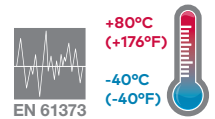


VR24Z Series, 3/2

Direct solenoid actuated poppet valve



- > Flanged version
- > Valve switches at power failure into starting position (mechanical spring return)
- > Suited for outdoor use under critical environment conditions (see solenoid list)
- > Add-on manual override optional
- > Wide temperature range
- > Shock vibration tested to EN 61373, Category 1, class A and B
- > Fire & Smoke (F&S) tested to EN 45545-2 HL3



Technical features

Medium:

Compressed air, filtered, non-lubricated and dry
Other gases and liquid fluids on request

Operation:

Direct solenoid operated poppet valves

Flow direction:

Optional

Mounting position:

Any, but preferably with solenoid vertical

Flow:

Gaseous fluids: 340 l/min
Liquid fluids: Kv 0,34

Port size:

Flanged version, port 3 - G1/8

Orifice:

5 mm

Operating pressure:

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

Ambient/Media temperature:

-40 ... +80°C (-40 ... +176°F)
depending on solenoid system.
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

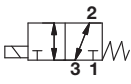
Temperature solenoid:

See table

Material:

Housing: hard anodized aluminium
Seal: NBR
Inner parts: stainless steel, brass

Technical data

Symbol	Port size 1& 2	3	Operating pressure (bar)	Material Seat material	Temperature *2) (°C)	Housing/ Manual override	Dimension No.	Solenoid group	Model *1)
	Flange	G1/8	0 ... 10 bar	NBR	-40...+80	lying / without	1	0800 & 5270 or 9318 (F&S)	VR24Z9565-01XXP
	Flange	G1/8	0 ... 10 bar	NBR	-40...+80	lying / push&turn	1	0800 & 5270 or 9318 (F&S)	VR24Z9565-02XXP
	Flange	G1/8	0 ... 10 bar	NBR	-40...+80	lying / push only	1	0800 & 5270 or 9318 (F&S)	VR24Z9565-03XXP
	Flange	G1/8	0 ... 10 bar	NBR	-40...+80	standing / without	2	0800 & 5270 or 9318 (F&S)	VR24Z9565-04XXP
	Flange	G1/8	0 ... 10 bar	NBR	-40...+80	standing / push only	2	0800 & 5270 or 9318 (F&S)	VR24Z9565-06XXP

*1) xx = Insert solenoid code on 13th digit and voltage code on 14th digit, see below.

*2) Depending on solenoid system, see page 2.

Weights (depending on housing/solenoids)




Model	Solenoid	Weight (kg)
VR24Z9565-0x2xP	5270	1,2
VR24Z9565-0x4xP	0800	0,84
VR24Z9565-0x8xP	9318	0,96
VR24Z9565-042xP / VR24Z9565-062xP	5270	1,3
VR24Z9565-044xP / VR24Z9565-064xP	0800	0,94
VR24Z9565-048xP / VR24Z9565-068xP	9318	1,06

Option selector
VR24Z9565-0*P**

Solenoids	Substitute
Housing, lying without MOR	1
Housing, lying with MOR push & turn	2
Housing, lying with MOR push only	3
Housing, standing without MOR	4
Housing, standing with MOR push only	6

Voltage	Substitute
24 V d.c.	3
36 V d.c.	4
72 V d.c.	A
110 V d.c.	7
Solenoids	Substitute
5270	2
0800	4
9318 (Fire & Smoke)	8


Solenoid parameters


	Power consumption 24 V d.c. (W)	Rated current 24 V d.c. (mA)	Temperature range (°C)	Voltage tolerance (%)	Protection class (EN 60529)	Electrical connection *6)	Weight (kg)	Dimension No.	Circuit diagram No.	Model	Code
	16,9	703 (24 V d.c.) 425 (36 V d.c.) *10) 193 (72 V d.c.) *10) 139 (110 V d.c.)	-25 ... +40 -25 ... +60	+20/-30 (+15/-32) +10/-30 (+6/-32) () for 37,5 & 74 V d.c. only	IP 65 (with connector)	Connector DIN EN 175301- 803 Form A	0,26	3	1	0800	4
	8,9	369 (24 V d.c.) 222 (36 V d.c.) *10) 120 (72 V d.c.) *10) 69 (110 V d.c.)	-40 ... +60 -40 ... +80	+/-30 (+25/-32) +30/-20 (+25/-22) () for 37,5 & 74 V d.c. only	IP 65 (with cable gland)	Cable gland M20 x 1,5	0,50	6	4	5270 *8)	2
	14	584 (24 V d.c.) 389 (36 V d.c.) 194 (72 V d.c.) 127 (110 V d.c.)	-40 ... +70	+/- 30%	IP 65 (with Connector)	Connector DIN EN 175301- 803 Form A *11)	0,41	7	1	9318 *11)	8


*6) Connector and cable gland not supplied, see table »Accessories« *8) Suitable for outdoor installation

*10) Voltage range: 36 ... 37,5 d.c. and 72 ... 74 V d.c. *11) Fire & Smoke tested to EN 45545-2 HL3

Spare coils

	Voltage	Power consumption	Model
	24 V d.c.	16,9 W	0000000.0800.0240R
	36 V d.c.	16,9 W	0000000.0800.0360R
	72 V d.c.	16,9 W	0000000.0800.0720R
	110 V d.c.	16,9 W	0000000.0800.1100R

	Voltage	Power consumption	Model
	24 V d.c.	8,9 W	0000000.5270.0240R
	36 V d.c.	8,9 W	0000000.5270.0360R
	72 V d.c.	8,9 W	0000000.5270.0720R
	110 V d.c.	8,9 W	0000000.5270.1100R



	Voltage	Power consumption	Model
	24 V d.c.	14,0 W	0000000.9318.0240R
	36 V d.c.	14,0 W	0000000.9318.0360R
	72 V d.c.	14,0 W	0000000.9318.0720R
	110 V d.c.	14,0 W	0000000.9318.1100R

Accessories

Cable gland			
			
Page 5 Thread	Cable Ø	Material	Model
M20x1,5	5,0...9,0 mm	PA, UL94 V0	0110854
M20x1,5	6,0...12 mm	PA, UL94 V0	0110855



Connector DIN EN 175301-803

0570275 (form A)
SPC/991500/5 (form A, F&S*1)
SPC/991500/12 (form A, F&S*1), with anti-surge diode)

Silencer *1)	Exhaust guard *2)
	
Page 5	Page 5
T40C2800 (G1/4)	0613422 (G1/4, 1/4 NPT)
MS002A (1/4 NPT)	

*1) For indoor use, *2) For outdoor use

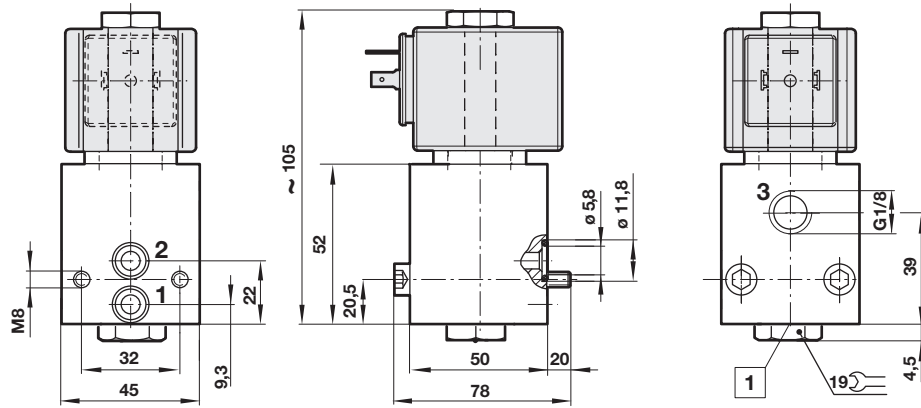
*1) Fire & Smoke tested according to EN 45545-2

Manual override (without detent)	Manual override (with detent)
	
Page 5	Page 5
0600205	0601765

Valve (VR24Z9565-01XXP, VR24Z9565-02XXP, VR24Z9565-03XXP)

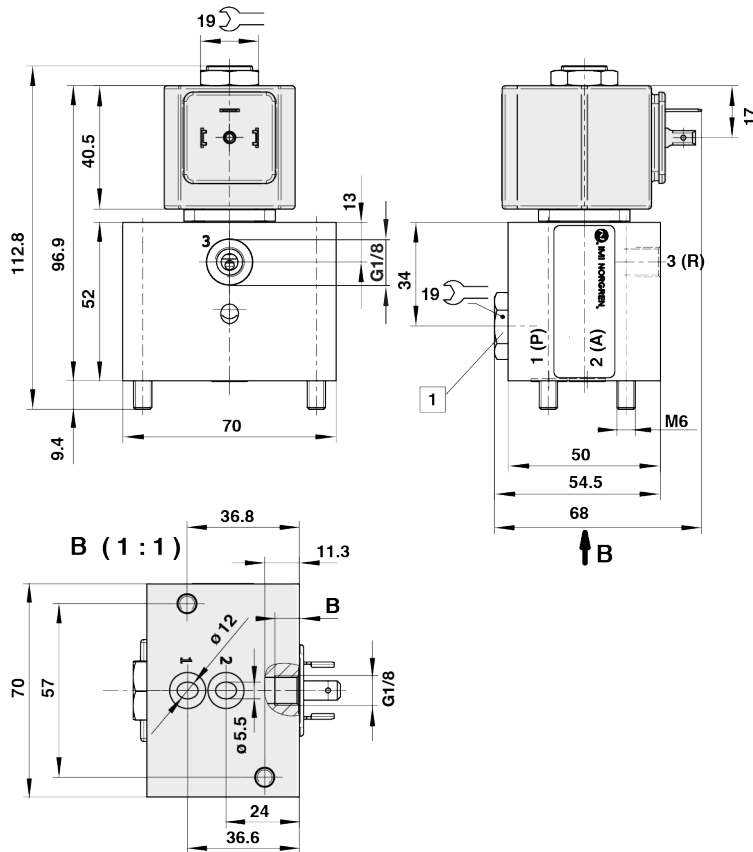
 Dimensions in mm
 Projection/First angle

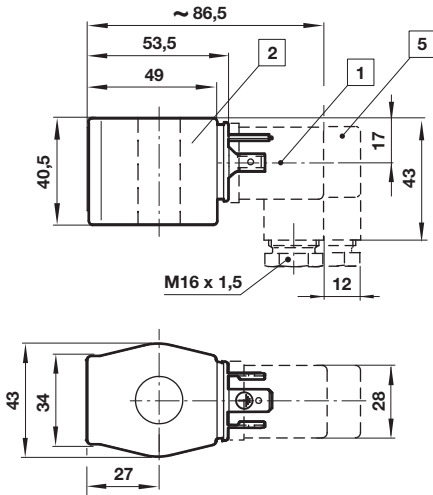
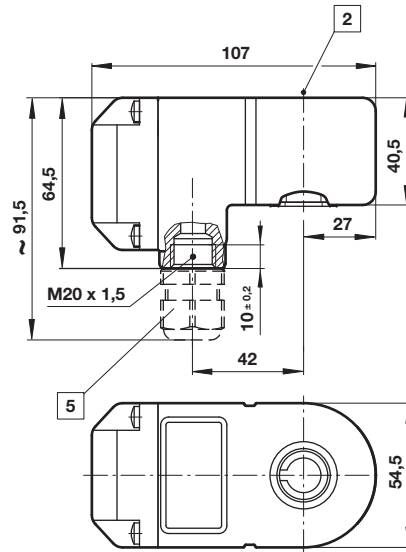
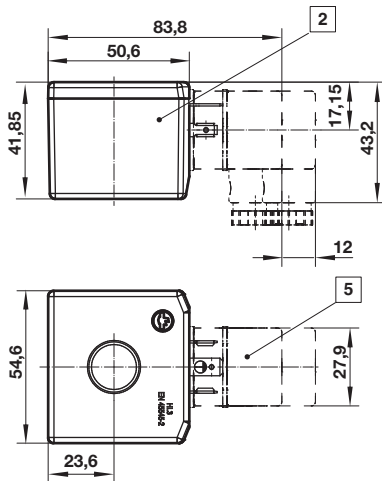

1


 1 Add-on manual override, below.
 (Push&Turn & Push only)

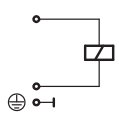
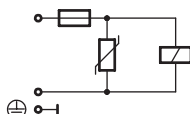
Valve (VR24Z9565-04XXP, VR24Z9565-06XXP)

2



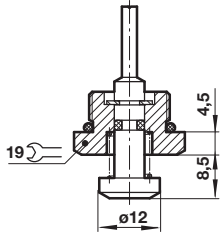
Solenoids
3

6

7


- 1 Connector can be indexed by 4x90°
- 2 Ø 16 or 13 (with spacer tube)
- 5 With cable gland, Pg 13,5 (respectively connector)

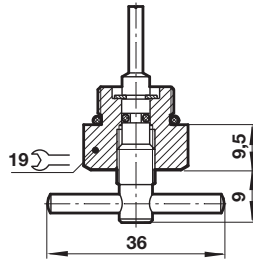
Circuit diagrams
1

4


Add-on manual override (lying housing only)

**Without detent
(push only)
Model: 0600205**



**With detent
(push & turn)
Model: 0601765***

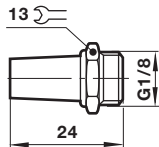


*not suitable for VR24Z9565-04xxP & VR24Z9656-06xxP

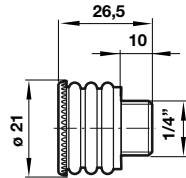
Dimensions in mm
Projection/First angle



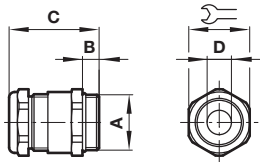
**Silencer
Model: T40C1800**




**Exhaust guard
Model: 0613422**



Cable gland



For cable Ø	A	B	C		Model
5...9	M20x1,5	9	36	24	0110854
6...12	M20x1,5	9	36	24	0110855

Warning

These products are intended for use in industrial compressed air and fluid 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 GmbH.

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.