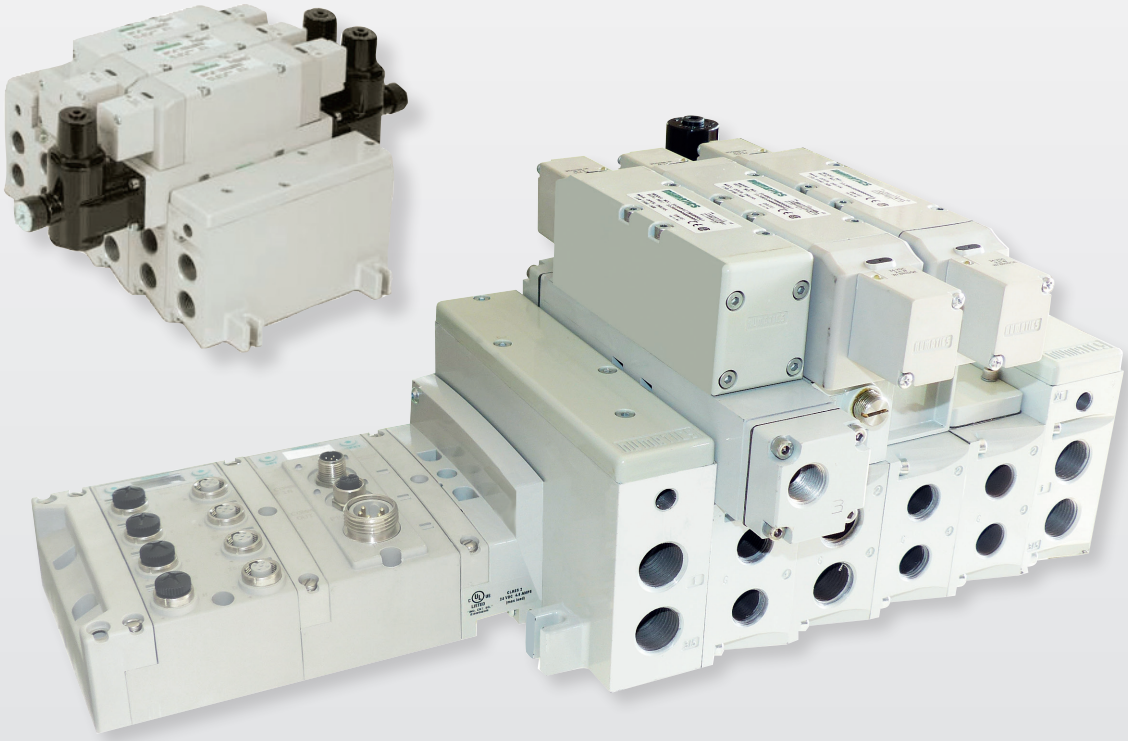
numatics™

Valve Manifolds



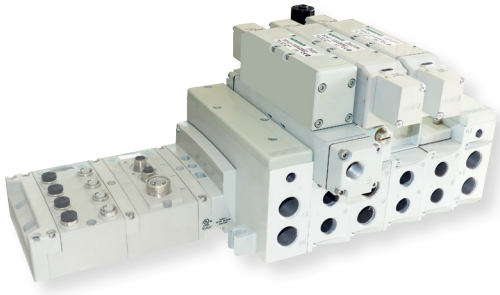
Series 2035

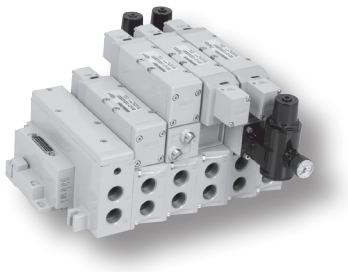
ISO 9001:2000
Certificate No. FM 38113

2035 Series

General Information

2035 Valve Series belong to the Numatics 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 **Numatics 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.**





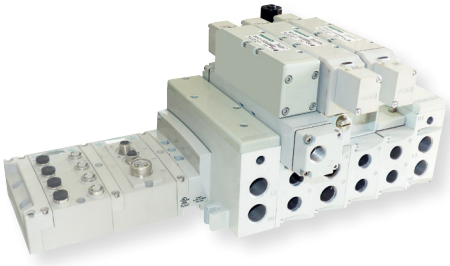
2035 Series

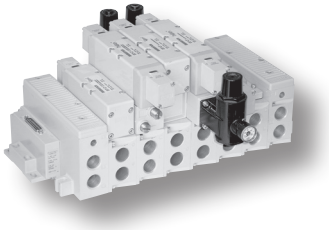
5-port., 2- and 3-pos. valves,
single or double solenoid pilot actuated
Flow capacity: 3820 l/min ANR

- 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

2035 Series

Contents





Technical Data • Operating Data

Manifolds of 2035 series 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	-20°C to +50°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		110-120 VAC 50/60 Hz	
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	-	15	-
5-port., 3-pos., double actuated, spring centered:	21	72	15	80

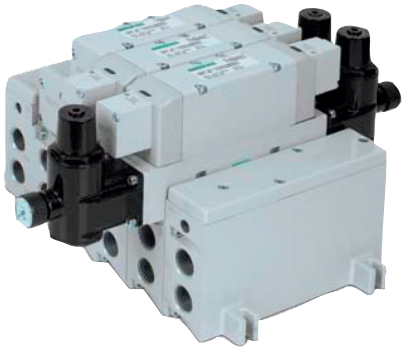
Sandwich Pressure Regulators • General Information

For 2035 Series **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.

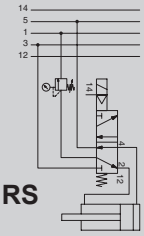
Sandwich Pressure Regulators

2035 series: 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"

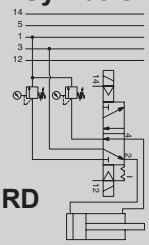
EXAMPLE ORDERS:	Type RS
Valve unit only:	353BA400K000030
Regulator and mounting:	353RS1Z1JN00000 ASSEMBLED



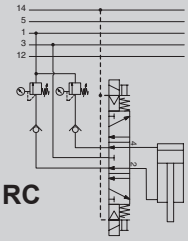
Symbols



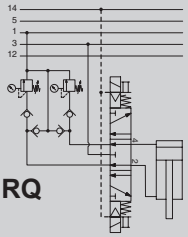
Single pressure from a single supply



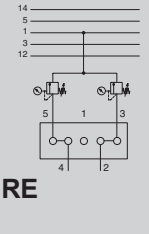
Dual pressure from a single supply



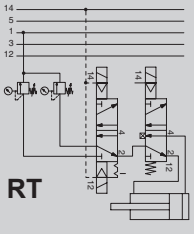
Non-relieving: taps downstream pressure if upstream is exhausted



Relieving: exhausts pressure in cylinder if upstream pressure is exhausted

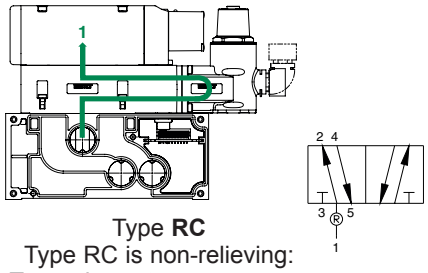


External regulator - separate pressures to ports 2 and 4.

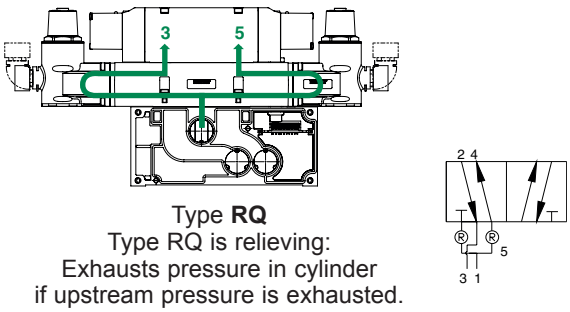


Two-pressure selector used for multi-pressure applications

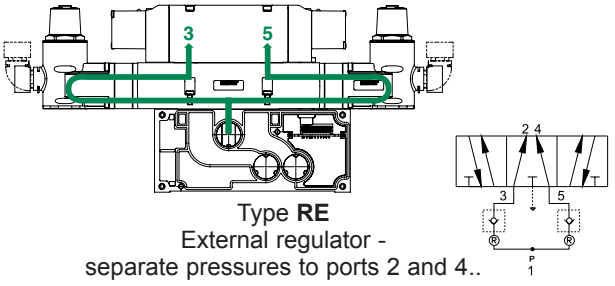
Type **RS**
Single pressure from a single supply.



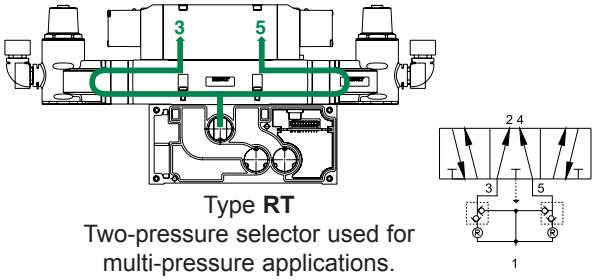
Type **RD**
Dual pressure from a single supply.



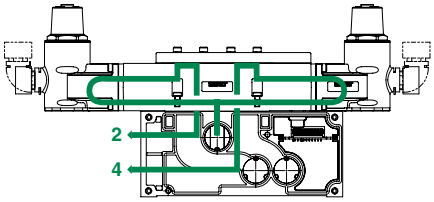
Type **RC**
Type RC is non-relieving:
Traps downstream pressure if upstream pressure is exhausted.



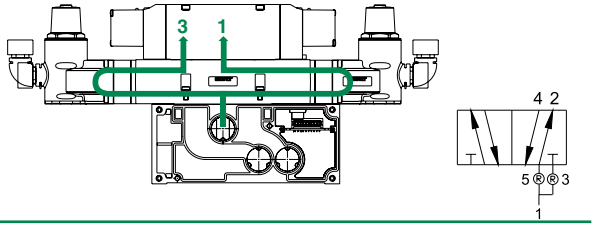
Type **RQ**
Type RQ is relieving:
Exhausts pressure in cylinder if upstream pressure is exhausted.



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

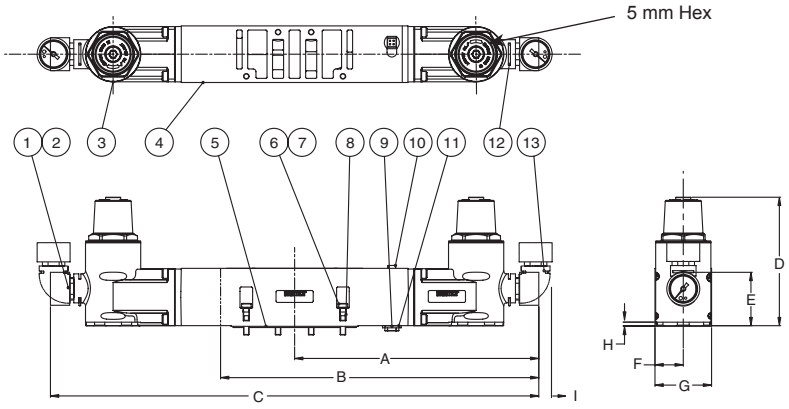


Type **RT**
Two-pressure selector used for multi-pressure applications.



Sandwich Pressure Regulators • Dimensions

Single or Double Sandwich Pressure Regulator



Dimensions 2035 series [mm]

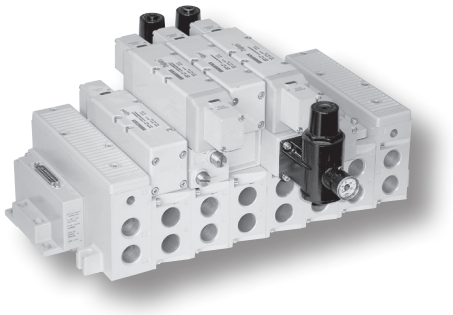
Type	A	B	C	D	E	F	G	H	I	Weight approx. [kg]
Single regulator	177.1	230.7	—	93.1	38.6	20.5	41.0	0.46	—	0.720
Double regulator	177.1	—	354.1	93.1	38.6	20.5	41.0	0.46	373.1	0.995

2035 Series

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 2000 series manifold into a machine, close to the actuators and enable an increased number of production cycles.*
- *Manifold delivered assembled according to customer specifications.*



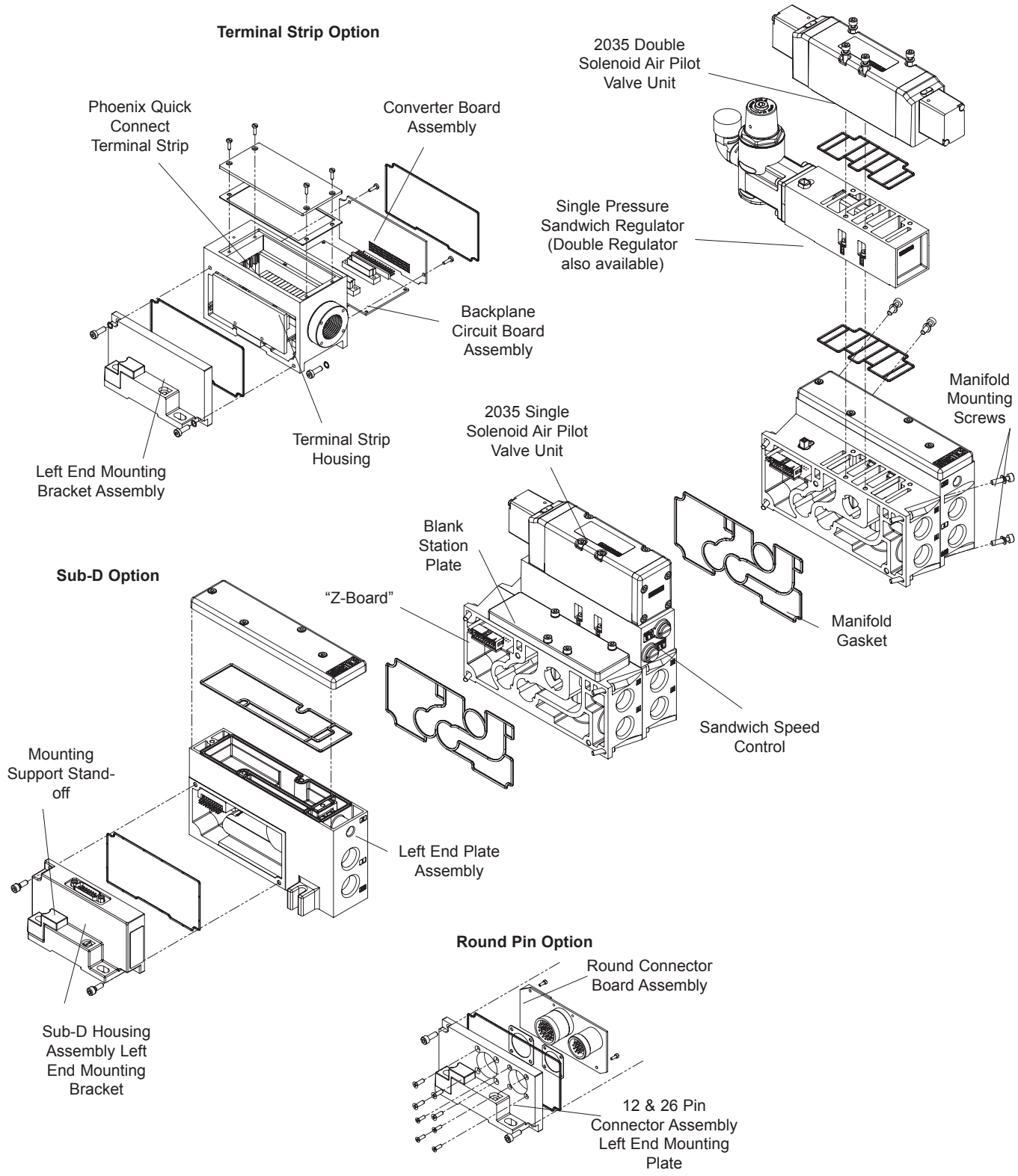
COMBINATIONS

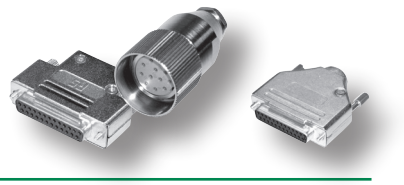
- Modules of up to 32 valves can be grouped together.
  The maximum number of valves depends on the type of electrical connection chosen:
  - 25 pin Sub-D connector : max. 22 solenoids
  - 37 pin Sub-D connector : max. 32 solenoids
  - Terminal strip: max. 32 solenoids
  - 12 pin round connector: max. 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

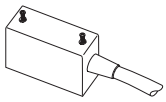
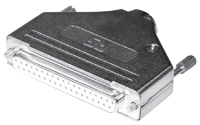
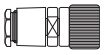
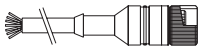
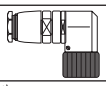
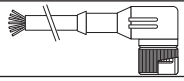
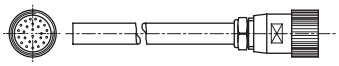
Electrical data	
Node power:	Voltage: 24 V DC +- 10%
Operating data	
Temperature range:	-20 °C to +50 °C
Humidity:	air or inert gas ISO 8573 Level 7.4.4
Protection:	IP 65 or NEMA 4
Configuration data	
Solenoid coil outputs:	Max. 32

Terminal Strip. Sub-D, and Round Connector Options (58)



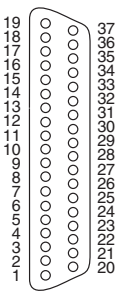


Multipole Systems • Accessories

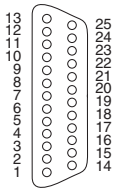
Accessory	Description			Order Code
	25 pin female SUB-D connector, according to DIN 47100, straight cable outlet (IP 40) (série 2000)	w/ cable	2m	**88100453**
			5 m	**88100456**
			10 m	**88100461**
	25 pin female SUB-D connector, elbow cable outlet (série 2000)	w/ cable	2 m	**88100901**
			5 m	**88157644**
	37 pin female SUB-D connector, according to DIN 47100, straight cable outlet (IP 40) (série 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

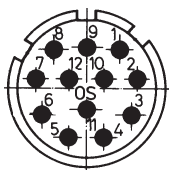
Pin no.	37 PIN SUB-D according to DIN 47100 Order Codes: 88100473 88100476 88100481	SUB-D 25 Order Codes: 88100901 88157644	25 PIN SUB-D according to DIN 47100 Order Codes: 88100453 88100456 88100461	12 PIN ROUND M23 Order Code: 230-960-xxm	19 PIN ROUND M23 Order Codes: 88164106 88164107	26 PIN ROUND M27 Order Code: 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	yellow	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					
31	green-blue					
32	yellow-blue					
33	green-red					
34	yellow-red					
35	green-black					
36	yellow-black					
37	grey-blue					



Pin 37
PE
Pins 35-36
COMMON
Pins 1-32
Coils

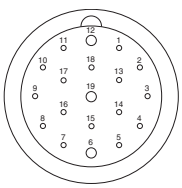


Pin 25
PE
Pins 23-24
COMMON
Pins 1-22
Coils

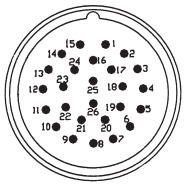


Pin 12
PE
Pin 11
COMMON
Pins 1-10
Coils

View from solder side



Pin 12
PE
Pin 6
COMMON

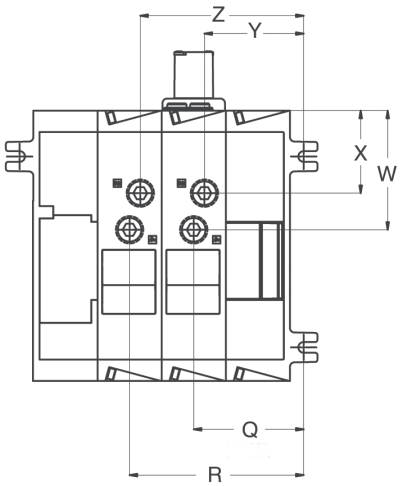


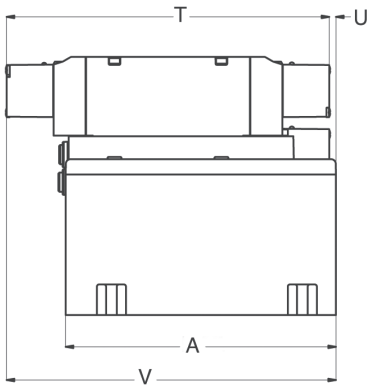
Pin 26
PE
Pins 24-25
COMMON
Pins 1-22
Coils

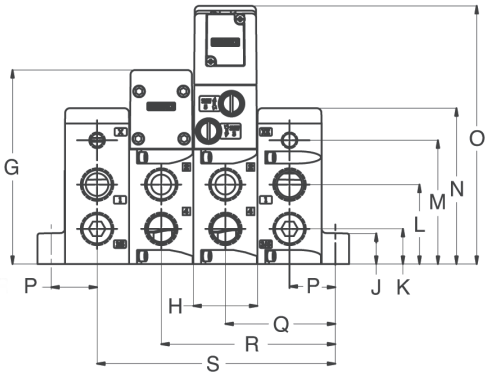
All leaflets are available on: **www.asco.com**

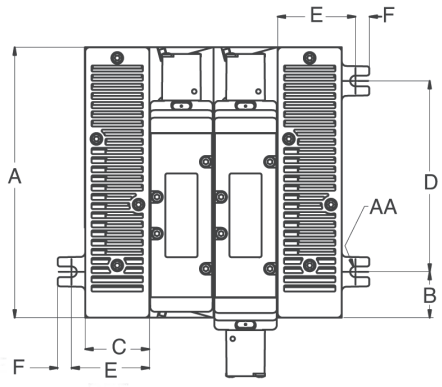
Dimensions

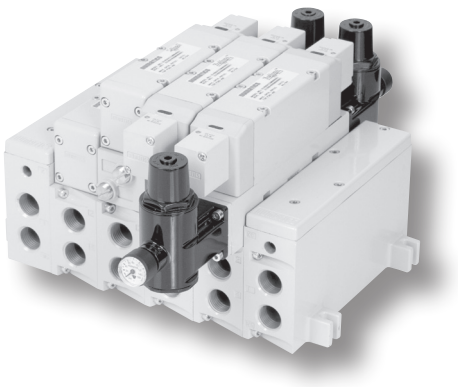
Manifold Assembly











Note:
For Fieldbus Electronics dimensions, see page: 109

Dimensions [mm]

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) approx. [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

Multipole Connections • Overview

How to order: (example)
1. Multipol Module

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 =	2035 Series

Number of Valve Stations[1)]

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

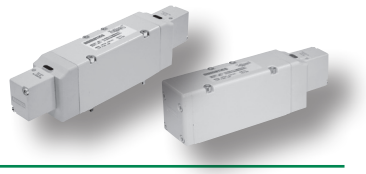
End Plate Port Size 2035 Series

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

1) **Note:**
Maximum number of valve stations is determined by
• the electrical / electronic connection type
• the valve type: Single solenoid pilot actuated valves up to the maximum solenoid outputs allowed by the electrical connection type or a combination of single and/or double solenoid actuated valves not to exceed the maximum number of 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”).



Multipole Connections • Valves • Overview

2. Valve Model Number

35 3 BB 4 Z6 M G 000 61

Series	
35 =	2035 Series

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

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)

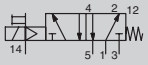
Wiring Options	
K =	Plug-in, AC with LED
M =	Plug-in, DC with LED
O =	Blank station plate

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

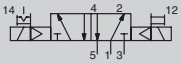
Mounting	
00 =	Valve unit only
01 =	With sandwich speed control
Z1 =	Manifold block with side and bottom ports, single solenoid, “Z-Board“™
Z2 =	Manifold block with side and bottom ports, double solenoid, “Z-Board“™
Z5 =	Z1 with speed control
Z6 =	Z2 with speed control
R1 =	Z1 with ribbon cable connector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

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

Symbols

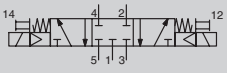


I5/I6... 05/12/35... **BA4** 5-ported, 2-pos. valve, spring return



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

Sandwich Pressure Regulators • Overview

3. Sandwich Pressure Regulator Model Number

35 4 RS 1 Z1 J G000 00

Series	
35 =	2035 Series

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

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

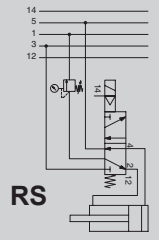
Port Type of Bases	
O =	Without base
Q =	G thread
K =	Plug-in fittings
P =	NPTF thread

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

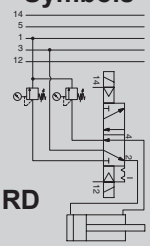
Ribbon cable option must be used for manifold assemblies that exceed 16 solenoids. (7th and 8th digit of valve order code)

Symbols



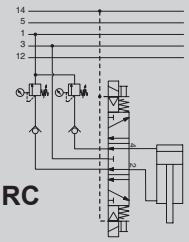
RS

Single pressure from a single supply



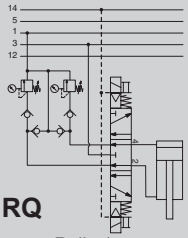
RD

Dual pressure from a single supply



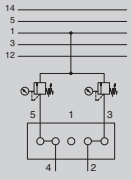
RC

Non-relieving: taps downstream pressure if upstream is exhausted



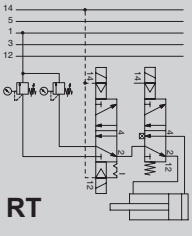
RQ

Relieving: exhausts pressure in cylinder if upstream pressure is exhausted



RE

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



RT

Two-pressure selector used for multi-pressure applications

Multipole Connections • Example Order

Sandwich Pressure Regulators and Speed Control

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

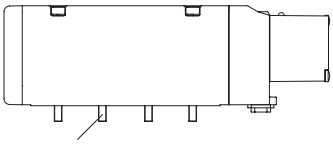
When ordering a valve with regulator mounted on a manifold and sandwich speed control, list the valve unit model number only and include the mounting requirements with the regulator and the speed control.

Specify “Assembled“

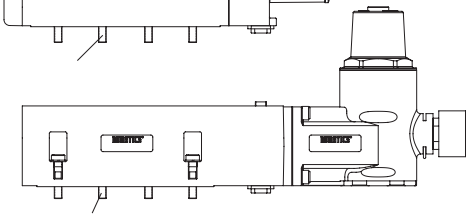
EXAMPLE ORDERS:

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

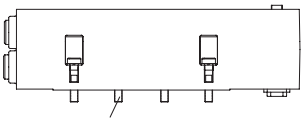
353BA400M000061 — Valve unit only (without manifold block)



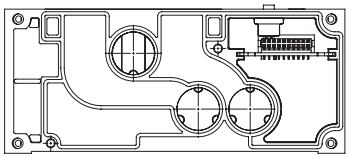
354RS4Z5JN00000 — Standard sandwich pressure regulator



Sandwich speed control



ASSEMBLED — Plug-in manifold assembly



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

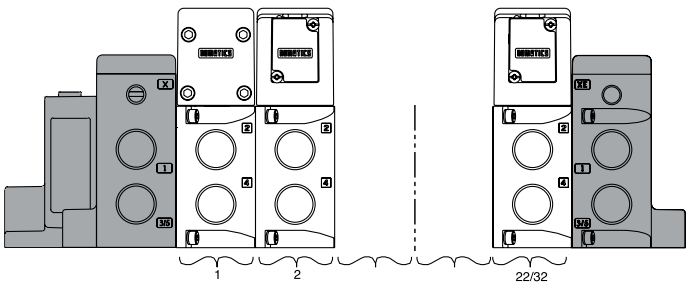
Manifold assembly • Multipole connection

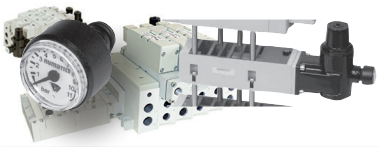
Shaded components are included in assembly kit (AK).

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).

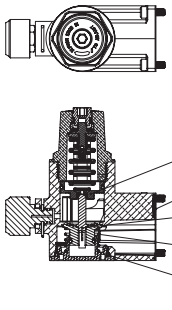
Example order: (25 Pin Sub-D)

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





Accessories • Sandwich Pressure Regulators

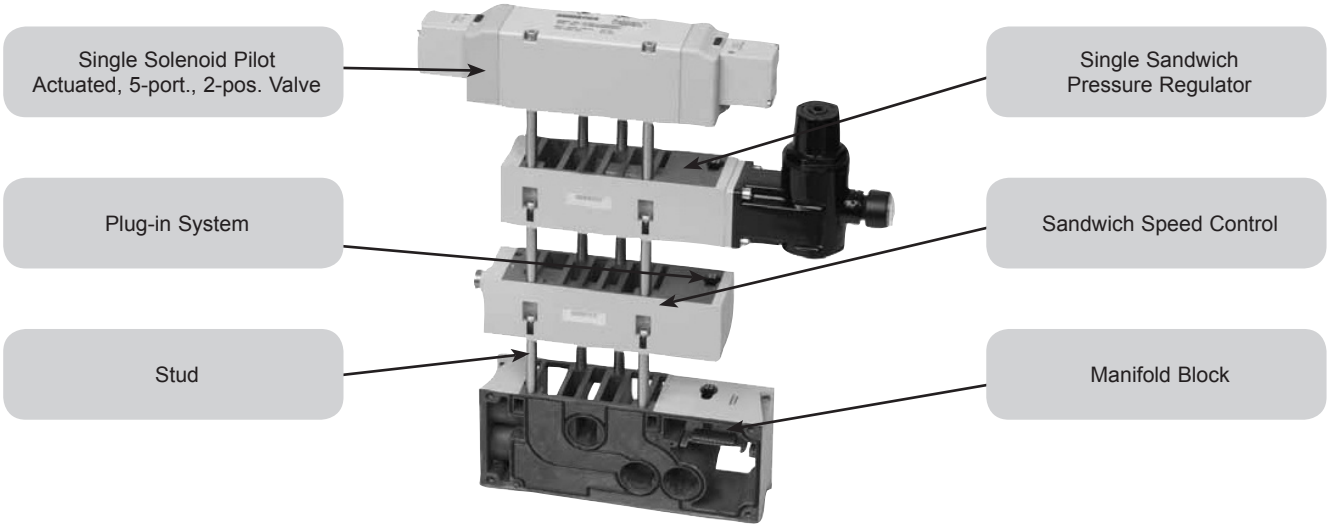
accessory	description		order code
	Regulator repair kit	0,2 to 2 bar	**239-2220**
		0,3 to 4 bar	**239-2221**
		0,7 to 9 bar	**239-2222**
	Gauge to max. 11 bar		**214-215**
	Gauge to max. 4 bar		**214-220**
	Adapter, port G1/8		**239-2048**
	Retaining clip		**131-236**

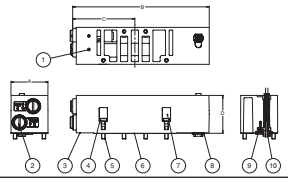
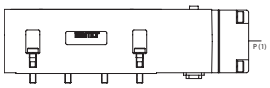
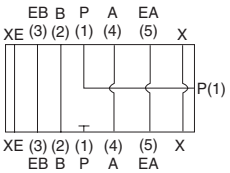
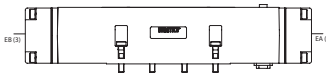
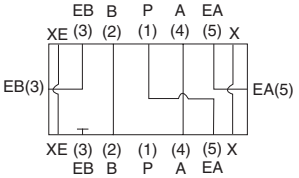
Spare Parts • Sandwich Components

Sandwich Speed Control

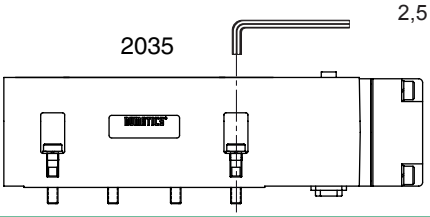
Sandwich speed control for valves and regulators is equipped with an integral plug-in system. Sandwich speed control provide a variable restriction in ports 3 and 5 in order to control the cylinders' extend and retract speed. To facilitate easy adjustment both screws are on the same side of the speed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

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

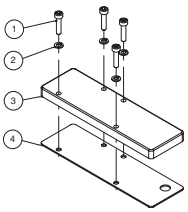
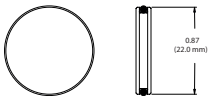
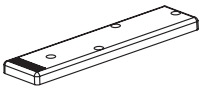
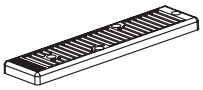
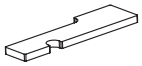
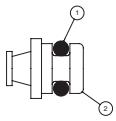


Accessory	Description	Order code
	Sandwich speed control	**239-2223**
	Sandwich pressure block - Used to supply a separate pressure to a single valve station without needing blocking disks. 	**239-2228**
	Sandwich exhaust block - Used to isolate the exhaust of a single valve station from the manifold.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

Assembly/disassembly of bar:
2,5 mm external hex key



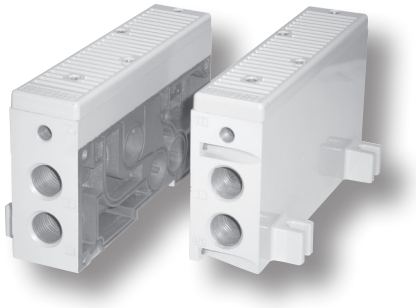
Spare Parts

Accessory	Description		Order Code
	Blank station plate (screw, blank station plate, O-ring, gasket)		**239-2218**
	Blocking disks	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

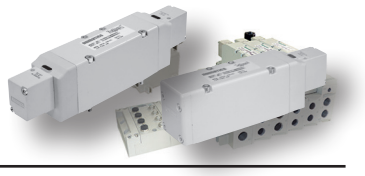
2035 Series

End plate kit



End plate kits	Weight	Order Code Port		1	3/5	X/XE
	approx. [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 = 2035 Series

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

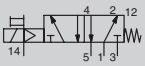
M = Plug-in, DC with LED

Mounting

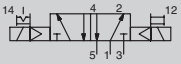
00 = Valve unit only

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

Symbols

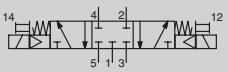


I5/I6... 05/12/35... **BA4** 5-ported, 2-pos. valve, spring return



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

Sandwich Pressure Regulator Model Number

35 3 RS 1 00 J 0 000 00

Series

35 = 2035 Series

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

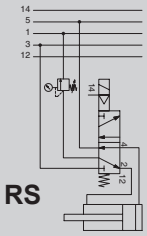
J = Plug-in receptacle

Mounting **2035**

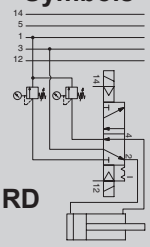
00 = Regulator unit only X

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

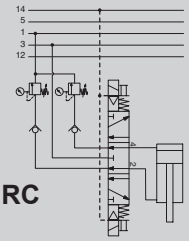
Symbols



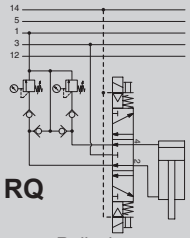
Single pressure from a single supply



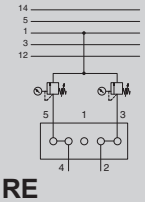
Dual pressure from a single supply



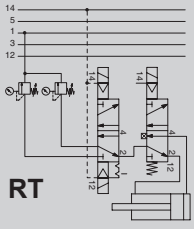
Non-relieving: taps downstream pressure if upstream is exhausted



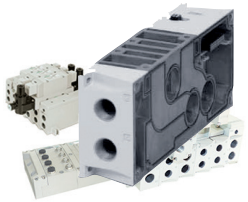
Relieving: exhausts pressure in cylinder if upstream pressure is exhausted



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



Two-pressure selector used for multi-pressure applications



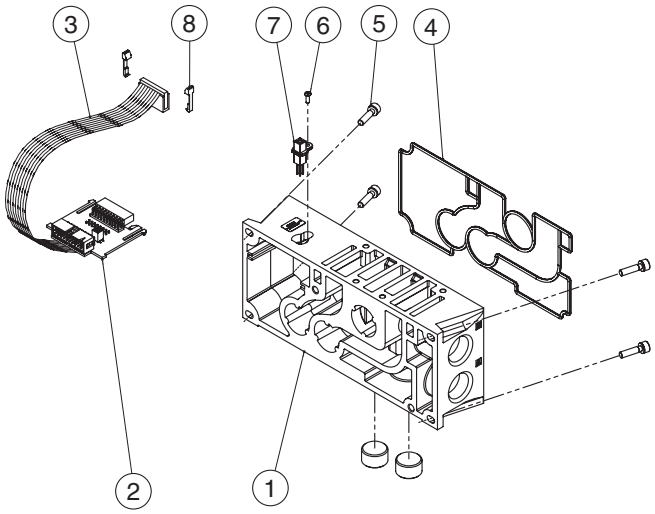
Spare Parts • Manifold Assembly Kits “Z-Boards”

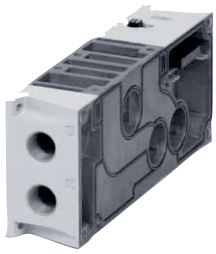
“Z-Boards”

2035 Series 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



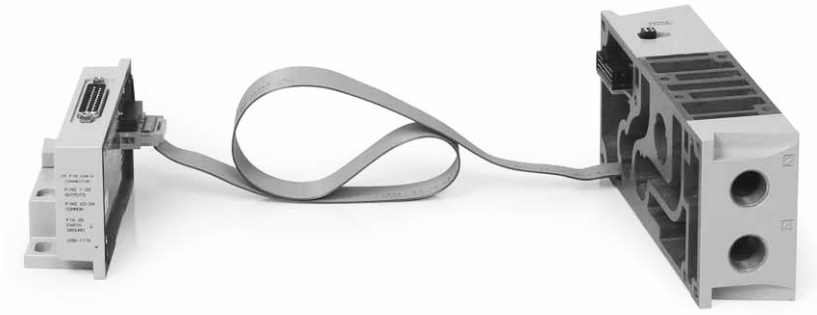


2035 Series

Manifold assemblies with side ports with bottom ports	Order Code G 1/2“ G 3/8“	Order Code NPTF 1/2“ NPTF 3/8“	Order Code G 3/8“ G 3/8“	Order Code NPTF 3/8“ NPTF 3/8“	Weight approx. [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

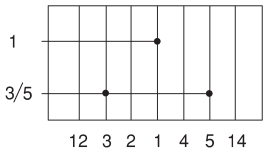
Description		Order Code
Ribbon cable	2035	**239-2226**

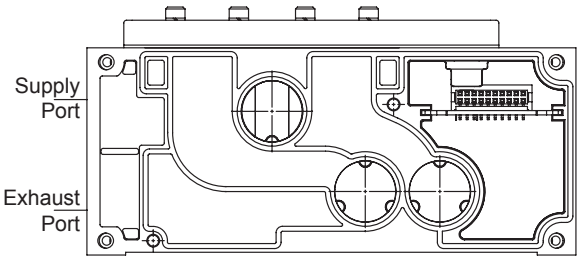


Spare Parts • Mid-Station Supply & Exhaust Block

Mid-Station Supply & 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





2035 Series

Description	Weight approx. [kg]	Order Code
Mid-station supply & exhaust block	0.770	**239-2225**
On request: Threaded ports in NPTF		

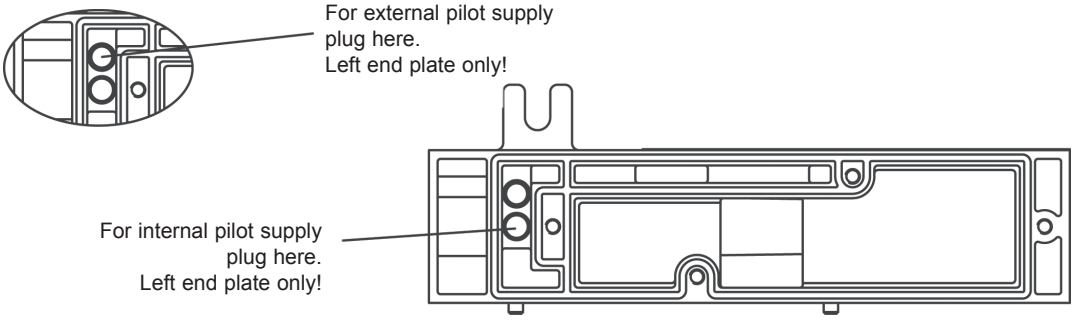
Spare Parts • Conversion of Pilot Air Supply

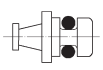
Conversion of Pilot Air Supply

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.

2035 Series



	Plug for conversion of pilot supply	**213-590**