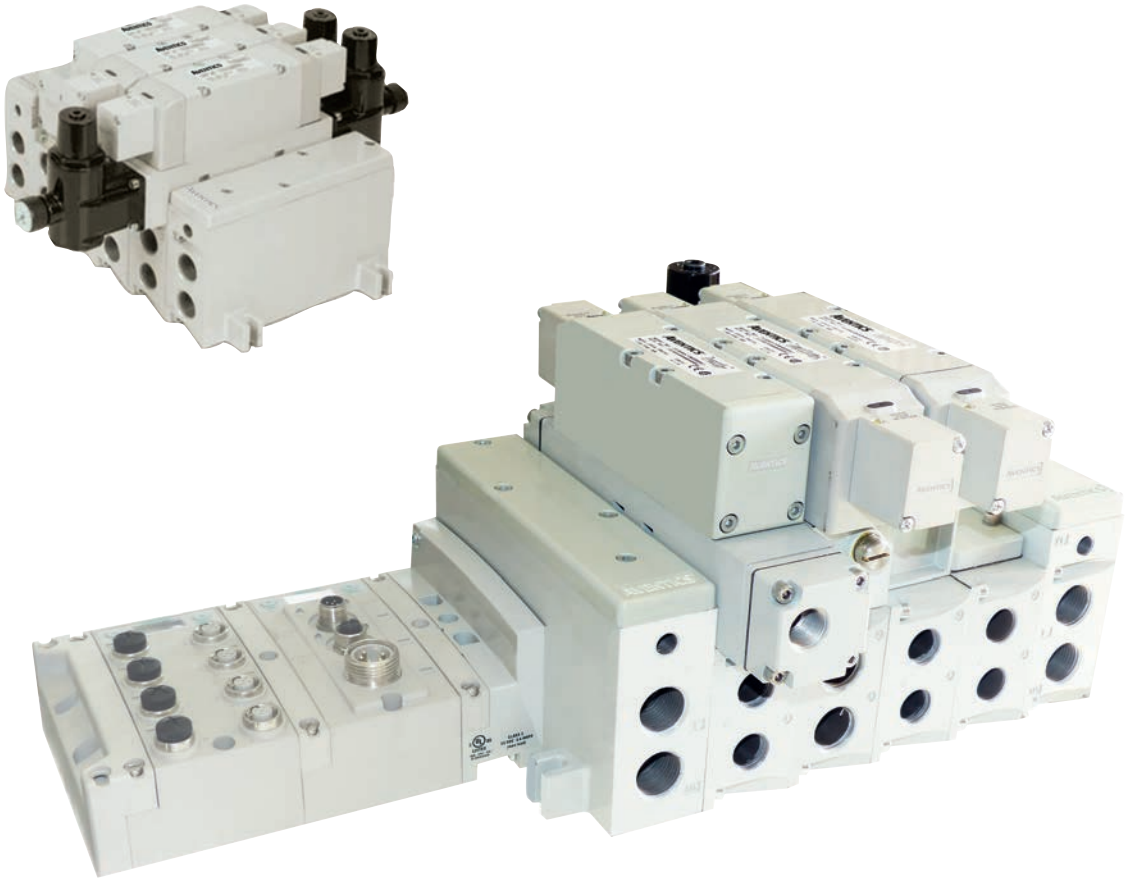
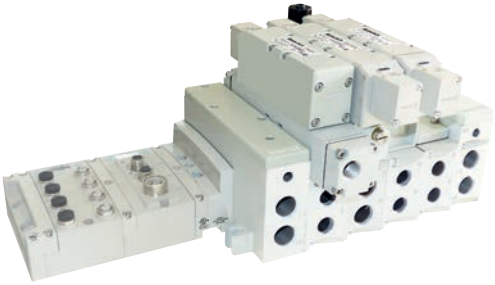
Solenoid Pilot Actuated Valves

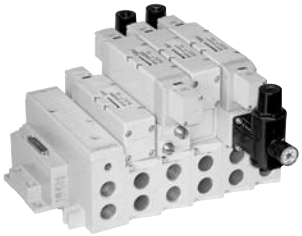
Series 2035



General Information

Series 2035 Valve belong to the Valve Generation 2000.
With up to **224 outputs** and **96 inputs, depending on the protocols used,** they fulfill all requirements of automation.
Characteristics:
- **Modular reality, true plug & play flexibility in design. 35 mm wide valves.**
- **Strong and light** due to **valve housing made of aluminium.**
- Equipped with the famous **lapped spool and sleeve assembly:**
- Insensitive, self-cleaning spool made of stainless steel with **"air bearing effect"** by air entrained between spool and sleeve (1 µm air clearance), typical service life of **more than 200 million cycles.**
- Can operate with **different pressures at the same time** within one valve, **independent** of flow direction.
- Available as **5-port., 2- and 3-pos. valve.**
- **Exchange** of valves **without dismounting** valve manifold.
- **Worldwide support** by Numatics subsidiaries and distributors in **almost all countries of the world.**





Series 2035

5ported, 2 and 3 position valves
single or double solenoid pilot actuated
Flow capacity: 3500 l/min ANR

- Individual base mount or manifold mount
- Low wattage solenoids polarity insensitive with surge suppression
- Plug-in manifolds with internal wiring by "Z-Board" plug-in system
- Integral recessed gaskets between base and valve as well as between the manifolds
- Interchangeable cartridge fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot air supply
- Modular plug-together fieldbus electronics
- Designed to meet IP65/NEMA4

Table of Contents

Series 2035

Technical Data • Operating Data

Manifolds of series 2035 valves are equipped with integral electrical plug-in
allowing an easy exchange of single components without dismounting the manifold.
"Z-Board"™ eliminates internal wiring.
Manifolds are available either with threaded ports or with push-in fittings.
Bottom supply ports are only available threaded. Common air exhaust.
End plates are available with integral mufflers.
Easy conversion from internal to external pilot air supply.

CE

Technical Data

5-port., 2- and 3-pos. valves	2035
Flow capacity [at 6 bar, Δp 1 bar]	3500 l/min ANR
Operating pressure range:	Vacuum to 10 bar
Pilot pressure range:	1.8 to 8.2 bar
Ambient temperaturre range	-23°C to +46°C

Material	
Body:	Aluminium
Other parts:	Stainless steel, steel, aluminium alloy or plastic
Static seals:	NBR
Finish:	Anodised or varnished

Operating Data

5 port., 2- and 3-pos. valves	2035			
100% ED:	24 VDC		110 VAC-50 Hz/120 VAC-60Hz	
Power (Watt):	2.5		4.2	
Response time [ms]	energise	de-energise	energise	de-energise
5-port., 2-pos., single actuated, spring return:	21	67	15	70
5-port., 2-pos., double actuated, detented:	17	N/A	15	N/A
5-port., 3-pos., double actuated, spring centered:	21	72	15	80

Sandwich Pressure Regulators • General Information

For Series 2035 **single** as well as **double sandwich pressure regulators** are available.
With **single sandwich pressure regulators**, pressure supply is regulated via port 1. This is carried out independently of other valves on the manifold.
With **double sandwich pressure regulators**, pressure supply is regulated via ports 2 and 4, i. e. each cylinder port can be regulated individually.
The selected pressure can be read via a gauge, either mounted inline or on a 90° swivel elbow.

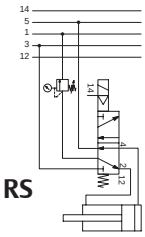
Sandwich Pressure Regulators

Series 2035: Type **RS / RD / RC / RQ / RE / RT**
When ordering a valve with regulator mounted on a manifold, list the valve unit model number only and include the mounting requirements with the regulator.
Specify "Assembled"

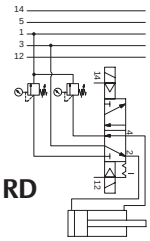
EXAMPLE ORDERS: Type RS

Valve unit only:	353BA400K000030
Regulator and mounting:	353RS1Z1JN00000 ASSEMBLED

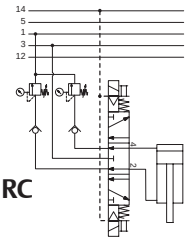
Symbols



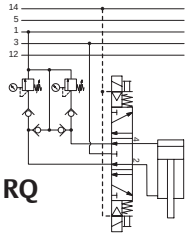
Single pressure from a single supply



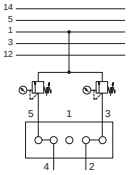
Dual pressure from a single supply



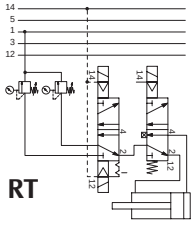
Non-relieving: taps downstream pressure if upstream is exhausted



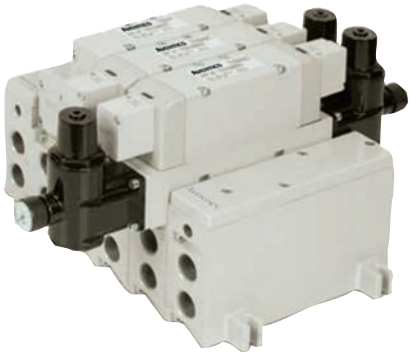
Relieving: exhausts pressure in cylinder if upstream pressure is exhausted



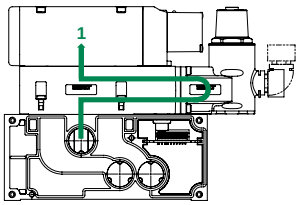
External regulator - separate pressures to ports 2 and 4.



Two-pressure selector used for multi-pressure applications

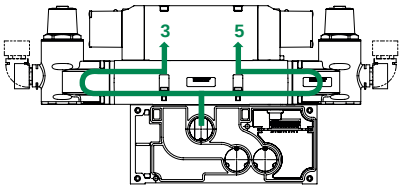


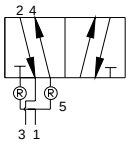
Type **RS**
Single pressure from a single supply.



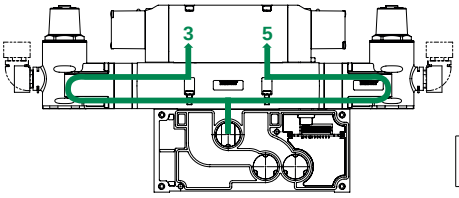
Type **RC**
Type RC is non-relieving:
Traps downstream pressure
if upstream pressure is exhausted.

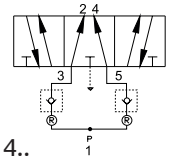
Type **RD**
Dual pressure from a single supply.



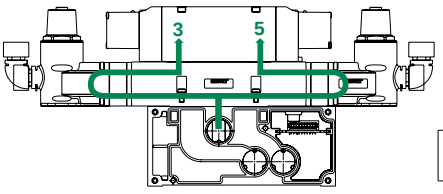


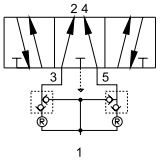
Type **RQ**
Type RQ is relieving:
Exhausts pressure in cylinder
if upstream pressure is exhausted.



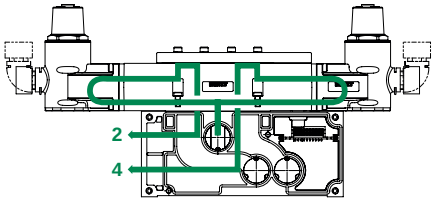


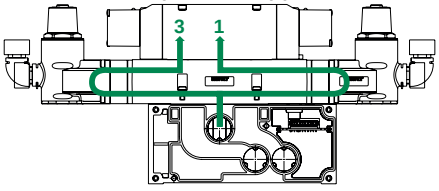
Type **RE**
External regulator -
separate pressures to ports 2 and 4..

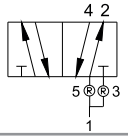




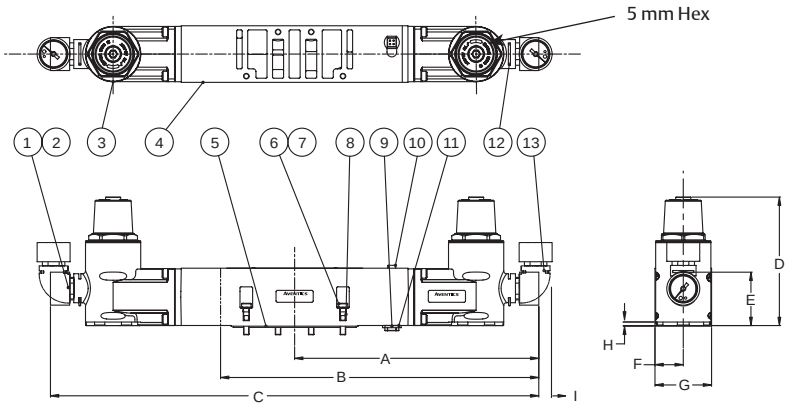
Type **RT**
Two-pressure selector used for
multi-pressure applications.







Dimensions: mm - Sandwitch Pressure Regulators

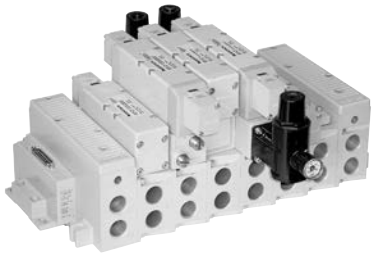


Type	A	B	C	D	E	F	G	H	I	Weight (kg)
Single regulator	177.1	230.7	—	93.1	38.6	20.5	41.0	0.46	—	0.720
Double regulator	177.1	—	354.1	93.1	38.6	20.5	41.0	0.46	373.1	0.995

General Information on Multipole Systems

Features

- *Solenoid air operated valve manifolds for connection to a control system (PLC) with a multiwire cable for simple wiring.*
- *Electrical connection with a 25 or 37 pin Sub-D connector or a 12, 19 or 26 pin round connector. Harting on request.*
- *Internal wiring by "Z-Board" plug-in system.*
- *Plug-together flexibility due to different assembly and wiring options.*
- *Designed to meet IP65 / NEMA 4 with round connector or terminal strip. These protection classes allow direct incorporation of the series 2000 manifold into a machine, close to the actuators and enable an increased number of production cycles.*
- *Manifold delivered assembled according to customer specifications.*



Combinations

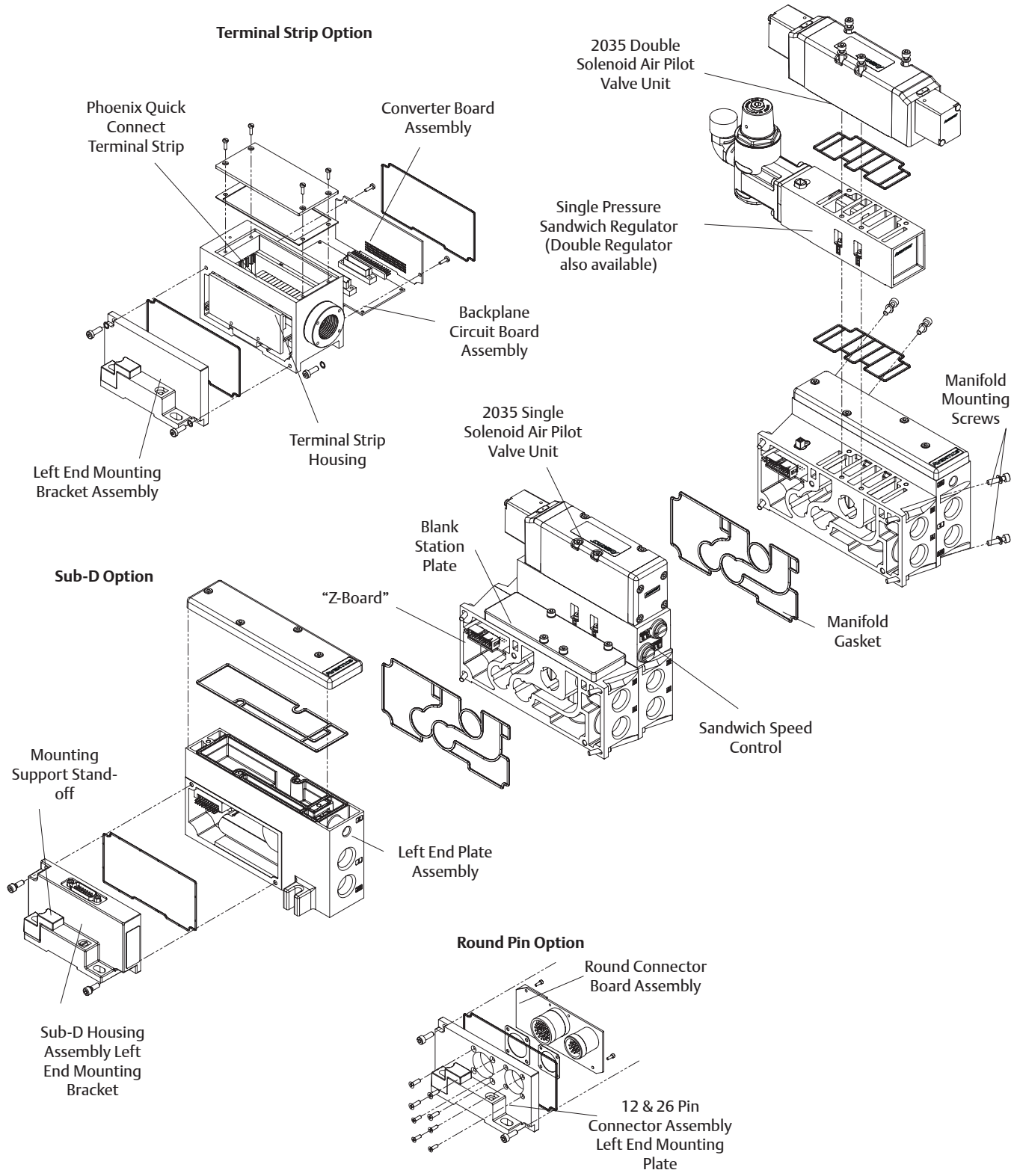
- Modules of up to 32 valves can be grouped together.
  The maximum number of valves depends on the type of electrical connection chosen:
  - 25 pin Sub-D connector : max. 22 solenoids
  - 37 pin Sub-D connector : max. 32 solenoids
  - Terminal strip: max. 32 solenoids
  - 12 pin round connector: max. 8 solenoids
  - 19 pin round connector: max. 15 solenoids
  - 26 pin round connector: max. 22 solenoids
- Optional mixing of:
  - All functions of dual 2-position, 5-ported, 2-position single or double actuated and 5-ported, 3-position valves.
  - Pressure separation plate and intermediate pressure supply module.
- The valve manifolds are intended for frame.

Technical Data

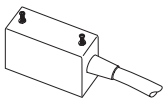
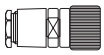
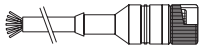
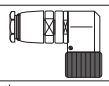
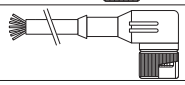
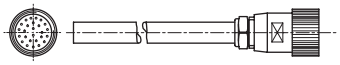
Electrical data	
Node power:	Voltage: 24 V DC ±10%
Operating data	
Temperature range:	-23°C to +46°C
Humidity:	air or inert gas ISO 8573 Level 7.4.4
Protection:	IP 65 or NEMA 4
Configuration data	
Solenoid coil outputs:	Max. 32

Manifold and Wiring Architecture

Terminal Strip. Sub-D, and Round Connector Options



Multipole Systems • Accessories

Accessory	Description			Catalog number
	25 pin female SUB-D connector, according to DIN 47100, straight cable outlet (IP 40) (Series 2000)	w/ cable	2m	88100453
			5 m	88100456
			10 m	88100461
	25 pin female SUB-D connector, elbow cable outlet (Series 2000)	w/ cable	2 m	88100901
			5 m	88157644
	37 pin female SUB-D connector, according to DIN 47100, straight cable outlet (IP 40) (Series 2000)	w/ cable	2 m	88100473
			5 m	88100476
			10 m	88100481
	19 pin female M23 connector, straight	w/o cable		88164102
		w/ cable	5 m	88164106
	19 pin female M23 connector, 90° elbow	w/o cable		88164105
		w/ cable	5 m	88164107
	12 pin female M23 connector (IP 65)	w/o cable		230-879-K
		w/ cable	2 m	230-960-02m
			5 m	230-960-05m
			10 m	230-960-10m
	26 pin female M27 connector (IP 65)	w/ cable	10 m	230-742E-10m

Multipole Systems • Accessories

Pin no.	37 PIN SUB-D according to DIN 47100 Catalog number: 88100473 88100476/88100481	SUB-D 25 Catalog number: 88100901 88157644	25 PIN SUB-D according to DIN 47100 Catalog number: 88100453 88100456/88100461	12 PIN ROUND M23 Catalog number: 230-960-xxm	19 PIN ROUND M23 Catalog number: 88164106 88164107	26 PIN ROUND M27 Catalog number: 230-742E-10m
1	white	white-green	white	white	purple	white
2	brown	white-yellow	brown	brown	red	brown
3	green	white-grey	green	green	grey	green
4	yellow	green	yellow	yellowt	red-blue	yellow
5	grey	yellow	grey	grey	green	grey
6	pink	yellow-black	pink	pink	blue	pink
7	blue	grey	blue	blue	grey-pink	blue
8	red	yellow-red	red	red	white-green	red
9	black	pink	black	black	white-yellow	black
10	purple	yellow-blue	purple	purple	white-grey	purple
11	grey-pink	orange	grey-pink	grey-pink	black	pink-brown
12	red-blue	khaki	red-blue	green-yellow	yellow-green	white-pink
13	white-green	blue	white-green		yellow-brown	white-green
14	brown-green	white-brown	brown-green		brown-green	brown-green
15	white-yellow	white-black	white-yellow		white	white-yellow
16	yellow-brown	purple	yellow-brown		yellow	yellow-brown
17	white-grey	white-pink	white-grey		pink	white-grey
18	grey-brown	white-red	grey-brown		grey-brown	grey-brown
19	white-pink	white-purple	white-pink		brown	red-blue
20	pink-brown	white-blue	pink-brown			grey-pink
21	white-blue	blue	white-blue			white-blue
22	brown-blue	white	brown-blue			brown-blue
23	white-red	red	white-red			white-red
24	brown-red	brown	brown-red			brown-red
25	white-black	black	white-black			white-black
26	brown-black					yellow-green
27	grey-green					
28	yellow-grey					
29	pink-green					
30	yellow-pink					
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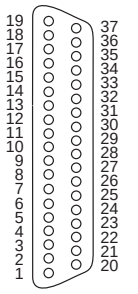
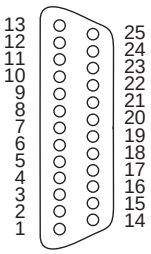
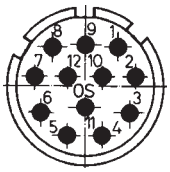
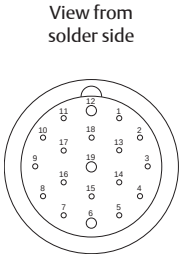
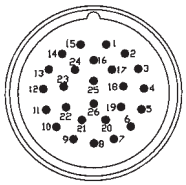
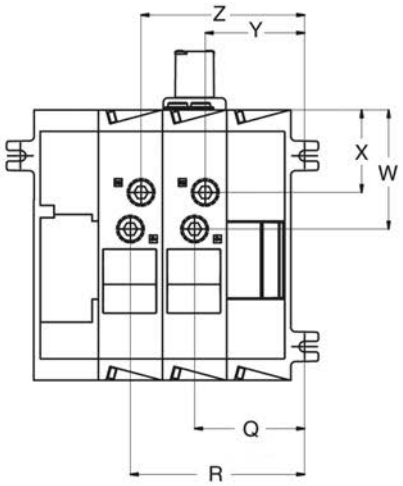
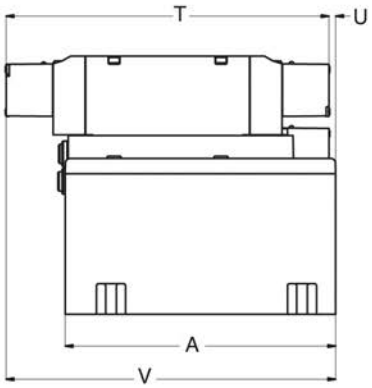
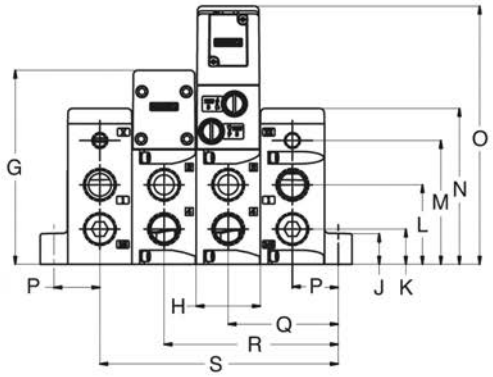
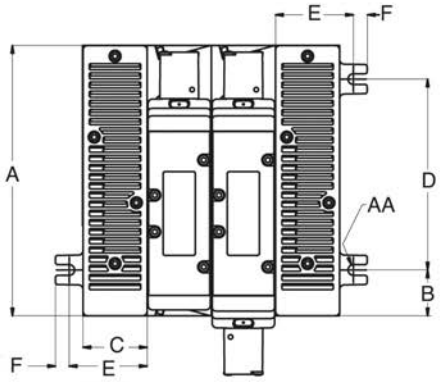
35	green-black					
36	yellow-black					
37	grey-blue					
	 Pin 37 PE Pins 35-36 COMMON Pins 1-32 Coils	 Pin 25 PE Pins 23-24 COMMON Pins 1-22 Coils		 Pin 12 PE Pin 11 COMMON Pins 1-10 Coils	 View from solder side Pin 12 PE Pin 6 COMMON	 Pin 26 PE Pins 24-25 COMMON Pins 1-22 Coils

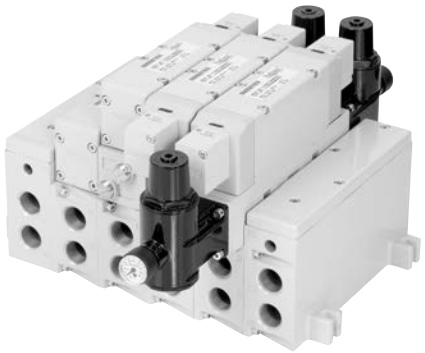
Dimensions: mm - Manifold Assembly











Note:
For Fieldbus Electronics dimensions. see page: **108**

A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R
177.0	30.0	42.0	125.0	51.0	9.0	127.0	42.0	20.0	23.0	52.0	81.0	102.0	169.0	30.0	72.0	114.0

S	T	U	V	W	X	Y	Z	AA	Weight (0 stations) (kg)	+ .... kg per station
156.0	211.3	4.4	215.6	78.0	54.0	65.0	72.0	3.5	2.050	0.640

Manifold Assembly

Configurator - CAD Files

AK J B D 0000 4 G STD

Electronic System

F =	Terminal strip 1 - 16
T =	Terminal strip 1 - 32
J =	25 pin SUB-D
M =	37 pin SUB-D
P =	12 pin round M23 connector
Q =	19 pin round M23 connector
S =	26 pin round M27 connector & 12 pin round M23 connector

Series

B =	Series 2035

Number of Valve Stations *

A =	1	**I =**	9	**Q =**	**17**	**Y =**	25
B =	2	**J =**	10	**R =**	**18**	**Z =**	26
C =	3	**K =**	11	**S =**	**19**	**2 =**	27
D =	4	**L =**	12	**T =**	**20**	**3 =**	28
E =	5	**M =**	13	**U =**	**21**	**4 =**	29
F =	6	**N =**	14	**V =**	**22**	**5 =**	30
G =	7	**O =**	15	**W =**	**23**	**6 =**	31
H =	8	**P =**	16	**X =**	**24**	**7 =**	32

Options

STD =	Standard
MUF =	Muffler in end plates
A06 =	End plate with ports on left end only, mounting plate only on right end
D11 =	A06 + MUF
D12 =	MUF + 14X
14X =	External pilot supply

Port Type

N =	NPTF (contact us)
G =	G thread

End Plate Port Size 2035 Series

4 =	Port type N or G Port 1 = 1/2 Port 3 / 5 = 1/2
X =	Multiple valve groups resulting in different standard end plate port size (2035 = 1/2)

Maximum Solenoid Outputs

AK „F“	AK „T“	AK „J“	AK „M“	AK „P“	AK „S“
16	32	22	32	8	32

* 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.
  Example: 6 single and 5 double solenoid actuated valves have in total 16 solenoid outputs.
  This is the maximum amount permitted for the terminal strip version. (“AKF”).
- Combination of all stations cannot exceed 32.

How to Order

Valves

35 3 BB 4 Z6 M G 000 61

Series

35 =	Series 2035

Voltage

00 =	Blank station plate
60 =	12 V DC
61 =	24 V DC

Options

000 =	Without option
11B =	Locking override
11M =	Without manual override

Further options on request

Port Size of Base

		2035
3 =	G 3/8 or NPTF or valve w/o manifold	X
4 =	G 1/2 or NPTF or valve w/o manifold	X

Port Type of Bases

O =	Without base
G =	G thread
N =	NPTF thread

Wiring Options

K =	Plug-in. AC with LED
M =	Plug-in. DC with LED
O =	Blank station plate

Actuator

BA =	Single actuated and spring return flush non-locking manual override
BB =	Double actuated, flush non-locking manual override
00 =	Manifold w/o valve (blank station)

Mounting

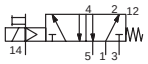
00 =	Valve unit only
01 =	With sandwich speed control
Z1 =	Manifold block with side and bottom ports, single solenoid, "Z-Board"™
Z2 =	Manifold block with side and bottom ports. double solenoid. "Z-Board"™
Z5 =	Z1 with speed control
Z6 =	Z2 with speed control
R1 =	Z1 with ribbon cable connector
R2 =	Z2 with ribbon cable connector
R5 =	Z5 with ribbon cable connector
R6 =	Z6 with ribbon cable connector
N2 =	M12 separation 24 V DC

Function

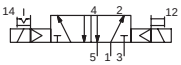
		2035
4 =	5-port.. 2-pos. valve	X
5 =	5-port.. 3-pos. valve. open center. dual pressure	X
6 =	5-port.. 3-pos. valve. closed center	X
P =	Indicates blank station plate	X

Ribbon cable option must be used for manifold assemblies that exceed 16 solenoids.
(7th and 8th digit of valve order code)

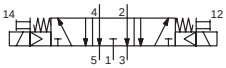
Symbols



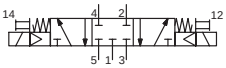
I5/I6... 05/12/35... **BA4** 5-ported, 2-pos. valve, spring return



I5/I6... 05/12/35... **BB4** 5-ported, 2-pos. valve, detented



I5/I6... 05/12/35... **BB5*** 5-port., 3-pos. valve, open center, dual pressure



R5/R6... 05/12/35... **BB6** 5-port., 3-pos. valve, closed center

Regulator

35 4 RS 1 Z1 J G000 00

Series	
35 =	Series 2035

Special Options	
000 =	Standard
12H =	Without gauge
16N =	Jumper on 14 end
16P =	Jumper on 12 end

Further options on request

Port Size of Base		2035
3 =	G 3/8 or NPTF or valve w/o manifold	X
4 =	G 1/2 or NPTF or valve w/o manifold	X

Port Type of Bases	
O =	Without base
Q =	G thread
K =	Plug-in fittings
P =	NPTF thread

Regulator Type	
RS =	Single pressure to port 1
RD =	Dual pressure to ports 3 and 5
RC =	Dual pressure with non-relieving checks
RQ =	Dual pressure with relieving checks
RE =	Dual pressure to ports 4 and 2
RT =	Two-pressure selector

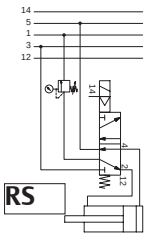
Wiring Option	
J =	Plug-in receptacle

Mounting		2035
00 =	Regulator unit only	X
01 =	With sandwich speed control	X
Z1 =	Manifold block with side and bottom ports. single solenoid. "Z-Board"™	X
Z2 =	Manifold block with side and bottom ports. double solenoid. "Z-Board"™	X
Z5 =	Z1 with speed control	X
Z6 =	Z2 with speed control	X
R1 =	Z1 with ribbon cable connector	X
R2 =	Z2 with ribbon cable connector	X
R5 =	Z5 with ribbon cable connector	X
R6 =	Z6 with ribbon cable connector	X

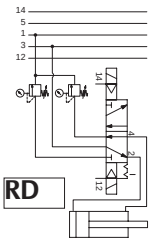
Pressure Range	
1 =	0.7 to 9 bar
3 =	0.2 to 2 bar
4 =	0.5 to 4 bar

Ribbon cable option must be used for manifold assemblies that exceed 16 solenoids. (7th and 8th digit of valve order code)

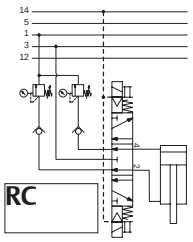
Symbols



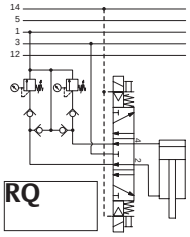
Single pressure from a single supply



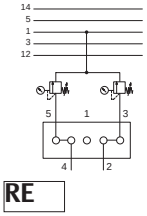
Dual pressure from a single supply



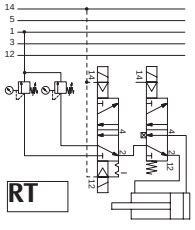
Non-relieving: taps downstream pressure if upstream is exhausted



Relieving: exhausts pressure in cylinder if upstream pressure is exhausted



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



Two-pressure selector used for multi-pressure applications

Multipole Connections • Example Order

Valve Regulator / Speed Control Plug-in Assembly

Type: **RS / RD / RE / RT**

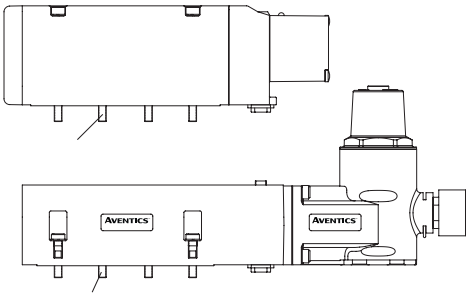
When ordering a valve with regulator mounted on a manifold and sandwich speed control, list the valve unit model number only and include the mounting requirements with the regulator and the speed control.

Specify “Assembled“

EXAMPLE ORDERS:

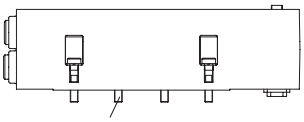
Valve unit only:	353BA400M000061
Regulator with speed control and mounting:	354RS4Z5JN00000 ASSEMBLED

353BA400M000061 — Valve unit only (without manifold block)

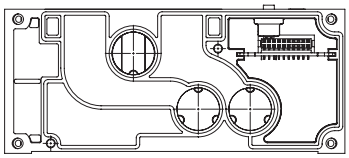


354RS4Z5JN00000 — Standard sandwich pressure regulator

Sandwich speed control



ASSEMBLED — Plug-in manifold assembly



Note: Sandwich speed controls can only be used with single sandwich pressure regulators.

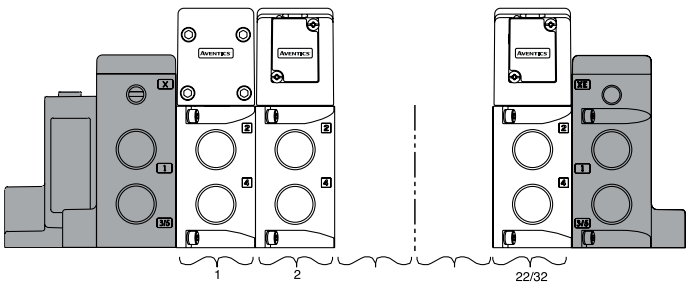
Manifold assembly • Multipole connection

Shaded components are included in assembly kit (AK).

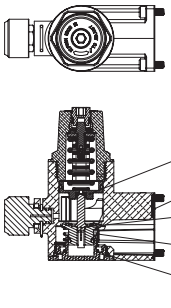
Each valve station is listed in sequential order from left to right when facing the port side of the manifold as indicated. For valves and sandwich pressure regulators, see model number selection on pages X021-09-13 and 14).

Example order: (25 Pin Sub-D)

1. Assembly kit		**AKJBD00004NSTD**
2. Valve	Station 1 =	**353BA4Z1MN00061**
	Station 2 =	**353BA4Z1MN00061**
	Station 3 =	**353BB4Z2MN00061**
	Station 4 =	**353BB5Z2MN00061**
		ASSEMBLED



Regulator kits & Service Parts

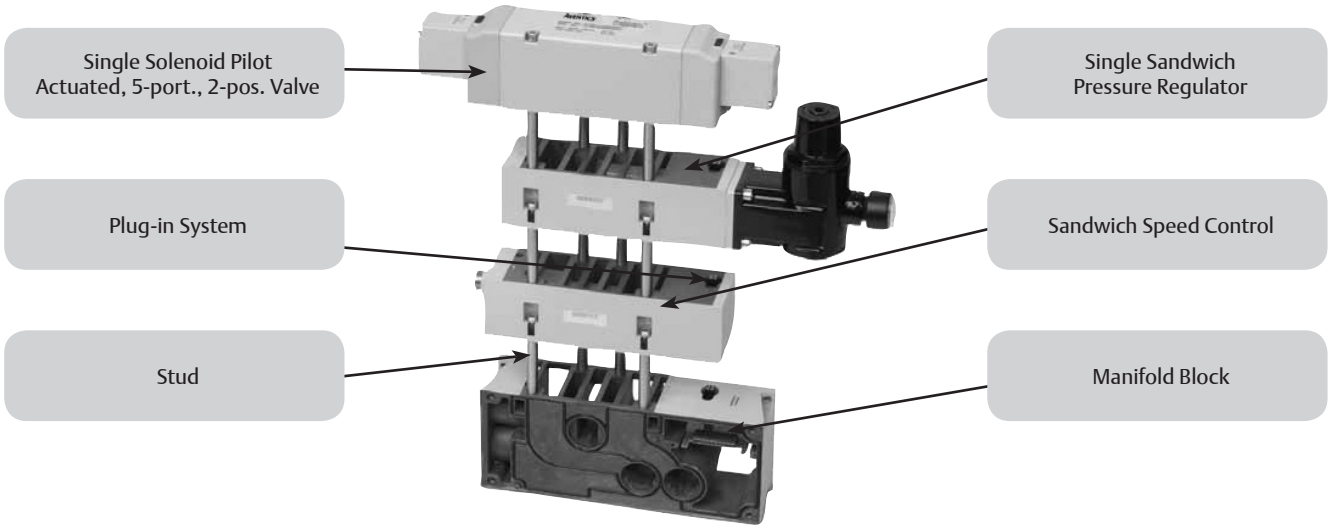
Accessory	Description		Catalog number
	Regulator repair kit	0.2 to 2 bar	239-2220
		0.3 to 4 bar	239-2221
		0.7 to 9 bar	239-2222
	Gauge to max. 11 bar		214-215
	Gauge to max. 4 bar		214-220
	Adapter, port G1/8		239-2048
	Retaining clip		131-236

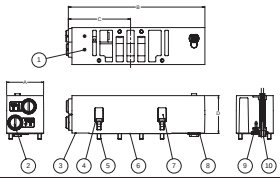
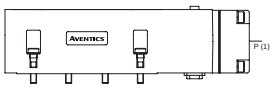
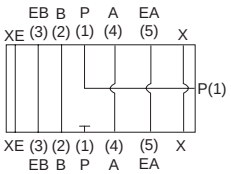
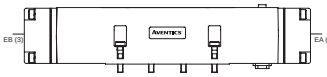
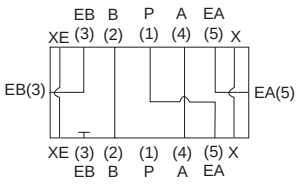
Spare Parts • Sandwich Components

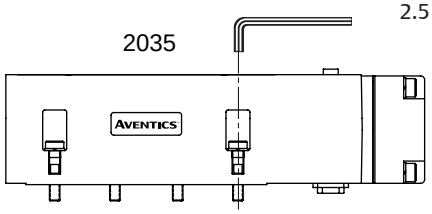
Sandwich Speed Control

Sandwich speed control for valves and regulators is equipped with an integral plug-in system. Sandwich speed control provide a variable restriction in ports 3 and 5 in order to control the cylinders' extend and retract speed. To facilitate easy adjustment both screws are on the same side of the speed control.

Note: Sandwich speed control can only be used with single sandwich pressure regulators.

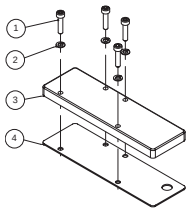
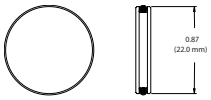
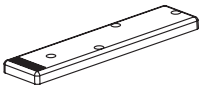
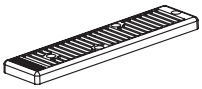
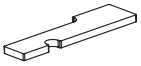
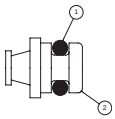


Accessory	Description		Catalog number
	Sandwich speed control		239-2223
	Sandwich pressure block - Used to supply a separate pressure to a single valve station without needing blocking disks.		239-2228
	Sandwich exhaust block - Used to isolate the exhaust of a single valve station from the manifold. - Allows faster exhaust response by re-routing. - Exhaust externally to the manifold.		239-2230



Assembly/disassembly of bar:
2.5 mm external hex key

Spare Parts

Kit	Description		Part No.
	Blank station plate (screw, washer, blank station plate, gasket)		**239-2218**
	Blocking disk	for port 1, 3/5	**239-2219**
	Cover for end plate	screw	**127-396**
		cover	**105-456**
	Cover for end plate with muffler	screw	**127-396**
		cover	**105-457**
	Gasket for end plate cover		**113-621**
	Muffler for end plate cover		**125-1098**
	Plug for conversion of pilot supply		**213-590**

Spare Parts • End Plate Kits

End plate kit

End plate kits	Weight	Port		Part No.		
				1	3/5	X/XE
	(kg)	Size	1/2	1/2	1/8	
End plates with muffler	2.050			239-2207		
End plates without muffler	2.050			239-2208		
LH ports with muffler, RH mounting cover with pilot exhaust	2.050			239-2215		
LH ports without muffler, RH mounting cover with pilot exhaust	2.050			239-2216		
On request: with NPTF thread						

Spare Parts • Valves

Valve Model Number

35 3 BB 4 00 M 0 000 61

Series
35 = Series 2035

Port Size of Base
3 = Valve w/o manifold

Actuator
BA = Single actuated and spring return flush non-locking manual override
BB = Double actuated, flush non-locking manual override

Function
4 = 5-port., 2-pos. valve
5 = 5-port., 3-pos. valve, open center, dual pressure
6 = 5-port., 3-pos. valve, closed center

Voltage
60 = 12 VDC
61 = 24 VDC

Options
000 = Without option
11B = Flush Locking Override
11M = Without manual override
Further options on request

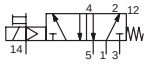
Port Type of Bases
0 = Valve unit only

Wiring Options
M = Plug-in, DC with LED

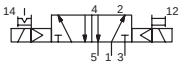
Mounting
00 = Valve unit only

Ribbon cable option must be used for manifold assemblies that exceed 16 solenoids.
(7th and 8th digit of valve order code)

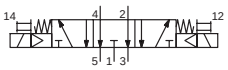
Symbols



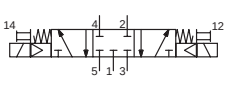
I5/I6...
05/12/35... **BA4**
5-ported, 2-pos. valve, spring return



I5/I6...
05/12/35... **BB4**
5-ported, 2-pos. valve, detented



I5/I6...
05/12/35... **BB5***
5-port., 3-pos. valve, open center, dual pressure



R5/R6...
05/12/35... **BB6**
5-port., 3-pos. valve, closed center

Spare Parts • Sandwich Pressure Regulators

35 3 RS 1 00 J 0 000 00

Series
35 = Series 2035

Port Size of Base
3 = Valve w/o manifold

Regulator Type
RS = Single pressure to port 1
RD = Dual pressure to ports 3 and 5
RC = Dual pressure with non-relieving checks
RQ = Dual pressure with relieving checks
RE = Dual pressure to ports 4 and 2
RT = Two-pressure selector

Pressure Range
1 = 0.7 to 9 bar
3 = 0.2 to 2 bar
4 = 0.5 to 4 bar

Options
000 = Standard
12H = Without gauge
16N = Jumper on 14 end
16P = Jumper on 12 end
Further options on request

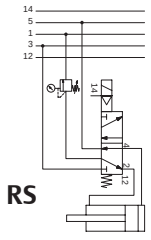
Port Type of Bases
0 = Without base

Wiring Option
J = Plug-in receptacle

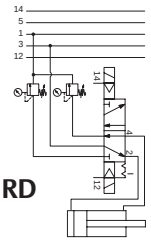
Mounting	2035
00 = Regulator unit only	X

Ribbon cable option must be used for manifold assemblies that exceed 16 solenoids.
(7th and 8th digit of valve order code)

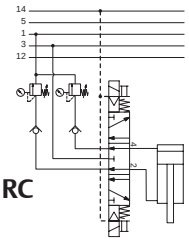
Symbols



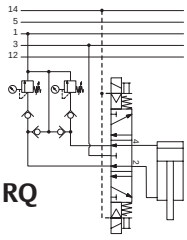
Single pressure
from a single supply



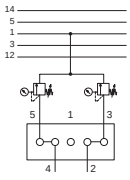
Dual pressure
from a single supply



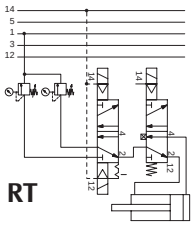
Non-relieving:
taps downstream pressure if
upstream is exhausted



Relieving:
exhausts pressure in cylinder
if upstream pressure is
exhausted



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



Two-pressure selector used for
multi-pressure applications

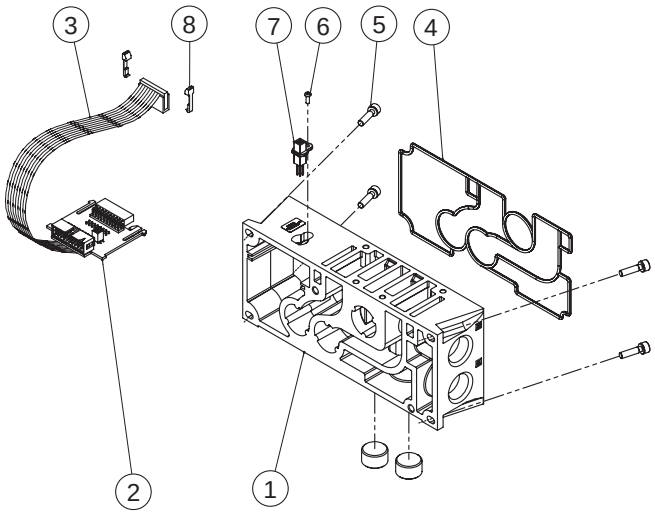
Spare Parts • Manifold Assembly Kits “Z-Boards”

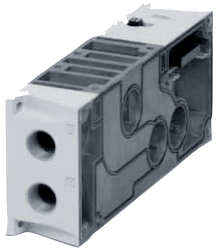
“Z-Boards”

Series 2035 includes 4 different “Z-Boards”™ for driving up to 32 solenoids of single and double solenoid actuated valves.
Ribbon cable feature must be used for manifold assemblies that exceed 16 solenoids.
In order to allow the full capacity of 32 solenoids, the assembly must be configured so that an even number of solenoids is utilised prior to the station using the ribbon cable feature.

Note: The 16th and 17th solenoid cannot be on the same valve.
(See valve model number selection for 7th and 8th digit for valve with 17th solenoid).

Manifold Assemblies

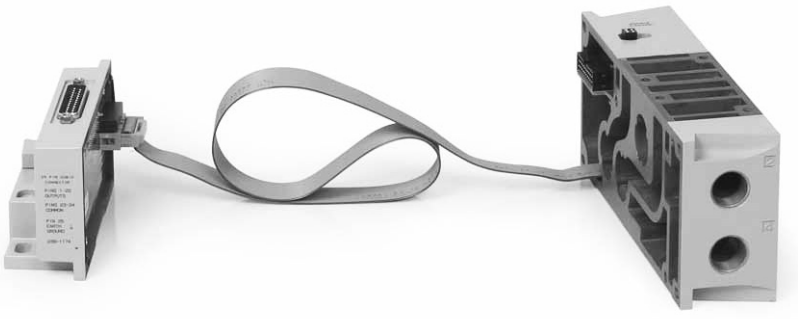




Manifold assemblies Kits with side ports with bottom ports	Part No. G 1/2“ G 3/8“	Part No. NPTF 1/2“ NPTF 3/8“	Part No. 3/8“ G 3/8“	Part No. NPTF 3/8“ NPTF 3/8“	Weight (kg)
With single “Z-Board”™	206-1610	206-1608	206-1611	206-1609	0.640
With double “Z-Board”™	206-1614	206-1612	206-1615	206-1613	0.645
With single “Z-Board”™ and ribbon cable	206-1622	206-1620	206-1623	206-1621	0.690
With double “Z-Board”™ and ribbon cable	206-1618	206-1616	206-1619	206-1617	0.695

Ribbon cable for Valve Station with 17th Solenoid

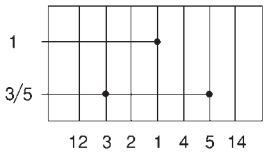
Description		Part No.
Ribbon cable	2035	239-2226

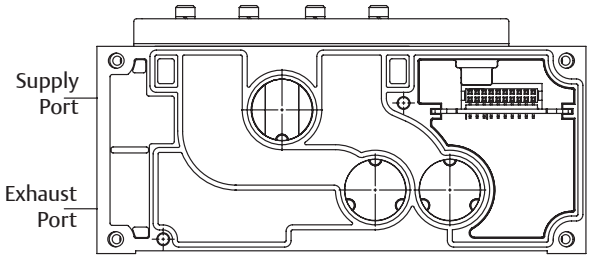


Spare Parts • Mid-Station Supply & Exhaust Block

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





Port Type	Part. No.	Weight (kg)
G 1/2	239-2225	0.77

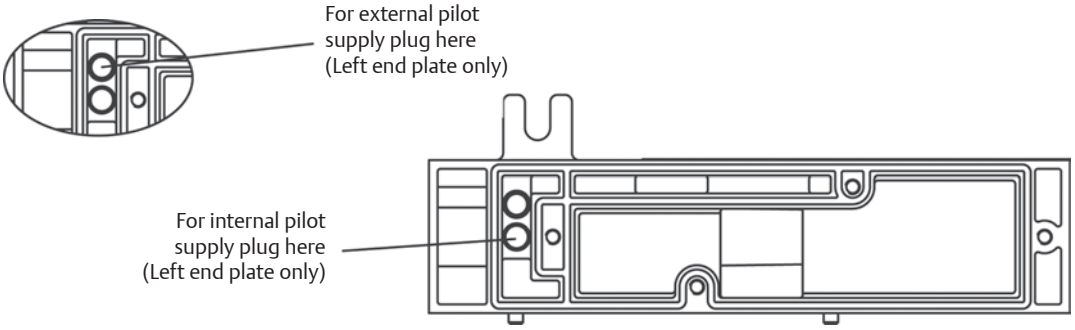
On request: Threaded ports in NPTF

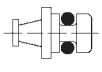
Spare Parts • Conversion of Pilot Air Supply

Conversion of Pilot Air Supply

Manifolds can easily be converted from internal to external pilot supply.

When converting from internal to external pilot supply, please ensure that the manifold is not pressurised, as pressure is applied to the end plate covers.



	Internal Pilot Plug	**213-590**