

● Manifold model No. (example)

Serial transmission (CC-Link)
(16 point input / 16 point output)

MW 4 GA2 8 0- CX - T8G7 W HY11 D - 6 - 3

A Model No. **B** Solenoid position **C** Port size **E** Reduced wiring connection **F** Terminal/connector pin array **G** Option **H** Mount **I** Station No. **J** Voltage

The method is different from that for the manifold station No.

Part name		Model No.		Layout position from that for the manifold station No.																														Quantity	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
I/O block (Page 1056)	NW4GA2-IN-[N]-[K]		○																													1			
	NW4GA2-OUT-[N]-B	○																														1			
Wiring block (Page 1055)	NW4GA2-T[8G7]			○																												1			
Valve block with solenoid valve (Pages 992 to 995)	NW4GA2[1]0-[C4]			○																												1			
	NW4GA2[2]0-[C6]						○																									1			
	NW4GA2[3]0-[C4]					○																										1			
	NW4GA2[]0-[]																																		
	NW4GA2[]0-[]																																		
	NW4GA2[]0-[]																																		
	NW3GA2[1]0-[C4]												○																			1			
NW3GA2[11]0-[C4]												○																			1				
Valve block with masking plate (Page 1050)	NW4G2-MPS																																		
	NW4G2-MPD													○																		1			
Supply and exhaust block (Page 1052)	NW4G2-Q[]-[8L]-[]							○			○																					2			
	NW4G2-Q[]-[]-[]								○																										
	NW4G2-Q[]-[]-[]																																		
	NW4G2-Q[]-[]-[]																																		
Partition block (Page 1052)	NW4G2-[SA]								○																							1			
	NW4G2-[]																																		
	NW4G2-[]																																		
End block R (Page 1052)	NW4G2-[E]R																	○														1			
DIN rail	L7 = [] (How to calculate length page 1036)	Blanking plug				Silencer				Tag plate		Cable clamp				Waterproof plug				Accessory															
		GWP4-B		GWP6-B		SLW-H8		A		W4G-SCL-18A		W4G-SCL-18B		W4G-XSZ-12																					
		GWP8-B		GWP10-B		SLW-H10				Applicable cable O.D. ø14.5 to 16.5		Applicable cable O.D. ø16.5 to 18.5																							
		Cable with D sub-connector (refer to page 1064)						Cable with multi-connector						Multi-connector only																					
		N4T-CABLE-DO [] [] [] []						W4G-RMC [] [] [] []						W4G2-RM21WTP-[] [] [] []																					
When a blanking plug or silencer is necessary, list the quantity in the field for the required size.																																List the quantity for I/O block requirements.			

- Complete from the left end, with the piping port facing forward, regardless of the wiring block method.
(Write the block model numbers and positions you determined referring to the block configurations (pages 1048 to 1063).)
- Write the total number of blocks specified in the required quantity field at the table far right.
- Mark a circle for accessories that are required.
- Indicate the mounting rail length. (Fill in only when a length other than the standard length is required.)
- As there are manifold specifications sheet for each of the various series, fill in the form for the corresponding specifications sheet.

MW4GA/B/Z2 (individual wiring body piping, base side piping, base bottom piping)	Page 1098
MW4GA2 (reduced wiring body piping)	Page 1099
MW4GB2 (reduced wiring base side piping)	Page 1100
MW4GZ2 (reduced wiring base bottom piping)	Page 1101

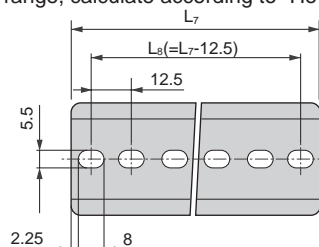
- (1) Determine the rail length using the calculation method shown below.
The obtained length is standard.
- (2) For standard length, length (L_r) is not required on the specification sheet.
Indicate the length when using a non-standard length.

Now to calculate rail length (DIN)

Valve block	Quantity	Supply and exhaust block	Quantity	Partition block	Quantity	Wiring block (including end block)	I/O block	Quantity
Manifold length (L _m) = (16 x [])		+ (18 x [])		+ (13.5 x [])		+ []		+ (45 x [])
DIN rail length (L _r) = L _r ' x 12.5								
L _r ' = $\frac{L_m + 40}{12.5}$ → round up to integer						Select from the table at right.		
Rail mounting pitch (L _a) = L _r - 12.5								

L_s: Manifold length	135 or less	Over 135 to 147.5	147.5 to 160	160 to 172.5	172.5 to 185	185 to 197.5	197.5 to 210	210 to 222.5	222.5 to 235	235 to 247.5	247.5 to 260	260 to 272.5	272.5 to 285	285 to 297.5	297.5 to 310	310 to 322.5	322.5 to 335	335 to 347.5	347.5 to 360	360 to 372.5	372.5 to 385	385 to 397.5	397.5 to 410	410 to 422.5	422.5 to 435	435 to 447.5	447.5 to 460	460 to 472.5	472.5 to 485	
L_r: Rail length	175	175	180	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5	525
Pitch L_s	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375	387.5	400	412.5	425	437.5	450	462.5	475	487.5	500	512.5	525

*1: When L_6 exceeds this table range, calculate according to “How to calculate DIN rail length”.



Model No.	Dimensions (mm)	
Wiring block for reduced wiring	T10	175.5
	T20	110
	T30/5*	106
	T8*	148.5

* The end block is included in the wiring block.

How to fill out the wiring specifications sheet (AC specifications only)

This is not required with standard wiring/double wiring.

(With DC specifications, only standard wiring and double wiring will be supported)

● Wiring specifications sheet (example)

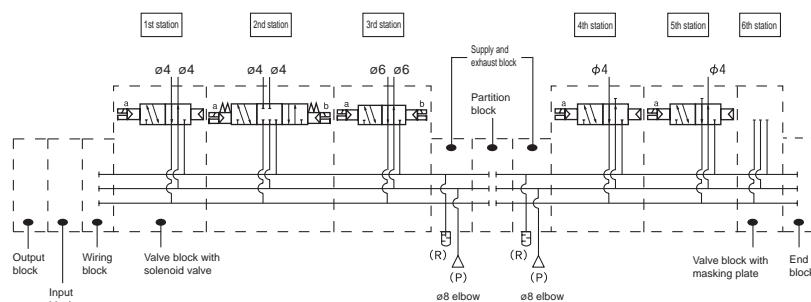
* The following example has been filled out in accordance with the manifold specifications sheet on page 1096.

Connector pin No.	Valve No.																							
T10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	a																							
2																								
3			a																					
4			b																					
5		a																						
6		b																						
7				a																				
8																								
9					a																			
10																								
11						a																		
12						b																		
13																								
14																								
15																								
16																								
17																								
18																								
COM																								
COM																								

● Notes on wiring specifications sheet

- (1) Fill in and attach to the manifold specifications sheet for anything other than the standard wiring or double wiring.
Consult with CKD, as products will be made to order in this case.
- (2) The valve No. is determined by only counting the valve blocks in order from the left with the ports facing forward.
Note that this differs from the installation position numbers.
- (3) The valve block with masking plate is wired in advance.
“-MPS” will be wired on only the a side while “-MPD” will be wired on the a and b sides.
- (4) It is not possible to assemble a double solenoid or 3-position solenoid valve to “-MPS”.
Order valve block with solenoid valve and carry out expansion.
Refer to page 1093 for instructions on how to expand stations.
- (5) It is not possible to install spare wires for station expansion only in advance. Install a valve block with a masking plate.

Reference circuit diagram The circuit diagram of the manifold model No. (example) on the previous page is as shown below.



- [] indicates each block configuration.
- The manifold station numbers are set in order from the left with the piping port facing forward.
(* The I/O blocks, wiring blocks, supply and exhaust blocks, partition block, and end block are not included in the manifold station No.)
- Select a model No. from the block configurations (pages 1048 to 1063), individual wiring manifolds (pages 977, 982, and 983), and reduced wiring manifolds (pages 992, 994, and 1014 to 1020).
- With piping port facing front, arrangement positions are set in order from the left.
- When the input block and output block are both being installed, the output block will be on the left side with the piping port facing forward.

4GA/B

M4GA/B

MN4GA/B

4GA/B
(master)

4GB
With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E
MN4E

W4GA/B2

W4GB4

MN3S0
MN4S0

4SA/B0

4KA/B

4KA/B
(master)

4F

4F
(master)

PV5G
GMF

PV5
GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP
NVP

4G*0EJ

4F*0EX

4F*0E

HMV
HSV

2QV
3QV

SKH

Silencer

TotAirSys
(Total Air)

TotAirSys
(Gamma)

Ending

MW4GA/B/Z2 (individual wiring) block manifold specifications sheet

● Contact

● Quantity

set(s)

● Delivery date

/

Issued

/

/

Slip No.

Order No.

● Manifold model No.

Order No.

MW

G

2

0-

-

R1

-

-

● Model
No.

● Switching
position category

● Port size

● Wiring
method

● Option

● Mount

● Station
No.

● Voltage

When filling in this field, select the model No. from Block configurations (pages 1048 to 1063) and pages 977, 982 and 983.

Part name	Model No.	Layout position																														Quantity
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Valve block with solenoid valve (Pages 977, 982 and 983)	NW4G 2 0-																															
	NW4G 2 1-																															
	NW4G 2 2-																															
	NW4G 2 0-																															
	NW4G 2 0-																															
	NW4G 2 0-																															
	NW4G 2 0-																															
	NW3G 2 0-																															
Valve block with masking plate (Page 1050)	NW4G 2-MP- -R1																															
	NW4G 2-MP- -R1																															
	NW4G 2-MP- -R1																															
Supply and exhaust block (Page 1052)	NW4G2-Q - -																															
	NW4G2-Q - -																															
	NW4G2-Q - -																															
	NW4G2-Q - -																															
Various spacers (Pages 1057 and 1060)	Air supply spacer W4G2-P -																															
	Exhaust spacer W4G2-R -																															
	Spacer pilot check valve W4G2-PC-M																															
	Individual air supply compatible spacer with in-stop valve spacer W4G2-PIS -																															
Partition block (Page 1052)	NW4G2-S																															
	NW4G2-S																															
	NW4G2-S																															
End block (Page 1052)	NW4G2-E L																															
	NW4G2-E R																															
DIN rail	L= (How to calculate length page 1096)	Blanking plug										Silencer										Tag plate (attachment)		Accessory								
		GWP4-B		GWP6-B		GWP8-B		GWP10-B		SLW-H8		SLW-H10		A or B																		

1098

CKD

MW4GA2 (reduced wiring) block manifold specifications sheet

● Contact ● Quantity set(s) ● Delivery date / / Issued / /
 Slip No. Order No. Company Contact Order No.

● Manifold model No.

MW **GA2** **0-** - - -

A Model No. B Solenoid position C Port size E Reduced wiring connection F Terminal/connector pin array G Option H Mount I Station No. J Voltage

When filling in this field, select the model No. from Block configurations (pages 1048 to 1063) and pages 977 to 980, 982 and 983.

Product name (page)	Model No.	Layout position																														Quantity
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
I/O block (Page 1056) (*2)	NW4G <input type="text"/> 2-IN- <input type="text"/> <input type="text"/>																															
	NW4G <input type="text"/> 2-OUT- <input type="text"/> -B																															
Wiring block (Page 1055)	NW4G <input type="text"/> 2-T <input type="text"/> <input type="text"/> (*1)																															
Valve block with solenoid valve (Pages 992 to 995)	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW4GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
	NW3GA2 <input type="text"/> 0- <input type="text"/> <input type="text"/>																															
Valve block with masking plate (Page 1050)	NW4GA2-MPS																															
	NW4GA2-MPD																															
Supply and exhaust block (Page 1052)	NW4G2-Q <input type="text"/> <input type="text"/> <input type="text"/>																															
	NW4G2-Q <input type="text"/> <input type="text"/> <input type="text"/>																															
	NW4G2-Q <input type="text"/> <input type="text"/> <input type="text"/>																															
	NW4G2-Q <input type="text"/> <input type="text"/> <input type="text"/>																															
Various spacers (Pages 1057 to 1060)	Air supply spacer W4G2-P <input type="text"/> <input type="text"/>																															
	Exhaust spacer W4G2-R <input type="text"/>																															
	Individual air supply with in-stop valve spacer W4G2-PIS <input type="text"/>																															
Partition block (Page 1052)	NW4G2- <input type="text"/>																															
	NW4G2- <input type="text"/>																															
	NW4G2- <input type="text"/>																															
End block (Page 1052)	NW4G2- <input type="text"/> R																															
DIN rail (*3)	$L_7 =$ <input type="text"/> (How to calculate length page 1096)	Blanking plug		Silencer	Tag plate	Cable clamp		Waterproof plug		Accessory																						
		GWP4-B	GWP6-B	SLW-H8	A	W4G-SCL-18A	W4G-SCL-18B	W4G-XSZ-12																								
		GWP8-B	GWP10-B	SLW-H10		Applicable cable O.D. ø14.5 to 16.5	Applicable cable O.D. ø16.5 to 18.5																									
		Cable with D sub-connector (refer to page 1064)				Cable with multi-connector		Multi-connector only																								
		N4T-CABLE-DO <input type="text"/>		W4G-RMC <input type="text"/>		W4G2-RM21WTP <input type="text"/>																										

*1: Specify the model No. for the wiring block in the following manner. *2: When the wiring block is reduced wiring T7*, the I/O block is side wiring and

NW4G 2-T

Type of wiring block
(Refer to page 1055)

Blank: when T10/T20/T30/T5*/T7*
A : when T8*

MW4GB2-^{IN}_{OUT} is selected.

3: T7 is not DIN rail mount.

4GA/B

M4GA/B

MN4GA/B

4GA/B (master)

4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (master)

4F

4F (master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G*0EJ

4F*0EX

4F*0E

HNV

HSV

2QV

3QV

SKH

Silencer

TotAirSys (Total Air)

TotAirSys (Gamma)

Ending

4GA/B
M4GA/B
MN4GA/B
4GA/B (master)
4GB With sensor
4GD/E
M4GD/E
MN4GD/E
4GA4/B4
MN3E MN4E
W4GA/B2
W4GB4
MN3S0 MN4S0
4SA/B0
4KA/B
4KA/B (master)
4F
4F (master)
PV5G GMF
PV5 GMF
PV5S-0
3Q
MV3QR
3MA/B0
3PA/B
P/M/B
NP/NAP NVP
4G*0EJ
4F*0EX
4F*0E
HMV HSV
2QV 3QV
SKH
Silencer
TotAirSys (Total Air)
TotAirSys (Gamma)
Ending

MW4GB2 (reduced wiring) block manifold specifications sheet

● Contact

● Quantity

set(s)

● Delivery date

/

Issued

/

/

Slip No.

Order No.

● Manifold model No.

MW4GB20----

● Model No.

● Solenoid position

● Port size

● Reduced wiring connection

● Terminal connector pin array

● Option

● Mount

● Station No.

● Voltage

Company

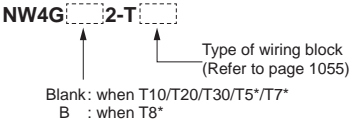
Contact

Order No.

When filling in this field, select the model No. from Block configurations (pages 1048 to 1063) and pages 977 to 980, 982 and 983.

Part name (Page)	Model No.	Layout position																														Quantity
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
I/O block (Page 1056)	NW4GB2-IN-[]-[]																															
	NW4GB2-OUT-[]-B																															
Wiring block (Page 1055)	NW4G[]2-T[] (*1)																															
Valve block with solenoid valve (Pages 992 to 995)	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
	NW4GB2[]0-[]																															
Valve block with masking plate (Page 1050)	NW4GB2-MPS-[]																															
	NW4GB2-MPD-[]																															
Supply and exhaust block (Page 1052)	NW4G2-Q[]-[]-[]																															
	NW4G2-Q[]-[]-[]																															
	NW4G2-Q[]-[]-[]																															
	NW4G2-Q[]-[]-[]																															
Various spacers (Pages 1057 to 1060)	Air supply spacer W4G2-P-[]-[]																															
	Exhaust spacer W4G2-R-[]																															
	Spacer pilot check valve W4G2-PC-M																															
	Individual air supply with in-stop valve spacer W4G2-PIS-[]																															
Partition block (Page 1052)	NW4G2-[]																															
	NW4G2-[]																															
	NW4G2-[]																															
End block (Page 1052)	NW4G2-[]:R																															
DIN rail (*2)	L _r = [] (How to calculate length page 1096)	Blanking plug				Silencer				Tag plate		Cable clamp						Waterproof plug				Accessory										
		GWP4-B		GWP6-B		SLW-H8		B	W4G-SCL-18A			W4G-SCL-18B			W4G-XSZ-12																	
		GWP8-B		GWP10-B		SLW-H10			Applicable cable O.D. ø14.5 to 16.5			Applicable cable O.D. ø16.5 to 18.5																				
		Cable with D sub-connector (refer to page 1064)								Cable with multi-connector						Multi-connector only																
		N4T-CABLE-DO-[]-[]								W4G-RMC-[]						W4G2-RM21WTP-[]																

*1: Specify the model No. for the wiring block in the following manner. *2: T7* is not DIN rail mount.



MW4GZ2 (reduced wiring) block manifold specifications sheet

● Contact ● Quantity set(s) ● Delivery date / / /
 Slip No. Order No.

Issued / / /
 Company
 Contact
 Order No.

● Manifold model No.

MW4GZ2 **0-** - - -

● Model No. ● Solenoid position ● Port size ● Reduced wiring connection ● Terminal/connector pin array ● Option ● Station No. ● Voltage

When filling in this field, select the model No. from Block configurations (pages 1048 to 1063) and pages 977 to 980, 982 and 983.

Part name (Page)		Model No.	Layout position																														Quantity	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
I/O block (Page 1056)	NW4GB2-IN- <input type="text"/> - <input type="text"/>																																	
	NW4GB2-OUT- <input type="text"/> -B																																	
Wiring block (Page 1055)	NW4G <input type="text"/> 2-T <input type="text"/> (*1)																																	
Valve block with solenoid valve (Pages 992 to 995)	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
	NW4GZ2 <input type="text"/> 0- <input type="text"/>																																	
Valve block with masking plate (Page 1050)	NW4GZ2-MPS- <input type="text"/>																																	
	NW4GZ2-MPD- <input type="text"/>																																	
Supply and exhaust block (Page 1052)	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																																	
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																																	
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																																	
	NW4G2-Q <input type="text"/> - <input type="text"/> - <input type="text"/>																																	
Various spacers (Pages 1057 to 1060)	Air supply spacer W4G2-P <input type="text"/> - <input type="text"/>																																	
	Exhaust spacer W4G2-R- <input type="text"/>																																	
	Spacer pilot check valve W4G2-PC-M																																	
	Individual air supply with in-stop valve spacer W4G2-PIS- <input type="text"/>																																	
Partition block (Page 1052)	NW4G2- <input type="text"/>																																	
	NW4G2- <input type="text"/>																																	
	NW4G2- <input type="text"/>																																	
End block (Page 1052)	NW4G2- <input type="text"/> R																																	
Accessory	Blanking plug				Silencer				Tag plate		Cable clamp				Waterproof plug				Accessory															
	GWP4-B		GWP6-B		SLW-H8		B		W4G-SCL-18A		W4G-SCL-18B		W4G-XSZ-12																					
	GWP8-B		GWP10-B		SLW-H10				Applicable cable O.D. ø14.5 to 16.5		Applicable cable O.D. ø16.5 to 18.5																							
	Cable with D sub-connector (refer to page 1064)								Cable with multi-connector								Multi-connector only																	
	N4T-CABLE-DO <input type="text"/> - <input type="text"/>				W4G-RMC- <input type="text"/>				W4G2-RM21WTP- <input type="text"/>																									

*1: Specify the model No. for the wiring block in the following manner.

NW4G **2-T**

↑ ↑
 Blank: when T10/T20/T30/T5*/T7*
 B : when T8*
 Type of wiring block
 (Refer to page 1055)

4GA/B

M4GA/B

MN4GA/B

4GA/B (master)

4GB

With sensor

4GD/E

M4GD/E

MN4GD/E

4GA4/B4

MN3E

MN4E

W4GA/B2

W4GB4

MN3S0

MN4S0

4SA/B0

4KA/B

4KA/B (master)

4F

4F (master)

PV5G

GMF

PV5

GMF

PV5S-0

3Q

MV3QR

3MA/B0

3PA/B

P/M/B

NP/NAP

NVP

4G*0EJ

4F*0EX

4F*0E

HMV

HSV

2QV

3QV

SKH

Silencer

TotAirSys (Total Air)

TotAirSys (Gamma)

Ending

4GA/B

Common terminal box (T10) wiring specifications sheet (AC specifications only)

* Fill in and attach to the manifold specifications sheet for anything other than double wiring. (Available as custom order)
* Not required with double wiring. (With DC specifications, only standard wiring and double wiring will be supported)

Connector pin No.	Valve No.																								
	T10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
4GA/B (master)	1																								
	2																								
4GB With sensor	3																								
	4																								
4GD/E	5																								
	6																								
M4GD/E	7																								
	8																								
MN4GD/E	9																								
	10																								
4GA4/B4	11																								
	12																								
MN3E MN4E	13																								
	14																								
W4GA/B2	15																								
	16																								
W4GB4	17																								
	18																								
MN3S0 MN4S0	COM																								
	COM																								
4SA/B0																									
4KA/B																									
4F																									
4F (master)																									
PV5G GMF																									
PV5 GMF																									
PV5S-0																									
3Q																									
MV3QR																									
3MA/B0																									
3PA/B																									
P/M/B																									
NP/NAP NVP																									
4G*0EJ																									
4F*0EX																									
4F*0E																									
HMV HSV																									
2QV 3QV																									
SKH																									
Silencer																									
TotAirSys (Total Air)																									
TotAirSys (Gamma)																									
Ending																									