Solenoid valves for actuator control

3/2
5/2

Applications

3- or 4-way directional valves for control of single - or double acting pneumatic actuators.

A patented sealing plate is incorporated to the body - providing on-site conversion of the valve from 5/2 to the 3/2 function (or vice versa) by simply rotating the plate through 180°. In the 3/2 function it provides venting of spring chambers to prevent corrosion which normally occurs when environmental air penetrates into the actuator.

The interface design corresponds to the German NAMUR standard and the VDI/VDE 3845 recommendations of the actuator industry and permits a compact design of the actuator/valve unit.

Port size G	Orifice (mm)	Flow factors (L/min) Qn	Admissible differential pressure bar Min	Max DC	Max AC	Fluid temp. °C Min	Fluid temp. °C Max	Seat disc	Reference numbers: Global valve reference	Reference numbers: Valve reference no.	Reference numbers: Housing	OR Coil	Power consumption (W) DC	Power consumption (W) AC	Wt. (g)	El. Part Group *	Dim ref.
Pilot operated - Integrated pilot																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	600	2	10	10	-25	80	NBR	2341NAKBJNM1	**341N01** 1	**8993**	**488980**	2.5	2	320	1	209
	4	600	2	10	10	-25	80	NBR	2341NAKBJNM0	**341N11**	**8993**	**488980**	2.5	2	320	1	208
Pilot operated																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	600	2	10	10	-25	80	NBR	7341NAKBJNM1	**341N21**	**2995**	**481865**	9	8	390	2	210
	4	600	2	10	10	-25	80	NBR			**4270**	**481000**	8	8	500	2	

Table continued on page 260

Notes:

* See Electrical Parts Group table at end of section

1. Manual override standard

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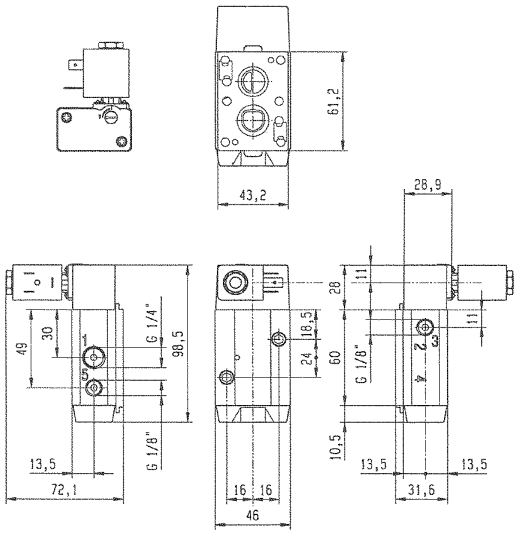
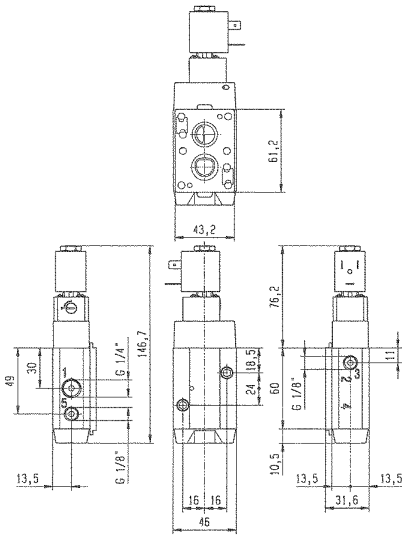
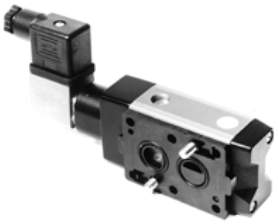
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

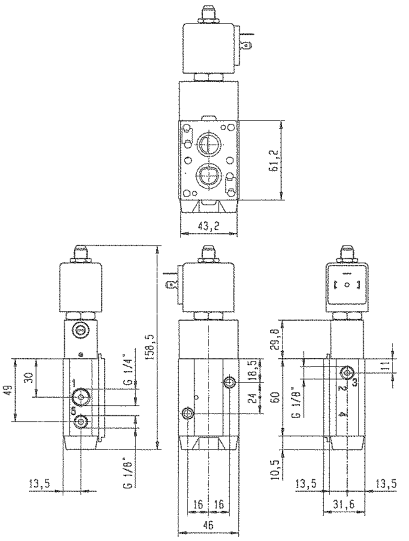


Dimension reference 208





Dimension reference 209



Dimension reference 210

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Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

Port size G	Orifice (mm)	Flow factors (L/min) Qn	Admissible differential pressure bar Min	Max DC	Max AC	Fluid temp. °C Min	Fluid temp. °C Max	Seat disc	Reference numbers: Global valve reference	Valve reference no.	Housing	OR Coil	Power consumption (W) DC	Power consumption (W) AC	Wt. (g)	El. Part Group *	Dim ref.
Pilot operated																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	600	2	10	10	-25	80	NBR	7341NAKBJNM0	**341N31**	**2995**	**481865**	9	8	510	2	211
	4	600	2	10	10	-25	80	NBR			**4270**	**481000**	8	8	620	2	
	4	600	2	10	10	-40	65	NBR	7341NAKBJPM0	**341N3108** 1	**2995**	**481865**	9	8	510	2	211
	4	600	2	10	10	-40	65	NBR			**4270**	**481000**	8	8	620	2	
	4	600	2	10	-	-25	80	NBR	7341NAKBJNL2	**341N3180**	**2995**	**482740**	1.6	-	510	6	211
Pilot operated																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	400	2	10	10	-25	80	NBR	7341NAKBHN90	**341N3190**	**-**	**483580.01** 2	0.4	-	640	7	211
Pilot operated																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	600	2	10	10	-25	80	NBR	7341NAKBJN1D	**341N31001D**	**-**	**483250**	8	8	1520	5	7753
	4	600	2	10	10	-40	65	NBR	7341NAKBJP1D	**341N31081D**	**-**	**483250**	8	8	1520	5	7753
Solenoid and external pressure supply																	
Anod. aluminium body/NAMUR interface - Spool design																	
1/4 - 1/8	4	600	2	10	10	-40	65	NBR	7441NAKBJPM0	**441N3108** 1	**2995**	**481865**	9	8	510	2	211
	4	600	2	10	10	-40	65	NBR			**4270**	**481000**	8	8	620	2	

Table continued on page 262

Notes:

* See Electrical Parts Group table at end of section

1. Operates with low temperatures down to -40 deg. C
2. Other coil-housing available: 488650.01, 488660.01, 4888670.01 (refer to electrical parts at end of this section)

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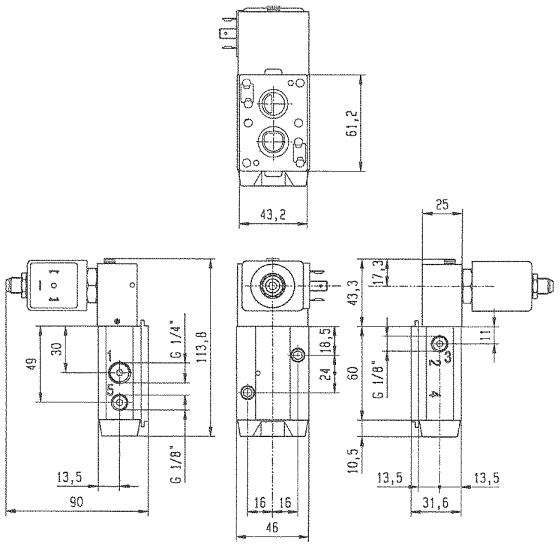
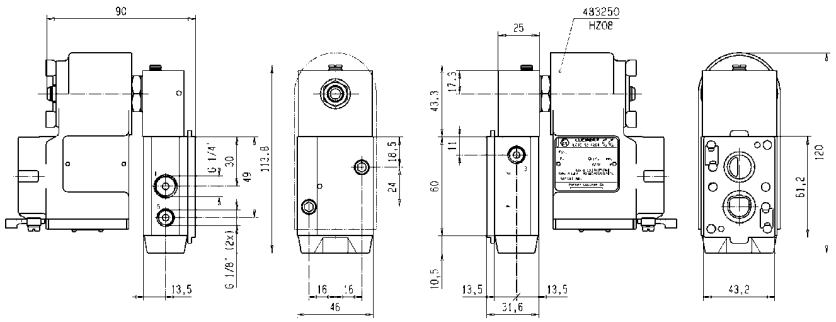
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design



Dimension reference 211



Dimension reference 7753

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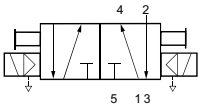
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

Port size	Orifice (mm)	Flow factors (L/min)	Admissible differential pressure bar			Fluid temp. °C		Seat disc	Reference numbers					Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
			Min	Max					Global valve reference	Valve reference no.		OR						
G		Qn		DC	AC	Min	Max				Housing	Coil		DC	AC			

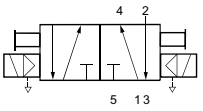
Two solenoids and main pressure supply - Integrated pilot



Anod. aluminium body/NAMUR interface - Spool design

1/4 - 1/8	4	400	2	10	10	-25	80	NBR	2347NAKBHNM0	**347N11**	**8993**	**488980**	1	2.5	2	530	1	213

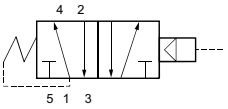
Two solenoids and main pressure supply



Anod. aluminium body/NAMUR interface - Spool design

1/4 - 1/8	4	400	2	10	10	-25	80	NBR	7347NAKBHNM0	**347N31**	**2995**	**481865**	1	9	8	670	2	216
	4	400	2	10	10	-25	80	NBR			**4270**	**481000**	1	8	8	890	2	

External pressure supply



Anod. aluminium body/NAMUR interface - Spool design

1/4 - 1/8	4	600	2	10	10	-25	80	FKM	7541NAKBJN00	**541N01**	-	-		-	-	300	-	214
	4	600	2	10	10	-40	65	NBR	7541NAKBJN00	**541N0108**	2 -	-		-	-	300	-	214

Table continued on page 264

Notes:

* See Electrical Parts Group table at end of section

1. Please order two housings and coils for each valve
2. Operates with low temperatures down to -40 deg. C

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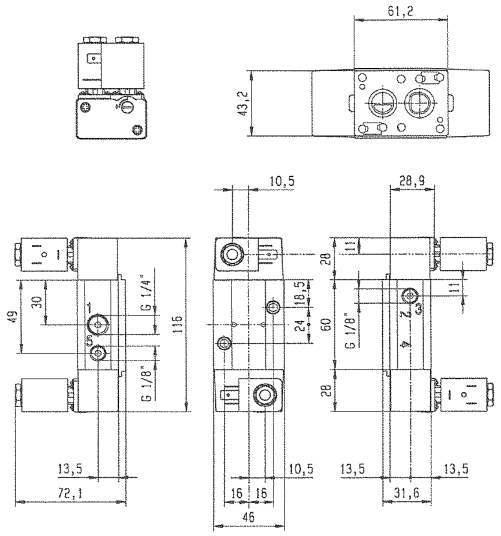
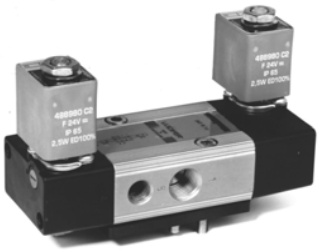
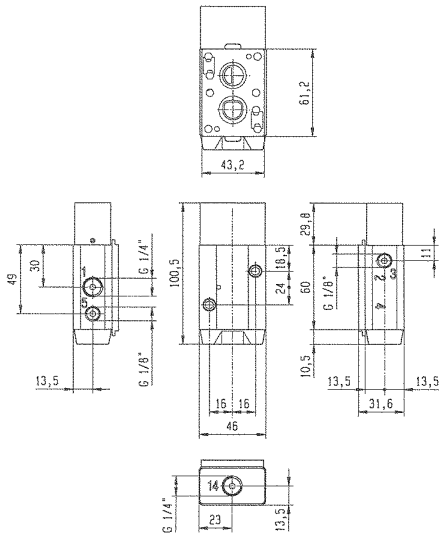
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

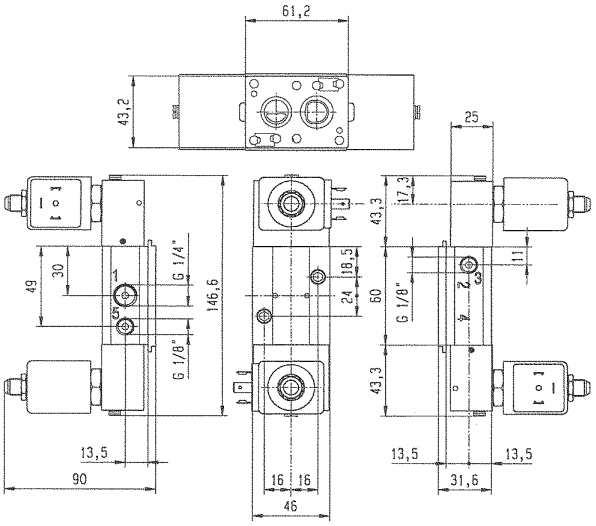




Dimension reference 213



Dimension reference 214



Dimension reference 216

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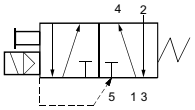
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

Port size	Orifice (mm)	Flow factors (L/min)	Admissible differential pressure bar			Fluid temp. °C		Seat disc	Reference numbers			OR	Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
			Min	Max													
G		Qn		DC	AC	Min	Max		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			

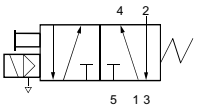
Pilot operated - Integrated pilot



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	10	-25	80	NBR	2341NAKBPNM1	**341N02**	**8993**	**488980**	2.5	2	470	1	220
	8	1400	2	10	10	-25	80	NBR	2341NAKBNNM0	**341N12**	**8993**	**488980**	2.5	2	470	1	221

Pilot operated



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	10	-25	80	NBR	7341NAKBPNM1	**341N22**	**2995**	**481865**	9	8	690	2	222
	8	1400	2	10	10	-25	80	NBR			**4270**	**481000**	8	8	800	2	

Table continued on page 266

Notes:

* See Electrical Parts Group table at end of section

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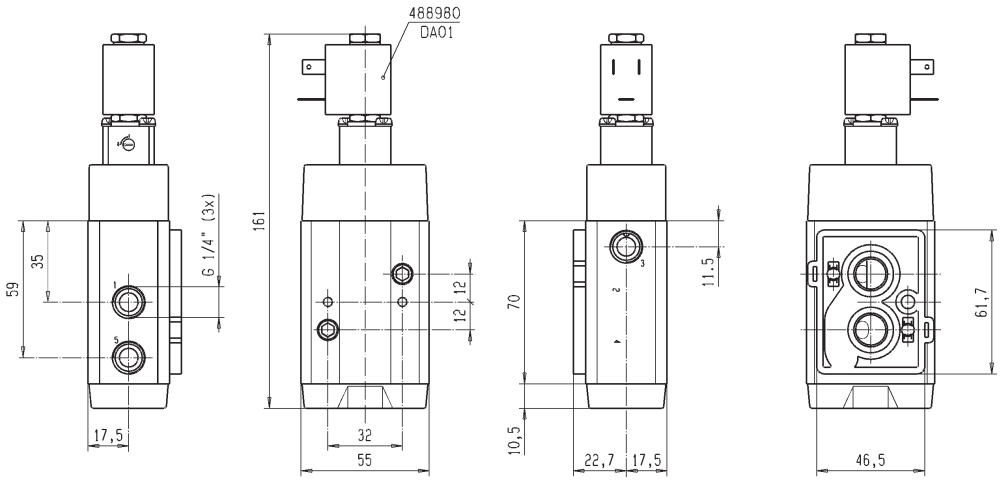
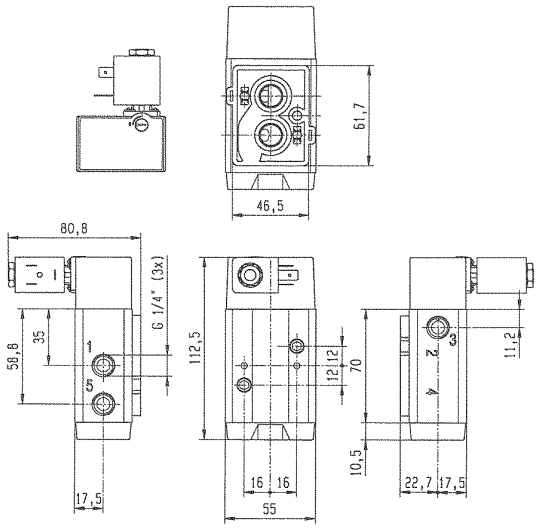
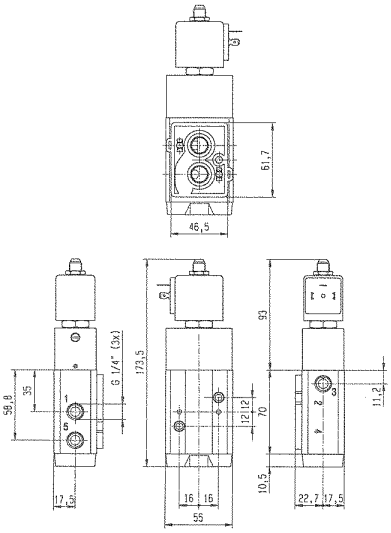
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design



Dimension reference 220



Dimension reference 221



Dimension reference 222

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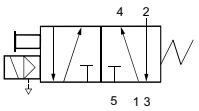
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

Port size	Orifice (mm)	Flow factors (L/min)	Admissible differential pressure bar			Fluid temp. °C		Seat disc	Reference numbers			OR	Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
			Min	Max		Min	Max		Global valve reference	Valve reference no.	Housing	Coil	DC	AC			
G		Qn		DC	AC												

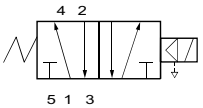
Pilot operated



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	10	-25	80	NBR	7341NAKBPNM0	**341N32**	**2995**	**481865**	9	8	740	2	223
	8	1400	2	10	10	-25	80	NBR			**4270**	**481000**	8	8	850	2	
	8	1400	2	10	-	-25	80	FKM	7341NAKBPNL2	**341N3280**	**2995**	**482740**	1.6	-	740	6	223
	8	1400	2	10	-	-25	80	FKM			**-**	**491117**	2.5	-	740	6	

Pilot operated



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	-	-25	80	NBR	7341NAKBPN90	**341N3290**	**-**	**483580.01** [1]	0.4	-	850	7	223
	8	1400	2	10	10	-25	80	NBR	7341NAKBPN1D	**341N32001D**	**-**	**483250**	8	8	1730	5	7754

Table continued on page 268

Notes:

* See Electrical Parts Group table at end of section

1. Other coil-housing available: 488650.01, 488660.01, 4888670.01 (refer to electrical parts at end of this section)

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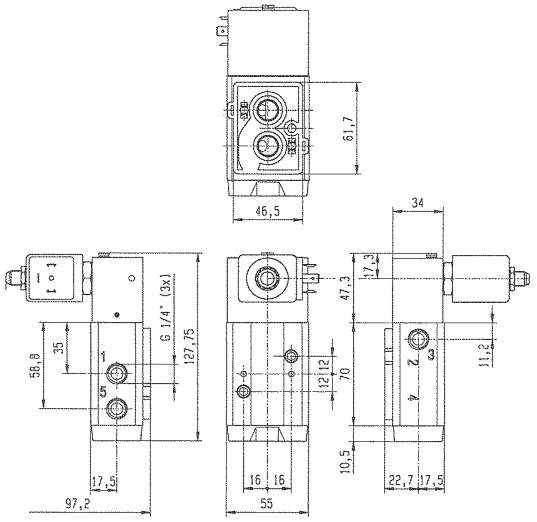
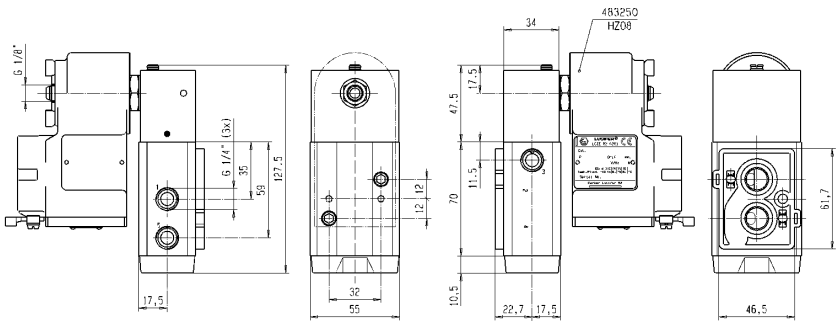
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design



Dimension reference 223



Dimension reference 7754

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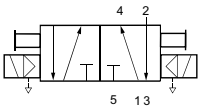
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design

Port size	Orifice (mm)	Flow factors (L/min)	Admissible differential pressure bar			Fluid temp. °C		Seat disc	Reference numbers				OR	Power consumption (W)		Wt. (g)	El. Part Group *	Dim ref.
			Min	Max														
G		Qn		DC	AC	Min	Max		Global valve reference	Valve reference no.	Housing	Coil		DC	AC			

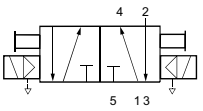
Two solenoids and main pressure supply - Integrated pilot



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	10	-25	80	NBR	2347NAKBPNM0	**347N12**	**8993**	**488980**	1	2.5	2	640	1	7315

Two solenoids and main pressure supply



Anod. aluminium body/NAMUR interface - Spool design

1/4	8	1400	2	10	10	-25	80	NBR	7347NAKBPNM0	**347N32**	**2995**	**481865**	1	9	8	770	2	7320
	8	1400	2	10	10	-25	80	NBR			**4270**	**481000**	1	8	8	980	2	

Notes:

* See Electrical Parts Group table at end of section

1. Please order two housings and coils for each valve

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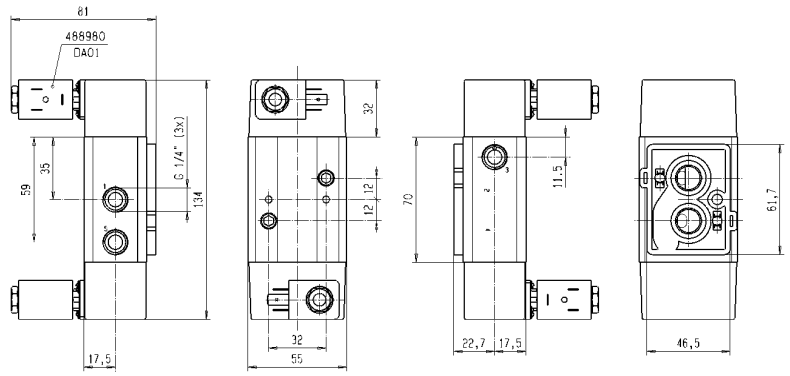
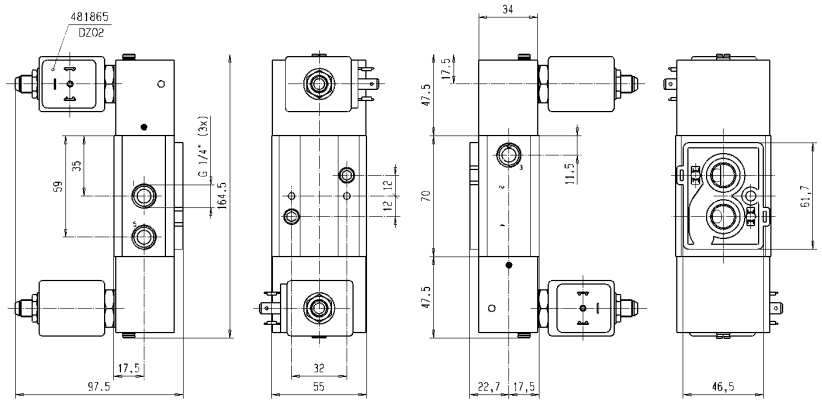
Solenoid valves for actuator control - 3/2 or 5/2 valves - NAMUR interface-Spool design



Dimension reference 7315



Dimension reference 7320

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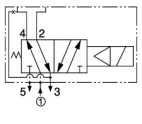
Solenoid valves for actuator control

3/2
5/2

Anod. aluminium body/NAMUR interface - Poppet design

Pilot operated



Port size G	Orifice (mm)	Flow factors (L/min) Qn	Admissible differential pressure bar Min	Max DC	Max AC	Fluid temp. °C Min	Fluid temp. °C Max	Seat disc	Reference numbers: Global valve reference	Reference numbers: Valve reference no.	Reference numbers: Housing	Reference numbers: OR Coil	Power consumption (W) DC	Power consumption (W) AC	Wt. (g)	El. Part Group *	Dim ref.
1/4 - 1/8	4	355	1	10	10	-10	75	NBR	-	**341L9504**	**8993**	**488980**	2.5	2	360	1	44
	4	355	1	10	10	-10	75	NBR	7341LAKBGN1D	**341L95341D**	-	**483250**	8	8	1470	5	45
	4	355	1	10	10	-10	75	NBR	7341LAKBGNM0	**341L9534**	**2995**	**481865**	9	8	470	2	45
	4	355	1	10	-	-10	75	NBR	7341LAKBGNL2	**341L9584**	-	**482740**	1.6	-	470	6	45
	4	355	1	10	-	-10	75	NBR	7341LAKBGN90	**341L9594**	-	**483580.01** [1]	0.4	-	470	7	45
	4	355	2	10	-	-25	65	PUR	7341LAPBGPL2	**341L9588**	-	**482740**	1.6	-	470	6	45
	4	355	2	10	-	-25	75	PUR	-	**341L9598**	-	**483580.01** [1]	0.4	-	470	7	45

Notes:

* See Electrical Parts Group table at end of section

1. Other coil-housing available: 488650.01, 488660.01, 4888670.01 (refer to electrical parts at end of this section)

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