Solenoid Valve Type 3962

Ex d, Ex em or without explosion protection, for controlling pneumatic actuators

General

The Type 3962 Solenoid Valve ensures a high level of operational reliability for controlling pneumatic actuators in hazardous areas.

They offer different types of protection, switching functions, flow rates and connections for all desired applications.

Special features of the Type 3962 Solenoid Valve include:

General

- Life cycle more than 20 million switching cycles
- Ambient temperature −20 to +80 °C, depending on type of protection and temperature class
- Corrosion-resistant enclosure with degree of protection IP 65/66 for applications in humid, corrosive environments
- Wall mounting or pipe mounting
- Attachment to rotary actuators with NAMUR interface according to VDI/VDE 3845
- Attachment to linear actuators with NAMUR rib according to IEC 60534-6-1

Pilot valve

- Solenoid and seat valve with return spring
- Version without explosion protection (Type 3962-0) for nominal signal 24/110 V DC or 24/115/230 V AC
- Type of protection "Increased safety" Ex em (Type 3962-4) for nominal signal 24/230 V AC/DC
- Type of protection "Flameproof enclosure" Ex d (Type 3962-9) for nominal signal 24 V DC or 24/115 V AC or 230 V AC/DC, other nominal signals on request
- Power consumption max. 3,9 W (DC) or 9,5 VA (AC), depending on nominal signal
- Air supply 1.4 to 8.0 bar
- Manual override as push button or push button switch (optional)
- Electrical connection using a cable gland M 20 × 1.5 to terminals or using a connector

Booster valve

- Seat valve with diaphragm element and return spring
- Piston valve, single or double actuated
- 3/2, 5/2, 5/3 or 6/2-way function
- Exhaust feedback (optional)
- K_{VS} value 1.4, 2.0, 2.9 (on request) or 4.3
- Operating pressure max. 10.0 bar
- Threaded connection G (NPT) $^1/_4$ or $^1/_2$
- NAMUR interface $^1/_4$" or $^1/_2$"

Without explosion protection

Type 3962-0 Solenoid Valve

Ex em

Type 3962-0 Solenoid Valve

Ex d

Type 3962-9 Solenoid Valve

Fig. 1

Versions

Examples of configuration

Without explosion protection

Fig. 2

Type 3962-0
- Without explosion protection
- Nominal signal 24/110 V DC or 24/115/230 V AC
- 5/2-way function
  with spring return mechanism
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Mounting to on/off rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"

Ex em

Fig. 3

Type 3962-4
- Type of protection "Increased safety" Ex em
- Nominal signal 24/230 V AC/DC
- 3/2-way function
  with spring return mechanism
- Exhaust feedback
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Mounting to on/off rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"

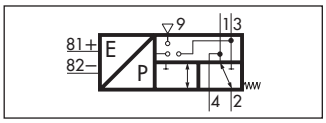
Ex d

Fig. 4

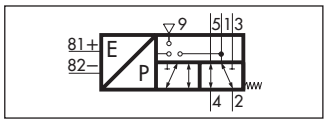
Type 3962-9
- Type of protection "Flameproof enclosure" Ex d
- Nominal signal 24 V DC or 24/115 V AC or 230 V AC/DC
- 3/2-way function
  with spring return mechanism
- K_{VS} value 4.3
- Connection G (NPT) $^1/_2$
- Wall mounting or pipe mounting

Versions (continued from page 2)

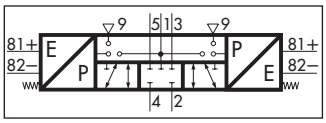
Solenoid valves with threaded connection for wall mounting or pipe mounting



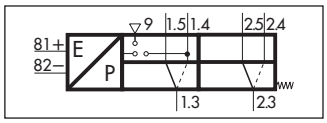
Type 3962-XXX013XXXXXXX
- 3/2-way function with spring return mechanism
- Exhaust feedback
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$



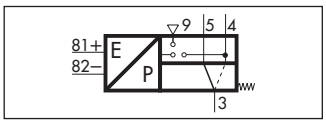
Type 3962-XXX113XXXXXXX
- 5/2-way function with spring return mechanism
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$



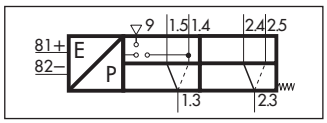
Type 3962-XXX313XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 closed)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$



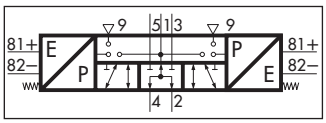
Type 3962-XXX614XXXXXXX
- 6/2-way function with spring return mechanism
- K_{VS} value 4.3
- Connection G (NPT) $^1/_2$



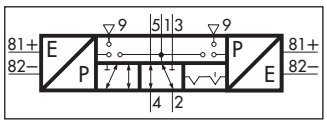
Type 3962-XXX014XXXXXXX
- 3/2-way function with spring return mechanism
- K_{VS} value 4.3
- Connection G (NPT) $^1/_2$



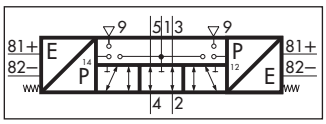
Type 3962-XXX114XXXXXXX
- 5/2-way function with spring return mechanism
- K_{VS} value 4.3
- Connection G (NPT) $^1/_2$



Type 3962-XXX413XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 to air supply)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$

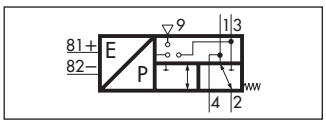


Type 3962-XXX213XXXXXXX
- 5/2-way function with two locking positions
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$

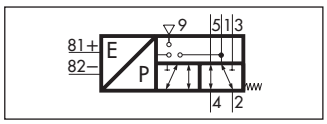


Type 3962-XXX513XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 vented)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$

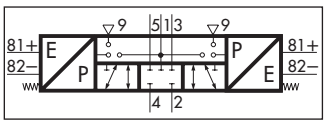
Solenoid valves with NAMUR interface for rotary actuators



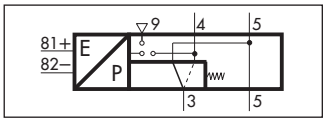
Type 3962-XXX003XXXXXXX
- 3/2-way function with spring return mechanism
- Exhaust feedback
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to on/off rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"



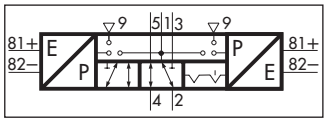
Type 3962-XXX103XXXXXXX
- 5/2-way function with spring return mechanism
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to on/off rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"



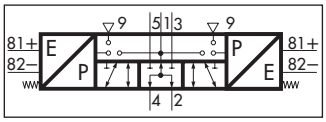
Type 3962-XXX303XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 closed)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"



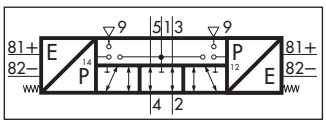
Type 3962-XXX004XXXXXXX
- 3/2-way function with spring return mechanism
- Exhaust feedback
- K_{VS} value 4.3
- Connection G (NPT) $^1/_2$/NAMUR $^1/_2$"
- Attachment to on/off rotary actuators with NAMUR interface $^3/_8$" or $^1/_2$"



Type 3962-XXX203XXXXXXX
- 5/2-way function with two locking positions
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"



Type 3962-XXX403XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 to air supply)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"



Type 3962-XXX503XXXXXXX
- 5/3-way function with spring-centered mid-position (2 and 4 vented)
- K_{VS} value 1.4
- Connection G (NPT) $^1/_4$/NAMUR $^1/_4$"
- Attachment to rotary actuators with NAMUR interface $^1/_8$" or $^1/_4$"

Technical data

General data for pilot valve					
Type		**3962-0**	**3962-4XXXXX0(1)**	**3962-4XXXXX2(3)**	**3962-9**
Construction		Solenoid and seat valve with return spring			
Degree of protection		IP 65	IP 65	IP 65	IP 66
Material	Casting compound	Polyamide	Polyurethane	Polyurethane	–
	Enclosure	Polyamide, black	Polyamide and aluminum, powder coated, grayish-beige	Polyamide and aluminum, powder coated, grayish-beige	Aluminum, anodized and powder coated, red
	Internal parts	Stainless steel and brass	Stainless steel and brass, nickel-plated	Stainless steel and brass, nickel-plated	Brass
	Screws	Steel, galvanized	Stainless steel		
	Gaskets	Fluoro rubber	Nitrile rubber		
Mounting position		As desired			
Switching cycles		$\geq 2 \times 10^7$			
Weight approx.		170 g	550 g	650 g	ca. 850 g

Electrical data for pilot valve without explosion protection					
Type		**3962-03**	**3962-05**	**3962-06**	**3962-08**
Nominal signal	U_n	24 V DC (±10%)	230 V AC (±10%), 50 … 60 Hz, 110 V DC (±10%)	115 V AC (±10%), 50 … 60 Hz	24 V AC ±(10%), 50 … 60 Hz
Power consumption	Pick-up	2.7 W	4.9 VA, 3.9 W	4.8 VA	5.2 VA
	Hold	2.7 W	3.7 VA, 3.9 W	3.6 VA	3.9 VA
Continuous duty		100%			
Ambient temperature		−20 … +80 °C			
Connection		Connector according to EN 175301-803, form A			

Electrical data for pilot valve with type of protection "Increased safety" Ex em [1])			
Type		**3962-42**	**3962-44**
Nominal signal	U_n	24 V AC/DC (−15 … +10%), 40 … 65 Hz	230 V AC/DC (−15 … +10%), 40 … 65 Hz
Power consumption		1.8 W	
Continuous duty		100%	
Ambient temperature in temperature class	T6	−20 … +50 °C	
	T5	−20 … +60 °C	
Connection		Cable gland M 20 × 1.5	

[1]) According to EC Type Examination Certificate PTB 02 ATEX 2125 X and Certificate of Conformity NEPSI GYJ071071X.

Electrical data for pilot valve with type of protection "Flameproof enclosure" Ex d [1])					
Type		**3962-93**	**3962-94**	**3962-96**	**3962-98**
Nominal signal [2])	U_n	24 V DC (±10%)	230 V AC/DC (±10%), 50 … 60 Hz	115 V AC (±10%), 50 … 60 Hz	24 V AC (±10%), 50 … 60 Hz
Power consumption	Pick-up	3 W	9,5 VA	9,5 VA	9,5 VA
	Hold	3 W	5 VA	5 VA	5 VA
Continuous duty		100%			
Ambient temperature in temperature class (max. cable temperature)	T6	−10 … +40 °C	–	–	–
	T5	−10 … +55 °C	–	–	–
	T4	−10 … +80 °C (85 °C) −10 … +65 °C (105 °C)	−10 … +40 °C (90 °C)	−10 … +40 °C (90 °C)	−10 … +40 °C (90 °C)
	T3	–	−10 … +55 °C (105 °C)	−10 … +55 °C (105 °C)	−10 … +55 °C (105 °C)
Connection		Female thread M 20 × 1.5			

[1]) According to EC Type Examination Certificate BAS 02 ATEX 2145, Certificate of Conformity IECEx BAS 04.0028 and Certificate of Conformity CEPEL-EX-195/04.
[2]) Other nominal signals on request.

Pneumatic data for pilot valve				
Type		**3962-0**	**3962-4**	**3962-9**
Air supply	Medium	Instrument air		
	Pressure	1.4 … 10 bar	1.4 … 8 bar	1.4 … 8 bar
Output signal		Pressure of air supply		
Air consumption		No air consumption		
K_{VS} value [1])		0.06	0.05	0.05
Switching time		10 ms	30 ms	30 ms
Control connection		CNOMO interface		

[1]) Air flow at $p_1 = 2.4$ bar and $p_2 = 1.0$ bar can be calculated according to the following equation: $Q = K_{VS} \times 36.22$, expressed in m^3/h.

Technical data (continued from page 4)

Booster valve with single actuation, K_{VS} value 4.3, with threaded connection					
Switching function		3/2-way function	3/2-way function	5/2-way function	6/2-way function
K_{VS} value [1] (in direction of flow)		1.9 (4→3), 1.5 (3→4) 4.3 (3→5), 4.7 (5→3)	1.9 (4→3), 1.5 (3→4) 4.3 (3→5), 4.7 (5→3)	1.9 (4→3), 1.5 (3→4) 4.3 (3→5), 4.7 (5→3)	1.9 (4→3), 1.5 (3→4) 4.3 (3→5), 4.7 (5→3)
Ambient temperature [2]		−20 ... +80 °C	−45 ... +80 °C	−20 ... +80 °C	−20 ... +80 °C
Construction		Seat valve with diaphragm element, soft-seated type, with return spring			
Material	Enclosure	GD AlSi 12, powder-coated, grayish-beige RAL 1019, Stainless steel 1.4404 (special version)			
	Diaphragm	Chloroprene	Silicone rubber	Chloroprene	Chloroprene
	Gaskets	Chloroprene	Silicone rubber	Chloroprene	Chloroprene
	Screws	Stainless steel 1.4571			
Actuation		Single actuated by one pilot valve			
Operating medium		Instrument air, free of corrosive particles, or nitrogen [3], Instrument air, free of corrosive particles, oil-containing air or noncorrosive gases [4]			
Operating pressure max. (in direction of flow)		8 bar [3] or 10 bar [4] (4→3, 3→5) 2 bar (as desired)		8 bar [3] o 10 bar [4] (as desired) 2 bar (as desired)	
Switching cycles (operating pressure)		≥ 10^7 (6 bar) ≥ 10^6 (10 bar)	≥ 10^6 (6 bar) ≥ 10^5 (10 bar)	≥ 10^7 (6 bar) ≥ 10^6 (10 bar)	≥ 10^7 (6 bar) ≥ 10^6 (10 bar)
Connection		G (NPT) $^1/_2$			
Weight approx.		585 g (standard version)		1100 g (standard version)	

Booster valve with single actuation, K_{VS} value 2.0 or 4.3, with NAMUR interface					
Switching function		3/2-way function with exhaust feedback			
K_{VS} value [1] (in direction of flow)		1.1 (4→3) 2.0 (3→5)	1.1 (4→3) 2.0 (3→5)	1.9 (4→3) 4.3 (3→5)	1.9 (4→3) 4.3 (3→5)
Ambient temperature [2]		−20 ... +80 °C	−45 ... +80 °C	−20 ... +80 °C	−45 ... +80 °C
Construction		Seat valve with diaphragm element, soft-seated type, with return spring			
Material	Enclosure	GD AlSi 12, powder-coated, grayish-beige RAL 1019, Stainless steel 1.4404 (special version)			
	Diaphragm	Chloroprene	Silicone rubber	Chloroprene	Silicone rubber
	Gaskets	Chloroprene	Silicone rubber	Chloroprene	Silicone rubber
	Screws	Stainless steel 1.4571			
Actuation		Single actuated by one pilot valve			
Operating medium		Instrument air, free of corrosive particles, or nitrogen [3], Instrument air, free of corrosive particles, oil-containing air or noncorrosive gases [4]			
Operating pressure max.		8 bar [3] or 10 bar [4]			
Switching cycles (operating pressure)		≥ 10^7 (6 bar) ≥ 10^6 (10 bar)	≥ 10^6 (6 bar) ≥ 10^5 (10 bar)	≥ 10^7 (6 bar) ≥ 10^6 (10 bar)	≥ 10^6 (6 bar) ≥ 10^5 (10 bar)
Connection	air supply	G (NPT) $^1/_4$"/NAMUR interface $^1/_4$" [5], G $^3/_8$		G (NPT) $^1/_2$"/NAMUR interface $^1/_2$" [5]	
	exhaust air	G (NPT) $^1/_2$"/NAMUR interface $^1/_4$" [5], G $^3/_8$		G (NPT) $^1/_2$"/NAMUR interface $^1/_2$" [5]	
Weight approx.		1380 g (standard version)		1500 g (standard version)	

[1] Air flow at $p_1 = 2.4$ bar and $p_2 = 1.0$ bar can be calculated according to the following equation: $Q = K_{VS} \times 36.22$, expressed in m^3/h.
[2] The permissible maximum temperature of the solenoid valve depends on the permissible ambient temperature of the components, the type of protection and the temperature class.
[3] With internal air supply.
[4] With external air supply.
[5] NAMUR interface according to VDI/VDE 3845.

Technical data (continued from page 5)

Booster valve with single actuation, K_{VS} value 1.4 or 2.9 [6], with threaded connection or NAMUR interface			
Switching function		3/2-way function with exhaust feedback	5/2-way function
K_{VS} value [1]		1.4 or 2.9 [6]	
Construction		Piston valve, metal-to-metal seating, without overlap, with return spring	
Material	Enclosure	GD AlSi 12, powder-coated, grayish-beige RAL 1019, Stainless steel 1.4404 (special version)	
	Gaskets	Silicone rubber	
	Filter	Polyethylene	
	Screws	Stainless steel 1.4571	
Actuation		Single actuated by one pilot valve	
Operating medium		Instrument air, free of corrosive particles, or nitrogen [2], Instrument air, free of corrosive particles, loil-containing air or noncorrosive gases [3]	
Operating pressure max.		8 bar [2] or 10 bar [3]	
Ambient temperature [4]		−45 ... +80 °C	
Switching cycles		≥ 2×10^7	
Connection		G (NPT) $^1/_4$ or NAMUR interface $^1/_4$" [5] (K_{VS} value 1.4), G (NPT) $^1/_2$ or NAMUR interface $^1/_2$" [5] (K_{VS} value 2.9)	
Weight approx.		485 g (K_{VS} valoe 1.4), 1760 g (K_{VS} value 2.9)	

Booster valve with double actuation, K_{VS} value 1.4 or 2.9 [6], with threaded connection or NAMUR interface					
Switching function		5/2-way function with two locking positions	5/3-way function with spring-centered mid-position (2 and 4 closed)	5/3-way function with spring-centered mid-position (2 and 4 vented)	5/3-way function with spring-centered mid-position (2 and 4 to air supply)
K_{VS} value [1]		1.4 or 2.9 [6]			
Construction		Piston valve, metal-to-metal seating, without overlap			
Material	Enclosure	GD AlSi 12, powder-coated, grayish-beige RAL 1019, Stainless steel 1.4404 (special version)			
	Gaskets	Silicone rubber			
	Filter	Polyethylene			
	Screws	Stainless steel 1.4571			
Actuation		Double actuated by two pilot valves			
Operating medium		Instrument air, free of corrosive particles, or nitrogen [2], Instrument air, free of corrosive particles, oil-containing air or noncorrosive gases [3]			
Operating pressure max.		8 bar [2] or 10 bar [3]			
Ambient temperature [4]		−45 ... +80 °C			
Switching cycles		≥ 2×10^7			
Connection		G (NPT) $^1/_4$ or NAMUR interface $^1/_4$" [5] (K_{VS} value 1.4), G (NPT) $^1/_2$ or NAMUR interface $^1/_2$" [5] (K_{VS} value 2.9)			
Weight approx.		685 g (K_{VS} value 1.4), 2180 g (K_{VS} value 2.9)			

[1] Air flow at $p_1 = 2.4$ bar and $p_2 = 1.0$ bar can be calculated according to the following equation: $Q = K_{VS} \times 36.22$, expressed in m^3/h.
[2] With internal air supply.
[3] With external air supply.
[4] The permissible maximum temperature of the solenoid valve depends on the permissible ambient temperature of the components, the type of protection and the temperature class.
[5] NAMUR interface according to VDI/VDE 3845.
[6] On request.

Versions and ordering data

Type 3962 Solenoid Valve		Order no. 3962-	.	.	.	.	.	.	.	.	.	.	.	.
Type of protection	Without explosion protection		**0**	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
	II 2 G Ex em II T5/T6 [1])		**4**											
	II 2 G Ex d IIC T3/T4/T5/T6 [2])		**9**											
Nominal signal	24 V AC/DC	(Type -4)		**2**										
	24 V DC	(Types -0 and -9)		**3**										
	230 V AC/DC	(Types -4 and -9)		**4**										
	230 V AC/110 V DC	(Type -0)		**5**										
	115 V AC	(Types -0 and -9)		**6**										
	24 V AC	(Types -0 and -9)		**8**										
Manual override	None				**0**									
	Push button accessible from the outside	(Types -0 and -9)			**2**									
	Push button switch accessible from the outside	(Type -0)			**3**									
	Lever-type switch accessible from the outside	(Type -9)			**4**									
Switching function	3/2-way function with spring return mechanism					**0**								
	5/2-way function with spring return mechanism [3])					**1**								
	5/2-way function with two locking positions					**2**								
	5/3-way function with spring-centered mid-position (2 and 4 closed)					**3**								
	5/3-way function with spring-centered mid-position (2 and 4 to air supply)					**4**								
	5/3-way function with spring centered mid position (2 and 4 vented)					**5**								
	6/2-way function with spring return mechanism					**6**								
Attachment	NAMUR interface according to VDI/VDE 3845						**0**							
	Threaded connection for wall mounting or pipe mounting						**1**							
	CNOMO interface, 30 mm (pilot valve as spare part)						**2**							
	NAMUR rib according to IEC 60534-6-1						**3**							
K_{VS} value [4])	1.4 [5])							**3**						
	4.3							**4**						
	0.05 (pilot valve as spare part)							**5**						
	2.9 [6])							**6**						
	2.0							**7**						
Air connection	G $^1/_4$								**0**					
	$^1/_4$ NPT								**1**					
	G $^1/_2$								**2**					
	$^1/_2$ NPT								**3**					
	Without threaded connection (pilot valve as spare part)								**4**					
Air supply	Internal connection for on/off actuators									**0**				
	External connection for continuous actuators									**1**				
Electrical connection	Female thread M 20 × 1.5	(Type -9)									**0**	**0**		
	Cable gland M 20 × 1.5 made of polyamide, black	(Type -4)									**0**	**1**		
	Adapter M 20 × 1.5 to female thread $^1/_2$ NPT	(Type -9)									**1**	**2**		
	Connector according to EN 175301-803, form A, made of polyamide, black [7])	(Type -0)									**2**	**3**		
Degree of protection	IP 65	(Types -0 and -4)											**1**	
	IP 66	(Type -9)											**2**	
Exhaust air filter at the pilot valve	None													**0**
	Filter M 5 made of polyethylene, IP 54	(Types -0 and -9)												**1**
	Filter-check valve G $^1/_4$ made of stainless steel 1.4305, IP 65	(Types -0 and -9)												**2**
Ambient temperature [8])	−20 ... +80 °C	(Type -0)													**0**
	−20 ... +60 °C	(Type -4)													**1**
	−10 ... +40 °C (max. +80 °C at T4)	(Type -9)													**2**
	−40 ... +40 °C (max. +80 °C at T4)	(Type -9)													**3**

[1]) According to EC Type Examination Certificate PTB 02 ATEX 2125 X and Certificate of Conformity NEPSI GYJ071071X.
[2]) According to EC Type Examination Certificate BAS 02 ATEX 2145, Certificate of Conformity IECEx BAS 04.0028 and Certificate of Conformity CEPEL-EX-195/04.
[3]) Not available with NAMUR interface/K_{VS} value 4.3.
[4]) Air flow at $p_1 = 2.4$ bar and $p_2 = 1.0$ bar can be calculated according to the following equation: $Q = K_{VS} \times 36.22$, expressed in m^3/h.
[5]) For versions with NAMUR interface/type of protection Ex d a distance plate is required (see "Spare parts and accessories", page 9).
[6]) On request.
[7]) The female connector is not included in the delivery (see "Spare parts and accessories", page 8).
[8]) The permissible maximum temperature of the solenoid valve depends on the permissible ambient temperature of the components, the type of protection and the temperature class.

Spare parts and accessories

Spare parts	
Order no.	**Designation**
8502-1091	Molded gasket (for air supply on booster valve with K_{VS} value 1.4)
0520-0620	Diaphragm made of CR, −20 to +80 °C (for booster valve with K_{VS} value 4.3)
0520-0622	Diaphragm made of CR, −20 to +80 °C (for booster valve with K_{VS} value 1.4)
0520-1097	Diaphragm made of VMQ, −45 to +80 °C (for booster valve with K_{VS} value 4.3)
0520-1128	Diaphragm made of VMQ, −45 to +80 °C (for booster valve with K_{VS} value 1.4)
1180-8311	Actuating element insert, −20 to +80 °C (for booster valve with K_{VS} value 4.3)
1180-8553	Actuating element insert, −45 to +80 °C (for booster valve with K_{VS} value 4.3)
8421-0044	O-ring 2.9 × 1.78 made of NBR (for CNOMO interface)
8421-9002	O-ring 13 × 3.5 made of VMQ (for NAMUR interface $^1/_4$" at booster valve with K_{VS} value 1.4)
8421-0364	O-ring 16 × 2 made of NBR (for NAMUR interface $^1/_4$" at booster valve with K_{VS} value 2.0)
8421-0368	O-ring 16 × 2 made of VMQ (for NAMUR interface $^1/_4$" at booster valve with K_{VS} value 2.0)
8421-1077	O-ring 24 × 2 made of NBR (for NAMUR interface $^1/_2$" at booster valve with K_{VS} value 4.3)
8421-0425	O-ring 24 × 2 made of VMQ (for NAMUR interface $^1/_2$" at booster valve with K_{VS} value 4.3)
8421-0407	O-ring 26 × 3 made of EPDM (for NAMUR interface $^1/_2$" at booster valve with K_{VS} value 4.3)
8421-0085	O-ring 26 × 2 made of NBR (for actuating element insert at booster valve with K_{VS} value 4.3)
8421-0418	O-ring 26 × 2 made of VMQ (for actuating element insert at booster valve with K_{VS} value 4.3)
8421-0102	O-ring 36 × 2 made of NBR (for actuating element insert at booster valve with K_{VS} value 2.0 and 4.3)
8421-0101	O-ring 36 × 2 made of VMQ (for actuating element insert at booster valve with K_{VS} value 2.0 and 4.3)

Accessories	
Order no.	**Designation**
0790-6658	Female connector according to EN 175301-803, form A, made of polyamide, black, degree of protection IP 65, with cable gland Pg 9 (for cable diameter 4 to 8 mm) and flat gasket made of nitrile rubber
8834-0388	Luminary gasket, 12 to 24 V AC/DC, with LED, green (for female connector according to EN 175301-803, form A)
8808-0200	Ex d cable gland M 20 × 1.5 made of brass (for cable diameter 6.5 to 14 mm)
8324-1280	Filter made of polyethylene, connection M 5, degree of protection IP 54
1790-7408	Filter-check valve with screw-in case G $^1/_4$ made of polyamide, degree of protection IP 65
1790-7253	Filter-check valve with screw-in case G $^1/_4$ made of stainless steel 1.4305, degree of protection IP 65
1790-9645	Filter-check valve with screw-in case G $^1/_4$ made of polyamide, degree of protection NEMA 4
1790-9646	Filter-check valve with screw-in case G $^1/_4$ made of stainless steel 1.4305, degree of protection NEMA 4

Spare parts and accessories (continued from page 8)

Mounting kits for solenoid valves with threaded connection	
Order no.	**Designation**
1400-6759	Mounting kit for linear actuators (actuator size 80/240 cm², connection G 1/4) with screwed pipe connection, connection G 1/4/G 1/4, made of stainless steel
	Mounting kit for linear actuators (actuator size 350/700 cm², connection G 3/8)
1400-6735	with screwed pipe connection, connection G 1/2/G 3/8, made of stainless steel
1400-6761	with screwed pipe connection, connection G 1/4/G 3/8, made of stainless steel
1400-6736	Mounting kit for linear actuators (actuator size 1 400 cm², connection G 3/4) with screwed pipe connection, connection G 1/2/G 3/4, made of stainless steel
1400-6737	Mounting kit for linear actuators (actuator size 2800 cm², connection G 1) with screwed pipe connection, connection G 1/2/G 1, made of stainless steel
	Mounting kit for linear actuators (actuator size 80/240 cm², connection G 1/4) with bracket made of stainless steel
1400-6749	and screwed joints for pipe 8 × 1, connection G 1/4/G 1/4, made of steel, galvanized
1400-6750	and screwed joints for pipe 8 × 1, connection G 1/4/G 1/4, made of stainless steel
	Mounting kit for linear actuators (actuator size 350/700 cm², connection G 3/8) with bracket made of stainless steel
1400-6738	and screwed joints for pipe 8 × 1, connection G 1/4/G 3/8, made of steel, galvanized
1400-6739	and screwed joints for pipe 8 × 1, connection G 1/4/G 3/8, made of stainless steel
1400-6743	and screwed joints for pipe 12 × 1, connection G 1/4/G 3/8, made of stainless steel
1400-6744	and screwed joints for pipe 10 × 1, connection G 1/2/G 3/8, made of polyamide
1400-6745	and screwed joints for pipe 10 × 1, connection G 1/4/G 3/8, made of polyamide
	Mounting kit for linear actuators (actuator size 700 cm², connection G 3/8) with bracket made of stainless steel
1400-6740	and screwed joints for pipe 12 × 1, connection G 1/2/G 3/8, made of steel, galvanized
1400-6741	and screwed joints for pipe 12 × 1, connection G 1/4/G 3/8, made of steel, galvanized
1400-6742	and screwed joints for pipe 12 × 1, connection G 1/2/G 3/8, made of stainless steel

Mounting kits and accessories for solenoid valves with NAMUR interface	
Order no.	**Designation**
	Mounting kit for linear actuators (actuator size 350/700 cm², connection G 3/8) with NAMUR rib via adapter plate NAMUR interface 1/4" to NAMUR rib (order no. 1400-6751)
1400-6746	with screwed joints for pipe 12 × 1, connection G 1/4/G 3/8, made of steel, galvanized
1400-6747	with screwed joints for pipe 12 × 1, connection G 1/4/G 3/8, made of stainless steel
1400-6748	with screwed joints for pipe 10 × 1, connection G 1/4/G 3/8, made of polyamide
	Mounting kit for linear actuators (actuator size 80/240 cm², connection G 1/4) with NAMUR rib via adapter plate NAMUR interface 1/4" to NAMUR rib (order no. 1400-6751)
1400-6752	with screwed joints for pipe 6 × 1, connection G 1/4/G 1/4, made of steel, galvanized
1400-6753	with screwed joints for pipe 6 × 1, connection G 1/4/G 1/4, made of stainless steel
1400-6756	with screwed joints for hose 10 × 1, connection G 1/4/G 1/4, made of polyamide
	Mounting kit for linear actuators (actuator size 350/700 cm², connection G 3/8) with NAMUR rib via adapter plate NAMUR interface 1/4" to NAMUR rib (order no. 1400-6751)
1400-6754	with screwed joints for pipe 8 × 1, connection G 1/4/G 3/8, made of steel, galvanized
1400-6755	with screwed joints for pipe 8 × 1, connection G 1/4/G 3/8, made of stainless steel
1400-6757	with screwed joints for pipe 10 × 1, connection G 1/4/G 3/8, made of polyamide
1400-6759	Mounting kit for linear actuators (actuator size 80/240 cm², connection G 1/4) with screwed pipe connection G 1/4/G 1/4, made of stainless steel
1400-3001	Mounting kit for Type 3353 Angle Seat Valve with adapter plate for NAMUR interface 1/4" made of stainless steel 1.4301
	Distance plate with NAMUR interface 1/4" to rotary actuator 1/4", incl. fixing screws and gaskets,
1400-9741	made of aluminum, powder-coated, grayish-beige RAL 1019
1402-0234	made of stainless steel 1.4404

Spare parts and accessories (continued from page 9)

Accessories for mounting kits	
Order no.	**Designation**
0320-1416	Bracket for NAMUR rib (required when a positioner or a limit switch is to be mounted to linear actuators with nominal size < DN 50 at the same time)
8320-0131	Hexagon socket head screw M 8 × 60 – A 4 DIN 931
1400-6751	Adapter plate NAMUR interface $^1/_4$" to NAMUR rib

(Specifications subject to change without notice.)

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2014-08 · T 3962-5 EN