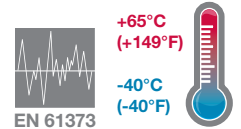


- > Flange version
- > High flow rate
- > Proven sealing system using Herion experience in the chemical and process industry
- > Maintenance-free
- > Optional manual overrides
- > Wide temperature range
- > Shock and vibration tested to EN 61373, Category 1, class A and B



### Technical features

#### Medium:

Compressed air, filtered lubricated or non lubricated

#### Operation:

Solenoid actuated spool valves

#### Operating pressure:

3 ... 10 bar (43,5 ... 145 psi)

Details see following pages

#### Flow:

950 ... 1300 l/min

#### Flow direction:

Internal pilot supply fixed

#### Air ports:

Flange pattern, see page 4 ... 6

#### Mounting position:

Spring return valves, preferably horizontal

#### Ambient/Media temperature:

Versions 3/2 & 5/2 WV; solenoid/

spring & solenoid/solenoid:

- 40 ... +65°C (-40 ... +149°F)

Versions 3/2 & 5/2 WV;

solenoid/air spring:

-25 ... +65°C (-13 ... +149°F)

Versions 2x3/2 WV;

solenoid/solenoid:

-20 ... +65°C (-4 ... +149°F)

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

#### Materials:

Housing and base plate:

aluminium

Spindle: stainless steel

Piston, spacers and cover:

synthetic material, aluminium

Static and dynamic seals: NBR/VMQ

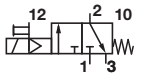
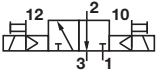
Screws: zinc plated

Springs: stainless steel

### Electrical details for solenoid operators

<b>Voltage tolerance</b>	± 30%
<b>Power consumption</b>	4,5 ... 5,4 W (12, 24, 36, 72, 85, 110 V d.c.), details see page 4
<b>Rating</b>	100 % ED
<b>Protection class</b>	IP 65 with sealed plugs (ISO 6952)
<b>Manual override</b>	Push only - Standard
<b>Solenoid</b>	4 x 90° rotatable
<b>Solenoid plug interface</b>	Type A, EN 175301-803 (DIN 43650)
<b>Material</b>	Thermoset (body), NBR (seals)

**3/2 directional control valves, solenoid actuated**

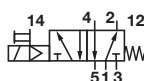
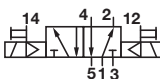
Symbol	Port size	Function	Actuation/return	Pilot supply	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Drawing No.	Model
	Flange	NC	Solenoid/spring	internal	1300	3 ... 10	–	0,29	1	VR61Z417A-D#*
	Flange	NC	Solenoid/solenoid	internal	1300	3 ... 10	–	0,38	2	VR61Z411A-D#*

# Insert code for manual override. Note: Standard option is 3 = push only, see page 3

\* Insert voltage code from table on page 3

NC = Normally closed

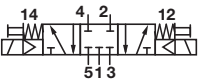
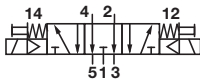
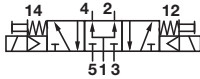
**5/2 directional control valves, solenoid actuated**

Symbol	Port size	Actuation	Pilot supply	Flow (l/min)	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Drawing No.	Model *1)
	Flange	Solenoid/spring	internal	1300	3 ... 10	–	0,29	3	VR61Z517A-D#*
	Flange	Solenoid/solenoid	internal	1300	3 ... 10	–	0,42	4	VR61Z511A-D#*

# Insert code for manual override. Note: Standard option is 3 = push only, see page 3

\* Insert voltage code from table on page 3

**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)
	Flange	APB	Solenoid/solenoid	internal	950	3 ... 10	-	0,47	5	VR61Z611A-D#*
	Flange	COE	Solenoid/solenoid	internal	950	3 ... 10	-	0,47	5	VR61Z711A-D#*
	Flange	COP	Solenoid/solenoid	internal	950	3 ... 10	-	0,47	5	VR61Z811A-D#*

# Insert code for manual override. Note: Standard option is 3 = push only, see page 3

\* Insert voltage code from table on page 3

APB = All ports blocked

COE = Centre open exhaust


COP = Centre open pressure

**Option selector  
(directional control valves,  
solenoid actuated)**
**VR61Z\*\*\*A-D\*\*\*N**

Function	Substitute
3/2 - NC	4
5/2	5
5/3 - APB	6
5/3 - COE	7
5/3 - COP	8

Voltage	Substitute	
12 V d.c.	22	
24 V d.c.	23	
36 V d.c.	24	
72 V d.c.	2A	
85 V d.c.	2C	
110 V d.c.	27	
Manual override	Substitute	
Without	1	
Push and turn	2	
Push only	3	
Actuation/return	Pilot Supply	Substitute
Solenoid/Solenoid	Internal	11
Solenoid/spring	Internal	17

**Selection of voltage codes**

	Voltage	Part number code	Power consumption
	12 V d.c.	22N	5,2 W
	24 V d.c.	23N	4,5 W
	36 V d.c.	24N	4,7 W
	72 V d.c.	2AN	4,8 W
	85 V d.c.	2CN	5,4 W
	110 V d.c.	27N	5,3 W

Solenoids comply with ROHS directive 2011/165/EU  
Coils are CE marked in accordance with low voltage directive 2007/95/EG

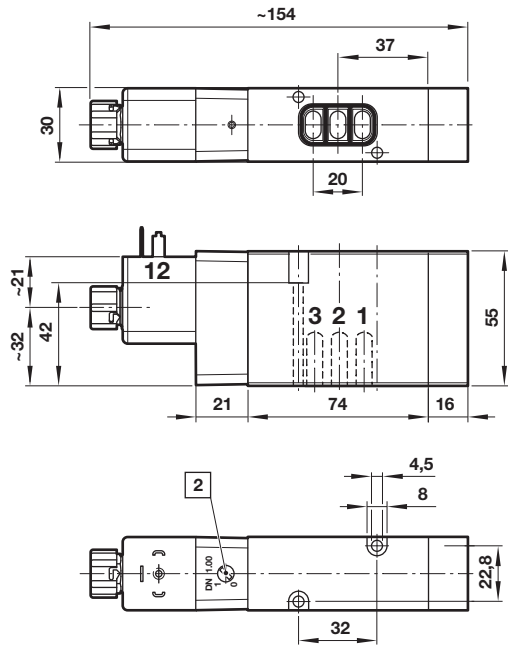
**Accessories**
**Connector DIN EN 175301-803,  
form A (DIN 43650 A)**


0570275  
12 ... 250 V a.c./d.c.

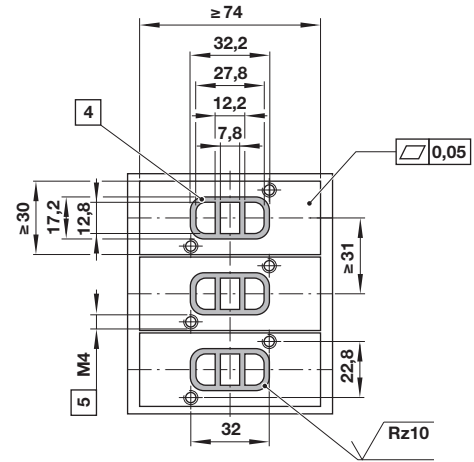
Dimensions

Dimensions in mm  
Projection/First angle

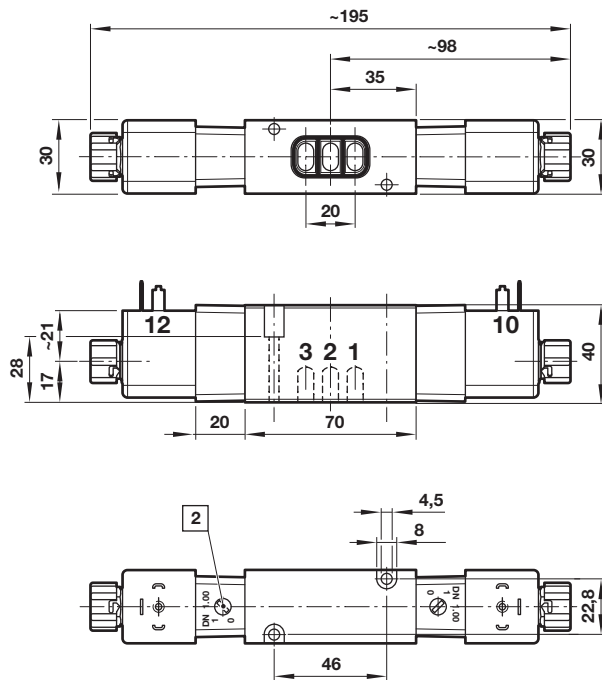
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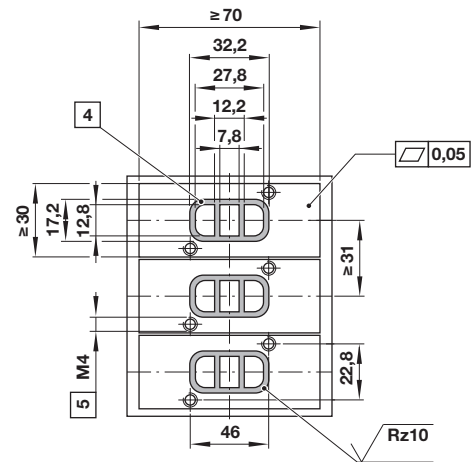
Flange pattern



2



Flange pattern

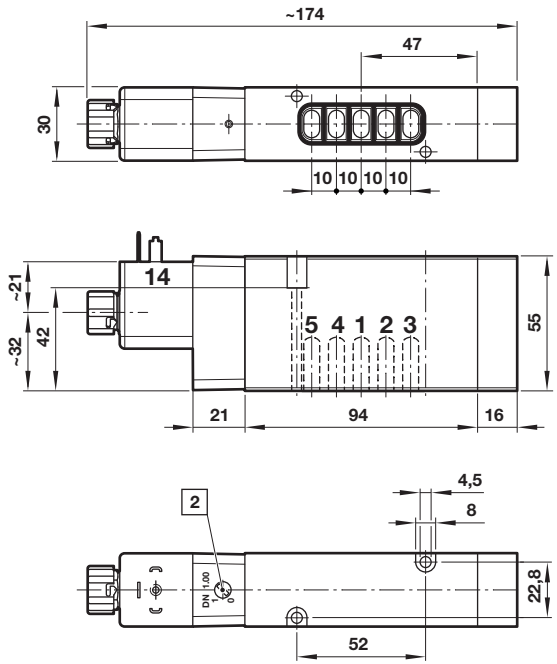


- 2 Manual override
- 4 Sealing area
- 5 9 mm deep

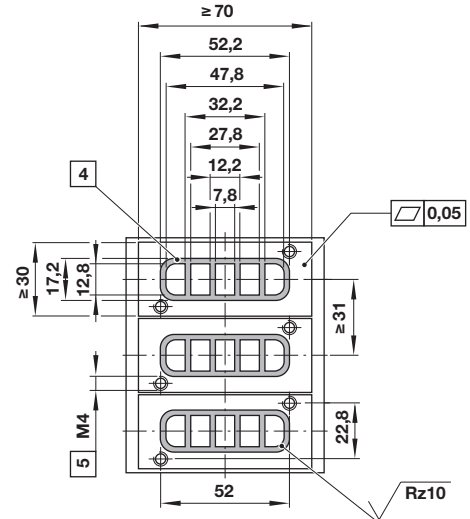
Dimensions in mm  
Projection/First angle



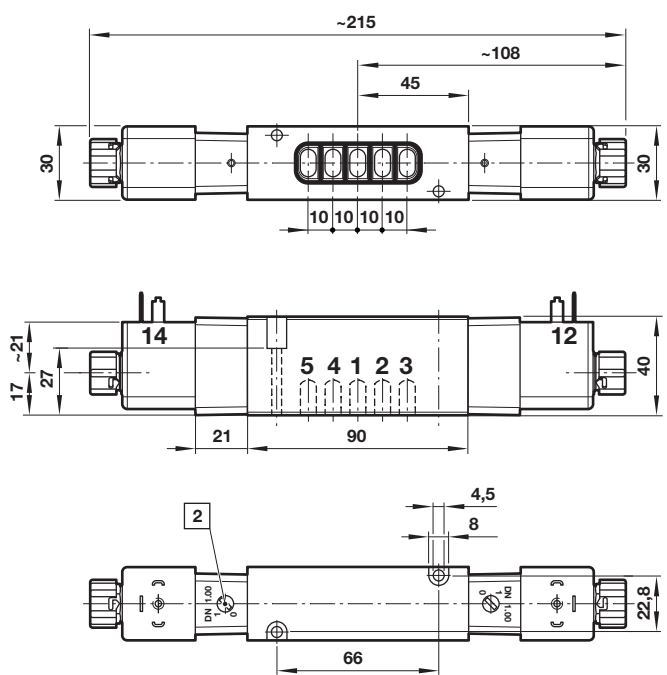
3



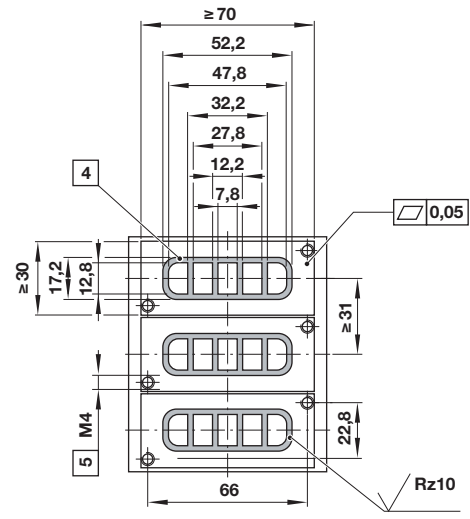
**Flange pattern**



4



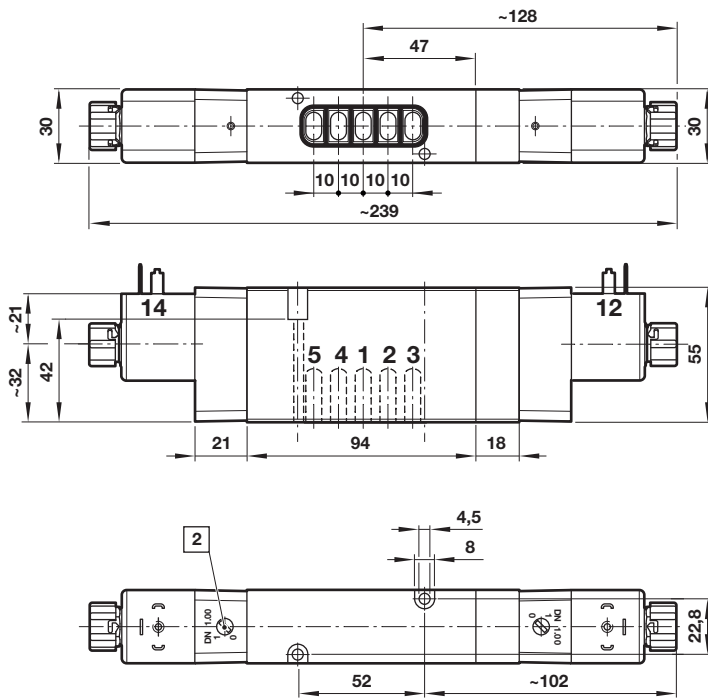
**Flange pattern**



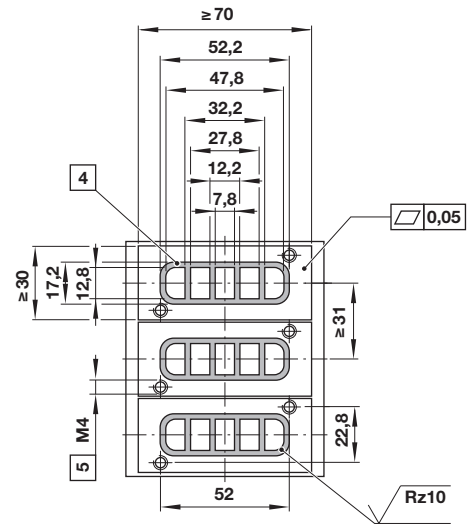
- 2 Manual override
- 4 Sealing area
- 5 9 mm deep

5

Dimensions in mm  
Projection/First angle



Flange pattern



- 2 Manual override
- 4 Sealing area
- 5 9 mm deep

**Warning**

These products are intended for use in industrial compressed air and rail transport 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.