Series 3 valves and solenoid valves

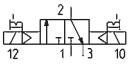
2x3/2-way, 3/2-way, 5/2-way, 5/3-way CC CO CP
Ports: G1/8, G1/4



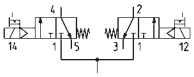

Mod. **338-015-02**
338L-015-02

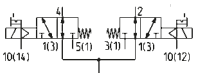

Mod. **348-015-02**
348L-015-02

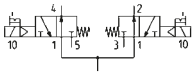


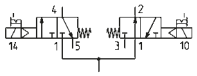

Mod. **338-011-02**
338L-011-02

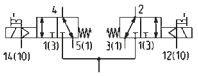


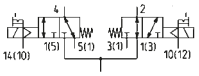

Mod. **338D-015-02**


Mod. **348D-E15-02**

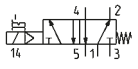

Mod. **348D-015-02**

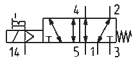

Mod. **398D-015-02**

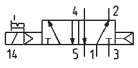

Mod. **338D-E15-02**


Mod. **398D-E15-02**

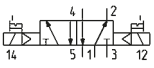


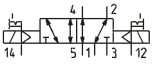

Mod. **358-015-02**


Mod. **358-E15-02**

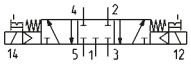

Mod. **358-016-02**

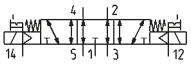


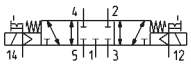

Mod. **358-011-02**

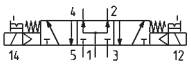

Mod. **358-E11-02**

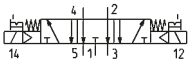


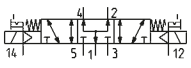

Mod. **368-011-02**


Mod. **378-E11-02**

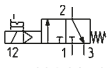

Mod. **368-E11-02**

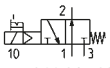

Mod. **388-011-02**

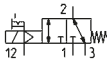

Mod. **378-011-02**

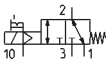

Mod. **388-E11-02**



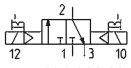

Mod. **334-015-02**

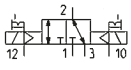

Mod. **344-015-02**


Mod. **334-E15-02**

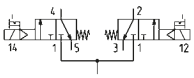

Mod. **344-E15-02**

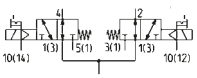


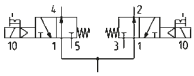

Mod. **334-011-02**

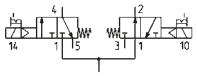

Mod. **334-E11-02**

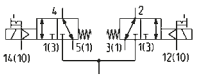



Mod. **334D-015-02**


Mod. **344D-E15-02**


Mod. **344D-015-02**


Mod. **394D-015-02**


Mod. **334D-E15-02**

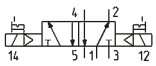
Mod. **394D-E15-02**

Mod. **354-015-02**

Mod. **354-E15-02**

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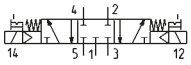


Mod. **354-011-02**

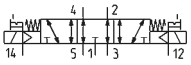


Mod. **354-E11-02**

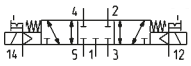




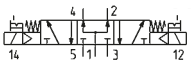
Mod. **364-011-02**



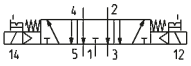
Mod. **374-E11-02**



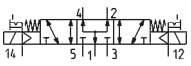
Mod. **364-E11-02**



Mod. **384-011-02**

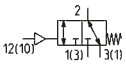


Mod. **374-011-02**



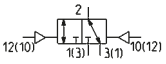
Mod. **384-E11-02**





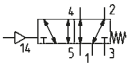
Mod. **338-035**
338L-035
334-035





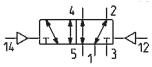
Mod. **338-033**
338L-033
334-033





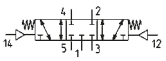
Mod. **358-035**
354-035



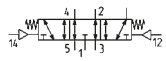


Mod. **358-033**
354-033

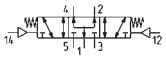




Mod. **368-033/364-033**

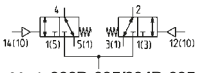


Mod. **378-033/374-033**

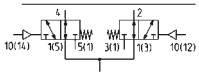


Mod. **388-033/384-033**

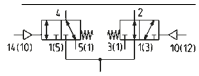




Mod. **338D-035/334D-035**



Mod. **348D-035/344D-035**



Mod. **398D-035/394D-035**

CODING EXAMPLE

3	3	8	D	-	015	-	02	-	U 7	7	

3 SERIES

3 NUMBER OF WAYS - POSITIONS:
3 = 3/2 NC - 4 = 3/2 NO - 5 = 5/2 - 6 = 5/3 CC - 7 = 5/3 CO - 8 = 5/3 CP - 9 = 1x3/2 NC + 1x3/2 NO

8 PORTS:
8 = G1/8 - 4 = G1/4

D VERSION:
= standard
D = double valve 2x3/2
L = for manifold assembly (only for solenoid valves 3/2 with G1/8 ports)

015 ACTUATION:
011 = double solenoid - 015 = single solenoid, spring return - 016 = single solenoid, pneumatic spring return
E11 = double solenoid external servo-command - E15 = single solenoid, external servo-command - 033 = pneumatic pneumatic - 035 = pneumatic spring

02 SOLENOID INTERFACE:
02 = mech. sol. 22 x 22

U7 ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS:
A8 = PPS / 30 x 30
G7 = PA / 22 x 22
G8 = PA / 30 x 30 (solo 24 V DC)
G9 = PA / 22 x 58
H8 = PA 6 V0 / 30 x 30
U7 = PET / 22 x 22

7 SOLENOID VOLTAGE:

		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-
	12V DC	3,1W	3,1W	-	-	-
K	72V DC	4,8W	4,8W	-	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-
K1*	72V DC	5,6W	5,6W	-	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	-

		U7**	G7**	A8**	H8**	G9**
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	-
1	6V DC	5,1W	5,1W	-	-	-
2	12V DC	5W	5W	-	-	-
3	24V DC	5W	5W	4W	5,4W	4/2W
4	48V DC	5,3W	5,3W	4W	-	-
6	110V DC	4,2W	4,2W	-	-	-
7	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
71*	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
9	48V DC	3,1W	3,1W	-	-	-
10	110V DC	3,2W	3,2W	-	-	-

* = Only for valve models NO in line
** = Substitute 0 with letter or number at the beginning of the line

TYPE OF MANUAL OVERRIDE:
= bistable, standard
IL = bistable, lever type (available on demand)
IM = monostable (available on demand)

Accessories

Manifold bars with separate exhausts (low version)
The following is supplied:
2x feet, 1x manifold,
1x inlet fitting, 1x plug,
4x washers
Mod. **CNV-318-2**
CNV-318-3
CNV-318-4
CNV-318-5
CNV-318-6



Manifold bars with separate exhausts (high version)
The following is supplied:
2x feet, 1x manifold,
1x inlet fitting, 1x plug,
4x washers
Mod. **CNV-328-2**
CNV-328-3
CNV-328-4
CNV-328-5
CNV-328-6



Initial / final Module with three positions
The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
9x interface seals valve/manifold (CNVL-3H3)
or 3x interface seals valve/manif. (CNVL-4H3),
6x fixing screws for valves
Mod. **CNVL-3H3**
CNVL-4H3



Initial / final Module with 2 positions
Initial module with 2 positions
The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
6x interface seals valve/manifold (CNVL-3H2)
or 2x interface seals valve/manif. (CNVL-4H2),
4x fixing screws for valves
Mod. **CNVL-3H2**
CNVL-4H2



Intermediate module with 3 positions
The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
9x interface seals valve/manifold (CNVL-3I3)
or 3x interface seals valve/manif. (CNVL-4I3),
6x fixing screws for valves
Mod. **CNVL-3I3**
CNVL-4I3



Intermediate module with 2 positions
The following is supplied:
3x interface O-Rings manifold/manifold;
2x fixing nuts,
2x junction plugs,
6x interface seals valve/manifold (CNVL-3I2)
or 2x interface seals valve/manif. (CNVL-4I2),
4x fixing screws for valves
Mod. **CNVL-3I2**
CNVL-4I2



Intermediate module with 1 position
The following is supplied:
3x interface O-Rings manifold/manifold,
2x fixing nuts,
2x junction plugs,
3x interface seals valve/manifold (CNVL-3I1)
or 1x interface seal valve/manif. (CNVL-4I1),
2x fixing screws for valves
Mod. **CNVL-3I1**
CNVL-4I1



Terminal module
The following is supplied:
2x fixing nuts
Mod. **CNVL-3H**
CNVL-4H



Interface module manifold between Series 3 G1/8 and G1/4
The following is supplied:
3x interface seal,
2x screws,
2x pins,
4x plugs,
6x O-Rings
Mod. **CNVL-4H-3H**



Intermediate plate for additional inlet and exhaust pressure
The following is supplied:
3x O-Rings,
2x fixing screws
Mod. **CNVL-3H**
CNVL-4H



Separation diaphragm
For separation of channel: 1 - 3 - 5.
The following is supplied:
1x diaphragm
Mod. **CNVL-3H-TP** for Series 3, G1/8
CNVL-4H-TP for Series 3, G1/4



Blanking plug for TCNVL manifolds
The following is supplied:
1x blanking plug,
1x O-Ring
Mod. **TCNVL/3** for Series 3, G1/8
TCNVL/5 for Series 3, G1/4



Blanking plate
Accessory for Series CNVL manifolds
The following is supplied:
2x fixing screws,
3x O-Rings
Mod. **CNVL/1**
CNVL/4

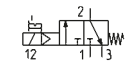


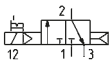
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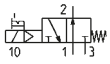
Series 4 valves and solenoid valves

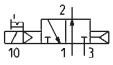
3/2-way, 5/2-way, 5/3-way CC CO
Ports: G1/8, G1/4, G1/2



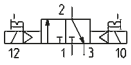

Mod. **438-015-22**


Mod. **438-016-22**

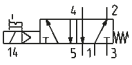

Mod. **448-015-22**

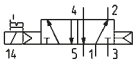

Mod. **448-016-22**



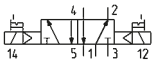

Mod. **438-011-22**



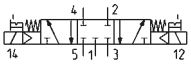

Mod. **458-015-22**

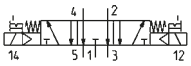

Mod. **458-016-22**



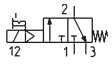

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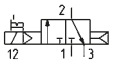


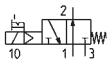

Mod. **468-011-22**

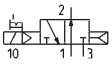

Mod. **478-011-22**



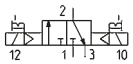

Mod. **434-015-22**


Mod. **434-016-22**

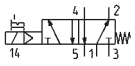

Mod. **444-015-22**

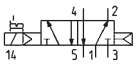

Mod. **444-016-22**



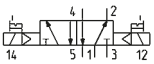

Mod. **434-011-22**




Mod. **454-015-22**

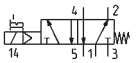

Mod. **454-016-22**



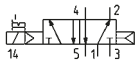

Mod. **454-011-22**

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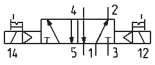


Mod. **454-V15-22**



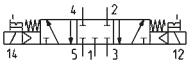
Mod. **454-V16-22**



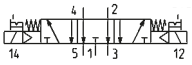


Mod. **454-V11-22**



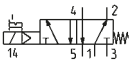


Mod. **464-011-22**

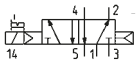


Mod. **474-011-22**





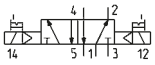
Mod. **452C-015-50-A6***



Mod. **452C-016-50-A6***

* = choose the most suitable solenoid
(see the coding example)

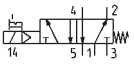




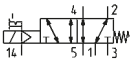
Mod. **452C-011-50-A6***

* = choose the most suitable solenoid
(see the coding example)

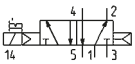




Mod. **452N-015-22**

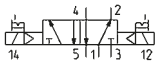


Mod. **452N-016-22**

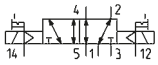


Mod. **452N-E15-22**

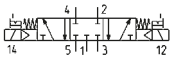




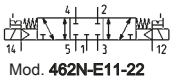
Mod. **452N-011-22**



Mod. **452N-E11-22**



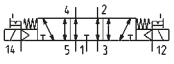
Mod. **462N-011-22**



Mod. **462N-E11-22**



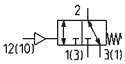
Mod. **472N-011-22**



Mod. **472N-E11-22**

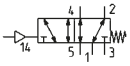






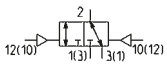
Mod. **438-35**



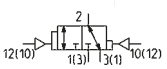


Mod. **458-35**



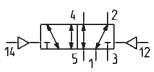


Mod. **438-33**



Mod. **438-34**



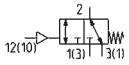


Mod. **458-33**



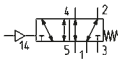
Mod. **458-34**





Mod. **434-35**





Mod. **454-35**



Mod. **434-33**

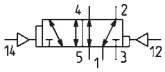
Mod. **434-34**

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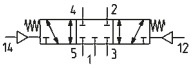


Mod. **454-33**



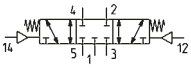
Mod. **454-34**



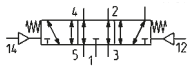


Mod. **468-33**



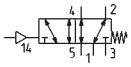


Mod. **484-33**

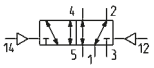


Mod. **474-33**

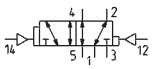




Mod. **452C-35**

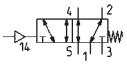


Mod. **452C-33**



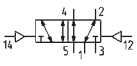
Mod. **452C-34**





Mod. **452N-35**





Mod. **452N-33**

CODING EXAMPLE

4	5	4	-	015	-	22	-	U7	7	

4 SERIES

5 NUMBER OF WAYS - POSITIONS:
3 = 3/2 NC
4 = 3/2 NO
5 = 5/2
6 = 5/3 CC
7 = 5/3 CO

4 PORTS:
8 = G1/8 - 4 = G1/4 - 2C = G1/2 - 2N = G1/2 (high flow)

015 ACTUATION:
011 = double solenoid (horizontal solenoids)
V11 = double solenoid (vertical solenoids) for G1/4 port only
E11 = double solenoid external servo-command
E15 = single solenoid external servo-command
015 = single solenoid, spring return (horizontal solenoids)
V15 = single solenoid, spring return (vertical solenoid) for G1/4 port only
016 = single solenoid, pneumatic spring return (horizontal solenoid)
V16 = single solenoid, pneumatic spring return (vertical solenoid) for G1/4 port only
33 = pneumatic pneumatic
34 = pneumatic differential
35 = pneumatic spring

22 SOLENOID INTERFACE::
22 = mech. sol. 22 x 22
50 = mech. sol. 32 x 32 (G1/2 only)

U7 SOLENOID MATERIAL / DIMENSIONS:
A6 = PPS / 32 x 32 (G1/2 only)
A8 = PPS / 30 x 30
G7 = PA / 22 x 22
G8 = PA / 30 x 30 (24 V DC only)
G9 = PA / 22 x 58
H8 = PA 6 V0 / 30 x 30
U7 = PET / 22 x 22

7 SOLENOID VOLTAGE:

		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-
	12V DC	3,1W	3,1W	-	-	-
K	72V DC	4,8W	4,8W	-	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-
K1*	72V DC	5,6W	5,6W	-	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	-

		U7**	G7**	A8**	H8**	G9**
1	6V DC	5,1W	5,1W	-	-	-
2	12V DC	5W	5W	-	-	-
3	24V DC	5W	5W	4W	5,4W	4/2W
4	48V DC	5,3W	5,3W	4W	-	-
6	110V DC	4,2W	4,2W	-	-	-
7	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
71*	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
9	48V DC	3,1W	3,1W	-	-	-
10	110V DC	3,2W	3,2W	-	-	-

* = only for valve models NO in line
** = substitute 0 with letter or number at the beginning of the line

TYPE OF MANUAL OVERRIDE:
= bistable, standard
IL = bistable, lever type (available on demand)
IM = monostable (available on demand)

Accessories

Manifold base with common exhausts
For valves Series 4, G1/8 (3/2, 5/2 or 5/3-way)
The following is supplied with:
1x manifold,
1x pair of fixing screws for valve position,
1x interface seal for valve positions,
2x guides for valve position
Mod. **CNVL-42**
CNVL-43
CNVL-44
CNVL-45
CNVL-46



Manifold base with common exhausts
For valves Series 4, G1/4 (3/2, 5/2 or 5/3-way)
The following is supplied:
1x manifold,
1x pair of fixing screws for valve position,
1x interface seal for valve positions,
2x guides for valve position
Mod. **CNVL-52**
CNVL-53
CNVL-54
CNVL-55
CNVL-56



Blanking plate
The following is supplied:
2x fixing screws,
3x O-Rings
Mod. **CNVL/2** for Series 4, G1/8
CNVL/3 for Series 4, G1/8



Blanking plug
Accessory for Series CNVL manifolds
The following is supplied:
1x blanking plug,
1x O-Ring
Mod. **TCNVL/3** for Series 4, G1/8
TCNVL/5 for Series 4, G1/8



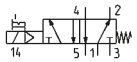
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Series 9 valves and solenoid valves

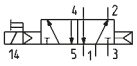
5/2-way, 5/3-way CC CO
Ports: G1/4 (size 1), G3/8 (size 2), G1/2 (size 3)
According to the standard ISO 5599/1



* = size ISO



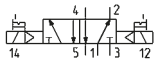
Mod. **95*-000-P15-23**



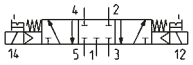
Mod. **95*-000-P16-23**



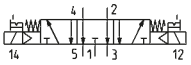
* = size ISO



Mod. **95*-000-P11-23**



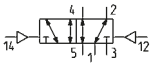
Mod. **96*-000-P11-23**



Mod. **97*-000-P11-23**



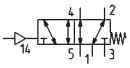
* = size ISO



Mod. **95*-000-33**



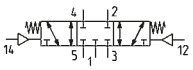
Mod. **95*-000-34**



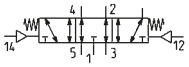
Mod. **95*-000-35**



* = size ISO



Mod. **96*-000-33**



Mod. **97*-000-33**

CODING EXAMPLE

9	5	1	-	000	-	P16	-	23	-	U7	7

9 SERIES

5 NUMBER OF WAYS - POSITIONS:
5 = 5/2
6 = 5/3 CC
7 = 5/3 CO

1 SIZE:
1 = size 1
2 = size 2
3 = size 3

000 BODY DESIGN:
000 = valve body

P 16 ACTUATION:
33 = pneumatic, pneumatic return - 34 = pneumatic, differential pneumatic return
35 = pneumatic, mechanical spring return - P11 = double solenoid (horizontal solenoids)
P15 = single solenoid, spring return (horizontal solenoids) - P16 = solenoid, pneumatic spring return (horizontal solenoids)

23 SOLENOID INTERFACE:
23 = A531 - BC2 Cnomo norm

U7 SOLENOID MATERIAL / SOLENOID DIMENSIONS:
A8 = PPS / 30 x 30
G7 = PA / 22 x 22
G8 = PA / 30 x 30 (24 V DC only)
G9 = PA / 22 x 58
H8 = PA 6 V0 / 30 x 30
U7 = PET / 22 x 22

7 SOLENOID VOLTAGE:

		U7**	G7**	A8**	H8**	G9**
B	24V AC 50/60Hz	-	-	5VA	5,3VA	-
C	48V AC 50/60Hz	-	-	-	5,3VA	-
D	110V AC 50/60Hz	-	-	5VA	5,3VA	-
E	230V AC 50/60Hz	-	-	5VA	5,3VA	-
F	380V AC 50/60Hz	7VA	7VA	-	-	-
H	24V 50/60Hz	3,5VA	3,5VA	-	-	-
	12V DC	3,1W	3,1W	-	-	-
K	72V DC	4,8W	4,8W	-	-	-
	110V AC 50/60Hz	3,8VA	3,8VA	-	-	-
	125V AC 50/60Hz	5,5VA	5,5VA	-	-	-
K1*	72V DC	5,6W	5,6W	-	-	-
	110V AC 50/60Hz	5,8VA	5,8VA	-	-	-
	125V AC 50/60Hz	8,3VA	8,3VA	-	-	-
J	230V AC 50/60Hz	3,5VA	3,5VA	-	-	-
	240V AC 50/60Hz	4VA	4VA	-	-	
-						

		U7**	G7**	A8**	H8**	G9**
1	6V DC	5,1W	5,1W	-	-	-
2	12V DC	5W	5W	-	-	-
3	24V DC	5W	5W	4W	5,4W	4/2W
4	48V DC	5,3W	5,3W	4W	-	-
6	110V DC	4,2W	4,2W	-	-	-
7	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
71*	24V DC	3,1W	3,1W	-	-	-
	48V AC 50/60Hz	3,5VA	3,5VA	-	-	-
9	48V DC	3,1W	3,1W	-	-	-
10	110V DC	3,2W	3,2W	-	-	-

* = Only for valve models NO in line
** = Substitute 0 with letter or number at the beginning of the line

Accessories

Single sub-base side outlets
(VDMA 24345)
Mod. **901-F1A**
902-F2A
903-F3A



Single sub-base with rear outlets
(VDMA 24345)
Mod. **901-G1A**
902-G2A
903-G3A



Manifold sub-base with com. exhausts and inlet
(VDMA 24345)
The following is supplied:
2x fixing screws,
3x O-ring
Mod. **901-C1A**
902-C2A
903-C3A



End block for manifold sub-base
(VDMA 24345)
The following is supplied:
2x end blocks (1 pair),
2x fixing screws,
3x OR
Mod. **901-H1**
902-H2
903-H3



Interface with front outlets
(VDMA 24345)
The following is supplied:
2x fixing screws,
2x OR
Mod. **901-N1**
902-N2
903-N3



End blocks for manifold bases
with front outlets
The following is supplied:
2x end blocks (1 pair),
2x fixing screws,
3x OR
Mod. **901-HN1**



Manifold bases with common inlet
and exhaust ports and front outlet
The following is supplied:
2x fixing screws,
3x OR
Mod. **901-N1A**



Mounting example
Separation tap lines 1 - 3 - 5
to be used with manifold
type 901-C1A and 902-C2A
Mod. **901-C1A/TP**
902-C2A/TP



Separation joint
To be used with manifold type 901N
1 - 3 - 5 closed
Mod. **901-N1A/T**



Separation joint
To be used with manifold type 901N
1 closed
Mod. **901-N1A/TP**



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