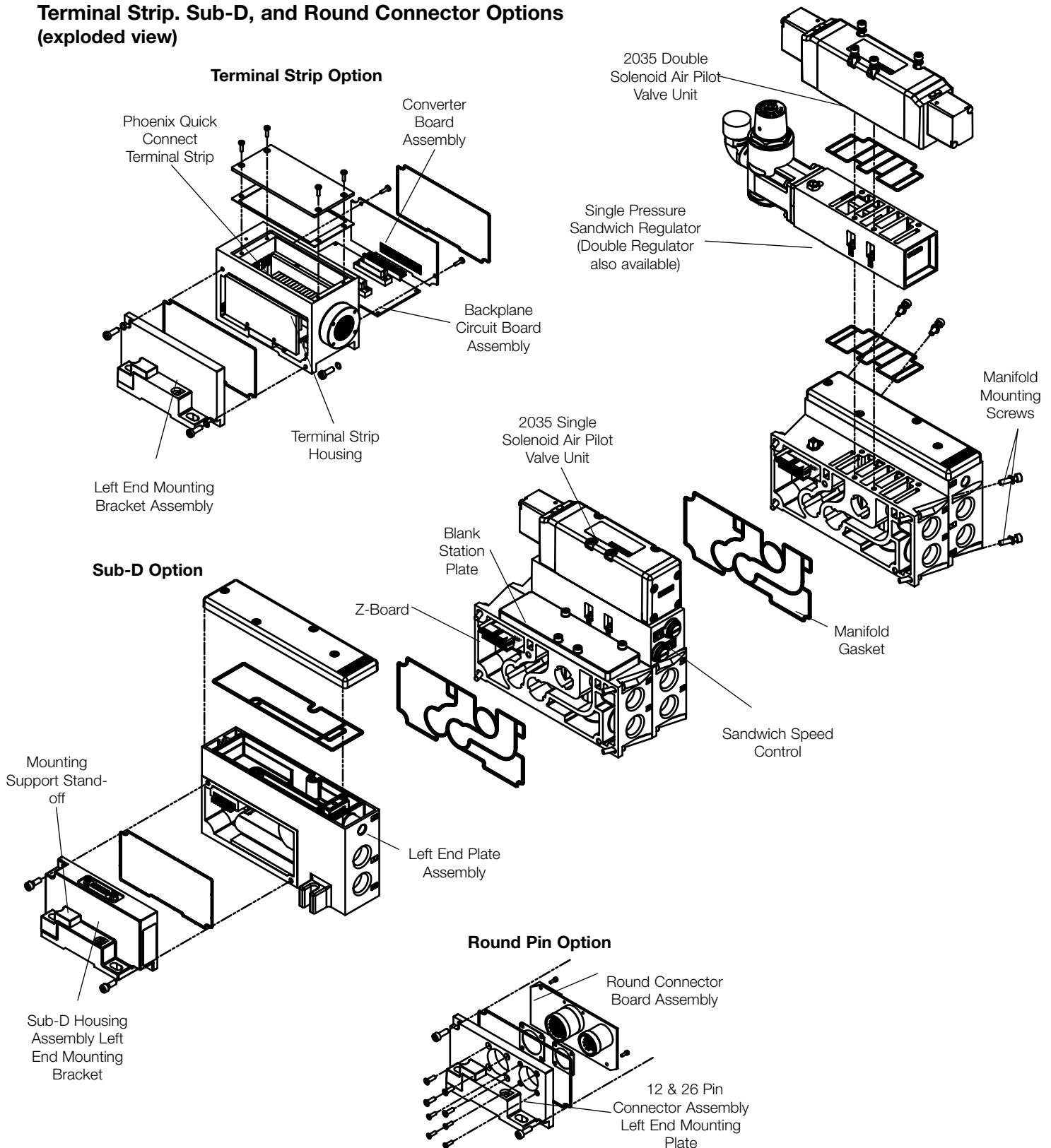
Table of Contents

2035 Series

Terminal Strip, Sub-D, and Round Connector Options	3
Technical and Operating Data	4
How to Order-Valves and Regulators	5
How to Order-Manifold Assembly	6
AKJ or AKM 25 or 37 Pin Sub-D Ordering Example	7
AKF or AKT 1-16 or 1-32 Terminal Strip Ordering Example	7
AKP, AKR or AKS 12 Pin, 26 or 26+12 Pin Round Connector Ordering Example	7
Individual Base Assembly Kit	8
Internal/External Pilot Selection	8
Valve on Individual Base	9
Sandwich Pressure Regulators Ordering Example	10
Valve Regulator / Speed Control Plug-in Assembly	11
Regulator Kits & Service Parts	11
Sandwich Pressure Regulator Dimensions	12
Gauge Kit	12
Mid-Station Supply and Exhaust Block	13
Sandwich Pressure Block	13
Sandwich Exhaust Block	13
Speed Control Kit	14
Blank Station Plate	14
Solenoid Pilot Assembly	15
Valve Service Kits and Parts	16
Manifold Assemblies	17
Ribbon Cable Assembly Kit	17
Internal/External Pilot Selection	18
Internal Pilot Plug	18
Blocking Disc	18
Internal Muffler	18
End Plate Kits	19
Adaptor Plate Kits	20
25 Pin Sub-D Connector Kit	21
37 Pin Sub-D Connector Kit	21
1-16 & 1-32 Terminal Strip Kit	22
26 Pin & 26 Pin Round Connector Kit	22
12 Pin Round Connector Kit	23
19 Pin Round Connector Kit	23
Valve on Manifold Block	24
Manifold Assembly Dimensions	25
Electrical Interface Dimensions	26

Manifold and Wiring Architecture

Terminal Strip, Sub-D, and Round Connector Options (exploded view)



5 Ported, 2 and 3 position, 4-way, Spool & Sleeve

Cv: 3.5

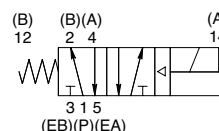
- Solenoid air pilot actuated
- Low wattage plug-in - 2.5 watt for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- Simple conversion from internal to external pilot supply
- Modular plug-together fieldbus electronics
- Designed to meet NEMA4/IP65
- Manifold connection allows disassembly at any station



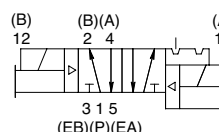
Technical Data

Valve Data	English	Metric
Cv*	3.5*	3.5
Flow Capacity	161 SCFM @ 80 PSIG upstream pressure to atmosphere	3500 NI/m @ 6 bar upstream pressure to 5 bar atmosphere
Operating Pressure Range	28"Hg Vacuum to 145 PSIG	Vacuum to 10 bar
Pilot Pressure Range	26.1 to 120 PSIG	1.8 to 8.2 bar
Temperature Range (Ambient)	-10°F to + 115°F	-23°C to +46° C

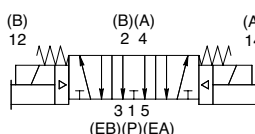
single solenoid air pilot
2 position 4-way



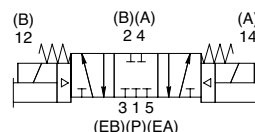
double solenoid air pilot
2 position 4-way



double solenoid air pilot
3 position 4-way
open center



double solenoid air pilot
3 position 4-way
closed center



Operating Data

All Solenoids Are Continuous Duty Rated	24 VDC	110 - 120 VAC 50/60 Hz.
Power (Watts)	2.5	4.2
Holding Current (Amps.)	0.10	0.03

Response Time in Seconds**	Energize	De-Energize	Energize	De-Energize
2-Position, Single, Spring Return	0.021	0.067	0.015	0.070
2-Position, Double, Detented	0.017	N/A	0.015	N/A
3-Position, Spring Centered	0.021	0.072	0.015	.080

* Valve on 1/2 NPTF Sub-Plate

** Per ISO12238 Standard

How to Order

Valves

353 BB 4 Z6 M N 000 61

Valve Series & Port Size
 353* = 3/8
 354 = 1/2
 *Use for valve unit only (Mounting = 00)

Valve Type
 BA = Single Solenoid Pilot, (Spring Return)
 w/Flush Non-Locking Override
 BB = Double Solenoid Pilot w/Flush
 Non-Locking Override
 00 = Blank Station Plate

Function
 4 = 2 Position, 4-way
 5 = 3 Position, 4-way Open Center
 6 = 3 Position, 4-way Closed Center
 P = Blank Station Plate

Mounting
 00 = Valve Unit only
 3A = Individual Base, Side Ports, Individual Exhaust
 3B = Individual Base, Side & Bottom Ports, Individual Exhaust
 3C = 3A w/ Speed Control
 3D = 3B w/ Speed Control
 Z1 = Manifold Block w/Side and Bottom Ports,
 Single Solenoid Internal Circuit Board
 Z2 = Manifold Block w/Side and Bottom Ports
 Double Solenoid Internal Circuit Board
 Z5 = Z1 w/Speed Control
 Z6 = Z2 w/Speed Control
 R1 = Z1 w/ Ribbon Cable Connector
 R2 = Z2 w/ Ribbon Cable Connector
 R5 = Z5 w/ Ribbon Cable Connector
 R6 = Z6 w/ Ribbon Cable Connector

Voltage
 20 = 24/50-60 VAC
 30 = 110-120/50-60 VAC
 60 = 12 VDC
 61 = 24 VDC
 00 = Blank Station Plate

Special Options
 11B = Flush Locking Override
 11M = No Override
 56Y = 12 mm Electrical Connector in Conduit
 Port of Base Mounting Only

Port Type
 N = NPTF
 G = G Tap
 0 = Valve Unit only

Wiring Option
 K = Plug-in AC w/Light
 M = Plug-in DC w/Light
 0 = Blank Station Plate

Regulators

353 RS 3 Z1 J N 000 00

Valve Series & Port Size
 353* = 3/8
 354 = 1/2
 *Use for regulator unit only (Mounting = 00).

Regulator Type
 RS = Single Pressure to Port 1 (P)
 RD = Dual Pressure to Ports 3 (EB) & 5 (EA)
 RC = Dual Pressure w/Non-relieving Checks
 RQ = Dual Pressure w/Relieving Checks
 RE = Dual Pressure to Ports 4 (A) & 2 (B)
 RT = 2 Pressure Selector
 Note: For metric gauge, replace R with E in 4th digit.

Pressure Range
 1 = 10-130 PSIG (0.7-9 bar)
 3 = 3-30 PSIG (0.2-2 bar)
 4 = 5-60 PSIG (0.5 - 4 bar)

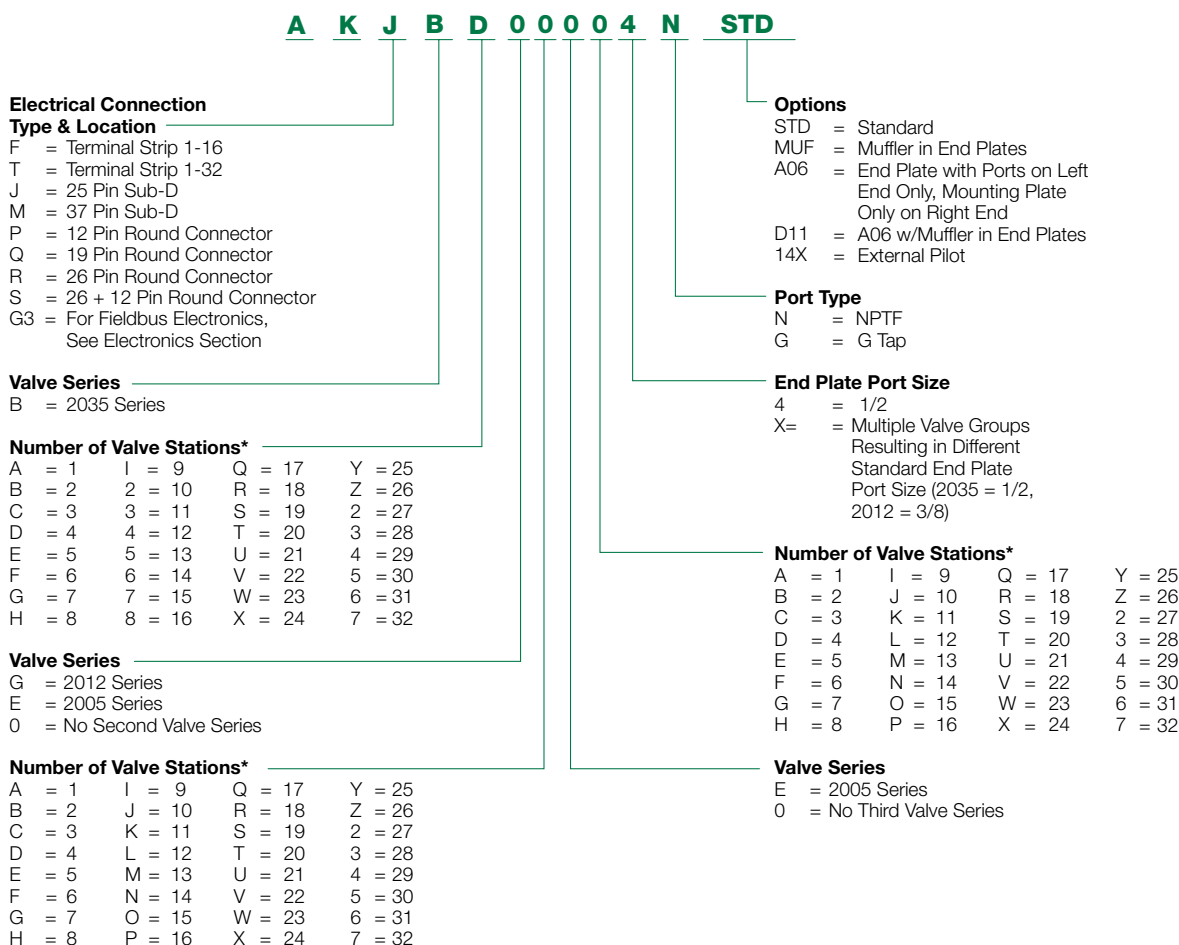
Special Options
 12H = Less gauge
 16N = Jumper on 14 (A) End
 16P = Jumper on 12 (B) End
 16W = Top Facing Gauge
 000 = No Option

Port Type
 N = NPTF
 G = G Tap
 0 = Regulator Unit Only

Wiring Option
 J = Plug-In Receptacle Assembly
 O = Non-Plug-In (Type RE only)

Mounting
 00 = Regulator Unit Only
 Z1 = Manifold Block w/Side and Bottom Ports,
 Single Solenoid Internal Circuit Board
 Z2 = Manifold Block w/Side and Bottom Ports,
 Double Solenoid Internal Circuit Board
 Z5 = Z1 w/Speed Control
 Z6 = Z2 w/Speed Control
 R1 = Z1 w/Ribbon Cable Connector
 R2 = Z2 w/Ribbon Cable Connector
 R5 = Z5 w/Ribbon Cable Connector
 R6 = Z6 w/Ribbon Cable Connector

Manifold Assembly



Maximum Solenoid Outputs

Terminal Strip		25 Pin Sub-D	37 Pin Sub-D	26 Pin Round	26 + 12 Pin Round	12 Pin Round	19 Pin Round
AK "F"	AK "T"	AK "J"	AK "M"	AK "R"	AK "S"	AK "P"	AK "Q"
16	32	22	32	22	32	8	16

*NOTE: Maximum number of valve stations is determined by:

- 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.
- Combination of all stations cannot exceed 32.

AKJ or AKM 25 or 37 Pin Sub-D

- Shaded components described by Assembly Kit (AK) 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:

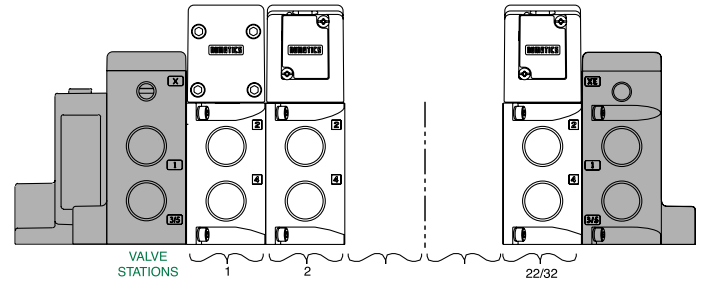
25 Pin Sub-D
valve station 1
valve station 2
valve station 3
valve station 4
ASSEMBLED

AKJBD00004NSTD
353BA4Z1MN00061
353BA4Z1MN00061
353BB4Z2MN00061
353BB5Z2MN00061
ASSEMBLED

Example order:

37 Pin Sub-D
valve station 1
valve station 2
valve station 3
valve station 4
ASSEMBLED

AKMBD00004GMUF
353BA4Z1MG00061
353BA4Z1MG00061
353BB5Z2MG00061
353BB6Z2MG00061
ASSEMBLED



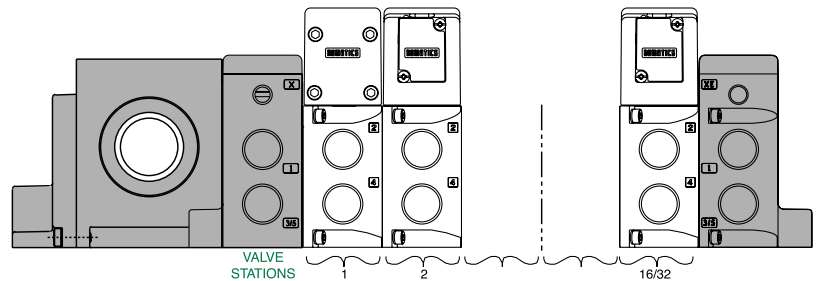
AKF or AKT 1-16 or 1-32 Terminal Strip

- Ordered using the same method as Sub-D:

Example order:

valve station 1
valve station 2
valve station 3
valve station 4
valve station 5
valve station 6
ASSEMBLED

AKFBF00004NSTD
354BA4Z1MN00061
354BA4Z1MN00061
354BB4Z2MN00061
354BB4Z2MN00061
354BB5Z2MN00061
354BB6Z2MN00061
ASSEMBLED



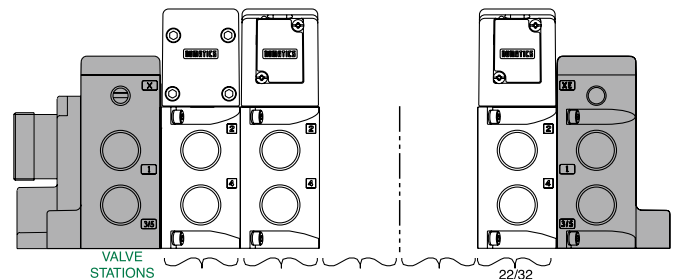
AKP, AKR or AKS 12, 26 or 26+12 Pin Round Connector

- Ordered using the same method as Sub-D:

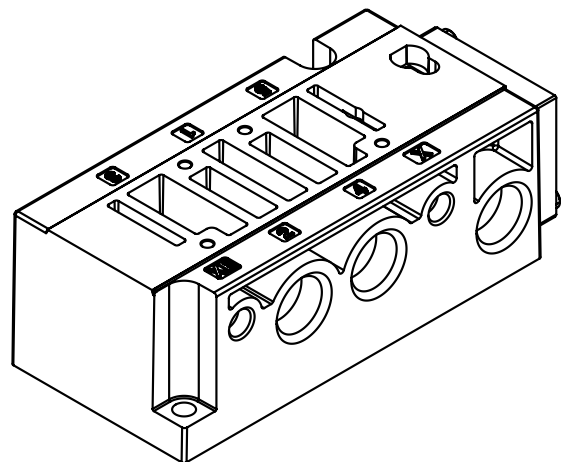
Example order:

valve station 1
valve station 2
valve station 3
valve station 4
valve station 5
valve station 6
valve station 7
valve station 8
ASSEMBLED

AKRBH00004NMUF
354BA4Z1MN00061
354BA4Z1MN00061
354BA4Z1MN00061
354BB4Z6MN00061
354BB4Z6MN00061
354BB4Z6MN00061
354BB5Z6MN00061
354BB5Z6MN00061
ASSEMBLED

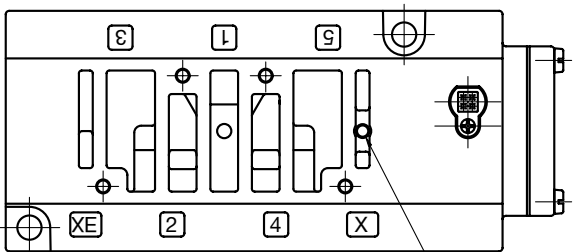


Individual Base Assembly Kit



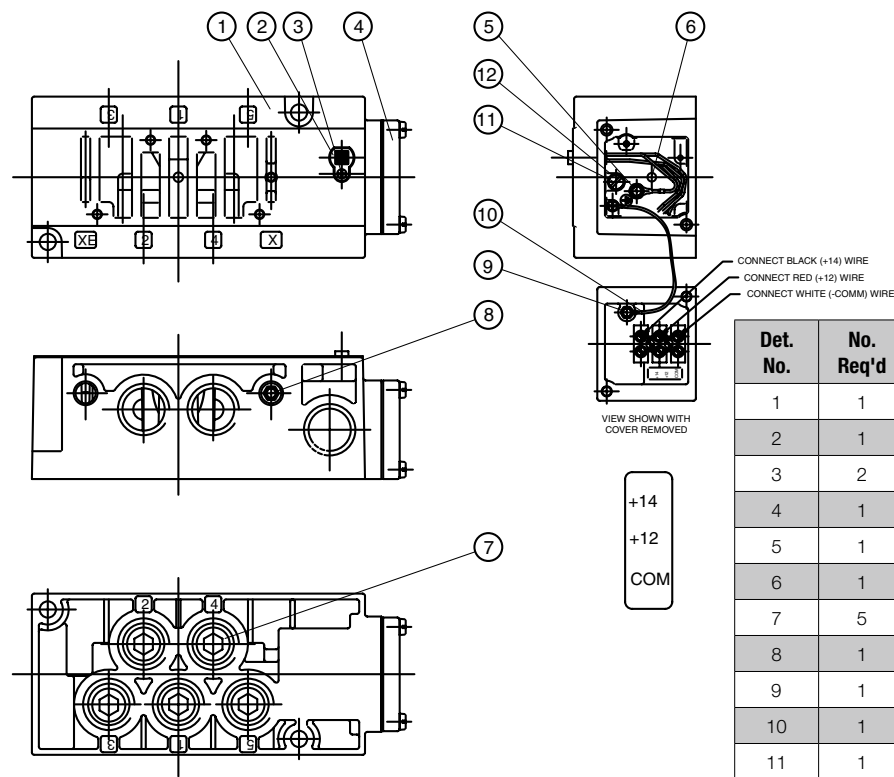
Port Size	Part No.
1/2 NPTF Side Ports	203-1283
1/2 NPTF Side & Bottom	203-1284
3/8 NPTF Side Ports	203-1287
3/8 NPTF Side & Bottom	203-1288
1/2 G Side Ports	203-1285
1/2 G Side & Bottom	203-1286
3/8 G Side Ports	203-1289
3/8 G Side & Bottom	203-1290

Internal/External Pilot Selection



M4 PILOT PORT LOCATION
(PLUG #127-691 ORDER SEPARATELY)

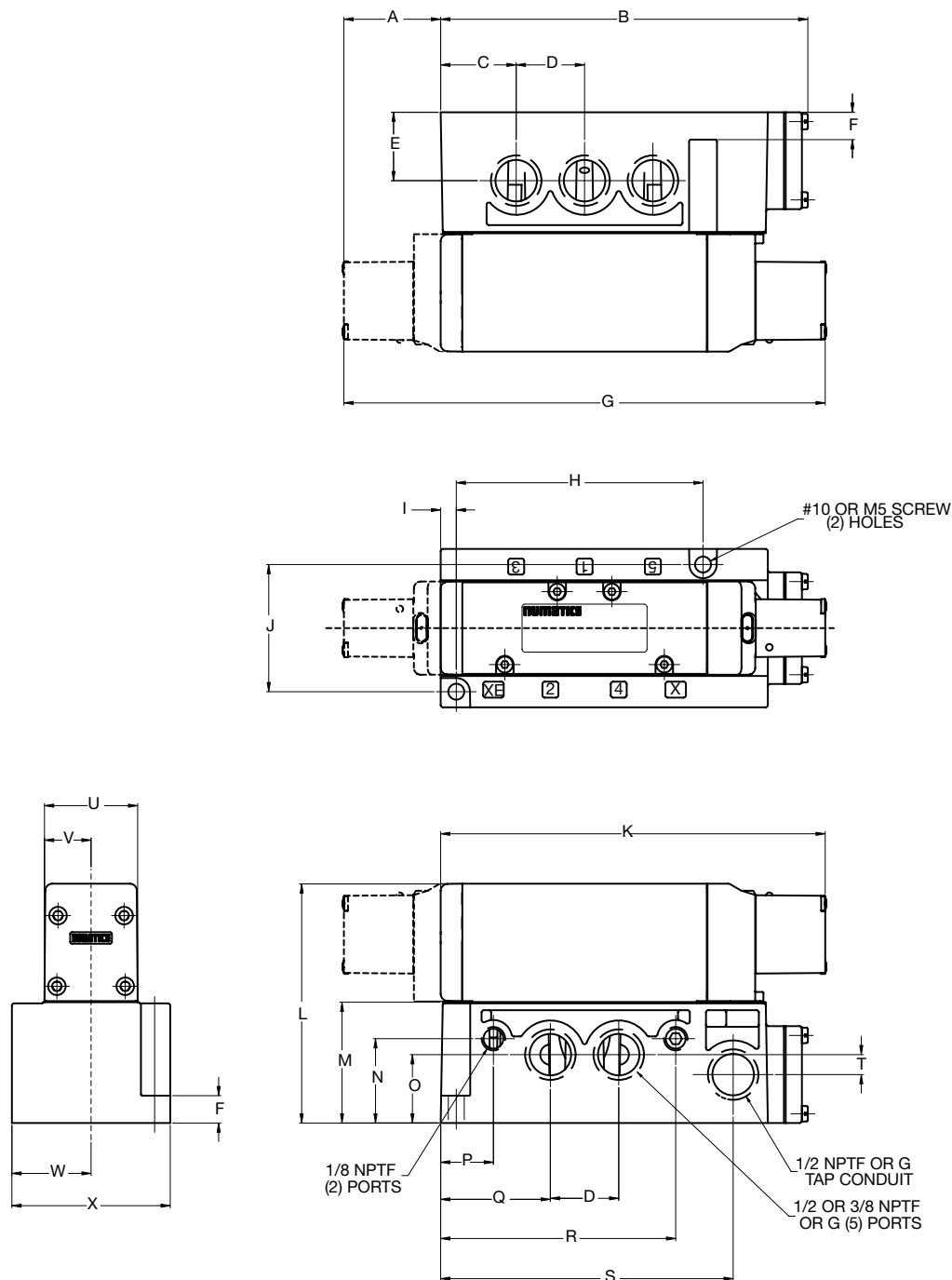
Note: Base assemblies are supplied set up for internal pilot supply. To convert to external pilot supply install plug P.N. 129-216 (sold separately) in the "X" gallery as indicated above. Remove the 1/8 NPTF pipe plug from the "X" port to supply pilot pressure.



Det. No.	No. Req'd	Part Name	Part No.
1	1	Base	103-893
2	1	Connector Assembly	230-1147
3	2	Screw	127-318
4	1	Cover Assembly	205-389
5	1	Screw	127-310
6	1	5/32 in. Ball	121-101
7	5	1/2 Pipe Plug	129-103
8	1	1/8 Pipe Plug	129-100
9	1	Screw	127-172
10	1	Strap	125-772
11	1	Screw	127-176
12	1	Washer	128-162

Valve on Individual Base

Dimensions: Inches (mm)



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1.67 (42.5)	6.35 (161.2)	1.31 (33.2)	1.18 (30.0)	1.18 (30.0)	0.47 (12.0)	8.32 (211.3)	4.26 (108.3)	0.27 (6.9)	2.20 (55.8)	6.64 (168.8)	4.13 (104.9)	2.09 (53.0)	1.46 (37.0)	1.18 (30.0)

P	Q	R	S	T	U	V	W	X
0.91 (23.2)	1.90 (48.2)	4.06 (103.2)	5.06 (128.4)	0.35 (8.8)	1.61 (40.9)	0.81 (20.5)	1.37 (34.8)	2.74 (69.5)

Sandwich Pressure Regulators

Types: RS / RD / RE / RT / RC / RQ

When ordering a valve with a regulator mounted on a manifold, list the valve unit model number only and include the mounting requirements with the regulator. Specify "Assembled."

Example orders:

Valve unit only:

Type RS

353BA400K000030

Regulator

353RS1Z1JN00000

+mounting

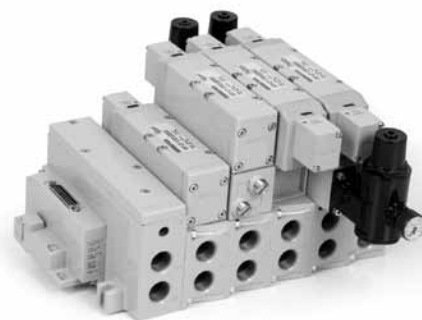
ASSEMBLED

Type RD

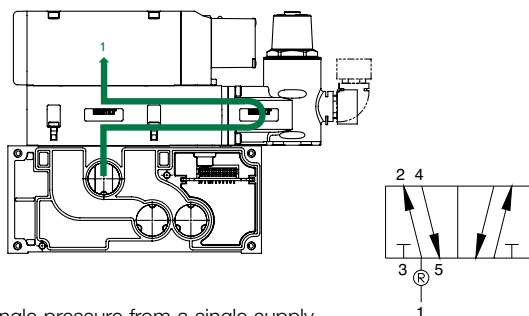
353BB400M0000061

353RD1Z2JN00000

ASSEMBLED

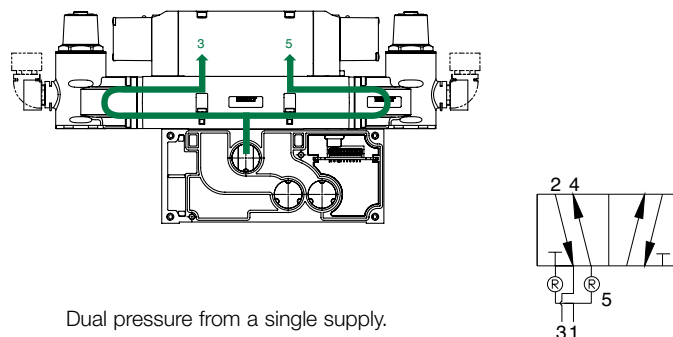


Type RS



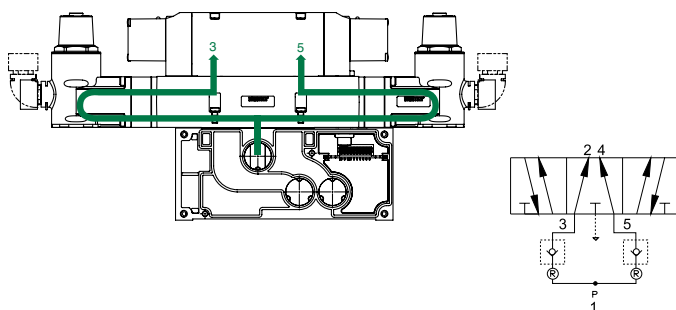
Single pressure from a single supply.

Type RD



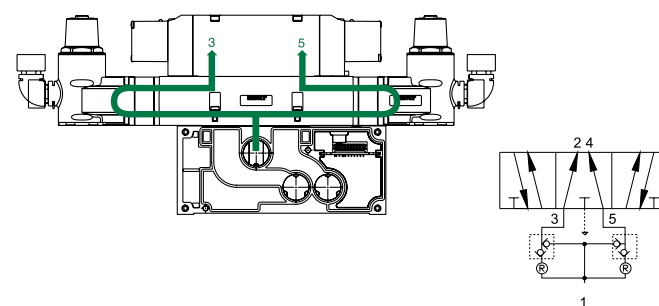
Dual pressure from a single supply.

Type RC



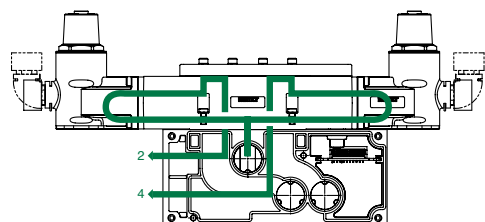
Type RC is non-relieving:
Traps downstream pressure if upstream pressure is exhausted.

Type RQ



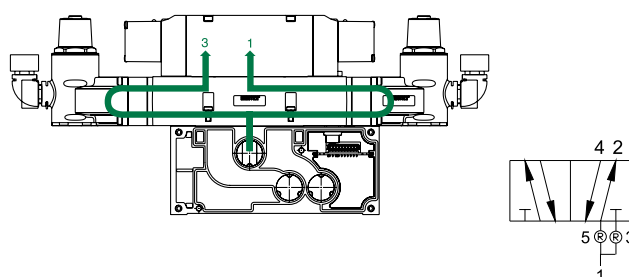
Type RQ is relieving:
Exhausts pressure in cylinder if upstream pressure is exhausted.

Type RE



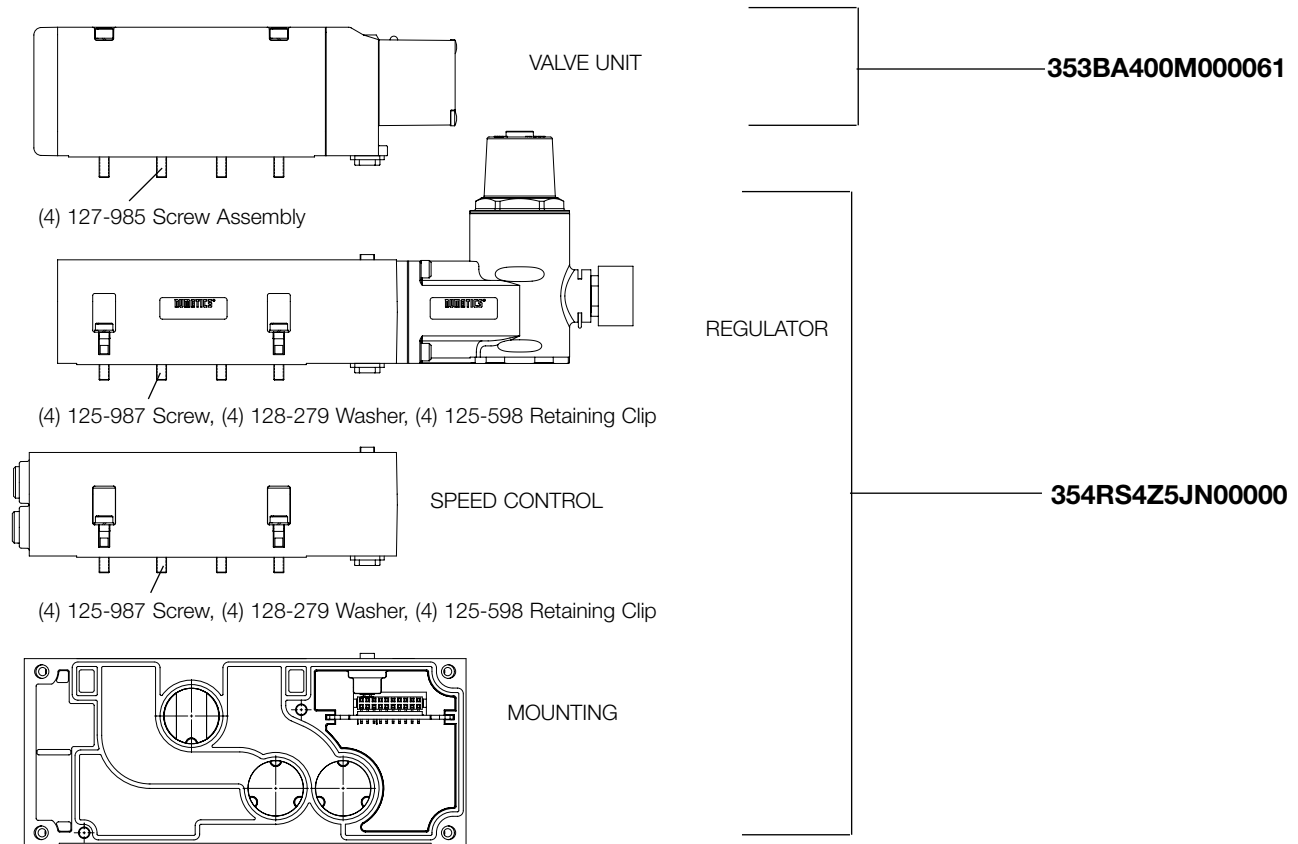
External regulator - separate pressures to ports 2 and 4.

Type RT



Two-pressure selector used for multi-pressure applications.

Valve Regulator / Speed Control Plug-in Assembly



Regulator Kits & Service Parts

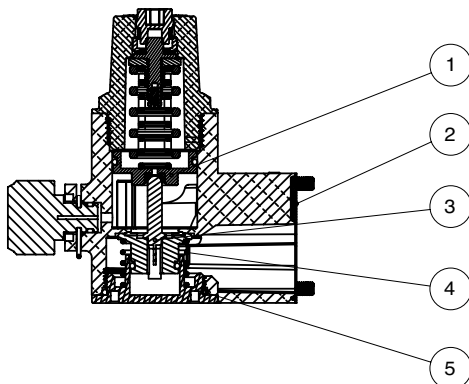
Regulator Service Kit

239-2256

Check Assembly Kits

RC: 239-2254

RQ: 239-2253



Regulator Unit Kits

(includes regulator assembly, gaskets, screws)

PSIG	Part No.
3-30 PSIG	239-2220
5-60 PSIG	239-2221
10-130 PSIG	239-2222

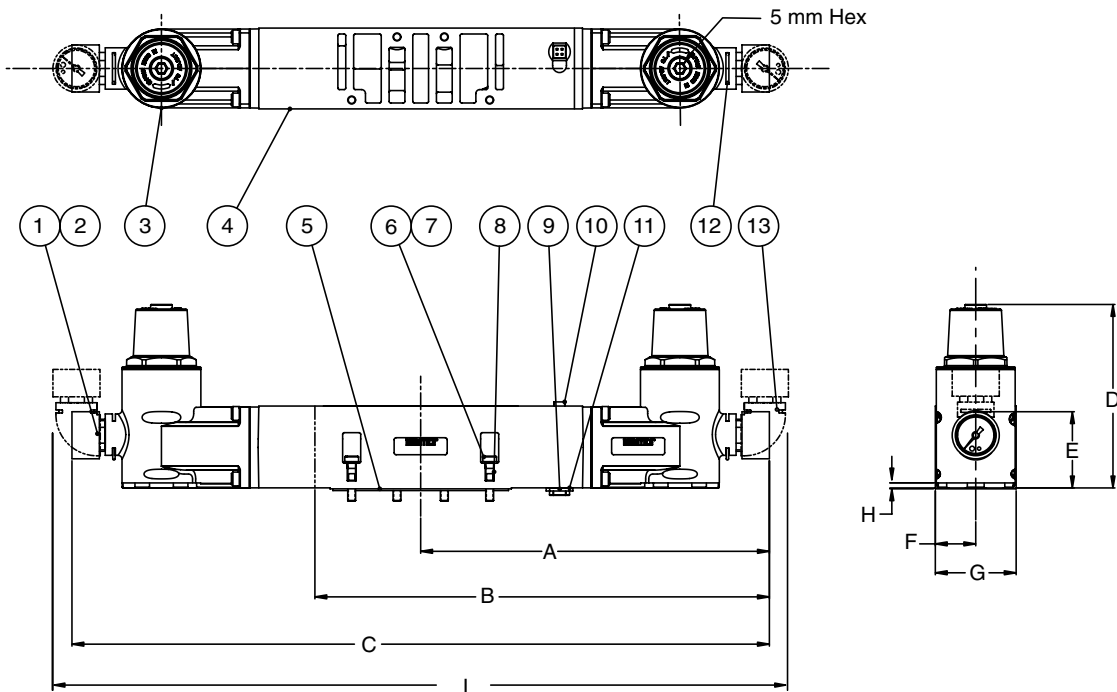
Bonnet Springs

PSIG	Part No.
3-30 PSIG	115-428
5-60 PSIG	115-429
10-130 PSIG	115-426
*Both springs required	115-427

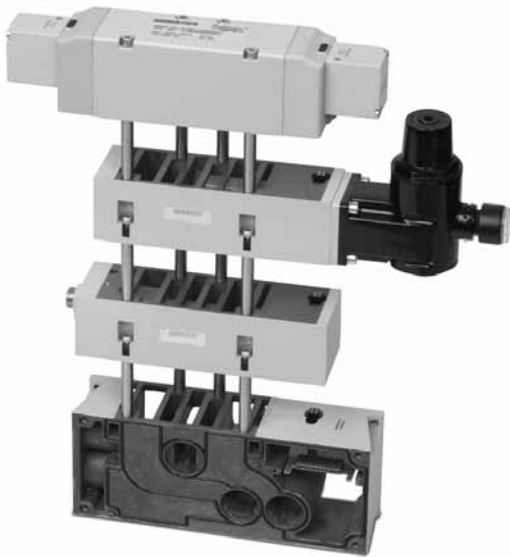
Det. No.	No. Req'd	Part Name
1	1	Piston Assembly
2	1	Gasket
3	1	Poppet Valve Assembly
4	1	Spring
5	1	O-Ring

Sandwich Pressure Regulator

Dimensions: Inches (mm)



A	B	C	D	E	F	G	H	I
6.97 (177.1)	9.07 (230.7)	13.94 (354.1)	3.67 (93.1)	1.52 (38.6)	0.79 (20.5)	1.57 (41.0)	0.02 (0.46)	14.69 (373.1)



Gauge Kit

160 PSI	11 bar max.	60 PSI	4 bar max.
214-214	214-215	214-219	214-220

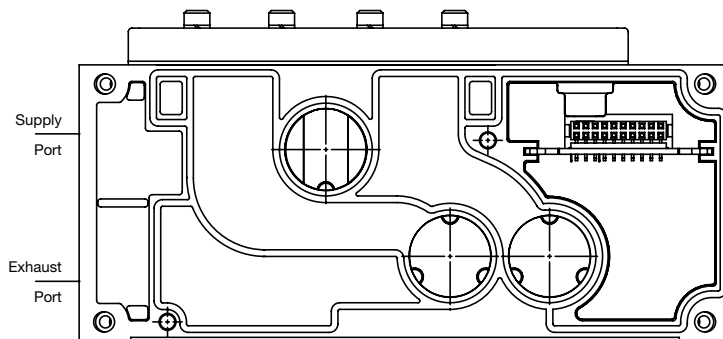
Gauge Adaptor Kit 1/8 NPTF 239-1561
Elbow Kit 239-1217

Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	1*	Gauge 160 PSI max.	214-212
1	1*	Gauge 11 Bar max.	214-213
1	1*	Gauge 60 PSI max.	214-217
1	1*	Gauge 4 Bar max.	214-218
2	1*	O-Ring	126-105
3	1*	Regulator	See pg 11
4	1	Regulator Block RS RD, RC, RQ RT RE	125-1102 125-1103 125-1104 125-1105
5	1	Gasket	113-623
6	4	Screw	127-987
7	4	Lockwasher	128-279
8	4	Screw Retaining Clip	125-598
9	1	Screw	127-318
10	1	Plug Assembly	230-1123
11	1	Gasket	113-618
12	1*	Pin	131-236
13	1*	Elbow	134-505

* (2) Required for RD
Note: RC and RQ require Check Ass'y Kits p. 8

Mid-Station Supply and Exhaust Block

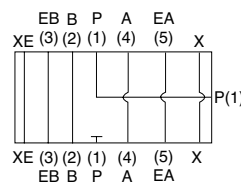
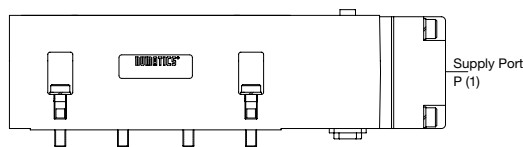


- Add additional supply and exhaust capacity to large manifold assemblies
- Add different pressure to manifold section with use of blocking disks
- Same size as standard manifold block with blank station plate

Mid-Station Supply & Exhaust Block Kit

Port Type	Part. No.
NPTF 1/2	239-2224
G 1/2	239-2225

Sandwich Pressure Block

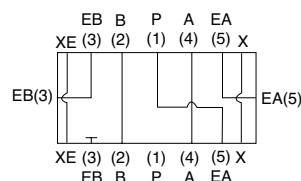
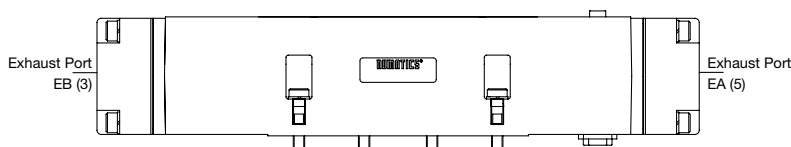


- Used to supply a separate pressure to a single valve station without needing blocking disks.

Sandwich Pressure Block Kit

Port Type	Part. No.
NPTF 3/8	239-2227
G 3/8	239-2228

Sandwich Exhaust Block

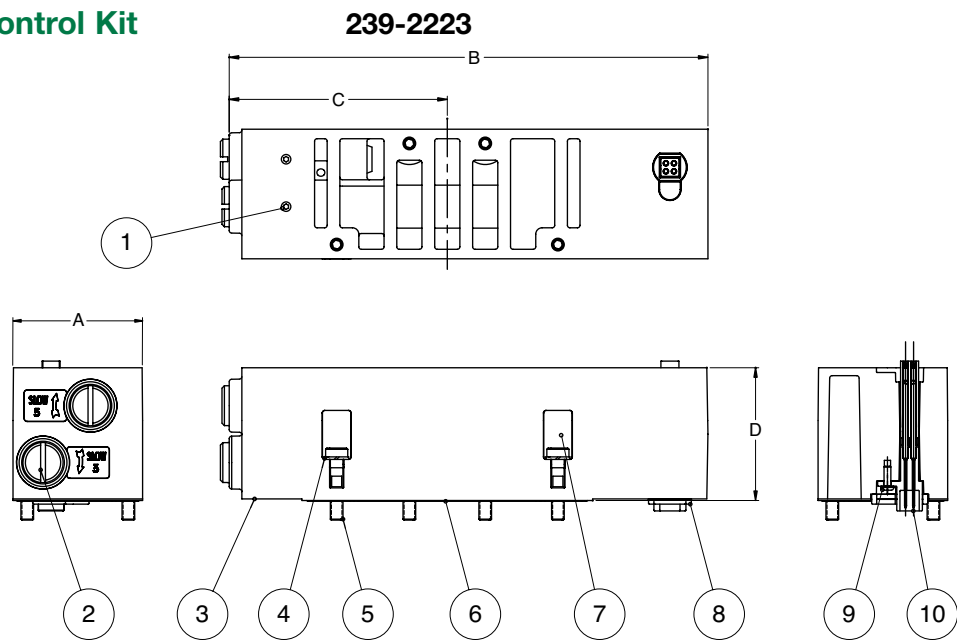


- Used to isolate the exhaust of a single valve station from the manifold.
- Allows faster exhaust response by re-routing.
- Exhaust externally to the manifold.

Sandwich Exhaust Block Kit

Port Type	Part. No.
NPTF 3/8	239-2229
G 3/8	239-2230

Speed Control Kit



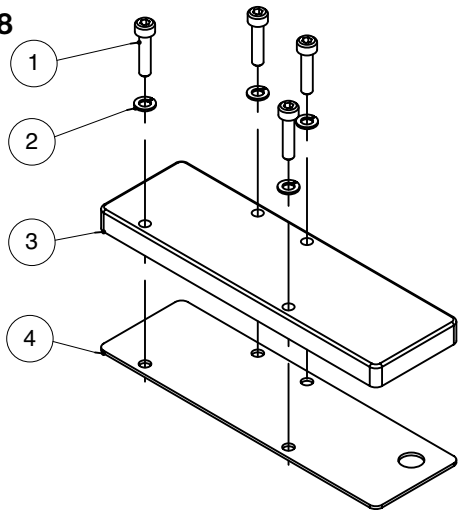
Dimensions: Inches (mm)

A	B	C	D
1.61 (41.0)	5.96 (151.5)	2.72 (69.0)	1.65 (42.0)

Det. No.	No. Req'd	Part Name	Part No.
1	2	Retaining Screw	127-686
2	2	Metering Screw	118-179
3	1	Speed Control Body	125-1099
Not Shown	2	Nylon Rod	125-602
4	4	Washer	128-279
5	4	Screw	127-987
6	1	Gasket	113-623
7	4	Retaining Clip	125-598
8	1	Gasket	113-618
9	1	Screw	127-318
10	1	Plug Assembly	230-1123

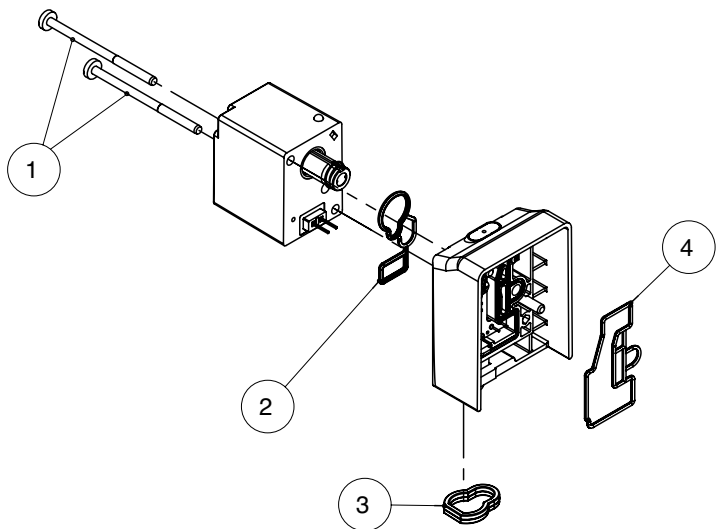
Blank Station Plate Kit

239-2218

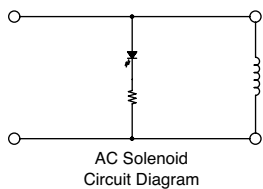
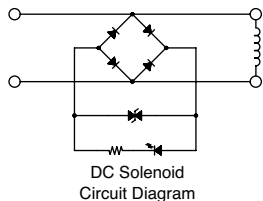


Det. No.	No. Req'd	Part Name	Part No.
1	4	Screw	127-398
2	4	Washer	128-279
3	1	Blank Station Plate	104-809
4	1	Gasket	113-624

Solenoid Pilot Assembly



Det. No.	No. Req'd	Part Name	Part No.
1	2	Screw	127-823
2	1	Gasket	113-617
3	1	Gasket	113-618
4	1	Gasket	113-619

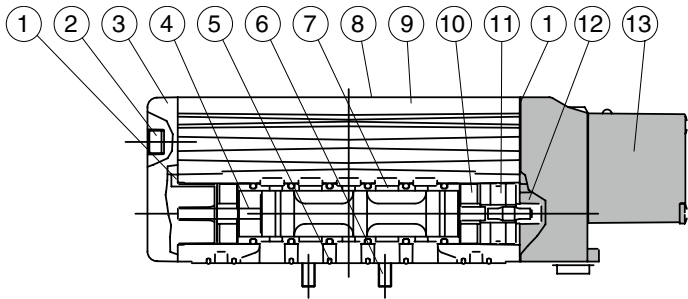


Det. No.	12 VDC	24 VDC	24 VAC	120 VAC
14 end, push non-locking override	236-561	236-562	237-1169	237-1168
12 end, push non-locking override	236-557	236-558	237-1163	237-1162
14 end, turn & lock override	236-563	236-564	237-1171	237-1170
12 end, turn & lock override	236-555	236-556	237-1165	237-1164
14 end, no override	236-559	236-560	237-1167	237-1166
12 end, no override	236-553	236-554	237-1161	237-1160

Valve Service Kits and Parts

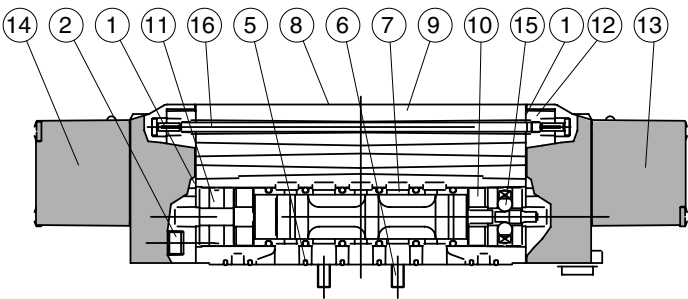
Kit No. 2035-K1*

(For Models BA4)



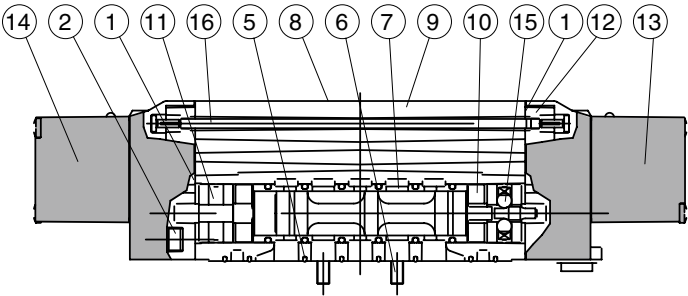
Kit No. 2035-K2*

(For Models BB4)



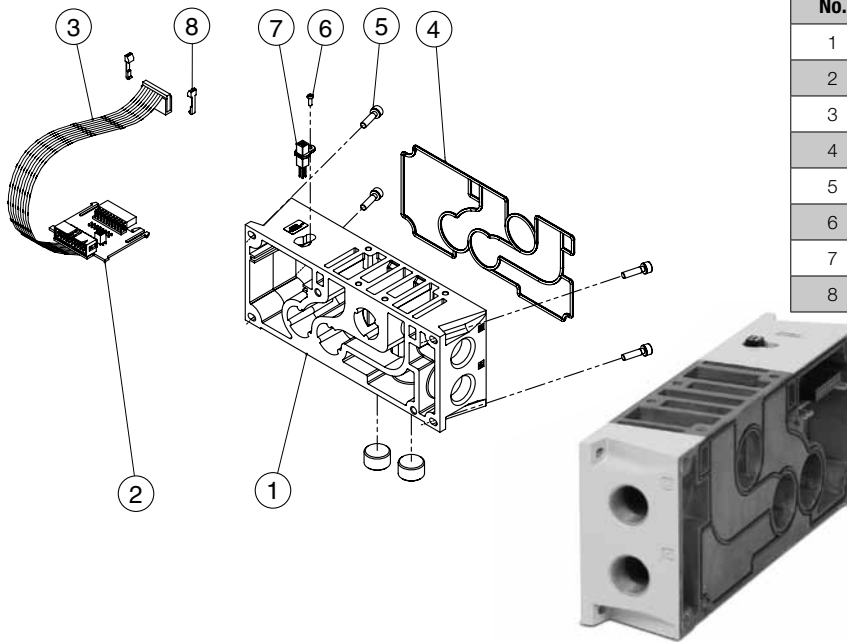
Kit No. 2035-K3*

(For Models BB5)



Det. No.	No. Req'd				Part Name	Part No.
	BA4	BB4	BB5	BB6		
1*	2	2	2	2	Gasket	113-620
2	8	8	8	8	Screw Assembly	127-396
3	1	N/A	N/A	N/A	Spring Cover	104-808
4*	1	N/A	N/A	N/A	Spring	115-248
5*	1	1	1	1	Gasket	113-623
6	4	4	4	4	Screw Assembly	127-985
7	1	1	N/A	N/A	Spool & Sleeve Ass'y	209-571
7	N/A	N/A	1	N/A	Spool & Sleeve Ass'y	209-481
7	N/A	N/A	N/A	1	Spool & Sleeve Ass'y	209-482
8	1	1	1	1	Nameplate	122-1186
9	1	1	1	1	Body	101-852
10*	2	2	N/A	N/A	Bumper	114-170
11*	1	1	N/A	N/A	Detent Body	110-113
12	1	2	2	2	Pilot Plate	119-761
13	1	1	1	1	Solenoid Pilot Ass'y-14 End	See pg 15
14	N/A	1	1	1	Solenoid Pilot Ass'y-12 End	See pg 15
15*	N/A	1	N/A	N/A	Detent Assembly	210-116
16	N/A	1	1	1	12 to 14 Connector	230-1100
17*	N/A	N/A	2	2	Spring Retainer	116-488
18*	N/A	N/A	2	2	Spring	115-364
19*	N/A	N/A	2	2	Spacer	116-534
20*	N/A	N/A	2	2	Bumper	114-146

Manifold Assemblies

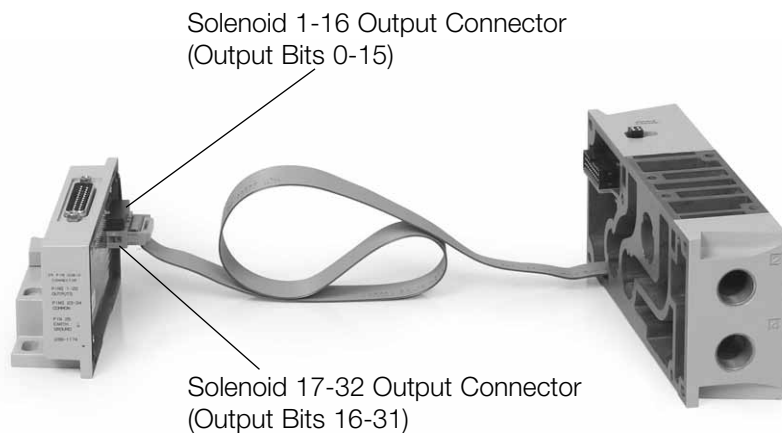


Det. No.	No. Req'd	Part Name	Part No.
1	1	Manifold Block	Not sold separately
2	1	"Z-Board"™	Not sold separately
3	1	Ribbon Cable Ass'y	230-1127
4	1	Gasket	113-622
5	4	Screw	127-986
6	1	Screw	127-318
7	1	Electrical Plug Ass'y	230-1124
8	2	Snap in Latch	140-721

	Manifold Assembly Kits			
Side Cylinder Ports/Bottom Cylinder Ports	1/2 NPTF/3/8 NPTF	G 1/2/G 3/8	3/8 NPTF/3/8 NPTF	G 3/8/G 3/8
Single, "Z-Board"™	206-1608	206-1610	206-1609	206-1611
Double "Z-Board"™	206-1612	206-1614	206-1613	206-1615
Single, "Z-Board"™ w/ Ribbon Cable	206-1620	206-1622	206-1621	206-1623
Double, "Z-Board"™ w/ Ribbon Cable	206-1616	206-1618	206-1617	206-1619

Ribbon Cable Assembly Kit

239-2226



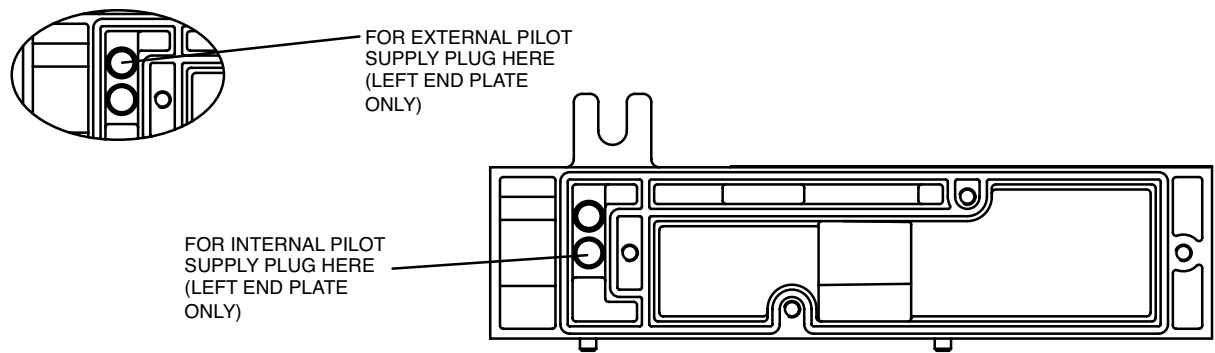
Det. No.	Part Name	Part No.
1	Ribbon Cable Assembly	230-1127
2	Snap In Latch	140-721

Ribbon cable option used for manifold assemblies that exceed 16 solenoids.



Label on manifold block indicates installed---
"Z-Board"™ type.

Internal/External Pilot Selection

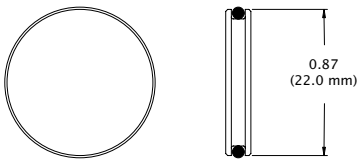
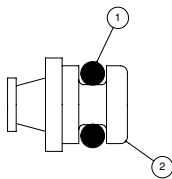


Internal Pilot Plug

213-590

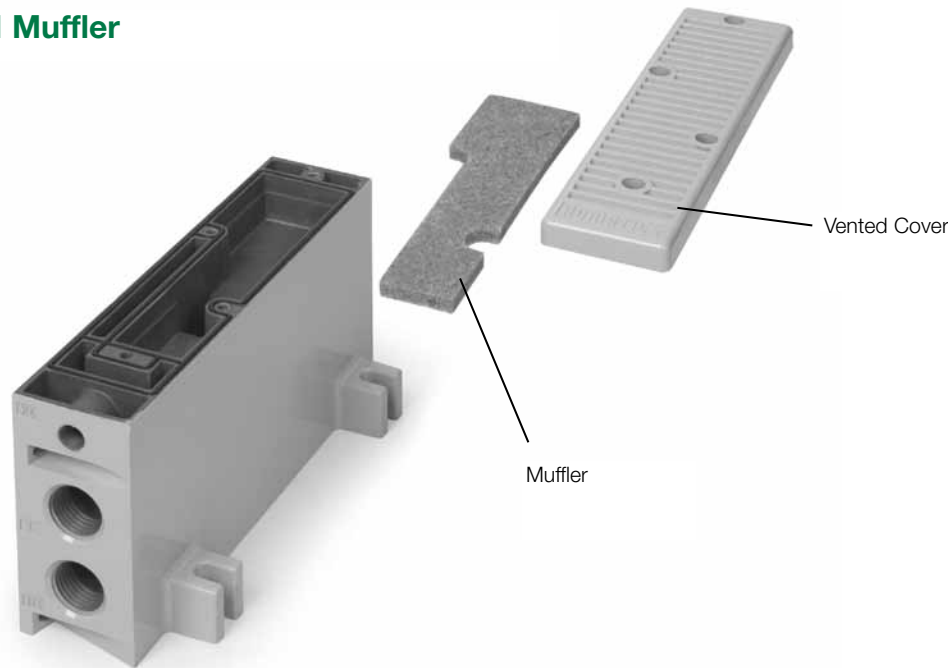
Blocking Disc

239-2219

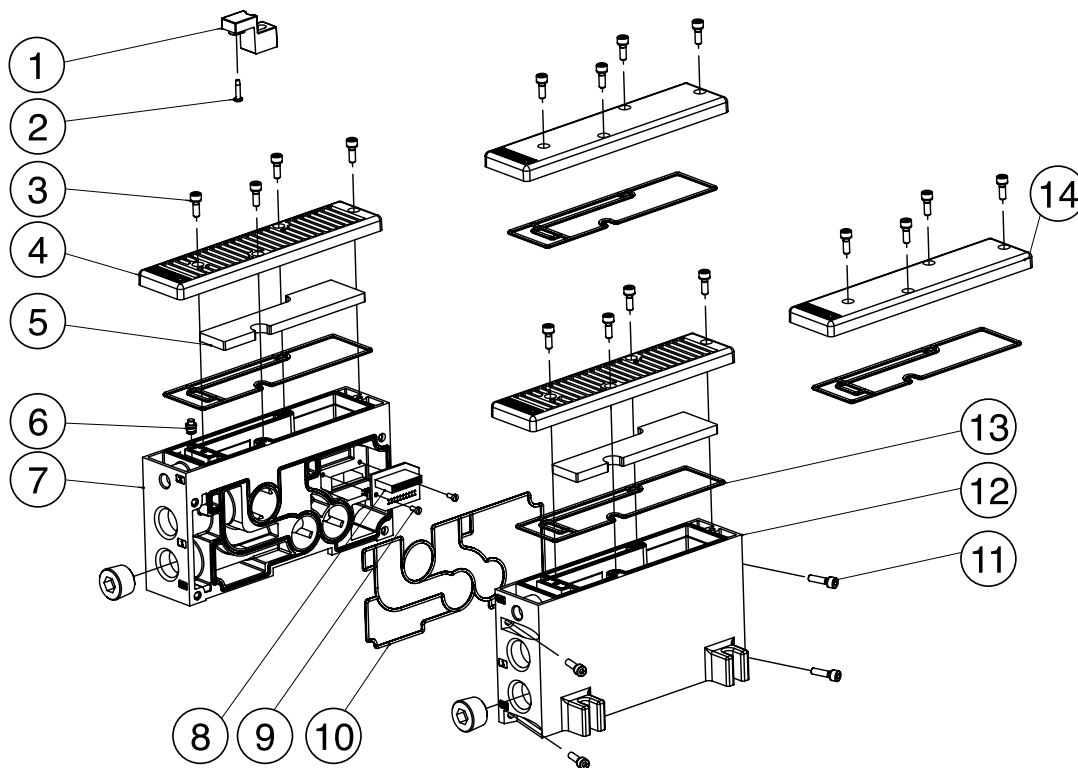


Det. No.	No. Req'd	Part Name	Part No.
1	1	O-Ring	125-1107
2	1	Plug	126-101

Optional Internal Muffler



End Plate Kit

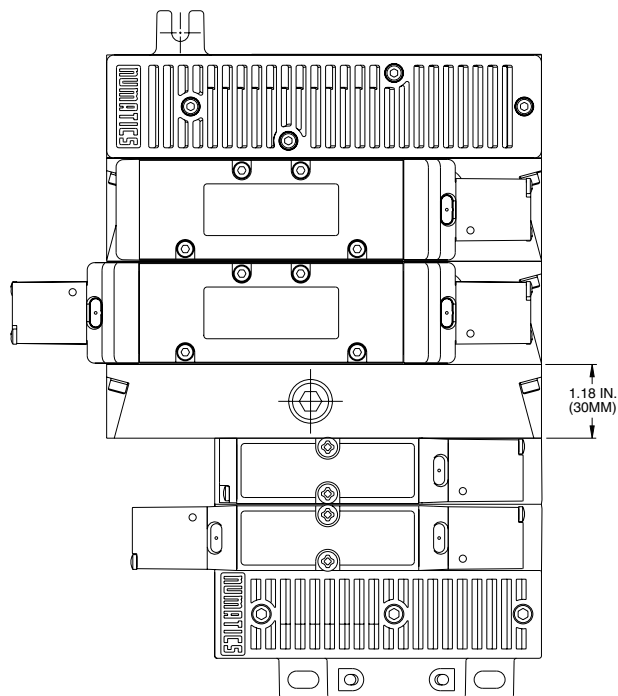


Det. No.	No. Req'd	Part Name	Part No.
1	1	Mounting Support Stand-Off	125-1106
2	1	Screw	127-137
3	8	Screw	127-396
4	2	Muffler Cover Plate	105-457
5	2	Muffler	125-1098
6	1	Pilot Plug Assembly	213-590
7	1	L.H. End Plate	Not sold separately
8	1	Trans Conn. Board Assembly	256-879
9	2	Screw	127-794
10	1	Gasket	113-622
11	4	Screw	127-986
12	1	R.H. End Plate	Not sold separately
13	2	Cover Gasket	113-621
14	2	End Plate Cover	105-456

Port Type	NPTF			G		
PORT	1	3/5	X, XE	1	3/5	X, XE
PORT SIZE	1/2	1/2	1/8	1/2	1/2	1/8
Kit with muffler	239-2205			239-2207		
Kit w/o muffler	239-2206			239-2208		

Adaptor Plate Kit 239-2278

This kit includes the adaptor plate, transfer board, gasket, screws, and studs. Individual end plates for the 2035 and 2012 are not included. This adaptor allows the transition from the 2035 to the 2012 series.



Example order*

- Adaptor Plate Kit AKJBBGB00XNMUF
- 354BA4Z2MN00061
- 354BB4Z2MN00061
- 122BA4Z1MN00061
- 122BB4Z2MN00061
- ASSEMBLED

*Valve series identifier for 2012 Series = G.

Adaptor Plate Kits with End Plates

Adaptor Plate Kit with Standard End Plates (“STD” Option)

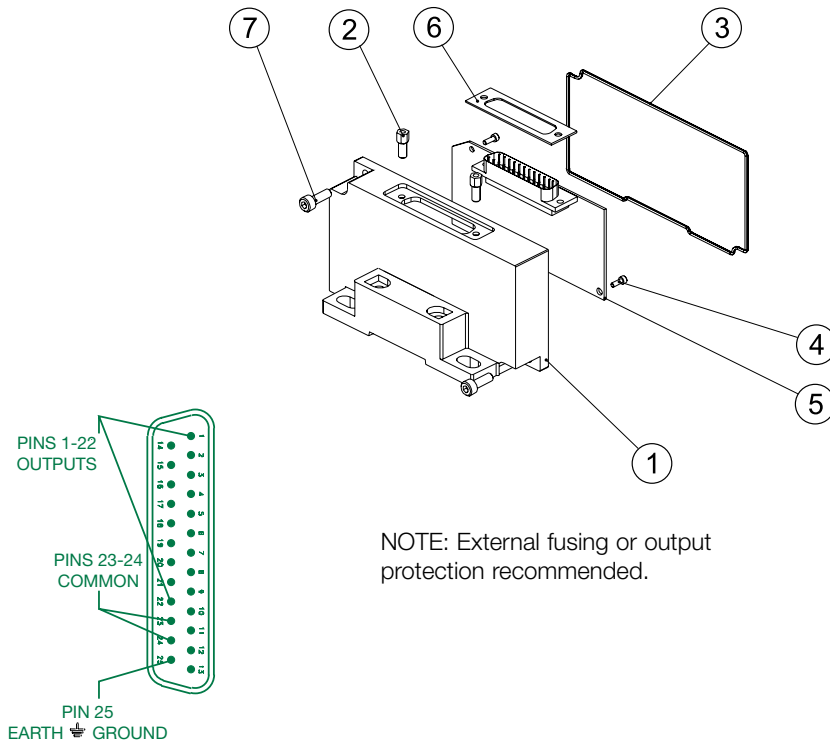
Description	Part No.
2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF	239-2279
2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap	239-2280
2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF w/o L.H. Cover	239-2283
2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap w/o L.H. Cover	239-2284

Adaptor Plate Kit with Standard End Plates and Muffler (“MUF” Option)

Description	Part No.
2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF	239-2281
2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap	239-2282
2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF w/o L.H. Cover	239-2285
2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap w/o L.H. Cover	239-2286

25 Pin Sub-D Connector Kit

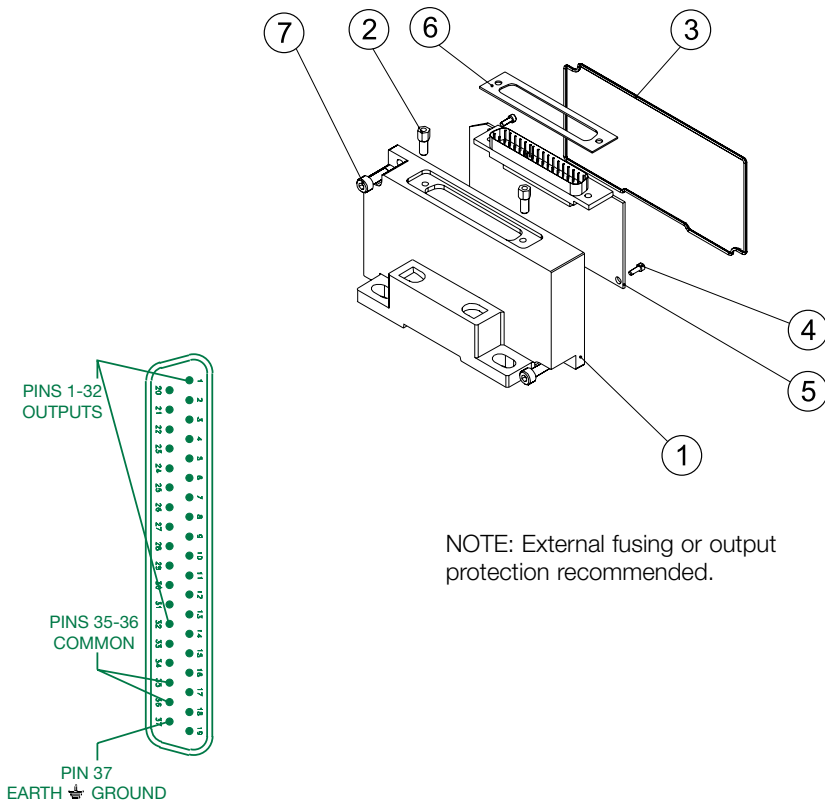
239-1174



Det. No.	No. Req'd	Part Name	Part No.
1	1	Housing	105-401
2	2	Hex Screw	127-825
3	1	Gasket	113-531
4	2	Screw	127-318
5	1	PCB Ass'y	256-607
6	1	Gasket	113-507
7	2	Screw Ass'y	127-396

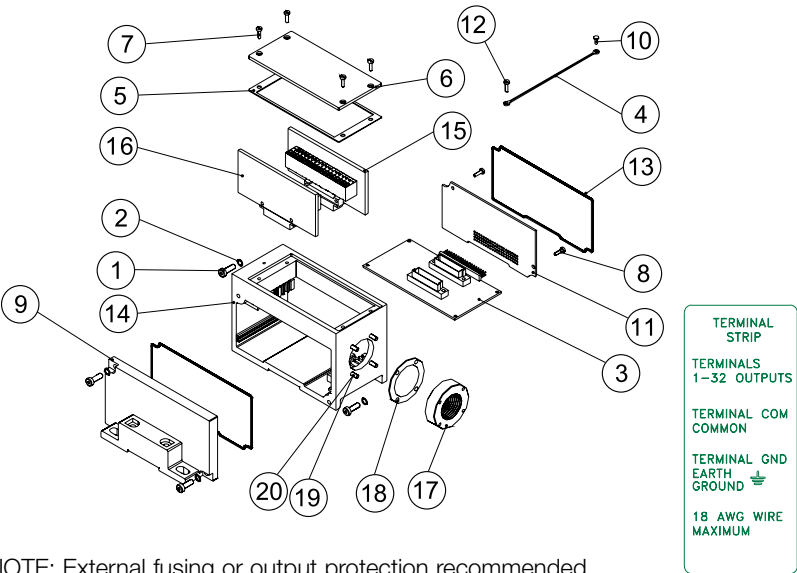
37 Pin Sub-D Connector Kit

239-1180



Det. No.	No. Req'd	Part Name	Part No.
1	1	Housing	105-402
2	2	Hex Screw	127-825
3	1	Gasket	113-531
4	2	Screw	127-318
5	1	PCB Ass'y	256-608
6	1	Gasket	113-530
7	2	Screw Ass'y	127-396

1-16 & 1-32 Terminal Strip Kit

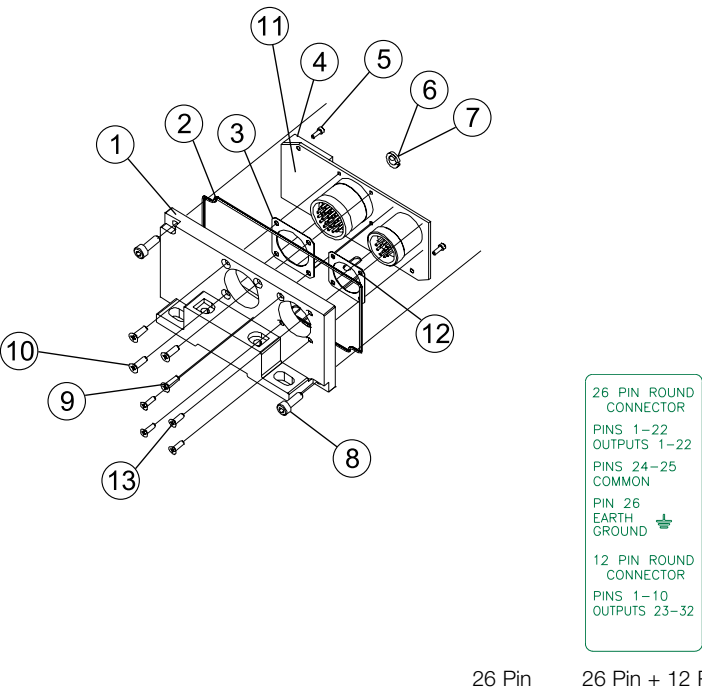


NOTE: External fusing or output protection recommended.

Terminal Strip Housing Kits	Part No.
1-16 Sol.	239-1229
1-32 Sol.	239-1231

Det. No.	No. Req'd	Part Name	Part No.
1	4	Screw	127-697
2	4	Lockwasher	128-188
3	1	Backplane Board	256-618
4	1	Cover Strap	125-772
5	1	Gasket	113-533
6	1	Cover	105-405
7	4	Screw	127-852
8	1	Screw	127-318
9	1	Cover Plate	105-403
10	1	Screw	127-180
11	1	Converter Board	256-645
12	2	Screw	127-794
13	2	Gasket	113-531
14	1	Housing	125-844
15	1	Terminal Strip (1-16)	256-617
16	1	Terminal Strip (17-32)	256-619
17	1	Adapter	119-659
18	1	Gasket	113-542
19	4	Screw	127-879
20	4	Lockwasher	128-192

26 Pin, & 26 Round Connector Kits



26 Pin 26 Pin + 12 Pin

NOTE: External fusing or output protection recommended.

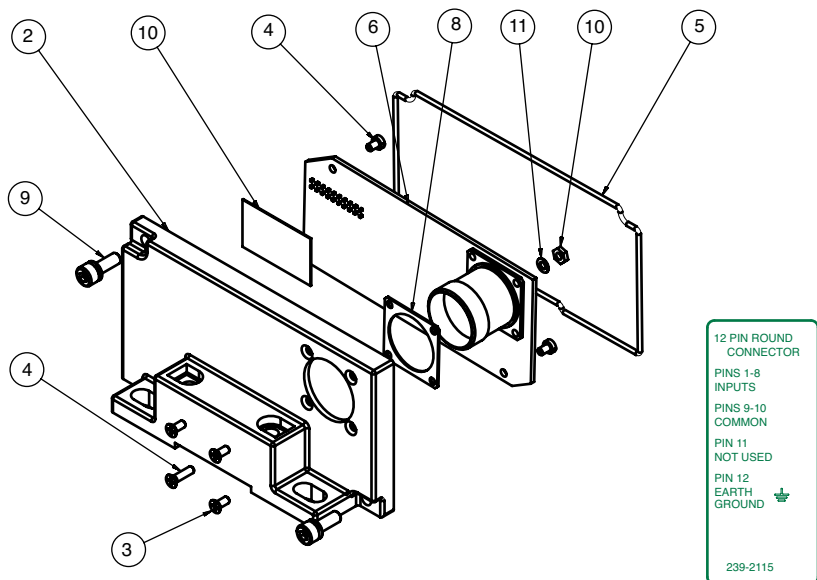
26 PIN Round Kit	Part No.
	239-1184

26 + 12 PIN Round Kits	Part No.
	239-1376

Det. No.	No. Req'd			Part Name	Part No.
	12	26	12+26		
1	1	1	1	Cover	Not sold separately
2	1	1	1	Gasket	113-531
3	N/A	1	1	Gasket	113-353
4	N/A	1	N/A	26 PCB Ass'y	256-624
4	N/A	N/A	1	26+12 PCB Ass'y	256-688
5	2	2	2	Screw	127-875
6	1	N/A	N/A	Lockwasher	128-352
6	N/A	1	1	Lockwasher	128-294
7	1	N/A	N/A	Hex Nut	128-288
7	N/A	1	1	Hex Nut	128-293
8	2	2	2	Screw Ass'y	127-396
9	1	N/A	N/A	Screw	127-982
9	N/A	3	3	Screw	127-810
10	N/A	1	1	Screw	127-770
11	1	N/A	1	Shield	140-759
12	1	N/A	1	Gasket	113-354
13	3	N/A	4	Screw	127-811

12 Pin Round Connector Kit

239-2115



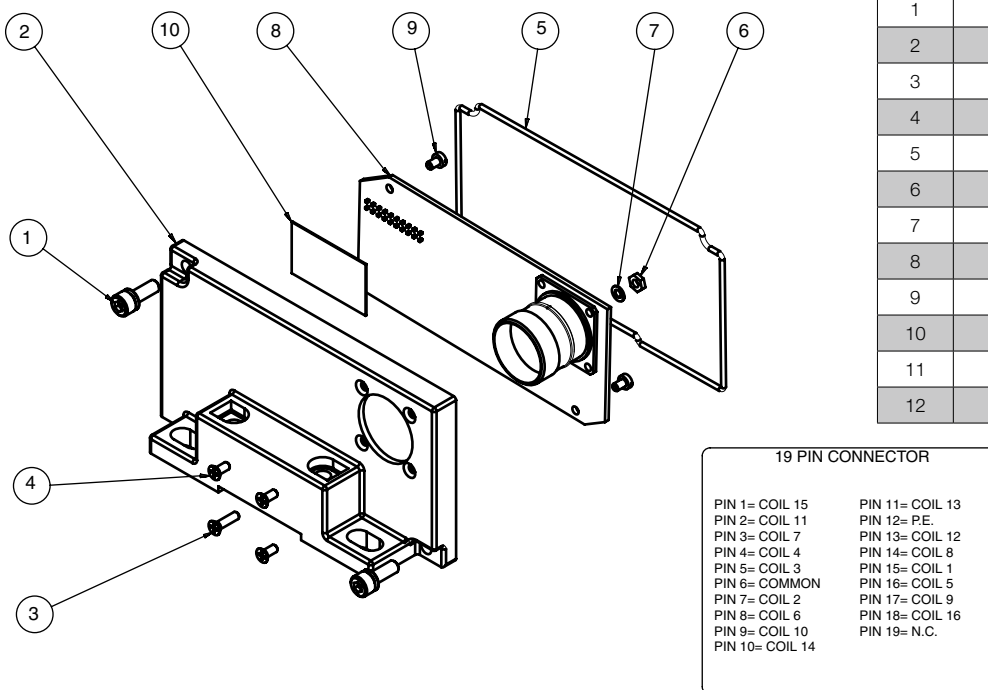
NOTE: External fusing or output protection recommended.

Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	1	Cover	105-451
2	1	Screw	127-982
3	1	Shield	140-759
4	2	Screw	127-875
5	1	Gasket	113-531
6	1	P.C. Brd. Assy	256-856
7	3	Screw	127-811
8	1	Gasket	113-354
9	2	Screw Assy	127-396
10	1	Nut	128-288
11	1	Lockwasher	128-352

19 Pin Round Connector Kit

239-2307



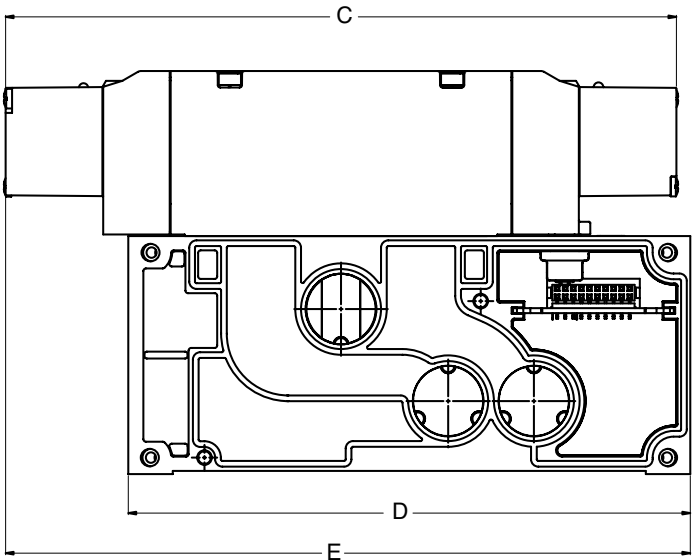
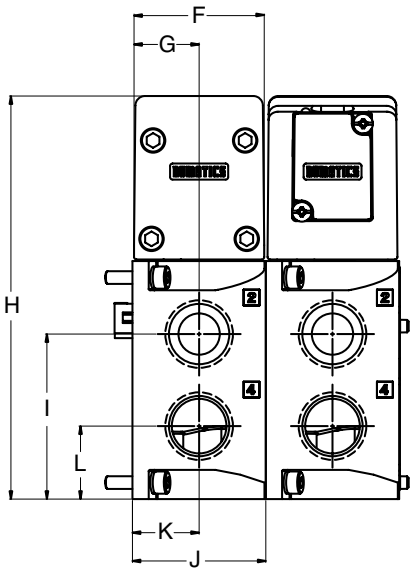
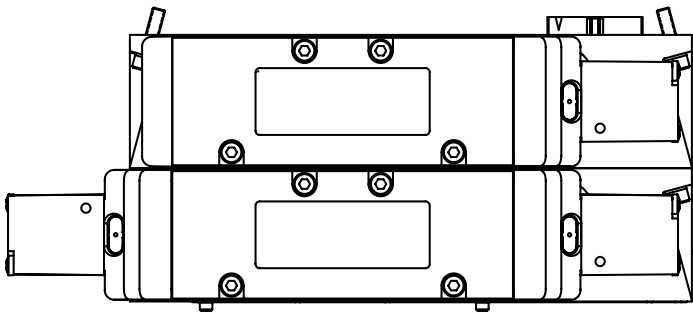
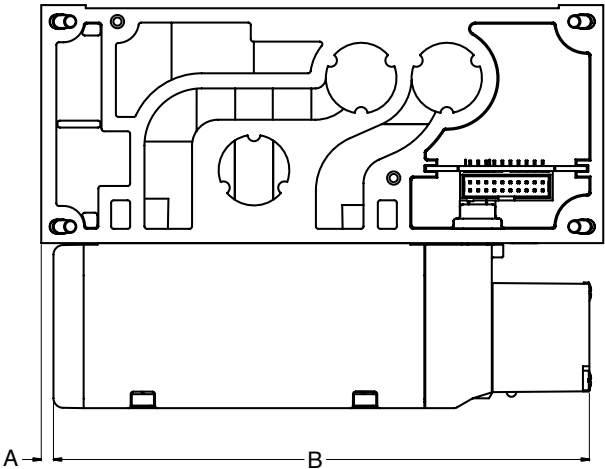
NOTE: External fusing or output protection recommended.

Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	2	Screw	127-396
2	1	Endplate	105-451
3	1	Nameplate	122-1058
4	1	Screw	127-982
5	3	Screw	127-811
6	1	Gasket	113-531
7	1	Nut	128-288
8	1	Lockwasher	128-352
9	1	PG Board Assy	256-905
10	2	Screw	128-875
11	1	Shield	140-759
12	1	Label	122-770

Valve on Manifold Block

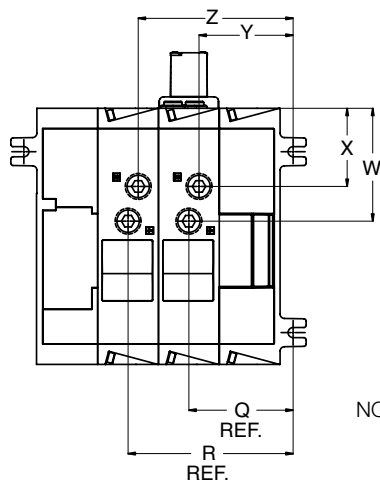
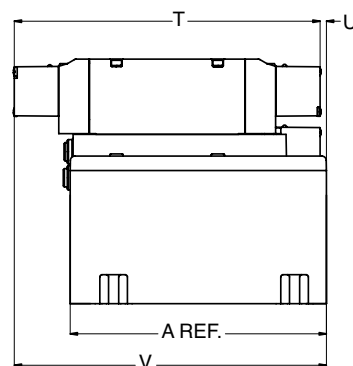
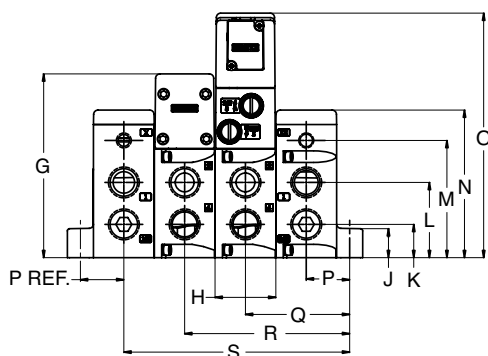
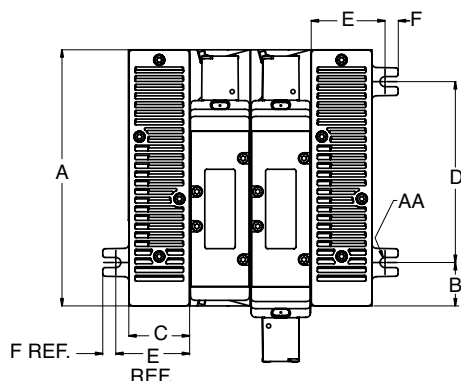
Dimensions: Inches (mm)



A	B	C	D	E	F	G	H	I	J	K	L
0.15 (3.9)	6.65 (168.8)	8.32 (211.3)	6.97 (177.0)	8.49 (215.6)	1.61 (41.0)	0.81 (20.5)	5.00 (127.0)	2.05 (52.0)	1.65 (42.0)	0.83 (21.0)	0.91 (23.0)

Manifold Assembly

Dimensions: Inches (mm)



NOTE:

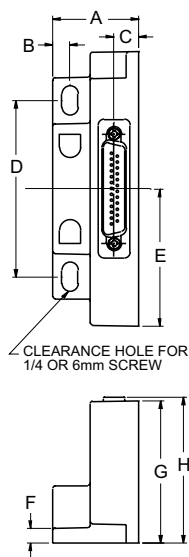
- For Electrical Interface option dimensions see pg. 26.
- For Fieldbus Electronics dimensions see Electronics Section.

A	B	C	D	E	F	G	H	J	K	L	M	N
6.97 (177.0)	1.18 (30.0)	1.65 (42.0)	4.92 (125.0)	2.01 (51.0)	0.35 (9.0)	5.00 (127.0)	1.65 (42.0)	0.79 (20.0)	0.91 (23.0)	2.05 (52.0)	3.19 (81.0)	4.02 (102.0)

O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
6.65 (169.0)	1.18 (30.0)	2.83 (72.0)	4.49 (114.0)	6.14 (156.0)	8.32 (211.3)	0.17 (4.4)	8.49 (215.6)	3.07 (78.0)	2.13 (54.0)	2.56 (65.0)	2.83 (72.0)	0.14 (3.5)

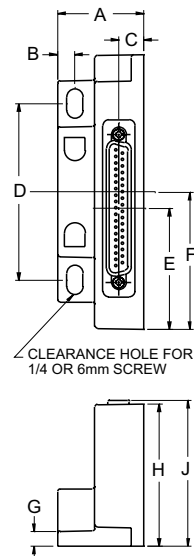
Electrical Interface

25 Pin Sub-D



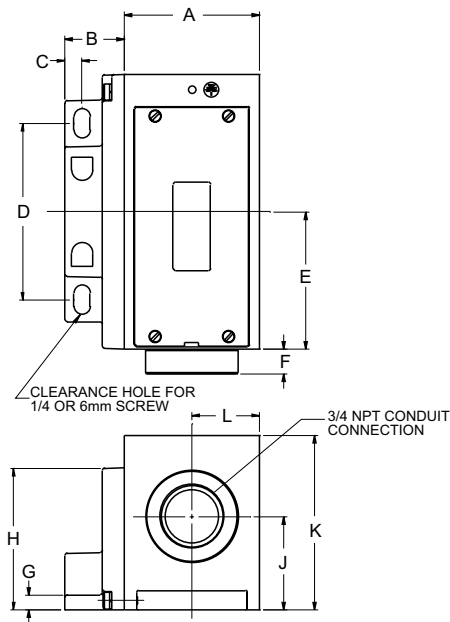
Dimensions: Inches (mm)							
A	B	C	D	E	F	G	H
1.45 (36.8)	0.29 (7.4)	0.42 (10.7)	2.98 (75.7)	2.32 (58.9)	0.25 (6.3)	2.40 (61.0)	2.47 (62.7)

37 Pin Sub-D



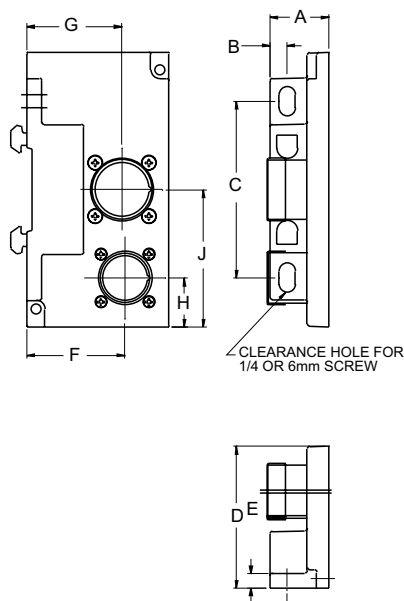
Dimensions: Inches (mm)							
A	B	C	D	E	F	G	H
1.45 (36.8)	0.29 (7.4)	0.42 (10.7)	2.98 (75.7)	2.04 (51.8)	2.32 (58.9)	2.40 (61.0)	2.47 (62.7)

Terminal Strip 1-16 & 1-32



Dimensions: Inches (mm)										
A	B	C	D	E	F	G	H	J	K	L
2.28 (57.9)	1.00 (25.4)	0.29 (7.4)	2.98 (75.7)	2.32 (58.9)	0.43 (10.9)	0.25 (6.3)	2.40 (61.0)	1.58 (40.1)	2.95 (74.9)	1.14 (29.0)

12 Pin, 26 Pin & 26 + 12 Pin Round Connector



Dimensions: Inches (mm)								
A	B	C	D	E	F	G	H	J
1.00 (25.4)	0.29 (7.4)	2.98 (75.7)	2.40 (61.0)	0.25 (6.3)	1.66 (42.2)	1.61 (40.9)	0.82 (20.8)	2.32 (58.9)



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