

Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
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Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

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Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
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Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35
Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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**Технические характеристики на
клапаны с резьбовым присоединением,
линейные пневматические клапаны M/49,
V04, V03, V05, V50, V51, V52, V53, V60, V61,
V62, V63, M/48
компании IMI NORGREN**

- > **Sub-base mounted and manifold mounted – compact and convenient**
- > **Screwdriver manual override as standard**
- > **Removable encapsulated coils**
- > **Exhaust diffuser supplied as standard**



Technical features

Medium:

Compressed air, filtered, lubricated and non lubricated

Operation:

Poppet valve, directly actuated spring return

Mounting:

Sub-base mounted or manifold

Port sizes:

M5 or G1/8

Operating pressure:

0 ... 10 bar (0 ... 145 psi)

Fluid/Ambient temperature:

-20 ... +50°C (-4 ... +122°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Coil: glass reinforced thermo plastic

Manual override base: glass reinforced PA

Armature: stainless iron

Sub-base: aluminium

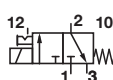
Seals: NBR

Tube & spring: stainless steel

Electrical details for solenoid operators

Voltage tolerance	± 10%
Rating	100% continuous duty
Inlet orifice	1,0 mm or 1,6 mm
Electrical connection	Industrial Standard, 22 mm
Solenoid coil mounting	Four positions x 90°
Manual override	Push and turn to lock (plastic)
Protection class	IP 65 (with sealed plug)

Technical data - standard models

Symbol	Port size	Orifice (mm)	Actuation/return	Mounting	Flow (l/min)	Operating pressure (bar) (psi)		Weight (kg) (lbs)	Drawing No.	Model *1)
	M5	1,0	Solenoid/spring	Single	30	0 ... 10	0 ... 145	0,12 0,26	1	M/48/MAZ*
	M5	1,0	Solenoid/spring	Manifold	30	0 ... 10	0 ... 145	0,3 ... 0,9 0,6 ... 2	2	DM/48/MAZ*/T#
	G1/8	1,0	Solenoid/spring	Single	30	0 ... 10	0 ... 145	0,12 0,26	1	M/49/MAZ*
	G1/8	1,0	Solenoid/spring	Manifold	30	0 ... 10	0 ... 145	0,3 ... 0,9 0,6 ... 2	2	DM/49/MAZ*/T#
	M5	1,6	Solenoid/spring	Single	77	0 ... 10	0 ... 145	0,12 0,26	1	M/48/MDZ*
	M5	1,6	Solenoid/spring	Manifold	77	0 ... 10	0 ... 145	0,3 ... 0,9 0,6 ... 2	2	DM/48/MDZ*/T#
	G1/8	1,6	Solenoid/spring	Single	77	0 ... 10	0 ... 145	0,12 0,26	1	M/49/MDZ*
	G1/8	1,6	Solenoid/spring	Manifold	77	0 ... 10	0 ... 145	0,3 ... 0,9 0,6 ... 2	2	DM/49/MDZ*/T#

* Insert voltage codes from table below.

*1) Connector plugs - ordered separately

Add number of valves in manifold up to 6 maximum.

Voltage codes and spare coils

22 mm coil - 1,0 mm orifice (low power) for connector interface acc. to industrial standard

	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2 W	QM/48/12J/21	12J
	24 V d.c.	2 W	QM/48/13J/21	13J
	24 V 50/60 Hz	4/2,5 VA	QM/48/14J/21	14J
	48 V 50/60 Hz	4/2,5 VA	QM/48/16J/21	16J
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J
	220/240 V 50/60 Hz	6/5,0 VA	QM/48/19J/21	19J

22 mm coil - 1,6 mm orifice for connector interface acc. to industrial standard

	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	7,5 W	QM/48/82J/21	82J
	24 V d.c.	6 W	QM/48/83J/21	83J
	24 V 50/60 Hz	12/8 VA	QM/48/84J/21	84J
	48 V 50/60 Hz	12/8 VA	QM/48/86J/21	86J
	110/120 V 50/60 Hz	12/8 VA	QM/48/88J/21	88J
	220/240 V 50/60 Hz	12/8 VA	QM/48/89J/21	89J

Connector plugs - ordered separately

Industrial standard 22 mm
2-pole + PE



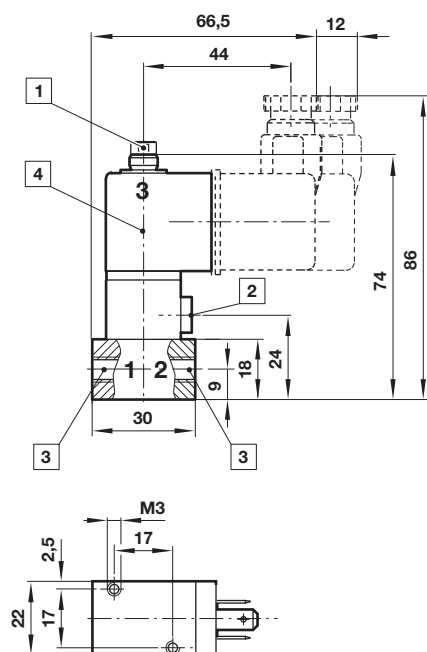
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Drawings

Dimensions in mm
Projection/First angle

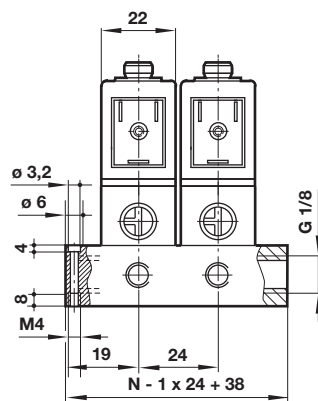


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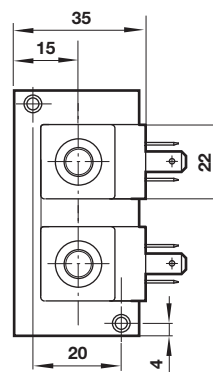
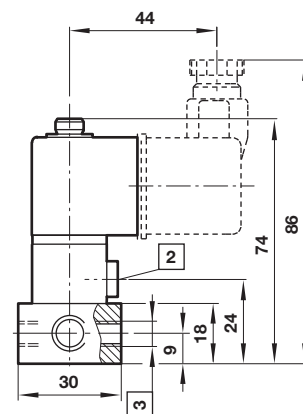


- 1 Exhaust port (M5) with diffuser
- 2 Screwdriver manual override
- 3 Port size M/48 (DM/48) – M5; M/49 (DM/49) – G1/8
- 4 Four positions x 90°

2



N = number of stations



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under

»Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI NORGREN.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

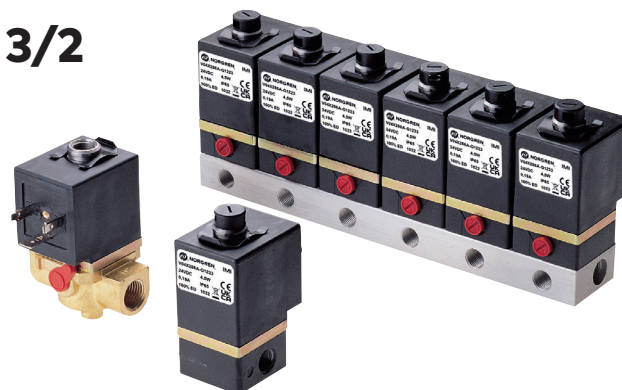
The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

V03, V04, V05 (EXCEL32) 2/2 & 3/2 Direct solenoid actuated poppet valves

- > Port size: G1/8, G1/4
- > Extensive range of power and orifice size options
- > Compact installation
- > Removeable coil
- > Standard exhaust diffuser
- > Choice of manual override



Technical features

Medium:

Compressed air, filtered, lubricated and non lubricated

Operation:

Poppet valve, directly actuated spring return

Operating pressure:

16 bar (232 psi) maximum
Details see table below

Port sizes:

G 1/8, G 1/4 single valve
G 1/8 (on sub-base mounted)

Ambient/Media temperature:

-20 ... +50°C (-4 ... +122°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

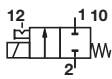
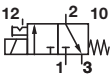
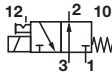
Coil: glass reinforced PA
Armature: stainless iron
Tube & spring: stainless steel
Base: zinc alloy (G1/8)
brass (G1/4), glass reinforced polyester (interface)
Seals: NBR (FPM)

Electrical details for solenoid operators

Voltage tolerance:	±10%	
Rating:	100% E.D.	
Power consumption:	Excel V03	d.c. 1,0 W
	Excel V04	d.c. 4,5 W
	Excel V05	d.c. 9,0 W
Inrush/hold:	Excel V03 & V04	a.c. 14/10 VA
	Excel V05	a.c. 27/20 VA

Electrical connection:	3 pin plug (DIN 43 650 Form A) Coil may be rotated at 90° intervals	
Manual override:	G1/8	Screwdriver operated, memory type standard
	G1/4	Lever operated memory type standard
	Interface	Screwdriver operated, memory type standard
Protection class:	IP 65 acc. to DIN EN 175 301-803 (DIN 40 050) with terminal box fitted	

Technical data - standard models

Symbol	Port size	Orifice (mm)	Actuation/return	Flow (l/min)	Operating pressure (bar) (psi)		Weight (kg) (lbs)		Drawing No.	Model
	Flange	1	Solenoid/Spring	25	0 ... 10	0 ... 145	0,20	0,44	1	V03X286J-B613A*1)
	G1/8	1	Solenoid/Spring	30	0 ... 10	0 ... 145	0,24	0,52	2	V03A286J-B613A*1)
	Flange	2,5	Solenoid/Spring	150	0 ... 10	0 ... 145	0,20	0,44	1	V04X286M-B62*A
	G1/8	2,5	Solenoid/Spring	190	0 ... 10	0 ... 145	0,24	0,52	2	V04A286M-B62*A
	G1/4	2,5	Solenoid/Spring	190	0 ... 10	0 ... 145	0,32	0,70	3	V04B286M-B42*A
	G1/4	3	Solenoid/Spring	260	0 ... 7	0 ... 101	0,32	0,70	3	V04B286N-B42*A
	Flange	2,5	Solenoid/Spring	150	0 ... 16	0 ... 232	0,20	0,44	1	V05X286M-B63*A
	G1/8	2,5	Solenoid/Spring	190	0 ... 16	0 ... 232	0,24	0,52	2	V05A286M-B63*A
	G1/4	2,5	Solenoid/Spring	190	0 ... 16	0 ... 232	0,32	0,70	3	V05B286M-B43*A
	Flange	1	Solenoid/Spring	25	0 ... 10	0 ... 145	0,20	0,44	1	V03X486J-B613A*1)
	G1/8	1	Solenoid/Spring	30	0 ... 10	0 ... 145	0,24	0,52	2	V03A486J-B613A*1)
	Flange	2	Solenoid/Spring	95	0 ... 10	0 ... 145	0,20	0,44	1	V04X486L-B62*A
	G1/8	2	Solenoid/Spring	120	0 ... 10	0 ... 145	0,24	0,52	2	V04A486L-B62*A
	Flange	2,5	Solenoid/Spring	150	0 ... 10	0 ... 145	0,20	0,44	1	V05X486M-B63*A
	G1/8	2,5	Solenoid/Spring	190	0 ... 10	0 ... 145	0,24	0,52	2	V05A486M-B63*A
	Flange	2	Solenoid/Spring	95	0 ... 10	0 ... 145	0,20	0,44	1	V04X386L-B62*A
	G1/8	2	Solenoid/Spring	120	0 ... 10	0 ... 145	0,24	0,52	2	V04A386L-B62*A
	Flange	2,5	Solenoid/Spring	150	0 ... 10	0 ... 145	0,20	0,44	1	V05X386M-B63*A
	G1/8	2,5	Solenoid/Spring	190	0 ... 10	0 ... 145	0,24	0,52	2	V05A386M-B63*A

* Insert voltage codes from table on page 2.

*1) V03 models are available with 24 V d.c. coil only. Spare coil part no. V03X286A-Q1213.

All models are available without manual override. Change 11th digit to 1 eg. V04A486L-B12*A.

Other orifices are available. Contact our Technical Service for details. Service kits are not available for these valves. Order connector plugs separately.

Option selector

Series	Substitute
V03	3
V04	4
V05	5
Port size/base	Substitute
Interface	X
G1/8	A
G1/4	B
Function	Substitute
2/2 NC	2
3/2 NO	3
3/2 NC	4
Orifice (mm)	Substitute
1 (Interface only)	J
1,5 (Interface and G1/8 only)	K
2 (all versions)	L
2,5 (all versions)	M
3 (G1/4 only)	N

V0***86*-B***

Connector	Substitute
Without (standard)	A
With	B
Voltage	Substitute
12 V d.c. (V04 & V05 only)	2
24 V d.c. (V03, V04 & V05)	3
24 V a.c. (V04 & V05 only)	4
48 V d.c. (V04 & V05 only)	5
48 V a.c. (V04 & V05 only)	6
110 V d.c. (V04 & V05 only)	7
110 V a.c. (V04 & V05 only)	8
240 V a.c. (V04 & V05 only)	9
Power	Substitute
1 W (V03)	1
4,5 W (V04)	2
9 W (V05)	3
Manual override	Substitute
Without	1
Push button (push to operate spring return) Not available for G1/8 and G1/4	3
Lever	4
Push to turn (Screwdriver) Not available for G1/4	6

Note: This table should be used for identification purposes only and not to build up model variants.

Option selector Pneumatics only

Series	Substitute
V03	3
V04	4
V05	5
Port size/base	Substitute
Interface	X
G1/8	A
G1/4	B
Function	Substitute
2/2 NC	2
3/2 NO	3
3/2 NC	4
Orifice (mm)	Substitute
1 (Interface only)	J
1,5 (Interface and G1/8 only)	K
2 (all versions)	L
2,5 (all versions)	M
3 (G1/4 only)	N

V0***86*-Q11**

Connector	Substitute
Without (standard)	A
With	B
Manual override	Substitute
Without	1
Push button (push to operate spring return) Not available for G1/8 and G1/4	3
Lever	4
Push to turn (Screwdriver) Not available for G1/4	6

Note: This table should be used for identification purposes only and not to build up model variants.

Valve and base options

Series	Interface mounted valve	G1/8 Valve	G1/4 Valve
V03	V03X	V03A	V03B
V04	V04X	V04A	V04B
V05	V05X	V05A	V05B

Voltage codes - V04 series

30 mm coil for connector interface acc. EN 175 301-803, form A				
	Voltage	Power consumption Inrush/Hold	Model	Code
	12 V d.c.	4,5 W	V04X286A-Q1222	2
	24 V d.c.	4,5 W	V04X286A-Q1223	3
	48 V d.c.	4,5 W	V04X286A-Q1225	5
	110 V d.c.	4,5 W	V04X286A-Q1227	7
	24 V 50/60 Hz	14/10 VA	V04X286A-Q1224	4
	48 V 50/60 Hz	14/10 VA	V04X286A-Q1226	6
	110 ...120 V 50/60 Hz	14/10 VA	V04X286A-Q1228	8
	220 ...240 V 50/60 Hz	14/10 VA	V04X286A-Q1229	9

Voltage codes - V05 series

30 mm coil for connector interface acc. EN 175 301-803, form A				
	Voltage	Power consumption Inrush/Hold	Model	Code
	12 V d.c.	9 W	V05X286A-Q1232	2
	24 V d.c.	9 W	V05X286A-Q1233	3
	48 V d.c.	9 W	V05X286A-Q1235	5
	110 V d.c.	9 W	V05X286A-Q1237	7
	24 V 50/60 Hz	27/20 VA	V05X286A-Q1234	4
	48 V 50/60 Hz	27/20 VA	V05X286A-Q1236	6
	110 ...120 V 50/60 Hz	27/20 VA	V05X286A-Q1238	8
	220 ...240 V 50/60 Hz	27/20 VA	V05X286A-Q1239	9

Connector plugs - ordered separately

30 mm, EN 175301-803
(DIN 43650 B) Form A
2-pole + PE



0570275

Interface valves, manifold only, manifold with valves

Series	Interface mounted Valve	Fixed length manifold only	Fixed length manifold with valves
V03	V03X	M/P35598/*2)	V03X..*3) 86..*4) -H613A..*2)
V04	V04X	M/P35598/*2)	V04X..*3) 86..*4) -H62*A..*2)
V05	V05X	M/P35598/*2)	V05X..*3) 86..*4) -H63*A..*2)

*2) Insert number of stations

*3) Insert function code

*4) Insert inlet orifice code

Interface mounted valves can be supplied pre-assembled on manifolds. Select the basic valve required and quote the associated manifold/valve assembly model using the table below:

Serie	Basic-Valve	Manifold valve
V03	V03X286J-B613A	V03X286J-H613A#
	V03X486J-B613A	V03X486J-H613A#
	V03X486K-B613A	V03X486K-H613A#
V04	V04X286K-B62*A	V04X286K-H62*A#
	V04X286L-B62*A	V04X286L-H62*A#
	V04X286M-B62*A	V04X286M-H62*A#
	V04X486J-B62*A	V04X486J-H62*A#
	V04X486K-B62*A	V04X486K-H62*A#
	V04X486L-B62*A	V04X486L-H62*A#
	V04X486M-B62*A	V04X486M-H62*A#
V05	V05X286M-B61*A	V05X286M-H63*A#
	V05X486K-B61*A	V05X486K-H63*A#
	V05X486L-B61*A	V05X486L-H63*A#
	V05X486M-B61*A	V05X486M-H63*A#

* Insert voltage code # Insert number of stations (1 to 20 stations)

1 = 1 station, 2 = 2 stations etc., A = 10 stations, B = 11 stations

K = 19 stations, L = 20 stations

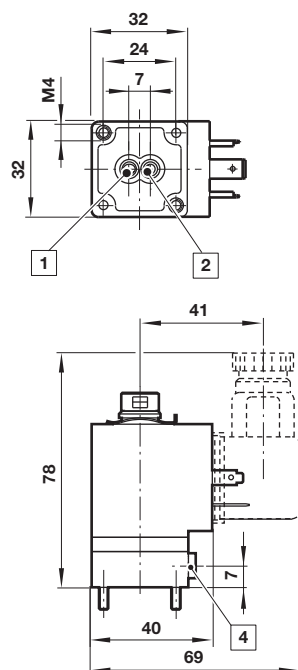
Old numbering reference bulletin

Old numbering	Description	Actual numbering
XL31021310/10P	2/2 N/C 2.5 G1/8 BASE SDMO 24VDC 4.5W	V04A286M-B623B
XL31021310/131P	2/2 N/C 2.5 G1/8 BASE SDMO 110VAC 10VA	V04A286M-B628B
XL31021310/81	2/2 N/C 2.5 G1/8 BASE SDMO 24VAC 10VA	V04A286M-B624A
XL32011011/10	3/2 N/C 1.0 I/F BASE SDMO 24VDC 4.5W	V04X486J-B623A
XL32011211/131P	3/2 N/C 2.0 I/F BASE SDMO 110VAC 10VA	V04X486L-B628B
XL32011211/81	3/2 N/C 2.0 I/F BASE SDMO 24VAC 10VA	V04X486L-B624A
XL32011311/10	3/2 N/C 2.5 I/F BASE SDMO 24VDC 4.5W	V04X486M-B623A
XL32013211/10	3/2 N/C 2.0 I/F BASE LEVER 24VDC 4.5W	V04X486L-B423A
XL32020211/10	3/2 N/C 2.0 G1/8 BASE NOMO 24VDC 4.5W	V04A486L-B123A
XL32020211/137	3/2 N/C 2.0 G1/8 BASE NOMO 230VAC 10VA	V04A486L-B129A
XL32021111/10	3/2 N/C 1.5 G1/8 BASE SDMO 24VDC 4.5W	V04A486K-B623A
XL32021211/131P	3/2 N/C 2.0 G1/8 BASE SDMO 110VAC 10VA	V04A486L-B628B
XL32021211/137P	3/2 N/C 2.0 G1/8 BASE SDMO 230VAC 10VA	V04A486L-B629B
XL32030211/10	3/2 N/C 2.0 G1/4 BASE NOMO 24VDC 4.5W	V04B486L-B123A
XL32033211/10	3/2 N/C 2.0 G1/4 BASE LEVER 24VDC 4.5W	V04B486L-B423A
XL32033311/10P	3/2 N/C 2.5 G1/8 BASE LEVER 24VDC 4.5W	V04A486M-B423B
XL32041211/131	3/2 N/C 2.0 CNOMO BASE SDMO 110VAC 10VA	V04Y486L-B628A
XL32041311/10	3/2 N/C 2.5 CNOMO BASE SDMO 24VDC 4.5W	V04Y486M-B623A
XL33011310/10P	3/2 N/O 2.5 I/F BASE SDMO 24VDC 4.5W	V04X386M-B623B
XL33021210/81P	3/2 N/O 2.0 G1/8 BASE SDMO 24VAC 10VA	V04A386L-B624B
XL33023210/10	3/2 N/O 2.0 G1/8 BASE LEVER 24VDC 4.5W	V04A386L-B423A
XL33120310/10	3/2 N/O 2.5 G1/8 BASE NOMO 24VDC 4.5W	V04A386M-B123A
XL51021310/81	2/2 N/C 2.5 G1/8 BASE SDMO 24VAC 10VA	V05A286M-B634A
XL52010311/10	3/2 N/C 2.5 I/F BASE NOMO 24VDC 9.0W	V05X486M-B133A
XL52011211/16	3/2 N/C 2.0 I/F BASE SDMO 12VDC 9.0W	V05X486L-B632A
XL52011311/131	3/2 N/C 2.5 I/F BASE SDMO 110VAC 20VA	V05X486M-B638A
XL52013311/10P	3/2 N/C 2.5 I/F BASE LEVER 24VDC 9W	V05X486M-B433B
XL52021211/10P	3/2 N/C 2.0 G1/8 BASE SDMO 24VDC 9.0W	V05A486L-B633B
XL52021311/16	3/2 N/C 2.5 G1/8 BASE SDMO 12VDC 9.0W	V05A486M-B632A
XL52021311/61	3/2 N/C 2.5 G1/8 BASE SDMO 48VDC 4.5W	V05A486M-B636A
XL52023211/10	3/2 N/C 2.0 G1/8 BASE LEVER 24VDC 9.0W	V05A486L-B433A
XL52033211/131	3/2 N/C 2.0 G1/4 BASE LEVER 110VAC 20VA	V05B486L-B438A
XL52033311/131	3/2 N/C 2.5 G1/4 BASE LEVER 110VAC 20VA	V05B486M-B438A
XL52111311/137	3/2 N/C 2.5 I/F BASE SDMO 230VAC 20VA	V05X486M-B639A
XL53011210/10	3/2 N/O 2.0 I/F BASE SDMO 24VDC 9.0W	V05X386L-B633A
XL53011310/137	3/2 N/O 2.5 I/F BASE SDMO 230VAC 20VA	V05X386M-B639A
XL53023310/137	3/2 N/O 2.5 G1/8 BASE LEVER 230VAC 20VA	V05A386M-B439A
XL53033310/10	3/2 N/O 2.5 G1/4 BASE LEVER 24VDC 9.0W	V05B386M-B433A

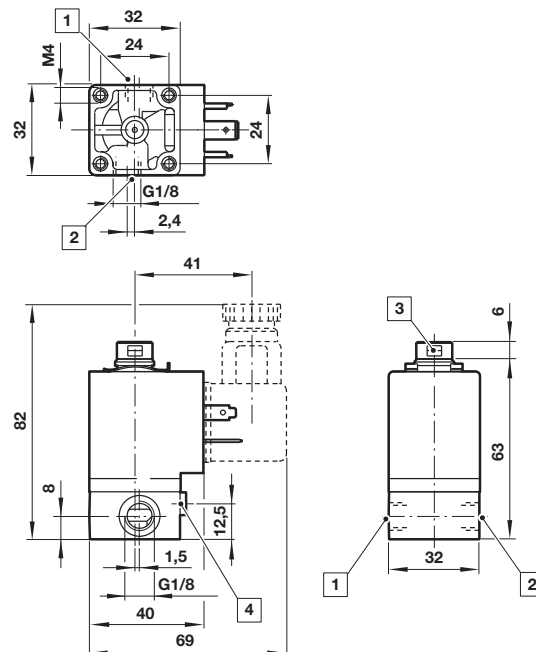
Drawings

V03X, V04X and V05X models Interface mounted valves

1

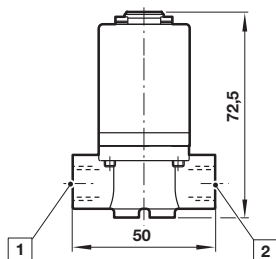
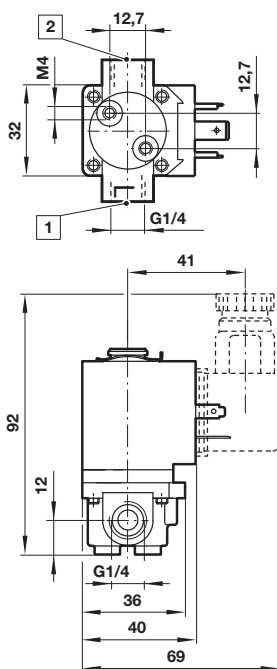


2



V03B, V04B and V05B models G1/4 valves

3



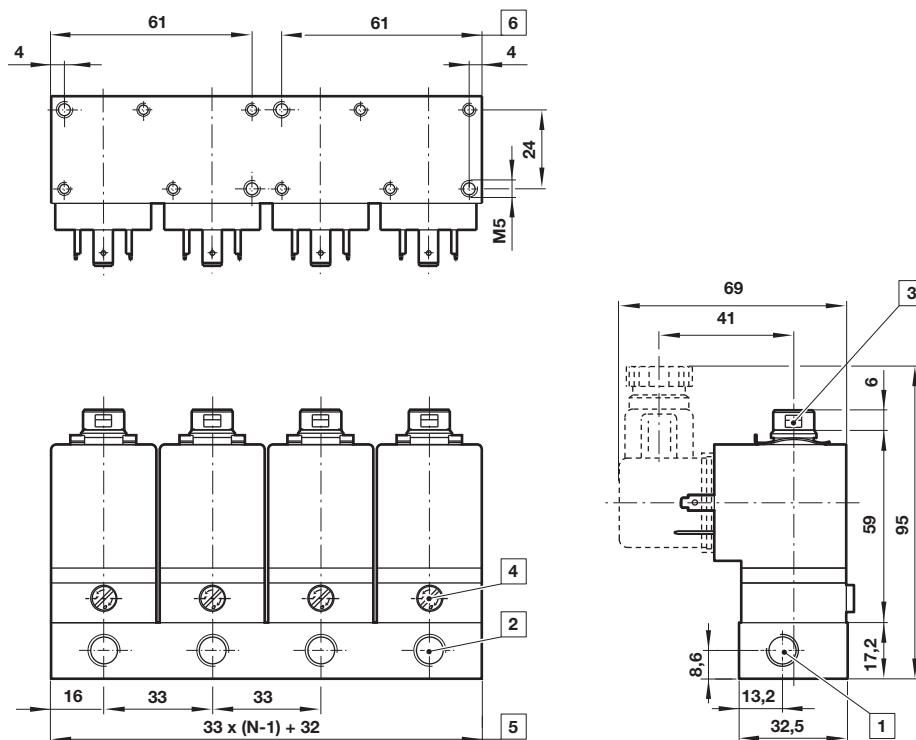
Dimensions in mm
Projection/First angle



- 1 Inlet port
- 2 Outlet port
- 3 Port 3 (G1/8) with inserted diffuser
- 4 Manual override

Manifold M/P35598/*

Dimensions in mm
Projection/First angle



- 1** Inlet port, G1/8 x 10 deep
- 2** Outlet port, G1/8 x 9,5 deep
- 3** Port 3 (G1/8) with inserted diffuser
- 4** Manual override
- 5** N = number of stations
- 6** Two additional threads with five or more stations

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

V50 ... V53 Series, 3/2, 5/2 or 5/3 Solenoid actuated and pilot operated spool valve



- > Port size: 1/8 ... 1/2 (ISO G/NPT)
- > High flow in-line valves
- > Compact and robust design
- > Low power energy efficient solenoids
- > Flexible in-line and manifold mounting options



Technical features

Medium:

Compressed air, filtered (40 µm) lubricated or non lubricated

Operation:

Softseal spool valve, solenoid and pilot actuated

Port size:

1/8, 1/4, 3/8, 1/2

Mounting position:

In-line or sub-base

Operating pressure:

Details of minimum and maximum pressure see overleaf.

Flow:

See tables overleaf

Ambient/Media temperature:

Pilot models:

-5°C ... +60°C (+23 ... +140 °F)

Solenoid models:

-5°C ... +50°C (+23 ... +122 °F);

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35 °F).

Materials:

Body/sub-base: die-cast aluminium alloy or aluminium alloy, white painted

Softseal spool: NBR/aluminium alloy

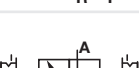
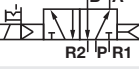
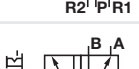
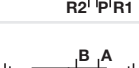
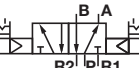
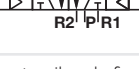
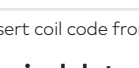
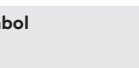
Mounting sheets/screws: steel

Springs: stainless steel

Electrical details for solenoid operators

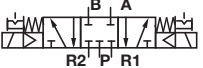
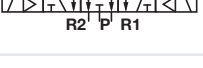
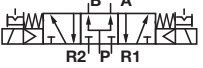
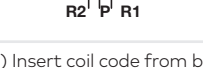
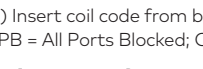
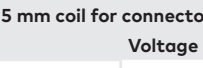
Voltage tolerance	± 10%
Rating	100% continuous duty
Inlet orifice	0,6 mm; V50
	0,8 mm; V51 ... V53
Electrical connection (corresponding to choosen coil)	EN 175301-803 - Form C; 15 mm; V50
	Industrial Standard; 22 mm; V51 ... V53
Solenoid coil mounting	Four positions x 90°
Manual override	Push and turn to lock (plastic)
Protection class	IP 65 (with sealed plug)

Technical data, 3/2 and 5/2 way valves, solenoid actuated, standard models

Symbol	Function	Port size	Actuation/return	Pilot supply	Operating pressure (bar)	Flow (l/min)	Manual override	Weight (kg)	Drawing No.	Model *1)
	3/2	G1/8	Solenoid/air	Internal	2 ... 8	480	Push & turn	0,120	1	V50A413A-A2
	3/2	G1/4	Solenoid/spring	Internal	2 ... 8	1020	Push & turn	0,203	2	V51B417A-A2
	3/2	G3/8	Solenoid/spring	Internal	2 ... 8	1705	Push & turn	0,350	2	V52C417A-A2
	3/2	G1/2	Solenoid/spring	Internal	2 ... 8	2480	Push & turn	0,353	2	V53D417A-A2
	3/2	G1/8	Solenoid/solenoid	Internal	2 ... 8	480	Push & turn	0,172	3	V50A411A-A2
	3/2	G1/4	Solenoid/solenoid	Internal	2 ... 8	1020	Push & turn	0,296	4	V51B411A-A2
	3/2	G3/8	Solenoid/solenoid	Internal	2 ... 8	1705	Push & turn	0,439	4	V52C411A-A2
	3/2	G1/2	Solenoid/solenoid	Internal	2 ... 8	2480	Push & turn	0,437	4	V53D411A-A2
	5/2	G1/8	Solenoid/air	Internal	2 ... 8	480	Push & turn	0,124	5	V50A513A-A2
	5/2	G1/4	Solenoid/spring	Internal	2 ... 8	1020	Push & turn	0,184	6	V51B517A-A2
	5/2	G3/8	Solenoid/spring	Internal	2 ... 8	1705	Push & turn	0,293	6	V52C517A-A2
	5/2	G1/2	Solenoid/spring	Internal	2 ... 8	2480	Push & turn	0,303	6	V53D517A-A2
	5/2	G1/8	Solenoid/solenoid	Internal	2 ... 8	480	Push & turn	0,176	7	V50A511A-A2
	5/2	G1/4	Solenoid/solenoid	Internal	2 ... 8	1020	Push & turn	0,292	8	V51B511A-A2
	5/2	G3/8	Solenoid/solenoid	Internal	2 ... 8	1705	Push & turn	0,452	8	V52C511A-A2
	5/2	G1/2	Solenoid/solenoid	Internal	2 ... 8	2480	Push & turn	0,190	8	V53D511A-A2

*1) Insert coil code from below tables.

Technical data, 5/3 way valves, solenoid actuated, standard models

Symbol	Function	Port size	Mid position	Actuation/return	Pilot supply	Operating pressure (bar)	Flow (l/min)	Manual override	Weight (kg)	Drawing No.	Model *1)
	5/3	G1/8	APB	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A611A-A2
	5/3	G1/4	APB	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B611A-A2
	5/3	G3/8	APB	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C611A-A2
	5/3	G1/2	APB	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D611A-A2
	5/3	G1/8	COE	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A711A-A2
	5/3	G1/4	COE	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B711A-A2
	5/3	G3/8	COE	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C711A-A2
	5/3	G1/2	COE	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D711A-A2
	5/3	G1/8	COP	Solenoid/solenoid	Internal	3 ... 8	270	Push & turn	0,338	9	V50A811A-A2
	5/3	G1/4	COP	Solenoid/solenoid	Internal	3 ... 8	755	Push & turn	0,387	10	V51B811A-A2
	5/3	G3/8	COP	Solenoid/solenoid	Internal	3 ... 8	1190	Push & turn	0,565	11	V52C811A-A2
	5/3	G1/2	COP	Solenoid/solenoid	Internal	3 ... 8	1910	Push & turn	0,634	11	V53D811A-A2

*1) Insert coil code from below tables.

APB = All Ports Blocked; COE = Centre Open Exhaust; COP = Centre Open Pressure

Voltage codes and spare coils

V50 series only

15 mm coil for connector interface acc. EN 175 301-803, form C				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2,9 W	V12958-A12	12A
	24 V d.c.	2,9 W	V12958-A13	13A
	110/120 V 50/60 Hz	3,7/3,1 VA	V12958-A18	18A
	220/240 V 50/60 Hz	3,7/3,1 VA	V12958-A19	19A

V51 ... V53 series

22 mm coil for connector interface acc. to industrial standard				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2 W	QM/48/12J/21	12J
	24 V d.c.	2 W	QM/48/13J/21	13J
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J
	220/240 V 50/60 Hz	6/5 VA	QM/48/19J/21	19J

Connector plugs - include of delivery

15 mm, EN 175301-803 (DIN 43650 B) Form C 2-pole + PE	Industrial standard 22 mm 2-pole + PE
	
V10027-D00	0657868

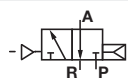
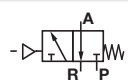
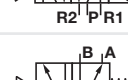
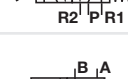
Option selector

V5★★★1★A-A2★★★

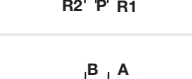
Thread size	Substitute
1/8"	0
1/4"	1
3/8"	2
1/2"	3
Thread	Substitute
G 1/8	A
G 1/4	B
G 3/8	C
G 1/2	D
NPT-Thread	Substitute
1/8 NPT	P
1/4 NPT	R
3/8 NPT	S
1/2 NPT	T

Voltage (Series V50)	Substitute
12 V d.c. 2,9 W	12A
24 V d.c. 2,9 W	13A
110/120 V a.c. (50/60 Hz) 3,7/3,1 VA	18A
220/240 V a.c. (50/60 Hz) 3,7/3,1 VA	19A
Voltage (Series V51 ... V53)	Substitute
12 V d.c. 2 W	12J
24 V d.c. 2 W	13J
110/120 V a.c. (50/60 Hz) 4/2,5 VA	18J
220/240 V a.c. (50/60 Hz) 6/5 VA	19J
Actuation	Substitute
Solenoid/air	3
Solenoid/spring	7
Solenoid/solenoid	1
Function	Substitute
3/2 Normally closed	4
5/2	5
5/3 All ports blocked	6
5/3 Centre open exhaust	7
5/3 Centre open pressure	8

Technical data, 3/2 or 5/2 way valves, pilot actuated, standard models

Symbol	Function	Port size	Pilot	Return	Operating pressure (bar)	Pilot pressure (bar)	Flow (l/min)	Weight (kg)	Drawing No.	Model
	3/2	G1/8	Air	Air spring	0 ... 8	1,5 ... 8	480	0,061	12	V50A4D3A-XA090
	3/2	G1/4	Air	Spring	0 ... 8	1,5 ... 8	1020	0,122	13	V51B4D7A-XA090
	3/2	G3/8	Air	Spring	0 ... 8	2 ... 8	1705	0,295	13	V52C4D7A-XA090
	3/2	G1/2	Air	Spring	0 ... 8	2 ... 8	2480	0,300	13	V53D4D7A-XA090
	3/2	G1/8	Air	Air	0 ... 8	1,5 ... 8	480	0,074	14	V50A4DDA-XA020
	3/2	G1/4	Air	Air	0 ... 8	1,5 ... 8	1020	0,134	15	V51B4DDA-XA020
	3/2	G3/8	Air	Air	0 ... 8	2 ... 8	1705	0,324	15	V52C4DDA-XA020
	3/2	G1/2	Air	Air	0 ... 8	2 ... 8	2480	0,326	15	V53D4DDA-XA020
	5/2	G1/8	Air	Air spring	0 ... 8	1,5 ... 8	480	0,071	16	V50A5D3A-XA090
	5/2	G1/4	Air	Spring	0 ... 8	1,5 ... 8	1020	0,106	17	V51B5D7A-XA090
	5/2	G3/8	Air	Spring	0 ... 8	2 ... 8	1705	0,236	17	V52C5D7A-XA090
	5/2	G1/2	Air	Spring	0 ... 8	2 ... 8	2480	0,275	17	V53D5D7A-XA090
	5/2	G1/8	Air	Air	0 ... 8	1,5 ... 8	480	0,084	18	V50A5DDA-XA020
	5/2	G1/4	Air	Air	0 ... 8	1,5 ... 8	1020	0,134	19	V51B5DDA-XA020
	5/2	G3/8	Air	Air	0 ... 8	2 ... 8	1705	0,236	19	V52C5DDA-XA020
	5/2	G1/2	Air	Air	0 ... 8	2 ... 8	2480	0,750	19	V53D5DDA-XA020

Technical data, 5/3 way valves, pilot actuated, standard models

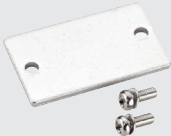
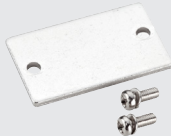
Symbol	Function	Port size	Pilot	Mid position	Return	Operating pressure (bar)	Pilot pressure (bar)	Flow (l/min)	Weight (kg)	Drawing No.	Model
	5/3	G1/8	Air	APB	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A6DDA-XA020
	5/3	G1/4	Air	APB	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B6DDA-XA020
	5/3	G3/8	Air	APB	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C6DDA-XA020
	5/3	G1/2	Air	APB	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D6DDA-XA020
	5/3	G1/8	Air	COE	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A7DDA-XA020
	5/3	G1/4	Air	COE	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B7DDA-XA020
	5/3	G3/8	Air	COE	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C7DDA-XA020
	5/3	G1/2	Air	COE	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D7DDA-XA020
	5/3	G1/8	Air	COP	Air	0 ... 8	1,5 ... 8	270	0,095	20	V50A8DDA-XA020
	5/3	G1/4	Air	COP	Air	0 ... 8	1,5 ... 8	755	0,179	21	V51B8DDA-XA020
	5/3	G3/8	Air	COP	Air	0 ... 8	2 ... 8	1190	0,301	22	V52C8DDA-XA020
	5/3	G1/2	Air	COP	Air	0 ... 8	2 ... 8	1910	0,338	22	V53D8DDA-XA020

APB = All Ports Blocked; COE = Centre Open Exhaust; COP = Centre Open Pressure

Option selector

Thread size		Substitute		Air function		Substitute	
1/8"		0		Pilot operated/pilot return		2	
1/4"		1		Pilot operated/spring return		9	
3/8"		2		Pilot port thread		Substitute	
1/2"		3		G 1/8		A	
Thread		Substitute		1/8 NPT		P	
G 1/8		A		Return		Substitute	
G 1/4		B		Air spring		3	
G 3/8		C		Spring		7	
G 1/2		D		Air		D	
NPT-Thread		Substitute		Function		Substitute	
1/8 NPT		P		3/2 Normally closed		4	
1/4 NPT		R		5/2		5	
3/8 NPT		S		5/3 All ports blocked		6	
1/2 NPT		T		5/3 Centre open exhaust		7	
				5/3 Centre open pressure		8	

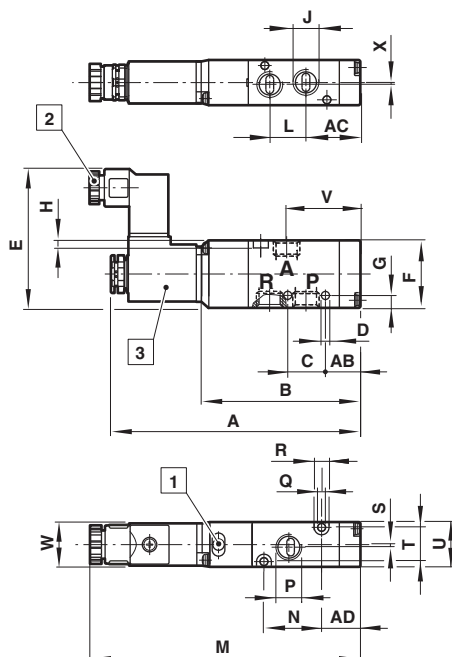
Manifold system and blanking plates

Manifold for 3 port valves			Blanking plate for 3 port valves		Manifold for 5 port valves		Blanking plate for 5 port valves	
For valve series								
	Page 14	Page 15	Page 14		Page 14		Page 15	
	ISO G thread	NPT thread	ISO G thread		ISO G thread		NPT thread	
	V50 (1/8")	V50A3*1)	V50P3*1)	V500351	V50A5*1)	V50P5*1)	V500551	V500551
	V51 (1/4")	V51B3*1)	V51R3*1)	V510351	V51B5*1)	V51R5*1)	V510551	V510551
V52 (3/8")	V52C3*1)	V52S3*1)	V520351	V520351	V52C5*1)	V52S5*1)	V520551	V520551
V53 (1/2")	V53D3*1)	V53T3*1)	V530351	V530351	V53D5*1)	V53T5*1)	V530551	V530551

*1) Number of station 02 ... 09 for 2 ... 9 stations
Number of station 10 for 10 stations

3/2 Single solenoid pilot valve, 1/8" port Air return

1

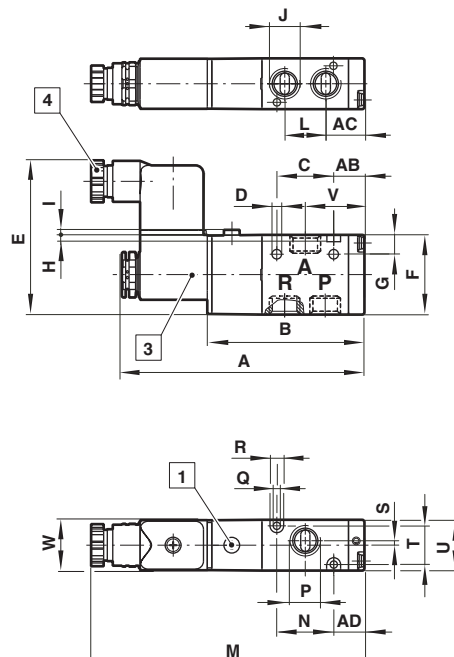


1 Manual override (Push and Turn)

2 Gland size Pg 7

3/2 Single solenoid pilot valve, 1/4"... 1/2" ports Spring return

2



3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51... V53)

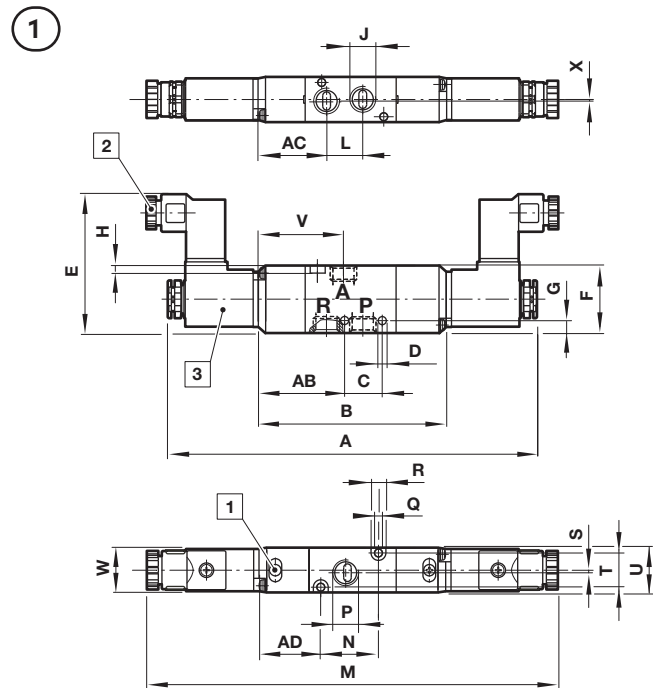
4 Gland size Pg 9

Dimensions in mm
Projection/First angle



Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	T	U	V	W	X
V50	1	99,5	13,5	21,5	15,5	65	15	3,2	55,5	27	5	3	—	1/8"	14,5	108	23	1/8"	3,2	6	1	13	18	29,5	16	0,5
V51	2	106,5	13,5	17	13,5	69	25	4,2	67	35	8,5	3	3	1/4"	18	120	25	1/4"	3,2	6	2	17	22,5	26	22	—
V52	2	126,5	13	26	15	89	26	4,5	73	46,5	39,5	4	3	3/8"	26	139,5	41	3/8"	4,5	8	—	23	30	41	22	—
V53	2	133	12,5	27	15	96	29	4,5	73	46,5	39,5	4	3	1/2"	29	146	48	1/2"	4,2	8	2,5	23	30	40,5	22	—

3/2 Double solenoid pilot valve, 1/8" port

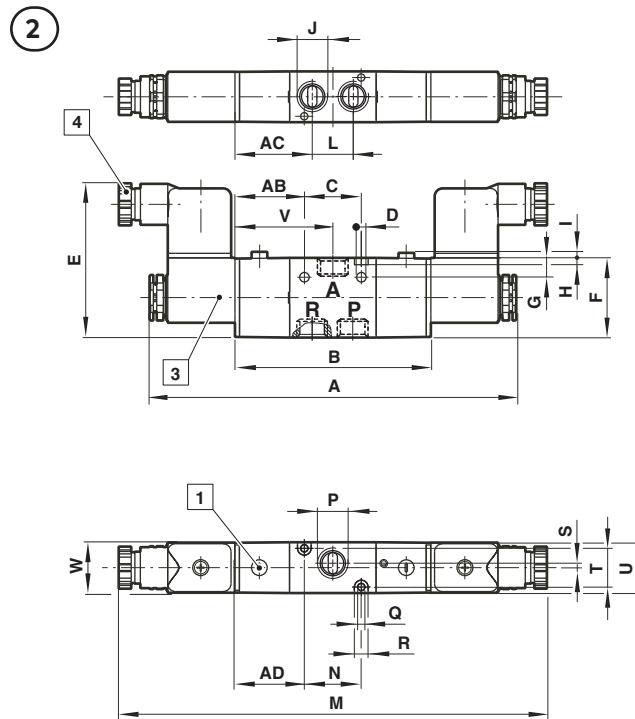


1 Manual override (Push and Turn)

2 Gland size Pg 7

3/2 Double solenoid pilot valve, 1/4"... 1/2" ports

Dimensions in mm
Projection/First angle



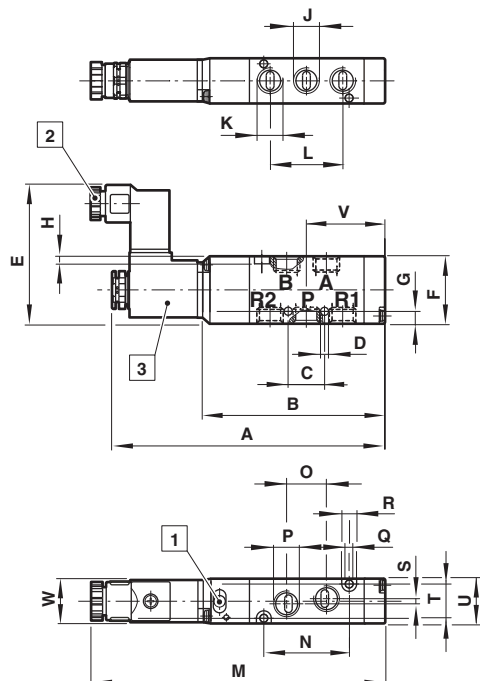
3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)

4 Gland size Pg 9

Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J	L	M	N	P	Q	R	S	T	U	V	W	X
V50	3	144,5	36,5	29	27	76,5	15	3,2	55,5	27	5	3	—	1/8"	14,5	161,5	23	1/8"	3,2	6	1	13	18	35,5	16	0,5
V51	4	144,5	30,5	34	30,5	86	25	4,2	67	35	8,5	3	3	1/4"	18	188	25	1/4"	3,2	6	2	17	22,5	43	22	—
V52	4	182	31	44	33	107	26	4,5	73	46,5	39,5	4	3	3/8"	26	208	41	3/8"	4,5	8	—	23	30	59	22	—
V53	4	188	30,5	45	33	114	29	4,5	73	46,5	39,5	4	3	1/2"	29	214	48	1/2"	4,2	8	2,5	23	30	58,5	22	—

5/2 Single solenoid pilot valve, 1/8" port Air return

5

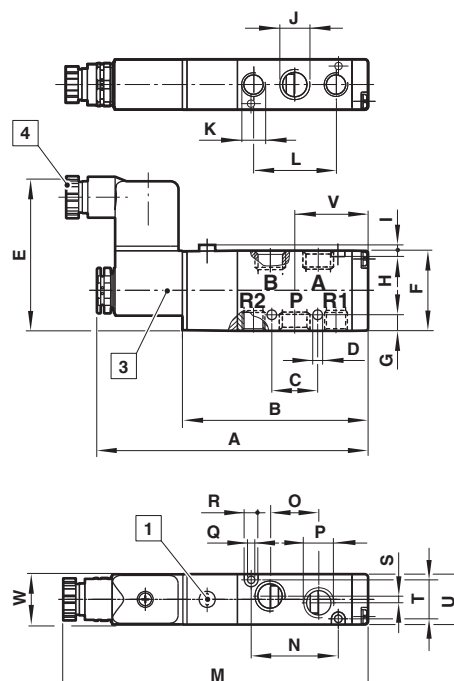


1 Manual override (Push and Turn)

2 Gland size Pg 7

5/2 Single solenoid pilot valve, 1/4" ... 1/2" ports Spring return

6



3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)

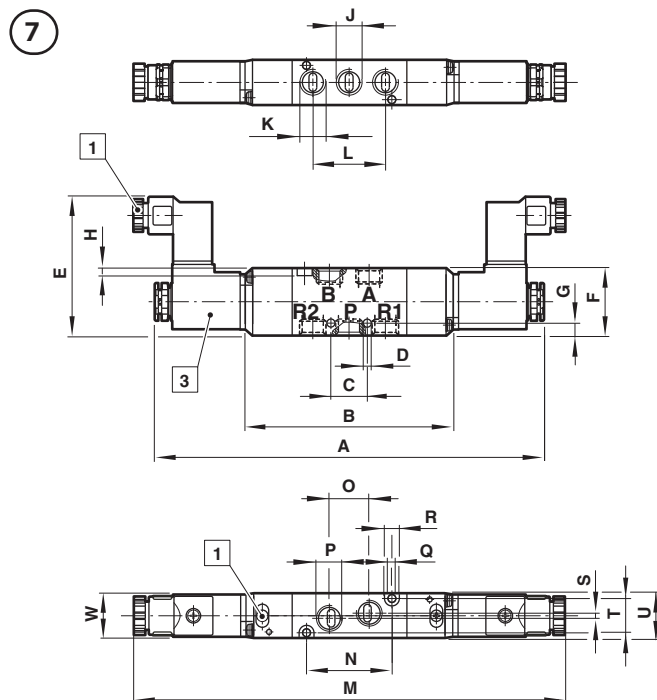
4 Gland size Pg 9

Dimensions in mm
Projection/First angle



Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
V50	5	110	76	14,5	3,2	54	27	5	3	—	1/8"	1/8"	29	118,5	34	16	1/8"	3,2	6	2	13	18	32,5	16
V51	6	118,5	81	20	4,2	67	35	7	3	3	1/4"	1/8"	36	132	38	21	1/4"	3,2	6	3	17	22,5	32	22
V52	6	145,5	108	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52	158,5	13	30	3/8"	4,5	8	—	23	30	45	22
V53	6	157	120	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58	170	72	28	1/2"	4,2	8	4,5	23	30	51	22

5/2 Double solenoid pilot valve, 1/8" port

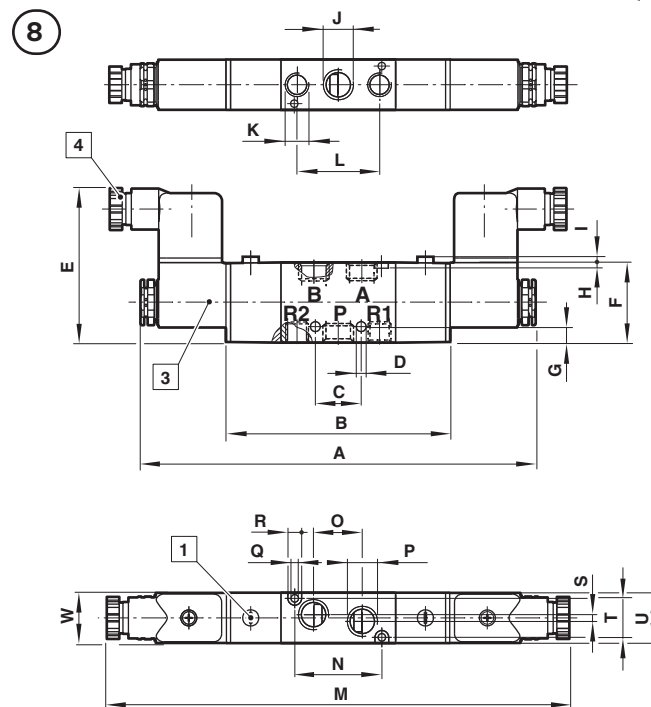


1 Manual override (Push and Turn)

2 Gland size Pg 7

5/2 Double solenoid pilot valve, 1/4" ... 1/2" ports

Dimensions in mm
Projection/First angle

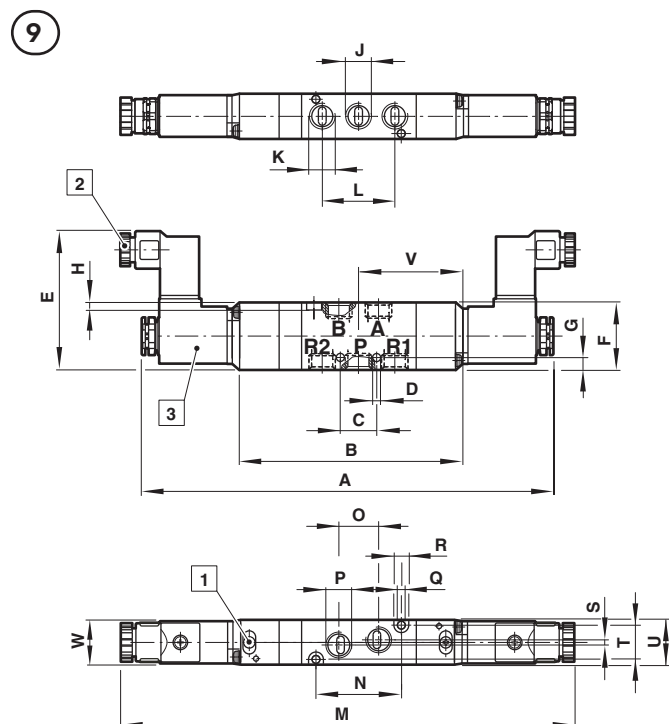


3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)

4 Gland size Pg 9

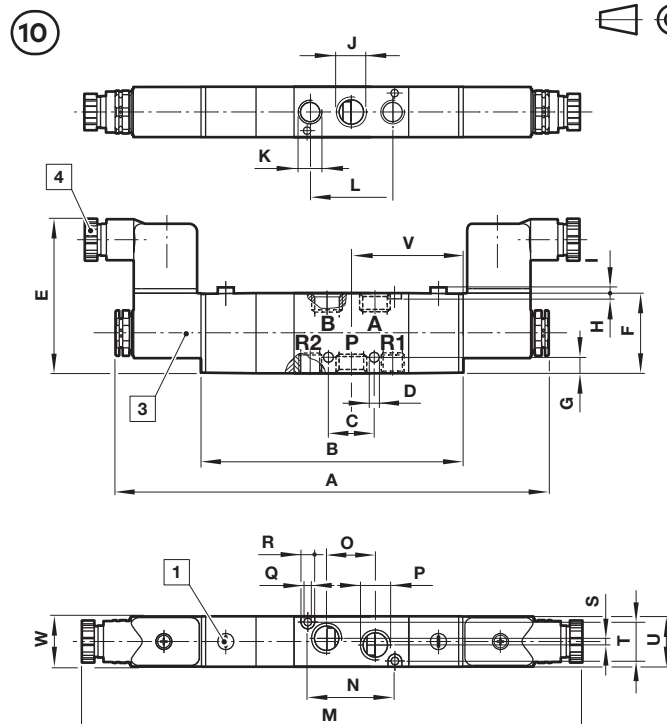
Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	W
V50	7	155	87	14,5	3,2	55	27	5	3	—	1/8"	1/8"	29	172	34	16	1/8"	3,2	6	2	13	18	16
V51	8	173	98	20	4,2	67	35	7	3	3	1/4"	1/8"	36	200	38	21	1/4"	3,2	6	3	17	22,5	22
V52	8	201	126	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52	228	13	30	3/8"	4,5	8	—	23	30	22
V53	8	212	138	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58	238	72	28	1/2"	4,2	8	4,5	23	30	22

5/3 Double solenoid pilot valve, 1/8" port

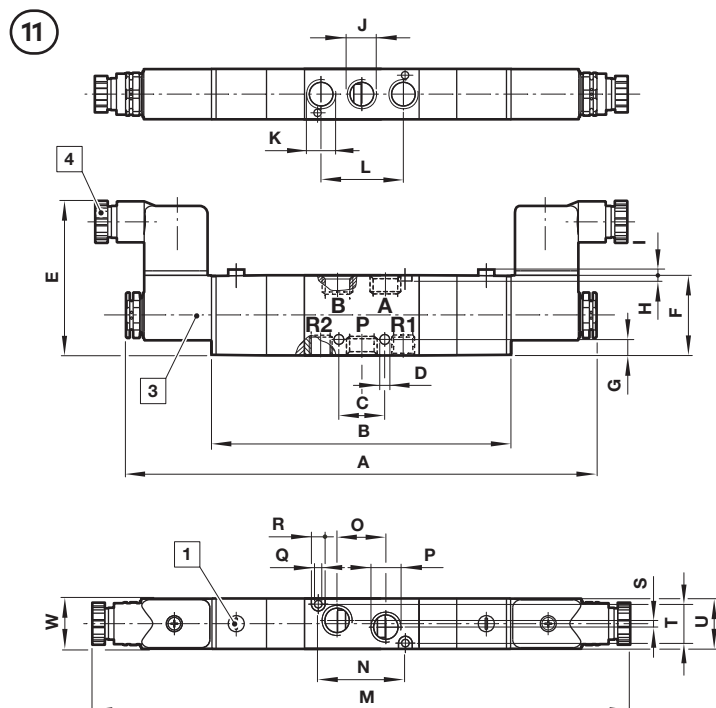


5/3 Double solenoid pilot valve, 1/4" port

Dimensions in mm
Projection/First angle

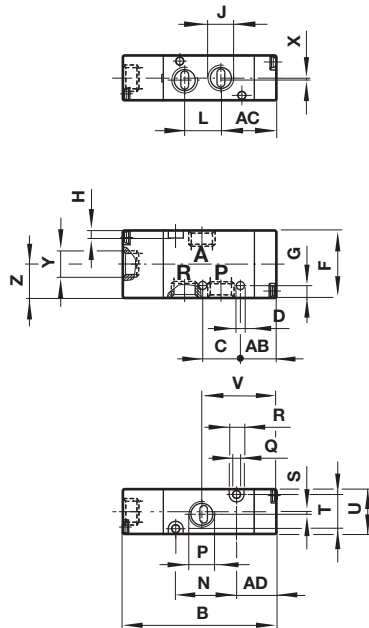


5/3 Double solenoid pilot valve, 3/8" and 1/2" ports



3/2 Single air pilot valve, 1/8" port Air spring return

12

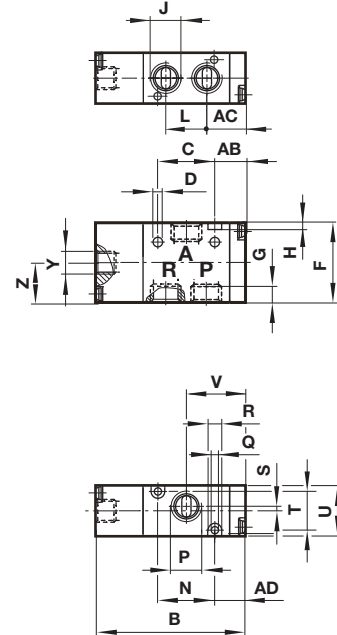


3/2 Single air pilot valve, 1/4"... 1/2" ports Spring return

Dimensions in mm
Projection/First angle



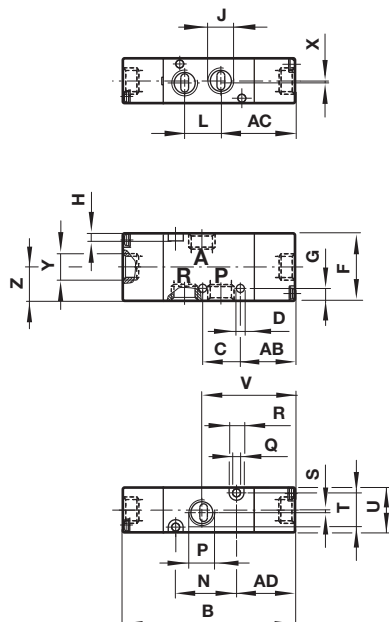
13



Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L	N	P	Q	R	S	T	U	V	X	Y	Z
V50	12	13,5	21,5	15,5	61,5	15	3,2	27	5	3	1/8"	14,5	23	1/8"	3,2	6	1	13	18	29,5	0,5	1/8"	13,5
V51	13	13,5	17	13,5	65,5	25	4,2	35	8,5	3	1/4"	18	25	1/4"	3,2	6	2	17	22,5	26	—	1/8"	17,5
V52	13	13	26	15	87	26	4,5	46,5	39,5	4	3/8"	26	41	3/8"	4,5	8	—	23	30	41	—	1/8"	17
V53	13	12,5	27	15	94	29	4,5	46,5	39,5	4	1/2"	29	48	1/2"	4,2	8	2,5	23	30	40,5	—	1/8"	17

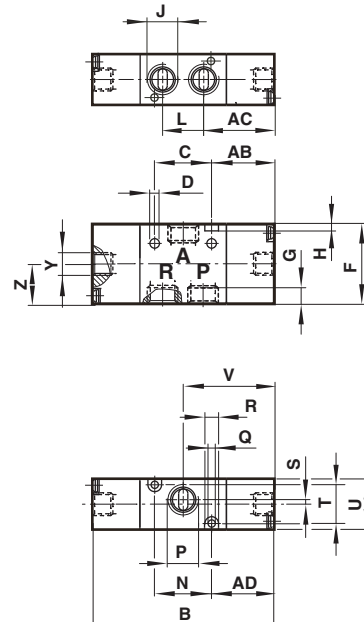
3/2 Double air pilot valve, 1/8" port

14



3/2 Double air pilot valve, 1/4"... 1/2" ports

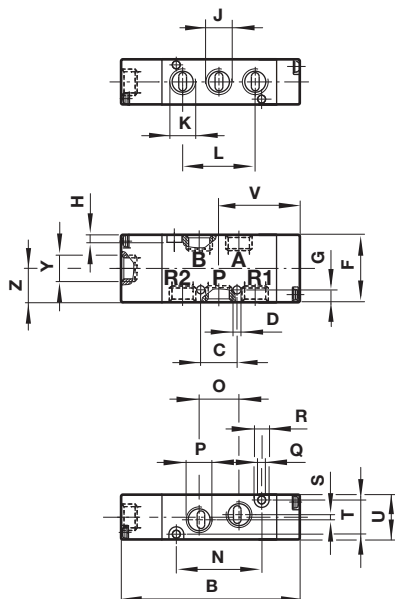
15



Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L	N	P	Q	R	S	T	U	V	X	Y	Z
V50	14	13,5	21,5	15,5	69	15	3,2	27	5	3	1/8"	14,5	23	1/8"	3,2	6	1	13	18	29,5	0,5	1/8"	13,5
V51	15	13,5	17	13,5	79	25	4,2	35	8,5	3	1/4"	18	25	1/4"	3,2	6	2	17	22,5	26	—	1/8"	17,5
V52	15	13	26	15	103	26	4,5	46,5	39,5	4	3/8"	26	41	3/8"	4,5	8	—	23	30	41	—	1/8"	17
V53	15	12,5	27	15	110	29	4,5	46,5	39,5	4	1/2"	29	48	1/2"	4,2	8	2,5	23	30	40,5	—	1/8"	17

5/2 Single air pilot valve, 1/8" port Air spring return

16

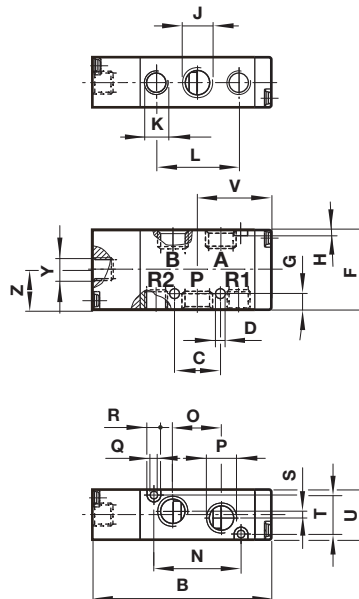


5/2 Single air pilot valve, 1/4"... 1/2" ports Spring return

Dimensions in mm
Projection/First angle



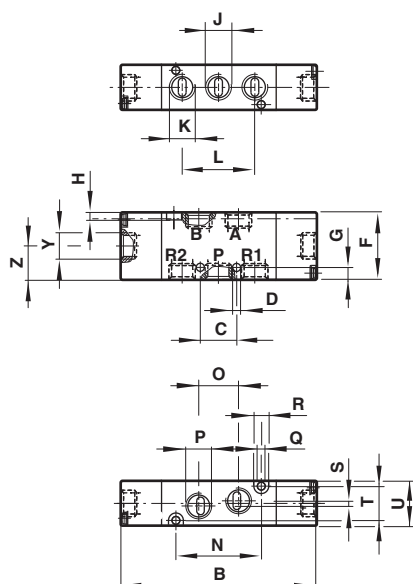
17



Series	Drawing	B	C	D	F	G	H	J	K	L	N	L	O	P	Q	R	S	T	U	V	Y	Z	Z
V50	16	72,5	14,5	3,2	27	5	3	1/8"	1/8"	29	34	14,5	16	1/8"	3,2	6	2	13	18	32,5	1/8"	13,5	13,5
V51	17	77,5	20	4,2	35	7	3	1/4"	1/8"	36	38	18	21	1/4"	3,2	6	3	17	22,5	32	1/8"	17,5	17,5
V52	17	106	26	5,5	46,5	4,5	4	3/8"	3/8"	52	13	26	30	3/8"	4,5	8	—	23	30	45	1/8"	17	17
V53	17	118	29	4,5	46,5	7	4	1/2"	1/2"	58	72	29	28	1/2"	4,2	8	4,5	23	30	51	1/8"	17	17

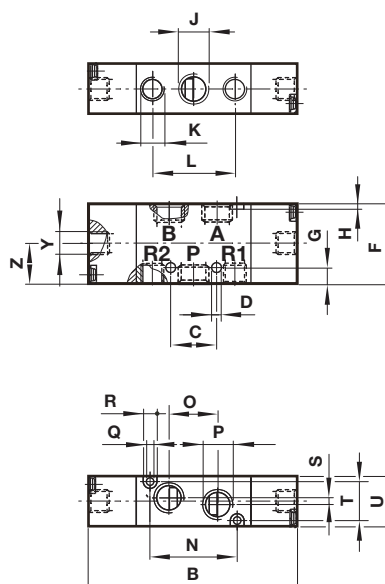
5/2 Double air pilot valve, 1/8" port

18



5/2 Double air pilot valve, 1/4"... 1/2" ports

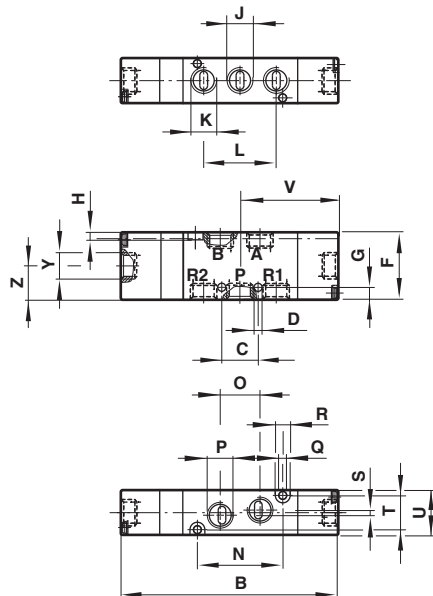
19



Series	Drawing	B	C	D	F	G	H	J	K	L	N	O	P	Q	R	S	T	U	Y	Z
V50	18	80	14,5	3,2	27	5	3	1/8"	1/8"	29	34	16	1/8"	3,2	6	2	13	18	1/8"	13,5
V51	19	91	20	4,2	35	7	3	1/4"	1/8"	36	38	21	1/4"	3,2	6	3	17	22,5	1/8"	17,5
V52	19	122	26	5,5	46,5	4,5	4	3/8"	3/8"	52	13	30	3/8"	4,5	8	—	23	30	1/8"	17
V53	19	134	29	4,5	46,5	7	4	1/2"	1/2"	58	72	28	1/2"	4,2	8	4,5	23	30	1/8"	17

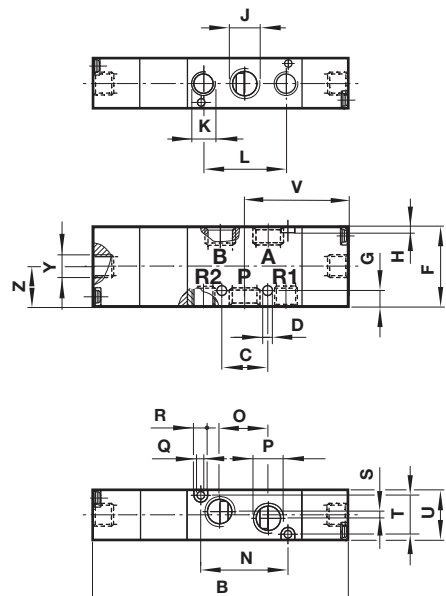
5/3 Double air pilot valve, 1/8" port

20



5/3 Double air pilot valve, 1/4" port

21

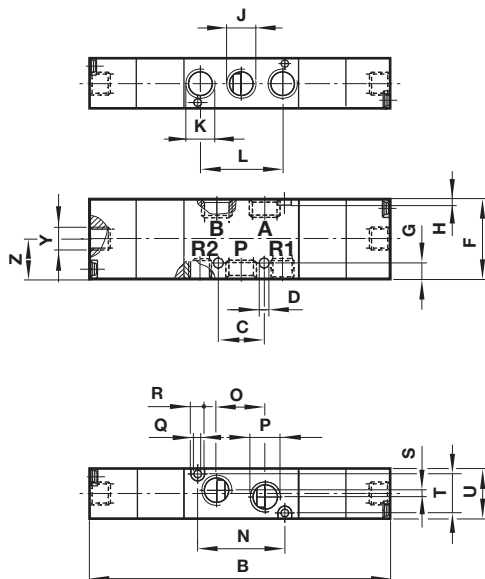


Dimensions in mm
Projection/First angle



5/3 Double air pilot valve, 3/8" and 1/2" ports

22

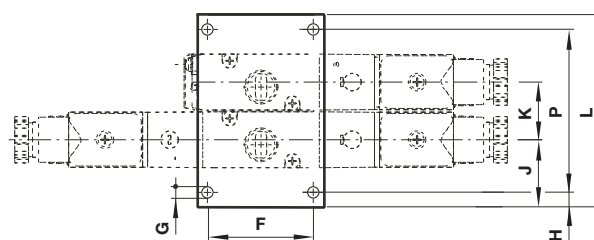
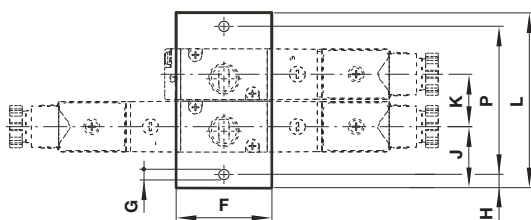
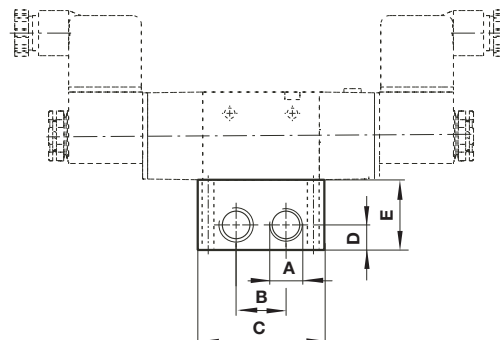
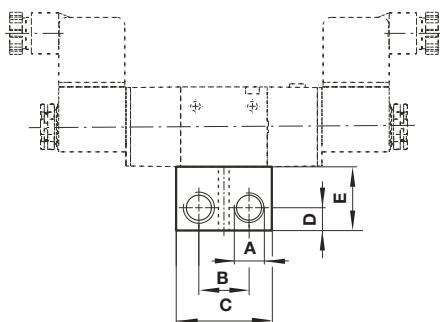


Series	Drawing	B	C	D	F	G	H	J	K	L	N	O	P	Q	R	S	T	U	V	Y	Z
V50	20	89	14,5	3,2	27	5	3	1/8	1/8"	29	34	16	1/8"	3,2	6	2	13	18	40	1/8"	13,5
V51	21	112	20	4,2	35	7	3	1/4	1/8"	36	38	21	1/4"	3,2	6	3	17	22,5	45,5	1/8"	17,5
V52	22	175,5	26	5,5	46,5	4,5	4	3/8	3/8"	52	13	30	3/8"	4,5	8	—	23	30	87,5	1/8"	17
V53	22	187,5	29	4,5	46,5	7	4	1/2	1/2"	58	72	28	1/2"	4,2	8	4,5	23	30	93,5	1/8"	17

Manifold system, 3/2 valves for V50 and V51

for V52 and V53

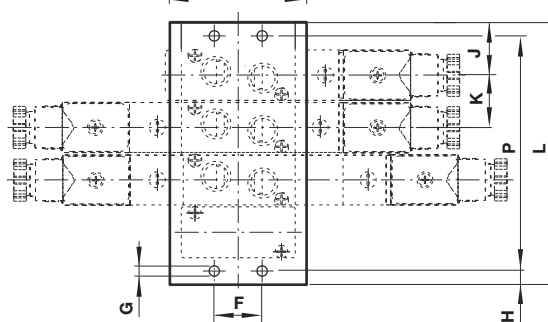
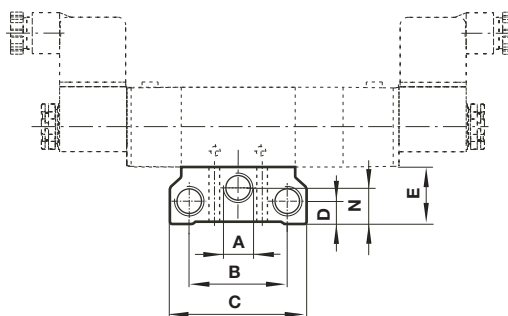
Dimensions in mm
Projection/First angle



Series	A	B	C	D	E	Ø G	H	J	K	L	P	Weight (kg)
V50	1/4"	22	42	10	28	4,5	5	19	19	19 + (N x 19)	9 + (N x 19)	0,05 + (N x 0,05)
V51	1/4"	22	42	10	28	4,5	6	27	23	31 + (N x 23)	19 + (N x 23)	0,08 + (N x 0,06)
V52	3/8"	26	66	11,5	27	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,06 + (N x 0,11)
V53	1/2"	30	72	15	32	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,07 + (N x 0,14)

N = Number of stations 2 ... 10

Manifold system, 5/2 and 5/3 valves

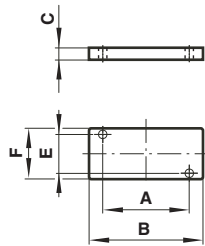


Series	A	B	C	D	E	F	Ø G	H	J	K	L	P	Weight (kg)
V50	1/4"	40	58	11	25	20	4,5	5	19	19	19 + (N x 19)	9 + (N x 19)	0,04 + (N x 0,04)
V51	1/4"	43	60	10	25	21	4,5	6	23	23	23 + (N x 23)	11 + (N x 23)	0,07 + (N x 0,06)
V52	3/8"	61	84	12	27	30	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,06 + (N x 0,09)
V53	1/2"	58	96	13	30	30	4,5	5	25	31	19 + (N x 31)	9 + (N x 31)	0,08 + (N x 0,15)

N = Number of stations 2 ... 10

Blanking plate

Dimensions in mm
Projection/First angle



For Function	Valve port size	A	B	C	E	F	Weight (kg)	Model
3/2	1/8	23	35	2	13	18	0,01	V500351
3/2	1/4	25	38	2	17	22,5	0,02	V510351
3/2	3/8	41	55	2	23	30	0,03	V520351
3/2	1/2	48	62	2	23	30	0,06	V530351
5/2	1/8	34	43	2	13	18	0,01	V500551
5/2	1/4	38	50	2	17	22,5	0,02	V510551
5/2	3/8	13	74	2	23	30	0,03	V520551
5/2	1/2	72	86	2	23	30,5	0,08	V530551

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

V60 ... V63, 3/2, 2 x 3/2, 5/2 or 5/3

Solenoid and pilot actuated spool valves



Port size: 1/8" ... 1/2"
(ISO G/NPT)

High flow rate
at small size

Proven sealing system,
maintenance-free

Different manual
override options
available

Low power
consumption

Manifold system for
easy assembly

Different pressure
ranges possible



Technical features

Medium:

Compressed air, filtered lubricated or non lubricated

Operation:

Electromagnetically or pneumatically controlled

Operating pressure:

-0,9 ... 10 bar (-13 ... 145 psi)

Details see following pages

Flow:

500 ... 4500 l/min

Flow direction:

Internal pilot supply: fixed

External pilot supply: optional

Port size:

G1/8, G1/4, G3/8 or G1/2

For valves with NPT ports see option selector

Mounting position:

Optional, spring return valves, preferably horizontal

Ambient/Media temperature:

-10 ... +50°C (+14 ... +122°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:

Housing:

Aluminium bar stock.

Base plate: Aluminium

Static and dynamic seals:

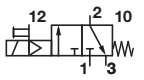
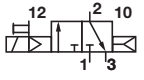
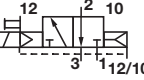
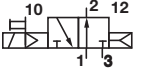
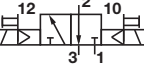
NBR and FPM

Plastic parts: PA, PBT with GF

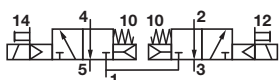
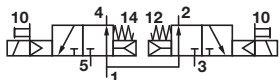
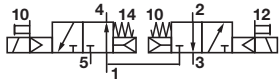
Electrical details for solenoid operators

Voltage tolerance	± 10%	
Rating	100% continuous duty	
Inlet orifice	0,8 mm	
Electrical connection (corresponding to choosen coil)	EN 175301-803 - Form B, 22 mm	
	Industrial Standard, 22 mm	
Solenoid	4 x 90° rotatable	
Manual override	Without	# = 1
	Push and turn to lock	# = 2
	Push only (not lockable)	# = 3
Protection class	IP 65 (with sealed plug)	

3/2 directional control valves, solenoid actuated

Symbol	Port size	Function	Actuation	Pilot supply	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Drawing No.	Model *1)
	G1/8	NC	Solenoid/spring	Internal	750	2 ... 10	–	0,22	1	V60A417A-A#*
	G1/4	NC	Solenoid/spring	Internal	1300	2 ... 10	–	0,29	1	V61B417A-A#*
	G3/8	NC	Solenoid/spring	Internal	2600	2 ... 10	–	0,52	1	V62C417A-A#*
	G1/2	NC	Solenoid/spring	Internal	4500	2 ... 10	–	0,78	2	V63D417A-A#*
	G1/8	NC	Solenoid/air spring	Internal	750	2 ... 10	–	0,22	3	V60A413A-A#*
	G1/4	NC	Solenoid/air spring	Internal	1300	2 ... 10	–	0,29	3	V61B413A-A#*
	G3/8	NC	Solenoid/air spring	Internal	2600	2 ... 10	–	0,52	3	V62C413A-A#*
	G1/2	NC	Solenoid/air spring	Internal	4500	3 ... 10	–	0,78	4	V63D413A-A#*
	G1/8	NC	Solenoid/air spring	External	750	-0,9 ... 10	3 ... 10	0,22	3	V60A423A-A#*
	G1/4	NC	Solenoid/air spring	External	1300	-0,9 ... 10	3 ... 10	0,29	3	V61B423A-A#*
	G3/8	NC	Solenoid/air spring	External	2600	-0,9 ... 10	3 ... 10	0,52	3	V62C423A-A#*
	G1/2	NC	Solenoid/air spring	External	4500	-0,9 ... 10	3 ... 10	0,78	4	V63D423A-A#*
	G1/8	NO	Solenoid/air spring	Internal	750	2 ... 10	–	0,22	5	V60A313A-A#*
	G1/4	NO	Solenoid/air spring	Internal	1300	2 ... 10	–	0,29	5	V61B313A-A#*
	G3/8	NO	Solenoid/air spring	Internal	2600	2 ... 10	–	0,52	5	V62C313A-A#*
	G1/2	NO	Solenoid/air spring	Internal	4500	3 ... 10	–	0,78	6	V63D313A-A#*
	G1/8	–	Solenoid/Solenoid	Internal	750	1,5 ... 10	–	0,30	7	V60A411A-A#*
	G1/4	–	Solenoid/Solenoid	Internal	1300	1,5 ... 10	–	0,38	7	V61B411A-A#*
	G3/8	–	Solenoid/Solenoid	Internal	2600	1,5 ... 10	–	0,61	7	V62C411A-A#*
	G1/2	–	Solenoid/Solenoid	Internal	4500	2 ... 10	–	0,87	8	V63D411A-A#*

2 x 3/2 directional control valves, solenoid actuated

Symbol	Port size	Function	Actuation	Pilot supply	Flow (l/min)	Operating pressure (bar)	Weight (kg)	Drawing No.	Model *1)
	G1/8	NC/NC	Solenoid/Solenoid	Internal	500	2 ... 10	0,34	13	V60AA11A-A#*
	G1/4	NC/NC	Solenoid/Solenoid	Internal	950	2 ... 10	0,43	13	V61BA11A-A#*
	G3/8	NC/NC	Solenoid/Solenoid	Internal	1900	2 ... 10	0,73	13	V62CA11A-A#*
	G1/8	NO/NO	Solenoid/Solenoid	Internal	500	2 ... 10	0,34	13	V60AB11A-A#*
	G1/4	NO/NO	Solenoid/Solenoid	Internal	950	2 ... 10	0,43	13	V61BB11A-A#*
	G3/8	NO/NO	Solenoid/Solenoid	Internal	1900	2 ... 10	0,73	13	V62CB11A-A#*
	G1/8	NO/NC	Solenoid/Solenoid	Internal	500	2 ... 10	0,34	13	V60AC11A-A#*
	G1/4	NO/NC	Solenoid/Solenoid	Internal	950	2 ... 10	0,43	13	V61BC11A-A#*
	G3/8	NO/NC	Solenoid/Solenoid	Internal	1900	2 ... 10	0,73	13	V62CC11A-A#*

Insert code for manual override: 1 = without; 2 = push and turn, 3 = push only
 *1) Insert voltage code from table below or 000 for version without solenoid

NC = Normally closed
 NO = Normally open
 NC/NC = Both valves normally closed (port P)
 NO/NO = Both valves normally open (port P)
 NO/NC = Valve normally open, 1 valve normally closed (port P)

Voltage codes and spare coils

22 mm coil for connector interface acc. to industrial standard				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2 W	QM/48/12J/21	12J
	24 V d.c.	2 W	QM/48/13J/21	13J
	24 V 50/60 Hz	4/2,5 VA	QM/48/14J/21	14J
	110/120 V 50/60 Hz	4/2,5 VA	QM/48/18J/21	18J
	220/240 V 50/60 Hz	6/5,0 VA	QM/48/19J/21	19J

22 mm coil for connector interface acc. EN 175 301-803, form B				
	Voltage	Power Inrush/Hold	Model	Code
	12 V d.c.	2 W	V10626-A12L	12L
	24 V d.c.	2 W	V10626-A13L	13L
	24 V 50/60 Hz	4/2,5 VA	V10626-A14L	14L
	110/120 V 50/60 Hz	4/2,5 VA	V10626-A18L	18L
	220/240 V 50/60 Hz	6/5,0 VA	V10626-A19L	19L

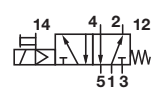
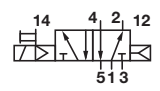
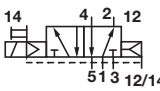
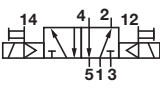
Other voltage on request.

Connector plugs - ordered separately

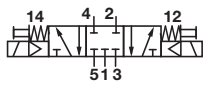
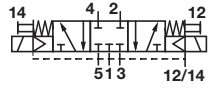
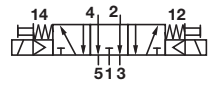
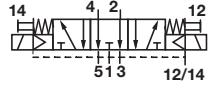
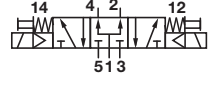
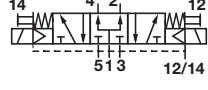
Industrial standard 22 mm 2-pole + PE	22 mm, EN 175301-803 (DIN 43650 B) Form B 2-pole + PE
	
0657868 12...250 V a.c./d.c.	0680003 12...250 V a.c./d.c.
0680000 15...30 V DC; LED, surge suppression	0664811 15...30 V DC; LED, surge suppression
0680001 150...250 V a.c.; glim lamp	0664812 150...250 V a.c.; glim lamp

Note: Light emitting gaskets cannot be used

5/2 directional control valves, solenoid actuated

Symbol	Port size	Actuation	Pilot supply	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Drawing No.	Model *1)
	G1/8	Solenoid/spring	Internal	750	3 ... 10	–	0,22	9	V60A517A-A#*
	G1/4	Solenoid/spring	Internal	1300	3 ... 10	–	0,29	9	V61B517A-A#*
	G3/8	Solenoid/spring	Internal	2600	3 ... 10	–	0,52	9	V62C517A-A#*
	G1/2	Solenoid/spring	Internal	4500	3 ... 10	–	0,96	10	V63D517A-A#*
	G1/8	Solenoid/air spring	Internal	750	2 ... 10	–	0,24	11	V60A513A-A#*
	G1/4	Solenoid/air spring	Internal	1300	2 ... 10	–	0,33	11	V61B513A-A#*
	G3/8	Solenoid/air spring	Internal	2600	2 ... 10	–	0,62	11	V62C513A-A#*
	G1/2	Solenoid/air spring	Internal	4500	3 ... 10	–	0,96	12	V63D513A-A#*
	G1/8	Solenoid/air spring	External	750	-0,9 ... 10	3 ... 10	0,24	11	V60A523A-A#*
	G1/4	Solenoid/air spring	External	1300	-0,9 ... 10	3 ... 10	0,33	11	V61B523A-A#*
	G3/8	Solenoid/air spring	External	2600	-0,9 ... 10	3 ... 10	0,62	11	V62C523A-A#*
	G1/2	Solenoid/air spring	External	4500	-0,9 ... 10	3 ... 10	0,96	12	V63D523A-A#*
	G1/8	Solenoid/Solenoid	Internal	750	1,5 ... 10	–	0,33	13	V60A511A-A#*
	G1/4	Solenoid/Solenoid	Internal	1300	1,5 ... 10	–	0,42	13	V61B511A-A#*
	G3/8	Solenoid/Solenoid	Internal	2600	1,5 ... 10	–	0,72	13	V62C511A-A#*
	G1/2	Solenoid/Solenoid	Internal	4500	2 ... 10	–	0,98	14	V63D511A-A#*

5/3 directional control valves, solenoid actuated

Symbol	Port size	Function	Actuation	Pilot supply	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Drawing No.	Model *1)
	G1/8	APB	Solenoid/Solenoid	Internal	500	3 ... 10	–	0,35	15	V60A611A-A#*
	G1/4	APB	Solenoid/Solenoid	Internal	950	3 ... 10	–	0,47	15	V61B611A-A#*
	G3/8	APB	Solenoid/Solenoid	Internal	1900	3 ... 10	–	0,81	15	V62C611A-A#*
	G1/8	APB	Solenoid/Solenoid	External	500	-0,9 ... 10	3 ... 10	0,35	15	V60A622A-A#*
	G1/4	APB	Solenoid/Solenoid	External	950	-0,9 ... 10	3 ... 10	0,47	15	V61B622A-A#*
	G3/8	APB	Solenoid/Solenoid	External	1900	-0,9 ... 10	3 ... 10	0,81	15	V62C622A-A#*
	G1/8	COE	Solenoid/Solenoid	Internal	500	3 ... 10	–	0,35	15	V60A711A-A#*
	G1/4	COE	Solenoid/Solenoid	Internal	950	3 ... 10	–	0,47	15	V61B711A-A#*
	G3/8	COE	Solenoid/Solenoid	Internal	1900	3 ... 10	–	0,81	15	V62C711A-A#*
	G1/8	COE	Solenoid/Solenoid	External	500	-0,9 ... 10	3 ... 10	0,35	15	V60A722A-A#*
	G1/4	COE	Solenoid/Solenoid	External	950	-0,9 ... 10	3 ... 10	0,47	15	V61B722A-A#*
	G3/8	COE	Solenoid/Solenoid	External	1900	-0,9 ... 10	3 ... 10	0,81	15	V62C722A-A#*
	G1/8	COP	Solenoid/Solenoid	Internal	500	3 ... 10	–	0,35	15	V60A811A-A#*
	G1/4	COP	Solenoid/Solenoid	Internal	950	3 ... 10	–	0,47	15	V61B811A-A#*
	G3/8	COP	Solenoid/Solenoid	Internal	1900	3 ... 10	–	0,81	15	V62C811A-A#*
	G1/8	COP	Solenoid/Solenoid	External	500	-0,9 ... 10	3 ... 10	0,35	15	V60A822A-A#*
	G1/4	COP	Solenoid/Solenoid	External	950	-0,9 ... 10	3 ... 10	0,47	15	V61B822A-A#*
	G3/8	COP	Solenoid/Solenoid	External	1900	-0,9 ... 10	3 ... 10	0,81	15	V62C822A-A#*

Insert code for manual override: 1 = without; 2 = push and turn, 3 = push only

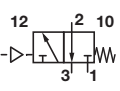
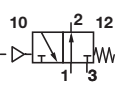
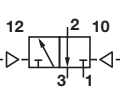
*1) Insert voltage code from table on page before or 000 for version without solenoid

APB = All ports blocked

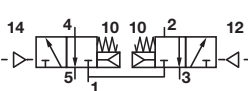
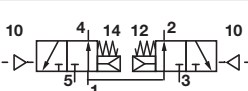
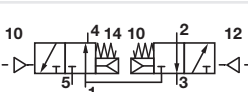
COE = Centre open exhaust

COP = Centre open pressure

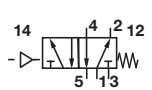
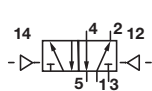
3/2 directional control valves, pilot actuated

Symbol	Port size	Function	Actuation	Flow (l/min)	Operating pressure (bar)	Pilot pressure external (bar)	Weight (kg)	Drawing No.	Model
	G1/8	NC	Air/Spring	750	-0,9 ... 10	2,5 ... 10	0,13	31	V60A4D7A-XA090
	G1/4	NC	Air/Spring	1300	-0,9 ... 10	2,5 ... 10	0,21	31	V61B4D7A-XA090
	G3/8	NC	Air/Spring	2600	-0,9 ... 10	2,5 ... 10	0,43	33	V62C4D7A-XA090
	G1/2	NC	Air/Spring	4500	-0,9 ... 16	3 ... 16	0,75	35	V63D4D7A-XA090
	G1/8	NO	Air/Spring	750	-0,9 ... 10	2,5 ... 10	0,13	32	V60A3D7A-XA090
	G1/4	NO	Air/Spring	1300	-0,9 ... 10	2,5 ... 10	0,21	32	V61B3D7A-XA090
	G3/8	NO	Air/Spring	2600	-0,9 ... 10	2,5 ... 10	0,43	34	V62C3D7A-XA090
	G1/2	NO	Air/Spring	4500	-0,9 ... 16	3 ... 16	0,75	36	V63D3D7A-XA090
	G1/8	-	Air/Air	750	-0,9 ... 10	1,5 ... 10	0,13	37	V60A4DDA-XA020
	G1/4	-	Air/Air	1300	-0,9 ... 10	1,5 ... 10	0,21	37	V61B4DDA-XA020
	G3/8	-	Air/Air	2600	-0,9 ... 10	1,5 ... 10	0,43	38	V62C4DDA-XA020
	G1/2	-	Air/Air	4500	-0,9 ... 16	1,5 ... 16	0,68	39	V63D4DDA-XA020

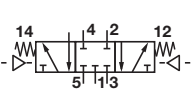
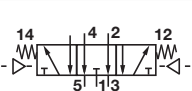
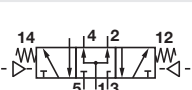
2 x 3/2 directional control valves, pilot actuated

Symbol	Port size	Function	Actuation	Flow (l/min)	Operating pressure (bar)	Pilot pressure external (bar)	Weight (kg)	Drawing No.	Model
	G1/8	NC/NC	Air/Air	500	2 ... 10	2 ... 10	0,18	43	V60AADDA-XA020
	G1/4	NC/NC	Air/Air	950	2 ... 10	2 ... 10	0,28	43	V61BADDA-XA020
	G3/8	NC/NC	Air/Air	1900	2 ... 10	2 ... 10	0,60	44	V62CADDA-XA020
	G1/8	NO/NO	Air/Air	500	2 ... 10	2 ... 10	0,18	43	V60ABDDA-XA020
	G1/4	NO/NO	Air/Air	950	2 ... 10	2 ... 10	0,28	43	V61BBDDA-XA020
	G3/8	NO/NO	Air/Air	1900	2 ... 10	2 ... 10	0,60	44	V62CBDDA-XA020
	G1/8	NO/NC	Air/Air	500	2 ... 10	2 ... 10	0,18	43	V60ACDDA-XA020
	G1/4	NO/NC	Air/Air	950	2 ... 10	2 ... 10	0,28	43	V61BCDDA-XA020
	G3/8	NO/NC	Air/Air	1900	2 ... 10	2 ... 10	0,60	44	V62CCDDA-XA020

5/2 directional control valves, pilot actuated

Symbol	Port size	Function	Actuation	Flow (l/min)	Operating pressure (bar)	Pilot pressure external (bar)	Weight (kg)	Drawing No.	Model
	G1/8	Air/Spring		750	-0,9 ... 10	2,5 ... 10	0,16	40	V60A5D7A-XA090
	G1/4	Air/Spring		1300	-0,9 ... 10	2,5 ... 10	0,26	40	V61B5D7A-XA090
	G3/8	Air/Spring		2600	-0,9 ... 10	2,5 ... 10	0,56	41	V62C5D7A-XA090
	G1/2	Air/Spring		4500	-0,9 ... 16	3 ... 16	0,92	42	V63D5D7A-XA090
	G1/8	Air/Air		750	-0,9 ... 10	1,5 ... 10	0,17	43	V60A5DDA-XA020
	G1/4	Air/Air		1300	-0,9 ... 10	1,5 ... 10	0,27	43	V61B5DDA-XA020
	G3/8	Air/Air		2600	-0,9 ... 10	1,5 ... 10	0,58	44	V62C5DDA-XA020
	G1/2	Air/Air		4500	-0,9 ... 16	1,5 ... 16	0,87	45	V63D5DDA-XA020

5/3 directional control valves, pilot actuated

Symbol	Port size	Function	Actuation	Flow (l/min)	Operating pressure (bar)	Pilot pressure external (bar)	Weight (kg)	Drawing No.	Model
	G1/8	APB	Air/Air	500	-0,9 ... 10	3 ... 10	0,20	46	V60A6DDA-XA020
	G1/4	APB	Air/Air	950	-0,9 ... 10	3 ... 10	0,32	46	V61B6DDA-XA020
	G3/8	APB	Air/Air	1900	-0,9 ... 10	3 ... 10	0,67	47	V62C6DDA-XA020
	G1/2	APB	Air/Air	2300	-0,9 ... 10	3 ... 10	1,10	48	V63D6DDA-XA020
	G1/8	COE	Air/Air	500	-0,9 ... 10	3 ... 10	0,20	46	V60A7DDA-XA020
	G1/4	COE	Air/Air	950	-0,9 ... 10	3 ... 10	0,32	46	V61B7DDA-XA020
	G3/8	COE	Air/Air	1900	-0,9 ... 10	3 ... 10	0,67	47	V62C7DDA-XA020
	G1/2	COE	Air/Air	2300	-0,9 ... 10	3 ... 10	1,10	48	V63D7DDA-XA020
	G1/8	COP	Air/Air	500	-0,9 ... 10	3 ... 10	0,20	46	V60A8DDA-XA020
	G1/4	COP	Air/Air	950	-0,9 ... 10	3 ... 10	0,32	46	V61B8DDA-XA020
	G3/8	COP	Air/Air	1900	-0,9 ... 10	3 ... 10	0,67	47	V62C8DDA-XA020

NC = Normally closed

NO = Normally open

NC/NC = Both valves normally closed (port P)

NO/NO = Both valves normally open (port P)

NO/NC = Valve normally open, 1 valve normally closed (port P)

APB = All ports blocked

COE = Centre open exhaust

COP = Centre open pressure

Option selector (directional control valves, solenoid actuated)

V6*****A-A*****

Valve size	Substitute
G1/8	0A
G1/4	1B
G3/8	2C
G1/2	3D
NPT-Valve size	Substitute
1/8 NPT	0P
1/4 NPT	1R
3/8 NPT	2S
1/2 NPT	3T
Function	Substitute
3/2 - NO	3
3/2 - NC	4
5/2	5
5/3 - APB	6
5/3 - COE	7
5/3 - COP	8
2 x 3/2 - NC	A
2 x 3/2 - NO	B
2 x 3/2 - NO/NC	C

Plug Interface		Substitute
22 mm, industrial standard		J
22 mm, to EN 175301-803 (DIN 43650), Form B		L
Voltage		Substitute
12 V d.c. 2 W		12
24 V d.c. 2 W		13
24 V a.c. (50/60 Hz) 4/2,5 VA		14
110/120 V a.c. (50/60 Hz) 4/2,5 VA		18
220/240 V a.c. (50/60 Hz) 6/5 VA		19
Manual override		Substitute
Without		1
Push, locked position		2
Push only		3
Actuation/return	Pilot Supply	Substitute
Sol/Sol	Internal	11
Sol/air spring	Internal	13
Sol/spring	Internal	17
Sol/Sol	External	22
Sol/air spring	External	23
Sol/spring	External	27

Option selector (directional control valves, pilot actuated)

V6****D*A-X****0

Port size ISO G	Substitute
G1/8	0A
G1/4	1B
G3/8	2C
G1/2	3D
Port size NPT	Substitute
1/8 NPT	0P
1/4 NPT	1R
3/8 NPT	2S
1/2 NPT	3T
Function	Substitute
3/2 - NO	3
3/2 - NC	4
5/2	5
5/3 - APB	6
5/3 - COE	7
5/3 - COP	8
2 x 3/2 - NC	A
2 x 3/2 - NO	B
2 x 3/2 - NO/NC	C

Actuation/return	Substitute
Air/Air	02
Air/Spring	09
Pilot port	Substitute
G1/8	A
1/8 NPT	P
Actuation/return	Substitute
Air/Air	D
Air/Spring	7

Manifold system for common pressure supply (V60 and V61) – preferred solution for 3/2 valves

Manifold* 2 to 9 stations		10 and 12 stations	Bracket for manifold	Blanking plug for unused valve station
				
Series	Page 19	Page 19	Page 19	
V60	263962 *1)	263963 *2)	0555485	0491586
V61	263942 *1)	263943 *2)	0555484	0491587

* Supplied with bolt and sealing washers

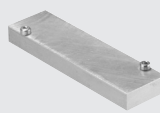
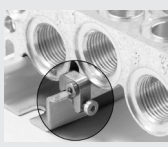
*1) Insert station code after model numbers: 2, 3, 4, 5, 6, 7 and 8

*2) Insert station code after model numbers: 9 (for V61 only), 0 for 10 and 2 for 12

Sub-base – available for 2 x 3/2, 5/2, 5/3 valves

Valve stations 2		3	4	6	12
					
Series	Page 17	Page 17	Page 17	Page 17	Page 17
V60	2221002	2221003	2221004	2221006	2221012
V61	2221102	2221103	2221104	2221106	2221112
V62	2221202	2221203	2221204	2221206	2221212

Accessories for sub-bases

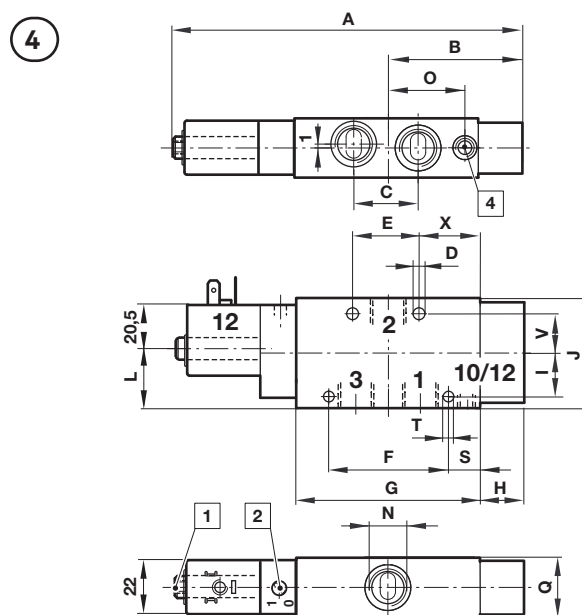
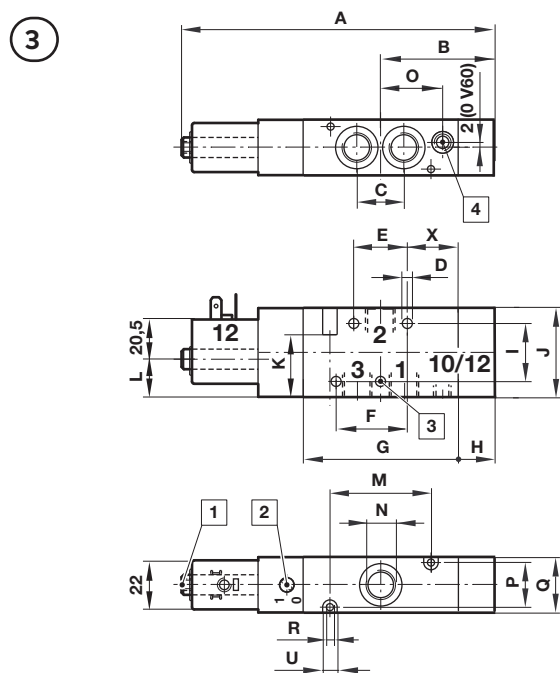
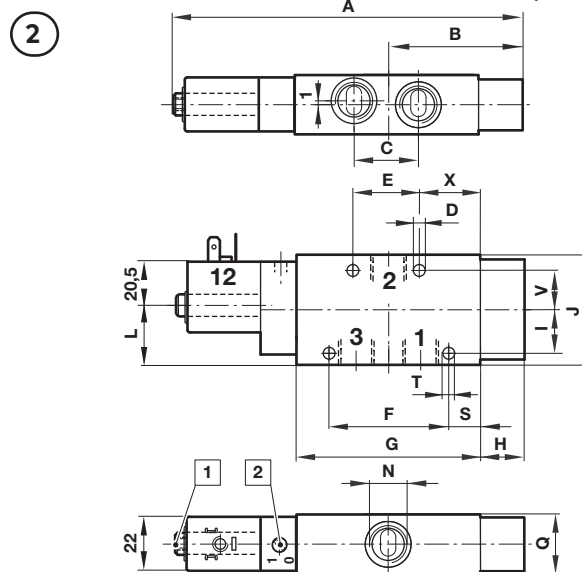
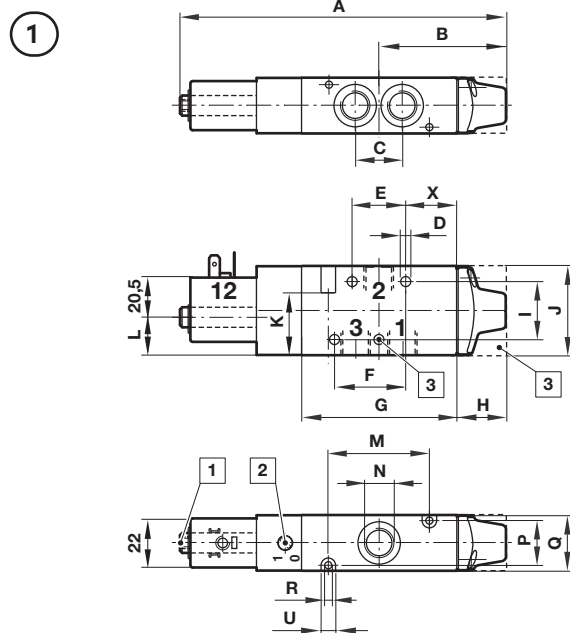
Blanking plate		Blanking plug for 2 station and 3 station manifolds	Pressure shut-off for 4 station up to 12 station manifolds	Pressure shut-off for ports 3 & 5 (R & S)	DIN rail mounting kit
					
Series			Page 17	Page 17	Page 18
V60	0100561	0701208	0100567	0110236	0101796
V61	0100563	0701209	0100569	0110237	0101796
V62	0100565	0701210	0100571	0110238	0101796

Coil accessories

Diffusor for pilot exhaust	Circlip for coil fixing
	
81110800	81021600

Dimensions

Dimensions in mm
Projection/First angle



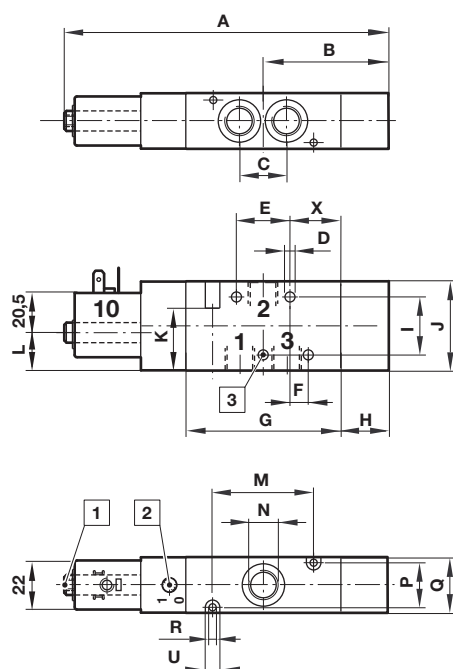
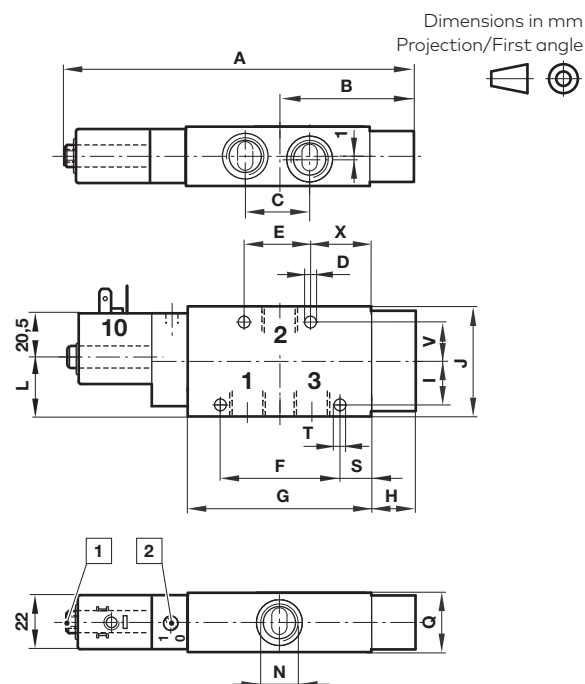
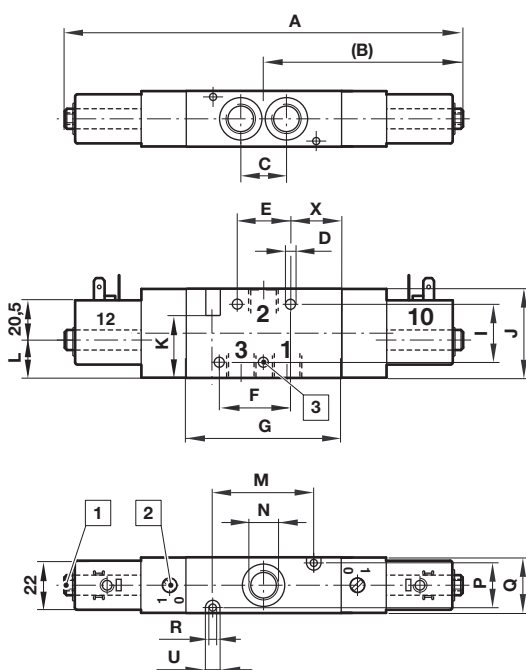
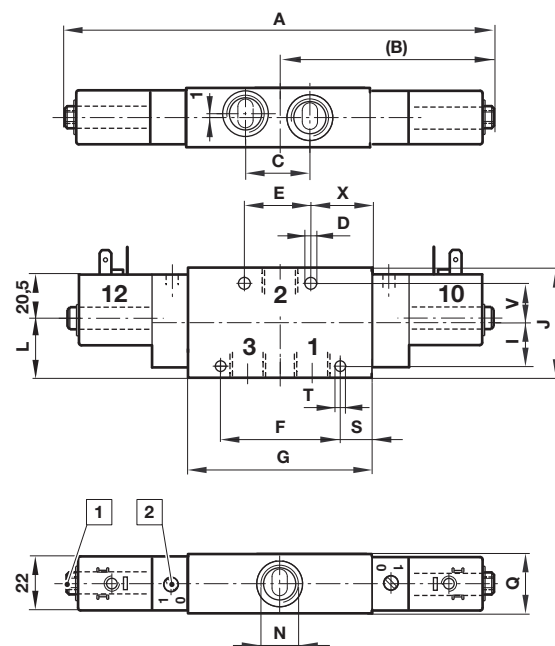
1 Collected pilot exhaust (M5)

2 Manual Override

3 V62: Central mounting hole (left hole is not applicable) and square end cover

4 External pilot port, M5 or 10-32 UNF (V60, V61 & V62), G1/8 or 1/8-27 NPT (V63)

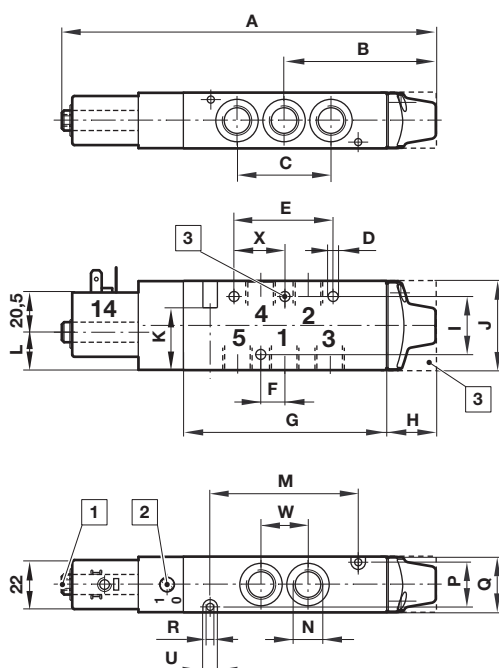
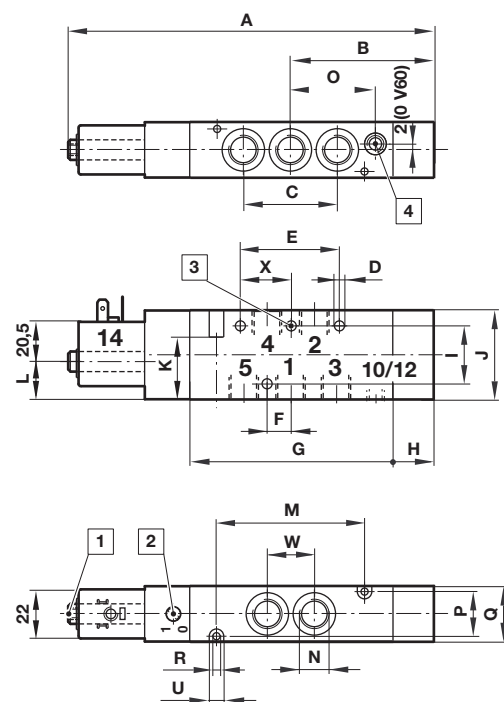
No.	A	B	C	ØD	E	F	G	H	I	J	K	L	M	N	O	P	Q	ØR	S	ØT	ØU	V	X	Model
1	125	45	16	4,5	18	25	56	17	26	35	28	12	35	G1/8	—	17	22	3,2	—	—	6,5	—	19	V60A417A—...
1	147	57,5	21	4,5	24	32	70	22,5	26	40	28	17	46	G1/4	—	20	25	3,2	—	—	6,5	—	23	V61B417A—...
1	166,5	70	24,5	4,5	26	—	83,5	28	36	55	44	32	54	G3/8	—	28	34	4,5	—	—	8,0	23	30	V62C417A—...
2	197	87,5	38	7	46	75	108	33,5	26	65	—	38	—	G1/2	—	—	35	—	18,5	5,5	—	—	36	V63D417A—...
3	116,5	37	16	4,5	18	25	56	9	26	35	28	12	35	G1/8	—	17	22	3,2	—	—	6,5	—	19	V60A413A—...
3	132,5	43	21	4,5	24	32	70	8	26	40	28	17	46	G1/4	—	20	25	3,2	—	—	6,5	—	23	V61B413A—...
3	147	50,5	24,5	4,5	26	—	83,5	9	36	55	44	32	54	G3/8	—	28	34	4,5	—	—	8,0	—	30	V62C413A—...
3	116,5	37	16	4,5	18	25	56	9	26	35	28	12	35	G1/8	22	17	22	3,2	—	—	6,5	—	19	V60A423A—...
3	132,5	43	21	4,5	24	32	70	8	26	40	28	17	46	G1/4	29	20	25	3,2	—	—	6,5	—	23	V61B423A—...
3	147	50,5	24,5	4,5	26	—	83,5	9	36	55	44	32	54	G3/8	—	28	34	4,5	—	—	8,0	—	30	V62C423A—...
4	190	80	38	7,0	46	75	108	26	26	65	—	38	—	G1/2	—	—	35	—	18,5	5,5	—	23	36	V63D413A—...
4	190	80	38	7,0	46	75	108	26	26	65	—	38	—	G1/2	45	—	35	—	18,5	5,5	—	23	36	V63D423A—...

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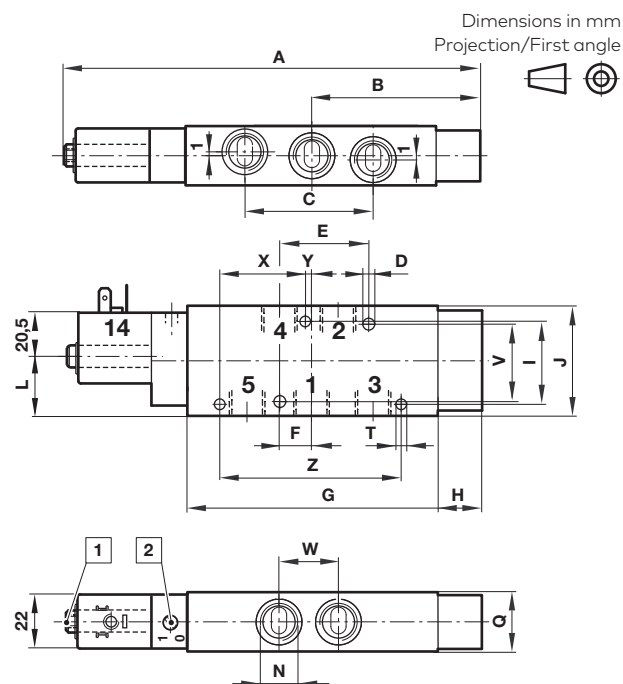
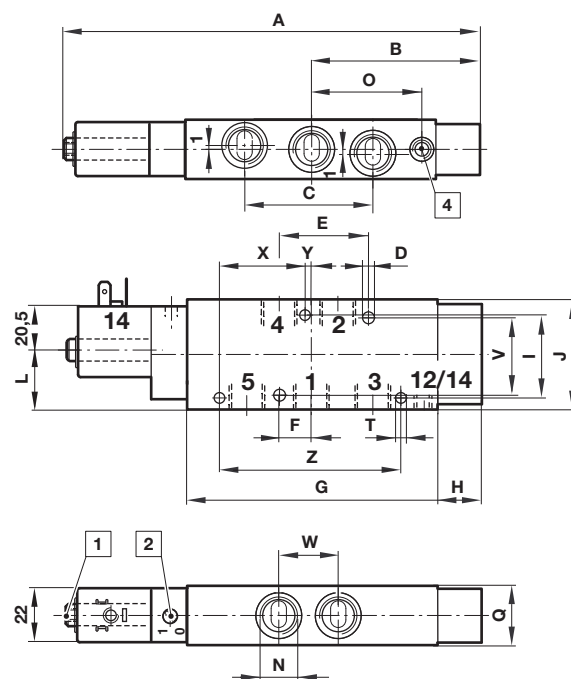
- 1 Collected pilot exhaust (M5)
2 Manual Override

- 3 V62: Central mounting hole (left hole is not applicable) and square end cover

No.	A	B	C	ØD	E	F	G	H	I	J	K	L	M	N	P	Q	ØR	S	ØT	ØU	V	X	Model
5	116,5	37	16	4,5	18	7	56	9	26	35	28	12	35	G1/8	17	22	3,2	—	—	6,5	—	19	V60A313A—...
5	132,5	43	21	4,5	24	8	70	8	26	40	28	17	46	G1/4	20	25	3,2	—	—	6,5	—	23	V61B313A—...
5	147	50,5	24,5	4,5	26	—	83,5	9	36	55	44	32	54	G3/8	28	34	4,5	—	—	8,0	—	28	V62C313A—...
6	190	80	38	7,0	46	75	108	26	26	65	—	38	—	G1/2	—	35	—	14,5	5,5	—	23	26	V63D313A—...
7	159,5	79,5	16	4,5	18	25	56	—	26	35	28	12	35	G1/8	17	22	3,2	—	—	6,5	—	19	V60A411A—...
7	179	89,5	21	4,5	24	32	70	—	26	40	28	17	46	G1/4	20	25	3,2	—	—	6,5	—	23	V61B411A—...
7	193,5	97	24,5	4,5	26	—	83,5	—	36	55	44	32	54	G3/8	28	34	4,5	—	—	8,0	—	30	V62C411A—...
8	219	109,5	38	7,0	46	75	108	—	26	65	—	38	—	G1/2	—	35	—	18,5	5,5	—	23	36	V63D411A—...

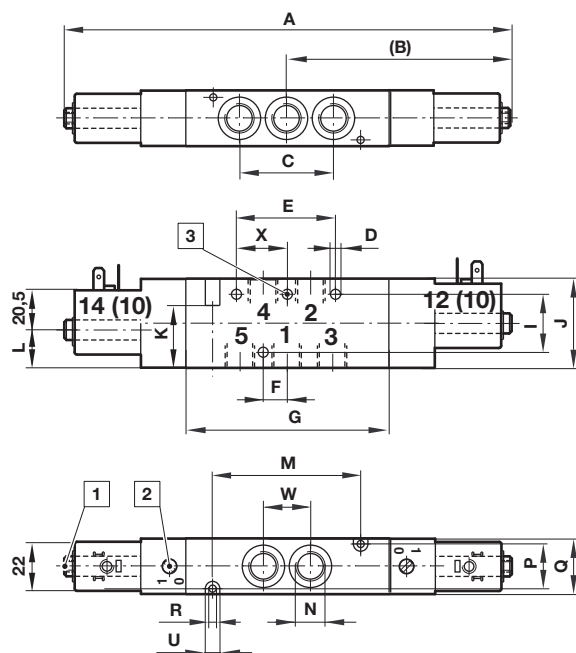
9

11

1 Collected pilot exhaust (M5)

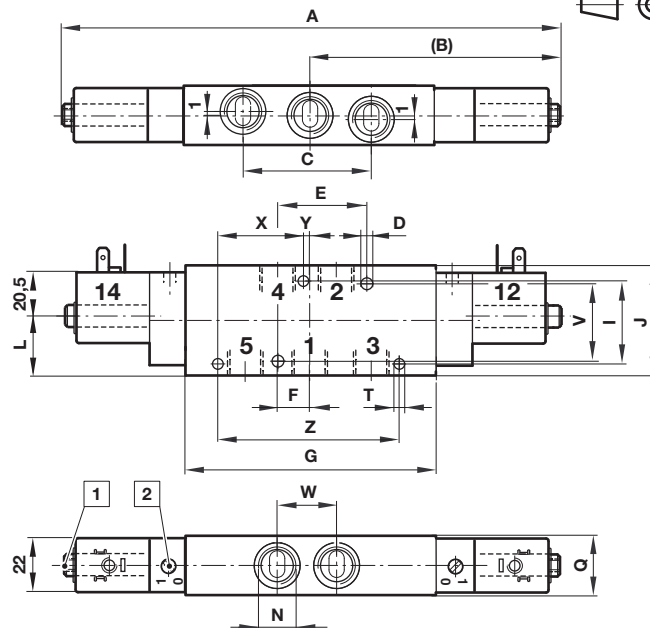
2 Manual Override

10

12

3 V62: Central mounting hole (left hole is not applicable) and square end cover

4 External pilot port, M5 or 10-32 UNF (V60, V61 & V62), G1/8 or 1/8-27 NPT (V63)

No.	A	B	C	ØD	E	F	G	H	I	J	K	L	M	N	O	P	Q	ØR	ØT	ØU	V	W	X	Y	Z	Model
9	140	52,5	32,5	4,5	33,5	8	71	17	26	35	28	12	50	G1/8	—	17	22	3,2	—	6,5	—	16	17	—	—	V60A517A—...
9	167	67,5	42	4,5	44	10	90	22,5	26	40	28	17	66	G1/4	—	20	25	3,2	—	6,5	—	21	22	—	—	V61B517A—...
9	191	82	49	4,5	—	12	108	28	36	55	44	32	78	G3/8	—	28	34	4,5	—	8,0	—	24,5	26	—	—	V62C517A—...
10	235	106,5	76	7,0	60	19	146	33,5	52	65	—	38	—	G1/2	—	—	35	—	5,5	—	46	38	57,5	3	115	V63D517A—...
11	132	44,5	32,5	4,5	33,5	8	71	9	26	35	28	12	50	G1/8	—	17	22	3,2	—	6,5	—	16	17	—	—	V60A513A—...
11	153	53	42	4,5	44	10	90	8	26	40	28	17	66	G1/4	—	20	25	3,2	—	6,5	—	21	22	—	—	V61B513A—...
11	171,5	62,5	49	4,5	—	12	108	8,5	36	55	44	32	78	G3/8	—	28	34	4,5	—	8,0	—	24,5	26	—	—	V62C513A—...
12	228	99	76	7,0	60	19	146	26	52	65	—	38	—	G1/2	—	—	35	—	5,5	—	46	38	57,5	3	115	V63D513A—...
11	132	44,5	32,5	4,5	33,5	8	71	9	26	35	28	12	50	G1/8	29,5	17	22	3,2	—	6,5	—	16	17	—	—	V60A523A—...
11	153	53	42	4,5	44	10	90	8	26	40	28	17	66	G1/4	39	20	25	3,2	—	6,5	—	21	22	—	—	V61B523A—...
11	171,5	62,5	49	4,5	—	12	108	8,5	36	55	44	32	78	G3/8	48	28	34	4,5	—	8,0	—	24,5	26	—	—	V62C523A—...
12	228	99	76	7,0	60	19	146	26	52	65	—	38	—	G1/2	64	—	35	—	5,5	—	46	38	57,5	3	115	V63D523A—...

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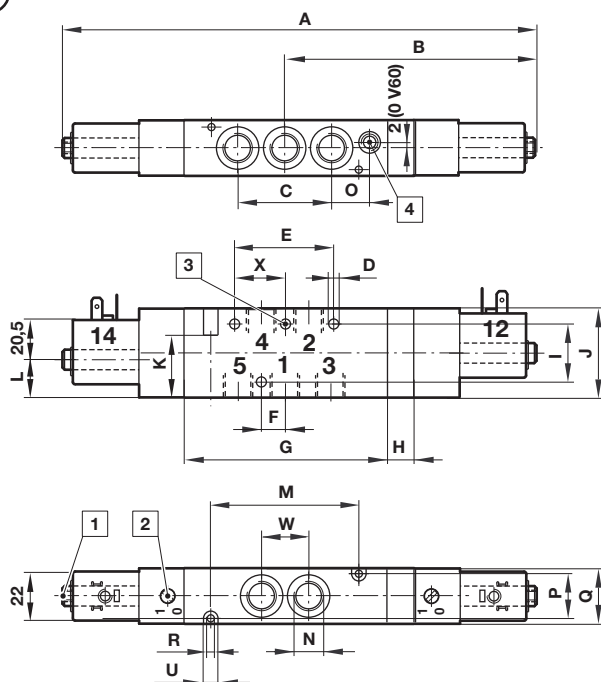
 Dimensions in mm
 Projection/First angle

1 Collected pilot exhaust (M5)

2 Manual Override

3 V62: Central mounting hole (left hole is not applicable)

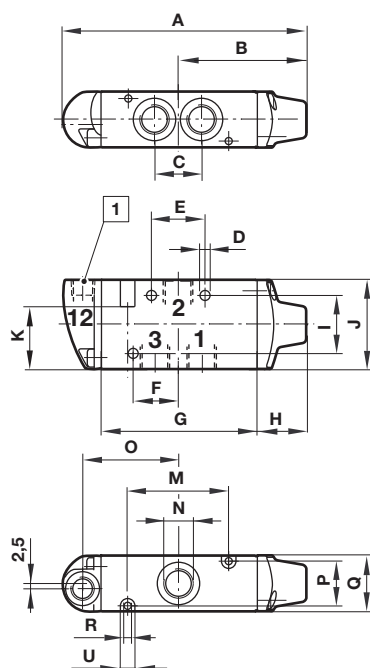
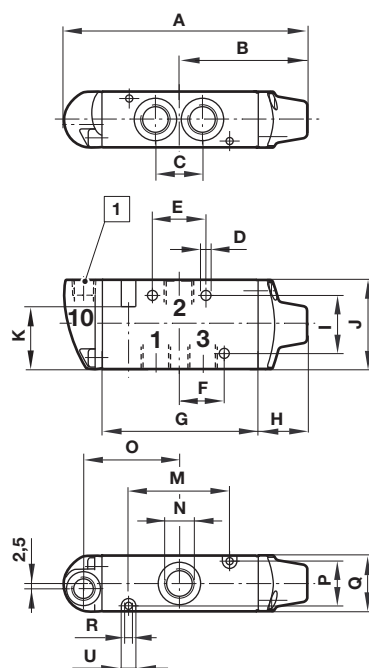
No.	A	B	C	ØD	E	F	G	I	J	K	L	M	N	P	Q	ØR	ØT	ØU	V	W	X	Y	Z	Model
13	174,5	87,5	32,5	4,5	33,5	8	71	26	35	28	12	50	G1/8	17	22	3,2	—	6,5	—	16	17	—	—	V60A511A—...
13	174,5	87,5	32,5	4,5	33,5	8	71	26	35	28	12	50	G1/8	17	22	3,2	—	6,5	—	16	17	—	—	V60AA11A—...
13	174,5	87,5	32,5	4,5	33,5	8	71	26	35	28	12	50	G1/8	17	22	3,2	—	6,5	—	16	17	—	—	V60AB11A—...
13	174,5	87,5	32,5	4,5	33,5	8	71	26	35	28	12	50	G1/8	17	22	3,2	—	6,5	—	16	17	—	—	V60AC11A—...
13	199	99,5	42	4,5	44	10	90	26	40	28	17	66	G1/4	20	25	3,2	—	6,5	—	21	22	—	—	V61B511A—...
13	199	99,5	42	4,5	44	10	90	26	40	28	17	66	G1/4	20	25	3,2	—	6,5	—	21	22	—	—	V61BA11A—...
13	199	99,5	42	4,5	44	10	90	26	40	28	17	66	G1/4	20	25	3,2	—	6,5	—	21	22	—	—	V61BB11A—...
13	199	99,5	42	4,5	44	10	90	26	40	28	17	66	G1/4	20	25	3,2	—	6,5	—	21	22	—	—	V61BC11A—...
13	218	109	49	4,5	—	12	108	36	55	44	32	78	G3/8	28	34	4,5	—	8,0	—	24,5	26	—	—	V62C511A—...
13	218	109	49	4,5	—	12	108	36	55	44	32	78	G3/8	28	34	4,5	—	8,0	—	24,5	26	—	—	V62CA11A—...
13	218	109	49	4,5	—	12	108	36	55	44	32	78	G3/8	28	34	4,5	—	8,0	—	24,5	26	—	—	V62CB11A—...
13	218	109	49	4,5	—	12	108	36	55	44	32	78	G3/8	28	34	4,5	—	8,0	—	24,5	26	—	—	V62CC11A—...
14	257	128,5	76	7,0	60	19	146	52	65	—	38	—	G1/2	—	35	—	5,5	—	46	38	57,5	3	115	V63D511A—...

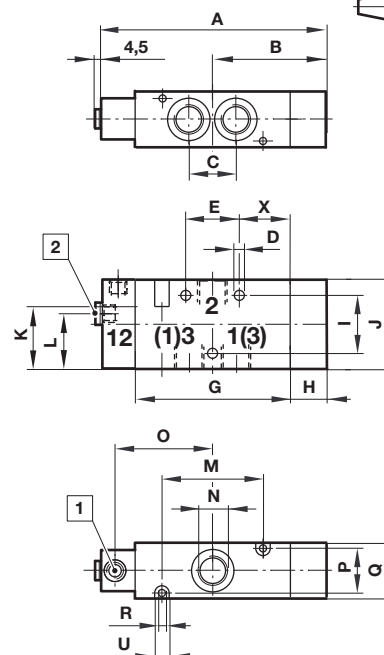
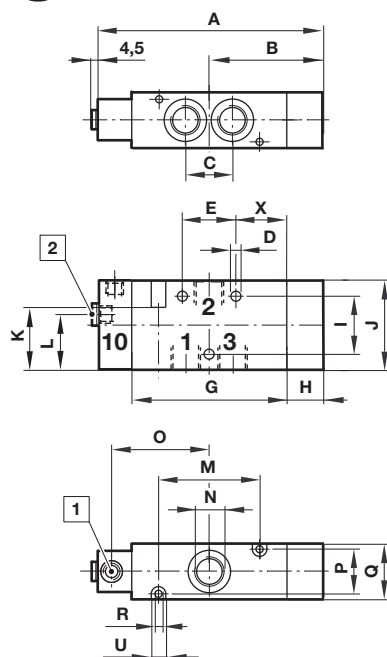
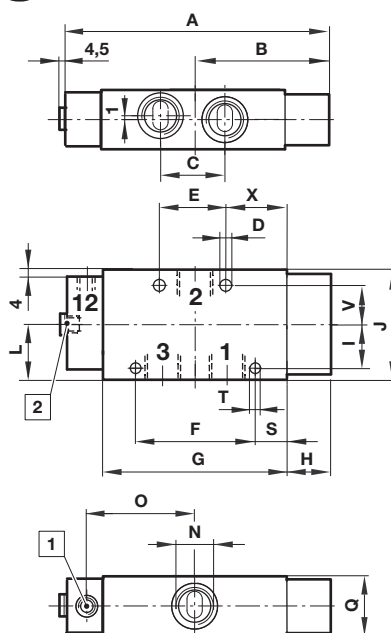
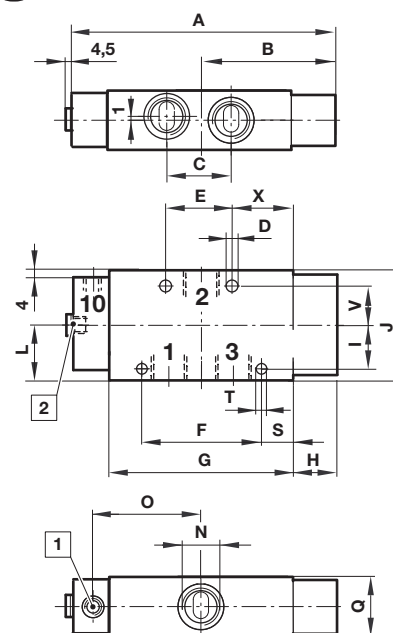
15

Dimensions in mm
Projection/First angle


- 1** Collected pilot exhaust (M5)
- 2** Manual Override
- 3** V62: Central mounting hole (left hole is not applicable) and square end cover
- 4** External pilot port, M5 or 10-32 UNF (V60, V61 & V62)

No.	A	B	C	ØD	E	F	G	H	I	J	K	L	M	N	O	P	Q	ØR	ØU	W	X	Model
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A611A—...
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A622A—...
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A711A—...
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A722A—...
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A811A—...
15	188,5	101,5	32,5	4,5	33,5	8	71	14	26	35	28	12	50	G1/8	13	17	22	3,2	6,5	16	17	V60A822A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B611A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B622A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B711A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B722A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B811A—...
15	217	117,5	42	4,5	44	10	90	18	26	40	28	17	66	G1/4	18	20	25	3,2	6,5	21	22	V61B822A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C611A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C622A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C711A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C722A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C811A—...
15	240,5	131,5	49	4,5	—	12	108	22,5	36	55	44	32	78	G3/8	23,5	28	34	4,5	8	24,5	26	V62C811A—...

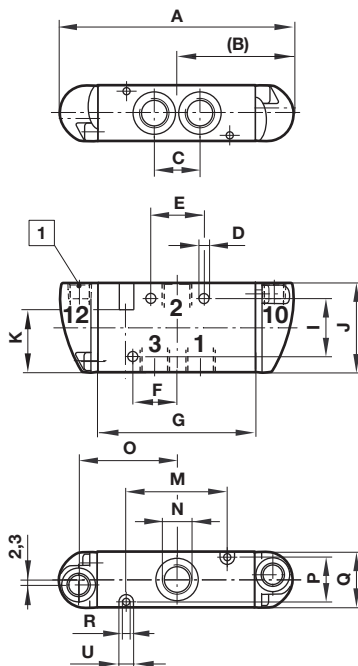
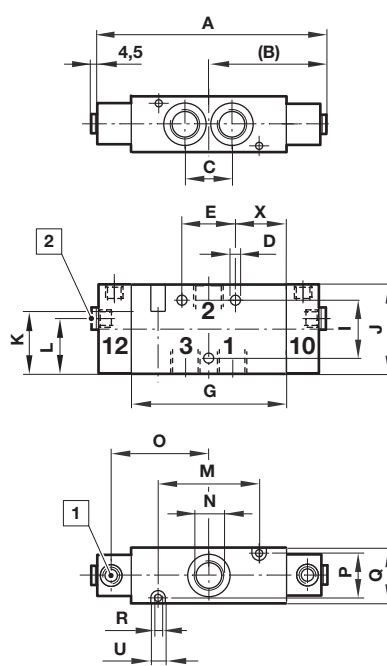
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 Dimensions in mm
 Projection/First angle

34

35

36


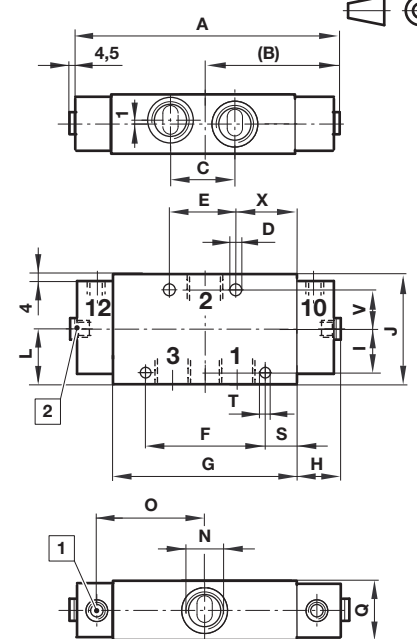
1 Pilot ports G1/8 or 1/8-27 NPT

2 Alternative pilot ports G1/8 or 1/8-27 NPT

No.	A	B	C	ØD	E	F	G	H	I	J	K	L	M	N	O	P	Q	ØR	S	ØT	ØU	V	X	Model
31	89,5	45	16	4,5	18	16	56	17	26	35	28	—	35	G1/8	36	17	22	3,2	—	—	6,5	—	—	V60A4D7A—...
31	110	57,5	21	4,5	24	20	70	22,5	26	40	28	—	46	G1/4	43	20	25	3,2	—	—	6,5	—	—	V61B4D7A—...
32	89,5	45	16	4,5	18	16	56	17	26	35	28	—	35	G1/8	36	17	22	3,2	—	—	6,5	—	—	V60A3D7A—...
32	110	57,5	21	4,5	24	20	70	22,5	26	40	28	—	46	G1/4	43	20	25	3,2	—	—	6,5	—	—	V61B3D7A—...
33	132	70	24,5	4,5	26	—	83,5	28	36	55	—	33,5	54	G3/8	52	28	34	4,5	—	—	8,0	—	30	V62C4D7A—...
34	132	70	24,5	4,5	26	—	83,5	28	36	55	—	33,5	54	G3/8	52	28	34	4,5	—	—	8,0	—	28	V62C3D7A—...
35	162	87,5	38	7,0	46	75	108	33,5	26	65	—	39,5	—	G1/2	64	—	35	—	18,5	5,5	—	23	36	V63D4D7A—...
36	162	87,5	38	7,0	46	75	108	33,5	26	65	—	39,5	—	G1/2	64	—	35	—	14,5	5,5	—	23	26	V63D3D7A—...

37

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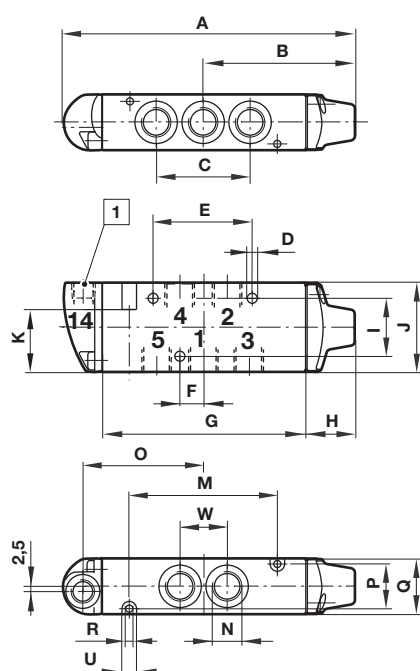
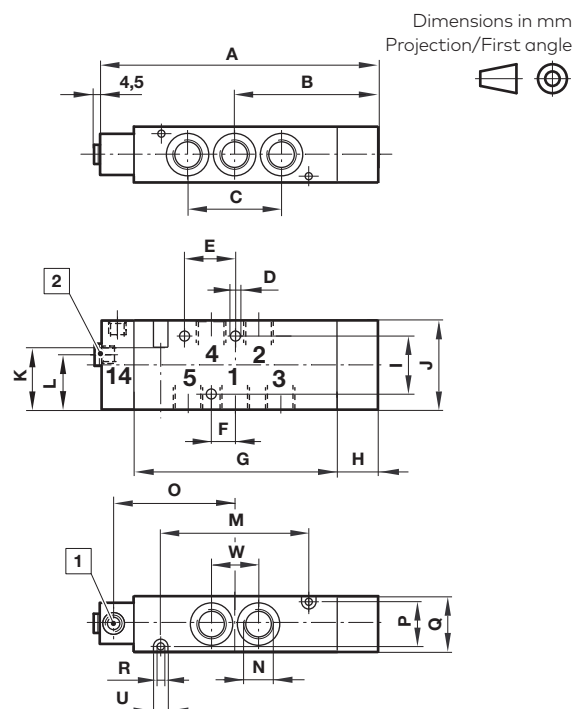
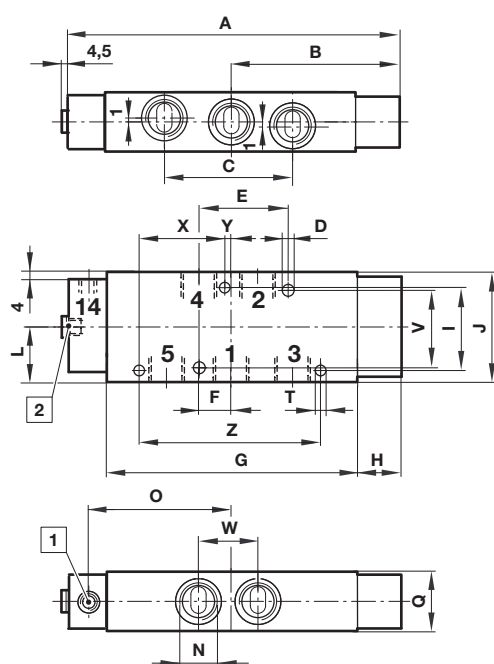
Dimensions in mm
Projection/First angle



1 Pilot ports G1/8 or 1/8-27 NPT

2 Alternative pilot ports G1/8 or 1/8-27 NPT

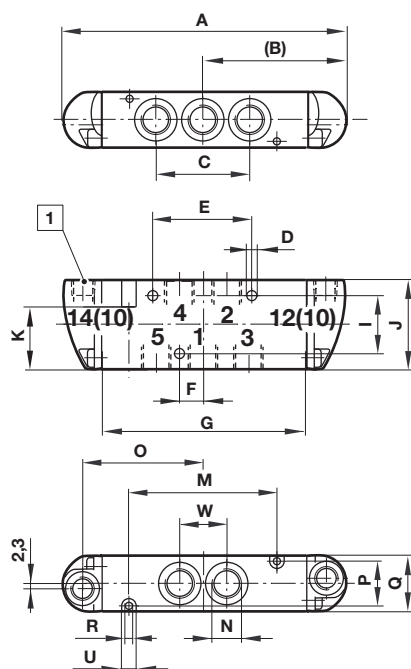
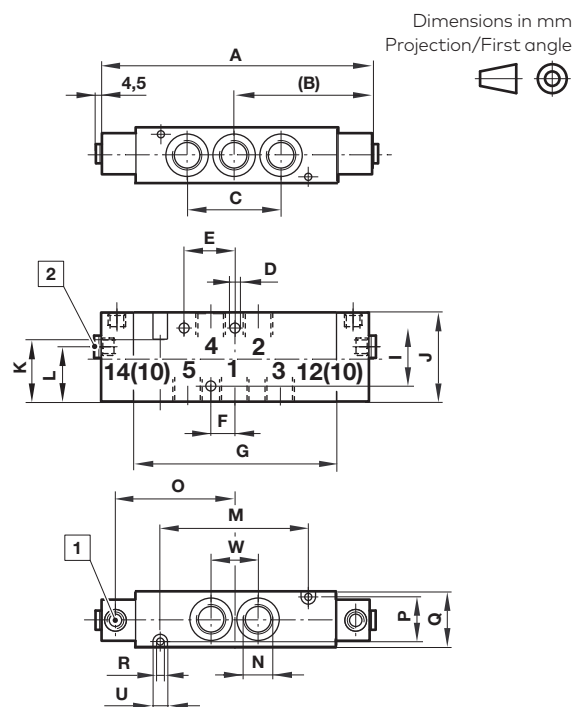
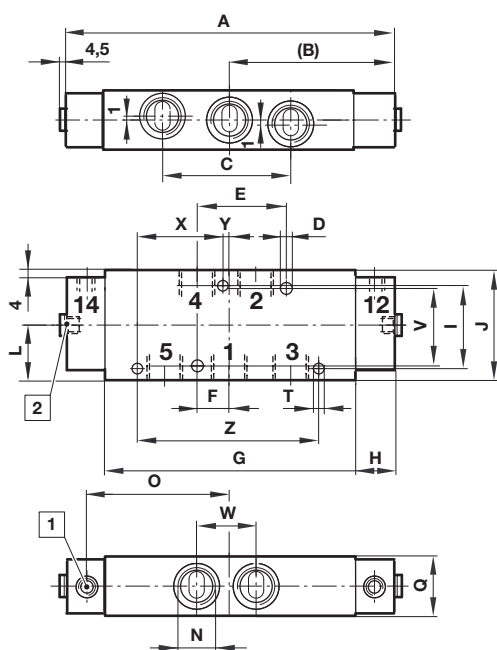
No.	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	X	Model
37	89	44,5	16	4,5	18	16	56	26	35	28	—	35	G1/8	36	17	22	3,2	—	—	6,5	—	—	V60A4DDA—...
37	104	52	21	4,5	24	20	70	26	40	28	—	46	G1/4	43	20	25	3,2	—	—	6,5	—	—	V61B4DDA—...
38	124	62	24,5	4,5	26	—	83,5	36	55	44	33,5	54	G3/8	52	28	34	4,5	—	—	8,0	—	30	V62C4DDA—...
39	148	74	38	7,0	46	75	108	26	65	—	39,5	—	G1/2	64	—	35	—	18,5	5,5	—	23	36	V63D4DDA—...

40

41

42


1 Pilot ports G1/8 or 1/8-27 NPT

2 Alternative pilot ports G1/8 or 1/8-27 NPT

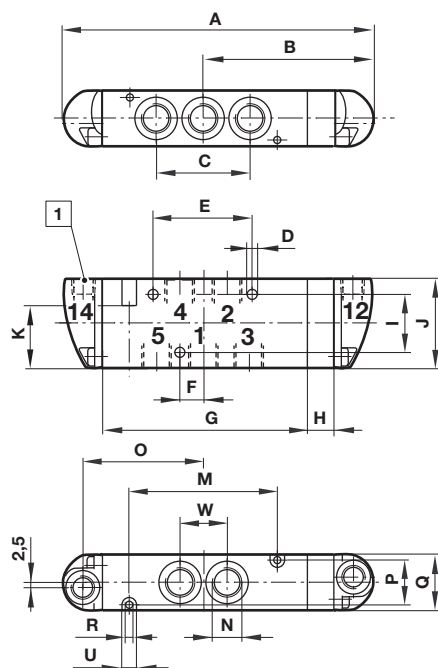
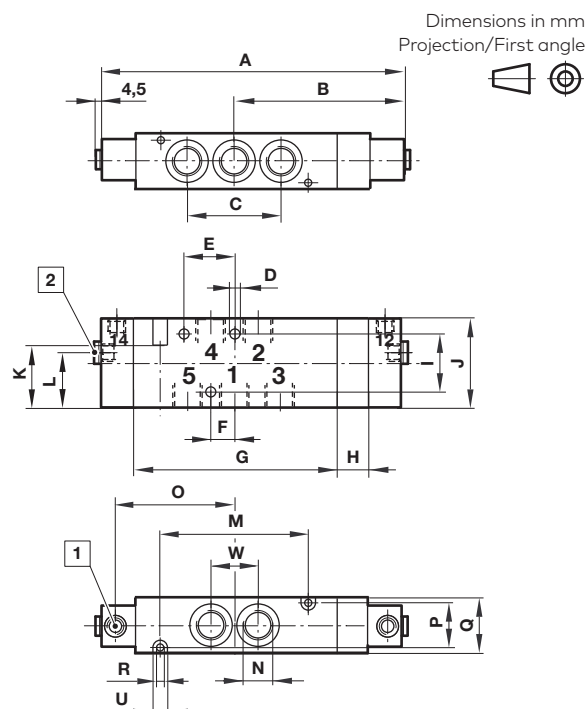
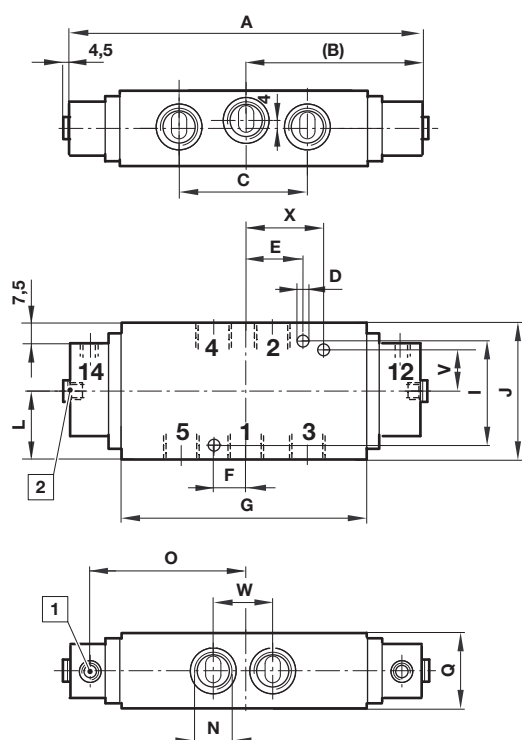
No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	U	V	W	X	Y	Z	Model
40	105	52,5	32,5	4,5	33,5	8	71	17	26	35	28	—	50	G1/8	43,5	17	22	3,2	—	6,5	—	16	—	—	—	V60A5D7A—...
40	130	67,5	42	4,5	44	10	90	22,5	26	40	28	—	66	G1/4	53	20	25	3,2	—	6,5	—	21	—	—	—	V61B5D7A—...
41	156	82	49	4,5	26	12	108	28	36	55	44	33,5	78	G3/8	64	28	34	4,5	—	8,0	—	24,5	—	—	—	V62C5D7A—...
42	200	106,5	76	7,0	60	19	146	33,5	52	65	—	39,5	—	G1/2	83	—	35	—	5,5	—	46	38	57,5	3	115	V63D5D7A—...

43

44

45


1 Pilot ports G1/8 or 1/8-27 NPT

2 Alternative pilot ports G1/8 or 1/8-27 NPT

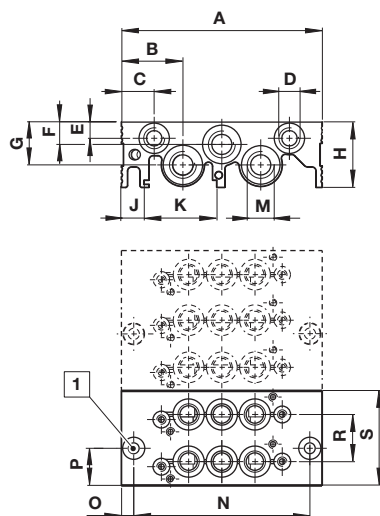
No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	T	U	V	W	X	Z	Model
43	104,5	52,5	32,5	4,5	33,5	8	71	—	26	35	28	—	50	G1/8	44	17	22	3,2	—	6,5	—	16	—	—	V60A5DDA—...
43	104,5	52,5	32,5	4,5	33,5	8	71	—	26	35	28	—	50	G1/8	44	17	22	3,2	—	6,5	—	16	—	—	V60A5DDA—...
43	104,5	52,5	32,5	4,5	33,5	8	71	—	26	35	28	—	50	G1/8	44	17	22	3,2	—	6,5	—	16	—	—	V60ABDDA—...
43	104,5	52,5	32,5	4,5	33,5	8	71	—	26	35	28	—	50	G1/8	44	17	22	3,2	—	6,5	—	16	—	—	V60ACDDA—...
43	124	62	42	4,5	44	10	90	—	26	40	28	—	66	G1/4	53	20	25	3,2	—	6,5	—	21	—	—	V61B5DDA—...
43	124	62	42	4,5	44	10	90	—	26	40	28	—	66	G1/4	53	20	25	3,2	—	6,5	—	21	—	—	V61BADDA—...
43	124	62	42	4,5	44	10	90	—	26	40	28	—	66	G1/4	53	20	25	3,2	—	6,5	—	21	—	—	V61BBDDA—...
43	124	62	42	4,5	44	10	90	—	26	40	28	—	66	G1/4	53	20	25	3,2	—	6,5	—	21	—	—	V61BCDDA—...
44	148	74	49	4,5	26	12	108	—	36	55	44	33,5	78	G3/8	64	28	34	4,5	—	8,0	—	24,5	—	—	V62C5DDA—...
44	148	74	49	4,5	26	12	108	—	36	55	44	33,5	78	G3/8	64	28	34	4,5	—	8,0	—	24,5	—	—	V62CADD A—...
44	148	74	49	4,5	26	12	108	—	36	55	44	33,5	78	G3/8	64	28	34	4,5	—	8,0	—	24,5	—	—	V62CBDDA—...
44	148	74	49	4,5	26	12	108	—	36	55	44	33,5	78	G3/8	64	28	34	4,5	—	8,0	—	24,5	—	—	V62CCDDA—...
45	186	93	76	7,0	60	19	146	—	52	65	—	39,5	—	G1/2	83	—	35	—	5,5	—	46	38	57,5	115	V63D5DDA—...

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47

48


- 1 Pilot ports G1/8 or 1/8-27 NPT
2 Alternative pilot ports G1/8 or 1/8-27 NPT

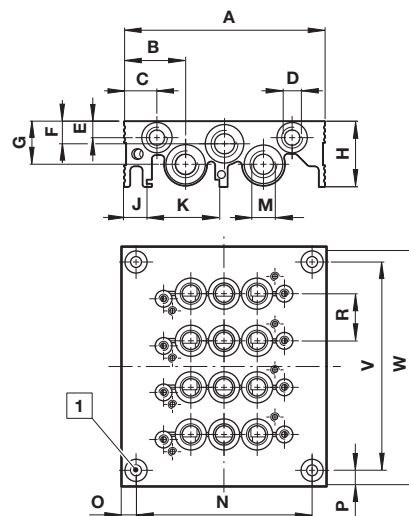
No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	U	V	W	X	Model
46	118,5	66	32,5	4,5	33,5	8	71	14	26	35	28	—	50	G1/8	43,5	17	22	3,2	6,5	—	16	—	V60A6DDA—...
46	118,5	66	32,5	4,5	33,5	8	71	14	26	35	28	—	50	G1/8	43,5	17	22	3,2	6,5	—	16	—	V60A7DDA—...
46	118,5	66	32,5	4,5	33,5	8	71	14	26	35	28	—	50	G1/8	43,5	17	22	3,2	6,5	—	16	—	V60A8DDA—...
46	142	80	42	4,5	44	10	90	18	26	40	28	—	66	G1/4	53	20	25	3,2	6,5	—	21	—	V61B6DDA—...
46	142	80	42	4,5	44	10	90	18	26	40	28	—	66	G1/4	53	20	25	3,2	6,5	—	21	—	V61B7DDA—...
46	142	80	42	4,5	44	10	90	18	26	40	28	—	66	G1/4	53	20	25	3,2	6,5	—	21	—	V61B8DDA—...
47	170,5	96,5	49	4,5	26	12	108	22,5	36	55	44	33,5	78	G3/8	64	28	34	4,5	8,0	—	24,5	—	V62C6DDA—...
47	170,5	96,5	49	4,5	26	12	108	22,5	36	55	44	33,5	78	G3/8	64	28	34	4,5	8,0	—	24,5	—	V62C7DDA—...
47	170,5	96,5	49	4,5	26	12	108	22,5	36	55	44	33,5	78	G3/8	64	28	34	4,5	8,0	—	24,5	—	V62C8DDA—...
48	216	108	66	7,0	34	16	160	—	50	70	—	41	—	G1/2	98	—	40	—	—	21	33	44	V63D6DDA—...
48	216	108	66	7,0	34	16	160	—	50	70	—	41	—	G1/2	98	—	40	—	—	21	33	44	V63D7DDA—...

Sub bases 2 and 3 stations



Sub bases 4 to 12 stations

Dimensions in mm
Projection/First angle



1 For M5 bolts only

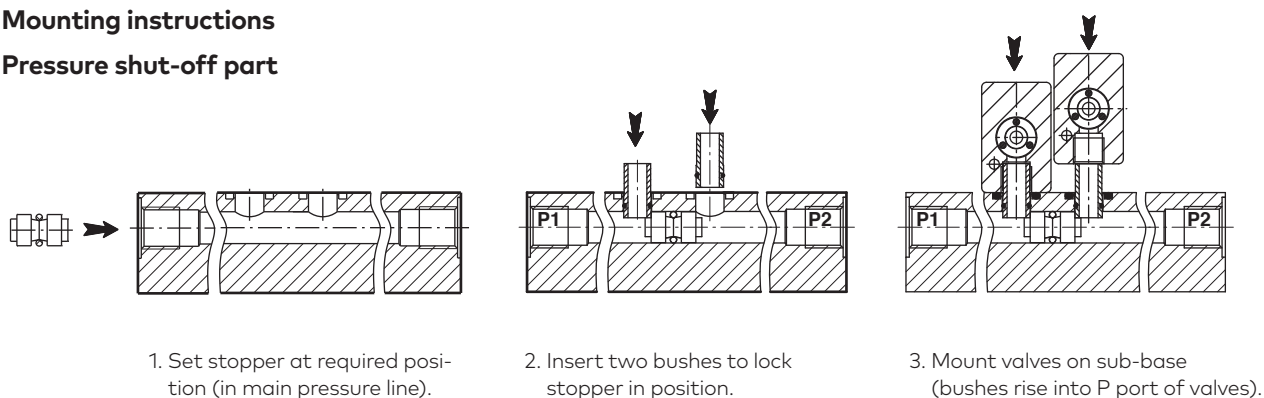
Series	Valve—stations	A	B	C	D	E	F	G	H	J	K	M	N	O	P	R	S	V *2)	W *2)	Weight (kg) *2)	Model
V60	2	98	30	16	G1/8	8	11	21	32	11	35,5	G1/4	86	6	28	23	46	—	46	0,23	2221002
V60	3	98	30	16	G1/8	8	11	21	32	11	35,5	G1/4	86	6	28	23	69	—	69	0,28	2221003
V60	4 » 12	98	30	16	G1/8	8	11	21	32	11	35,5	G1/4	86	6	6,5	23	—	(N x 23) +10	(N x 23) +23	4 stations = 0,61 *2)	22210*1)
V61	2	104	26	9	G1/8	8	13	20	33	10	35,5	G3/8	24	40	26	26	52	—	52	0,28	2221102
V61	3	104	26	9	G1/8	8	13	20	33	10	35,5	G3/8	24	40	52	26	78	—	78	0,45	2221103
V61	4 » 12	104	26	9	G1/8	8	13	20	33	10	35,5	G3/8	24	40	6,5	26	—	(N x 26) +10	(N x 26) +23	4 stations = 0,72 *2)	22211*1)
V62	2	120	29	9	G1/8	8	15	22	38	12	35,5	G1/2	32	44	35	35	70	—	70	0,50	2221202
V62	3	120	29	9	G1/8	8	15	22	38	12	35,5	G1/2	32	44	70	35	105	—	105	0,85	2221203
V62	4 » 12	120	29	9	G1/8	8	15	22	38	12	35,5	G1/2	32	44	7	35	—	(N x 35) +12	(N x 35) +26	4 stations = 1,25 *2)	22212*1)

*1) Insert sub—base code after model numbers: 04, 06, 08, 10 and 12 corresponding the stations

*2) Add +0,25 for two further stations V60 series, +0,30 for V61 and +0,54 for V62 series

Mounting instructions

Pressure shut-off part

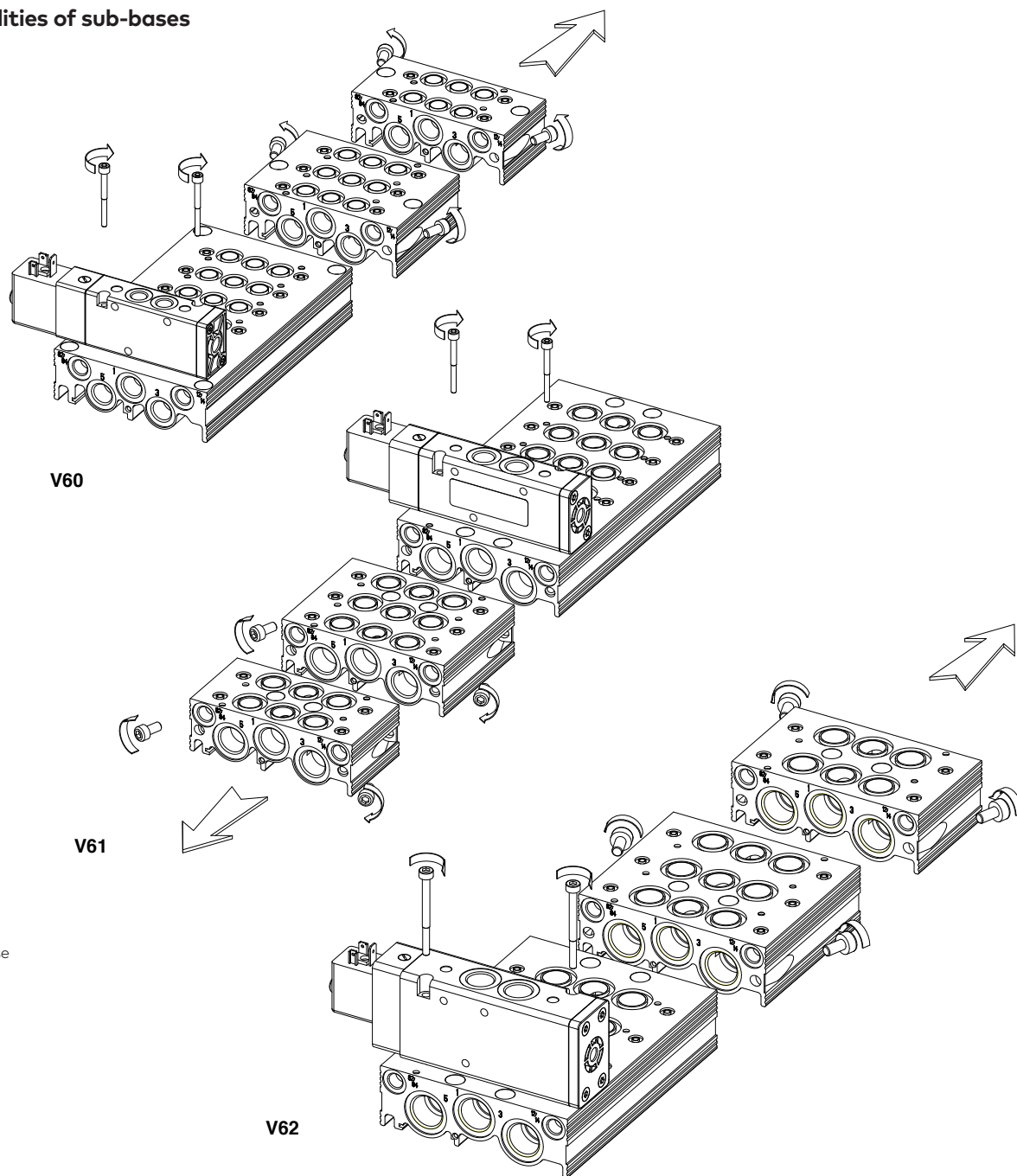


1. Set stopper at required position (in main pressure line).

2. Insert two bushes to lock stopper in position.

3. Mount valves on sub-base (bushes rise into P port of valves).

Extension possibilities of sub-bases



Screw torque for sub-base

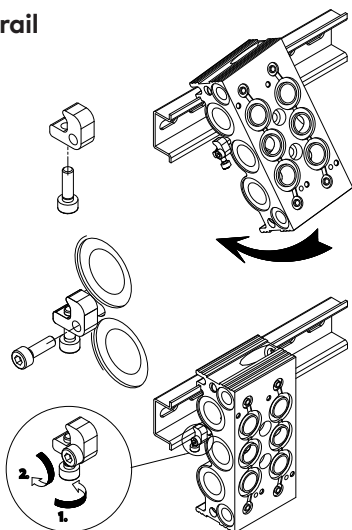
M3 = 0,7 +0,3 Nm

M4 = 1,6 +0,5 Nm

M5 = 3,4 +0,5 Nm

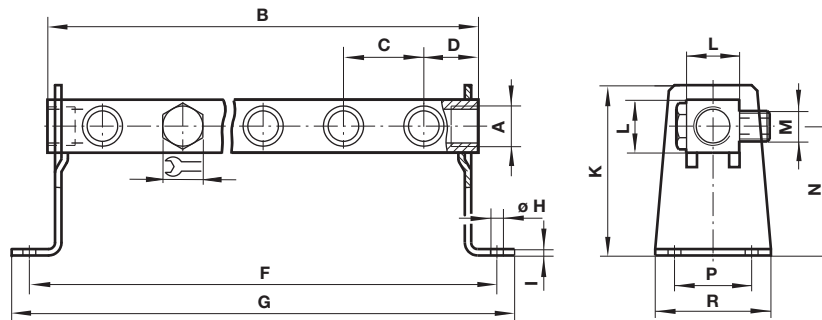
M6 = 5,2 +0,5 Nm

Mounting kit for DIN rail



Manifold for common pressure supply

Dimensions in mm
Projection/First angle



Series	Valve stations	A	B	C	D	E	F	G	Ø H	I	K	L	M	N	P	R	Weight (kg)	Model
V60	2	G1/4	76	32	22	14	90	106	6,5	2,5	60	16	G1/8	48	28	42	0,053	2639622
V60	3	G1/4	108	32	22	14	122	138	6,5	2,5	60	16	G1/8	48	28	42	0,075	2639623
V60	4	G1/4	140	32	22	14	154	170	6,5	2,5	60	16	G1/8	48	28	42	0,099	2639624
V60	5	G1/4	172	32	22	14	186	202	6,5	2,5	60	16	G1/8	48	28	42	0,123	2639625
V60	6	G1/4	204	32	22	14	218	234	6,5	2,5	60	16	G1/8	48	28	42	0,147	2639626
V60	7	G1/4	236	32	22	14	250	266	6,5	2,5	60	16	G1/8	48	28	42	0,174	2639627
V60	8	G1/4	268	32	22	14	282	298	6,5	2,5	60	16	G1/8	48	28	42	0,194	2639628
V60	9	G1/4	300	32	22	14	314	330	6,5	2,5	60	16	G1/8	48	28	42	0,209	2639629
V60	10	G1/4	332	32	22	14	346	362	6,5	2,5	60	16	G1/8	48	28	42	0,230	2639630
V60	12	G1/4	396	32	22	14	410	426	6,5	2,5	60	16	G1/8	48	28	42	0,280	2639632
V61	2	G3/8	85	35	25	19	100	116	6,5	3	75	23	G1/4	57	35	50	0,130	2639422
V61	3	G3/8	120	35	25	19	135	151	6,5	3	75	23	G1/4	57	35	50	0,192	2639423
V61	4	G3/8	155	35	25	19	170	186	6,5	3	75	23	G1/4	57	35	50	0,250	2639424
V61	5	G3/8	190	35	25	19	205	221	6,5	3	75	23	G1/4	57	35	50	0,309	2639425
V61	6	G3/8	225	35	25	19	240	256	6,5	3	75	23	G1/4	57	35	50	0,367	2639426
V61	7	G3/8	260	35	25	19	275	291	6,5	3	75	23	G1/4	57	35	50	0,421	2639427
V61	8	G3/8	295	35	25	19	310	326	6,5	3	75	23	G1/4	57	35	50	0,482	2639428
V61	9	G3/8	330	35	25	19	345	361	6,5	3	75	23	G1/4	57	35	50	0,537	2639429
V61	10	G3/8	365	35	25	19	380	396	6,5	3	75	23	G1/4	57	35	50	0,595	2639430
V61	12	G3/8	435	35	25	19	450	466	6,5	3	75	23	G1/4	57	35	50	0,642	2639432

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

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