

EXCEL 32 - V03, V04 & V05 SERIES

Solenoid actuated 32 mm poppet valves

In-line & sub-base mounted 2/2 & 3/2, G1/8, G1/4



Extensive range of power and orifice size options

Compact installation

Removeable coil

Standard exhaust diffuser

Operating pressure:

Maximum 16 bar

See individual details

Ambient temperature:

-20°C ... +50°C

Consult our Technical Service for use below +2°C.

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated or non-lubricated

Flow:

Orifice Ø	Interface	G1/8, G1/4
1,0	25	30
1,5	55	70
2,0	95	120
2,5	150	190
3,0	-	260

MATERIALS

Coil: glass reinforced nylon

Armature: stainless iron

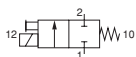
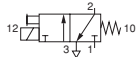
Tube & spring: stainless steel

Base: zinc alloy (G1/8), brass (G1/4), polyester (interface)

Manifold: aluminium

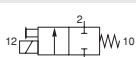
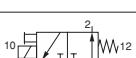
Seals: nitrile (Viton top seat)

V03

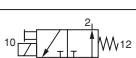
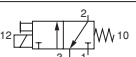
Symbol	Actuation	Orifice (mm)	Operating pressure (bar)	Mounting	MODELS
	2/2 NC	1,0	0 ... 10	Interface	V03X286J-B613A
	2/2 NC	1,0	0 ... 10	G1/8	V03A286J-B613A
	3/2 NC	1,0	0 ... 10	Interface	V03X486J-B613A
	3/2 NC	1,0	0 ... 10	G1/8	V03A486J-B613A

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

V04

Symbol	Actuation	Orifice (mm)	Operating pressure (bar)	Mounting	MODELS
	2/2 NC	2,5	0 ... 10	Interface	V04X286M-B62*A
	2/2 NC	2,5	0 ... 10	G1/8	V04A286M-B62*A
	2/2 NC	2,5	0 ... 10	G1/4	V04B286M-B42*A
	2/2 NC	3,0	0 ... 7	G1/4	V04B286N-B42*A
	3/2 NO	2,0	0 ... 10	Interface	V04X386L-B62*A
	3/2 NO	2,0	0 ... 10	G1/8	V04A386L-B62*A
	3/2 NC	2,0	0 ... 10	Interface	V04X486L-B62*A
	3/2 NC	2,0	0 ... 10	G1/8	V04A486L-B62*A

V05

Symbol	Actuation	Orifice (mm)	Operating pressure (bar)	Mounting	MODELS
	2/2 NC	2,5	0 ... 16	Interface	V05X286M-B63*A
	2/2 NC	2,5	0 ... 16	G1/8	V05A286M-B63*A
	2/2 NC	2,5	0 ... 16	G1/4	V05B286M-B43*A
	2/2 NC	3,0	0 ... 13	G1/4	V05B286N-B43*A
	3/2 NO	2,5	0 ... 10	Interface	V05X386M-B63*A
	3/2 NO	2,5	0 ... 10	G1/8	V05A386M-B63*A
	3/2 NC	2,5	0 ... 10	Interface	V05X486M-B63*A
	3/2 NC	2,5	0 ... 10	G1/8	V05A486M-B63*A

* Insert voltage codes from table below.

All models are available without manual override. Change 10th 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.

For further information



www.norgren.com/info/en3-174

Voltage codes & spare coils – V04 & V05

Voltage	Code	Coil V04	V05
6 V d.c.	1	V04X286A-Q1221	V05X286A-Q1231
12 V d.c.	2	V04X286A-Q1222	V05X286A-Q1232
24 V d.c.	3	V04X286A-Q1223	V05X286A-Q1233
48 V d.c.	5	V04X286A-Q1225	V05X286A-Q1235
110 V d.c.	7	V04X286A-Q1227	V05X286A-Q1237
24 V 50/60 Hz	4	V04X286A-Q1224	V05X286A-Q1234
48 V 50/60 Hz	6	V04X286A-Q1226	V05X286A-Q1236
110 ...120 V 50/60 Hz	8	V04X286A-Q1228	V05X286A-Q1238
220 ... 240 V 50/60 Hz	9	V04X286A-Q1229	V05X286A-Q1239

ELECTRICAL DETAILS FOR SOLENOID OPERATORS

Voltage tolerance	±10%	
Power consumption	Excel V03	d.c. 1,0 W
Inrush/hold	Excel V04	d.c. 4,5 W
		a.c. 14/10 V A
	Excel V05	d.c. 9,0 W
		a.c. 27/20 V A
Rating	100% E.D.	
Electrical connection	3 pin plug (DIN 43 650 Form A)	
	Coil may be rotated at 90° intervals	
Manual override	Screwdriver operated, memory type, standard	
Protection class	IP 65 (DIN 40 050) with terminal box fitted	

30 mm Plugs according to DIN 43 650 Form A

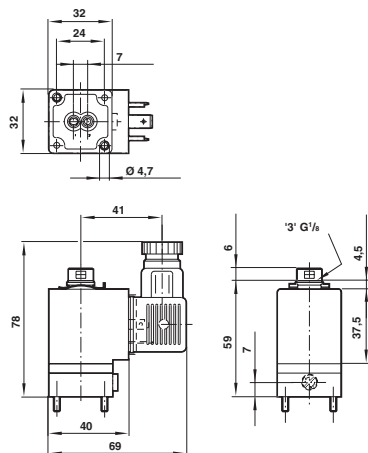
	Connector	Cable length	Voltage		Features	MODELS
			a.c.	d.c.		
	Plug with moulded cable	1000 mm	250 V	250 V	–	M/P43315/1
	Plug with moulded cable	3000 mm	250 V	250 V	–	M/P43315/3
	Plug with cable gland	–	250 V	300 V	–	M/P15737
	Plug with cable gland	–	–	240 V	–	M/P19117
	Plug with cable gland	–	250 V	300 V	–	0570275
	Plug with cable gland	–	12 ... 250 V	12 ... 250 V	–	0663303
	Plug with cable gland	–	12 ... 240 V	12 ... 240 V	–	0570110
	Indicator plug	–	10 ... 50 V	10 ... 50 V	Lamp, surge suppression	M/P24120/1
	Indicator plug	–	70 ... 115 V	70 ... 115 V	Neon, surge suppression	M/P24120/2
	Indicator plug	–	150 ... 240 V	150 ... 240 V	Neon, surge suppression	M/P24120/3
	Indicator plug with moulded cable	1000 mm	24 V	24 V	LED,VDR, surge suppression	M/P43316/11
	Indicator plug with moulded cable	3000 mm	24 V	24 V	LED,VDR, surge suppression	M/P43316/13
	Indicator plug with moulded cable	1000 mm	24 V	24 V	LED,VDR, surge suppression	M/P43316/21
	Indicator plug with moulded cable	3000 mm	110 V	110 V	LED,VDR, surge suppression	M/P43316/23
	Indicator plug with moulded cable	1000 mm	220 V	220 V	LED,VDR, surge suppression	M/P43316/31
	Indicator plug with moulded cable	3000 mm	220 V	220 V	LED,VDR, surge suppression	M/P43316/33
	Light emitting gaskets	–	12 ... 24 V	12 ... 24 V	Green LED, surge suppression	M/P40861
	Light emitting gaskets	–	110 ... 120 V	110 ... 120 V	Green LED, surge suppression	M/P40880
	Light emitting gaskets	–	220 ... 240 V	220 ... 240 V	Green LED, surge suppression	M/P40862

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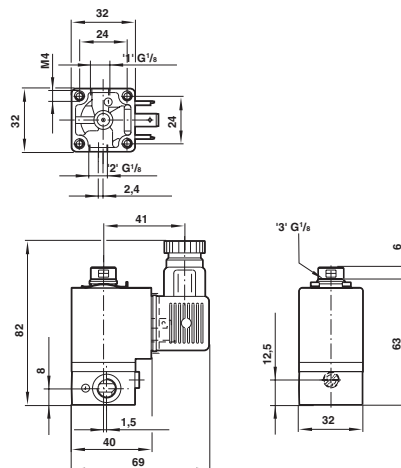
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DIMENSIONS

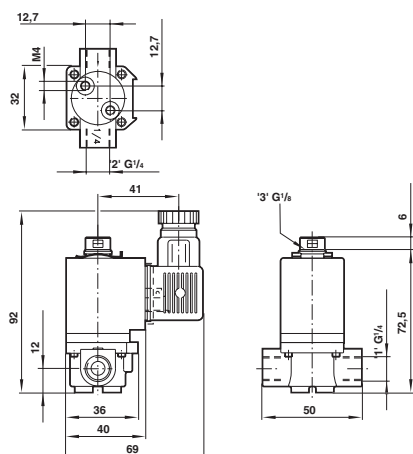
Interface mounted valves



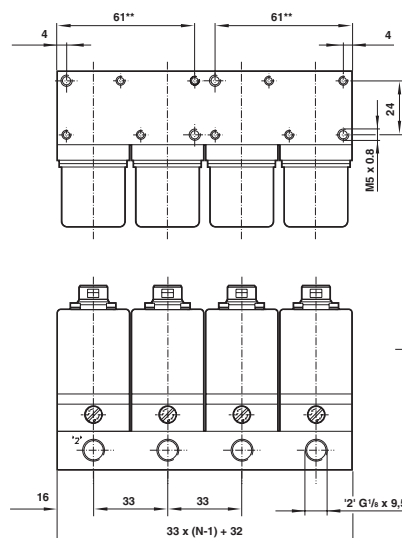
G1/8 Valves



G1/4 Valves



Manifold for use with interface valves



M/P35598/‡
‡ Indicates the number of stations: 1 ... 20
N = number of stations
** Two additional holes with five or more stations
Weight: 0,041 kg/station

ACCESSORIES

Blanking plate - QM/7600/23

Manifold assemblies are available. Contact our Technical Service for details.