DATA SHEET

T 3756 EN

Type 3756 Booster Valve

Application

Control of single- and double-acting pneumatic actuators and boosting of pneumatic binary signals

General

The Type 3756 Booster Valve is used to control single- and double-acting pneumatic actuators. Different styles, types of actuation and switching functions result in versatile use.

Special features

- 3/2-, 5/2-, 5/3 or 6/2-way function
- Spring-return mechanism or detent mechanism
- Pneumatic or pilot operated
- K_{VS} 1.4 to 10
- Max. operating pressure 10 bar
- Corrosion-resistant aluminum or stainless steel enclosure for use in rough ambient conditions
- Ambient temperature from –45 to +80 °C
- Threaded connection for installation into pipelines or NAMUR interface according to VDI/VDE 3845 for mounting on pneumatic actuators

Fig. 1: *Type 3756 Booster Valve*

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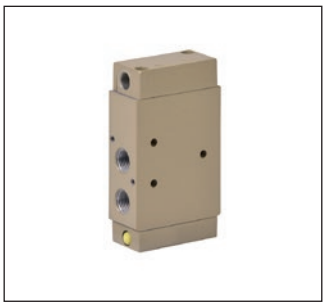
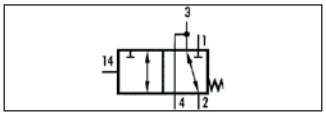
Edition April 2023

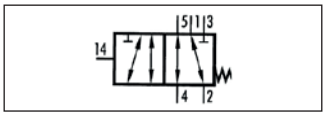
Booster valve with threaded connection

K_{VS} 1.4

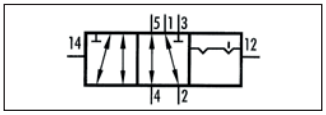




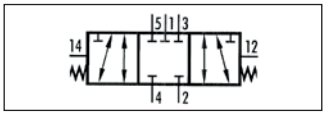
- 3/2-way function with spring-return mechanism
- Exhaust air feedback
- G ¼ (¼ NPT) connection



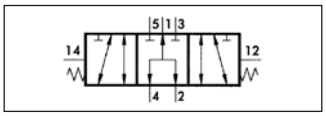
- 5/2-way function with spring-return mechanism
- G ¼ (¼ NPT) connection



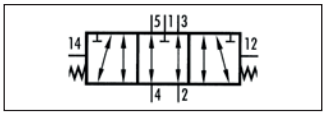
- 5/2-way function with two detent positions
- G ¼ (¼ NPT) connection



- 5/3-way function with spring-centered mid-position (ports 2 and 4 closed)
- G ¼ (¼ NPT) connection

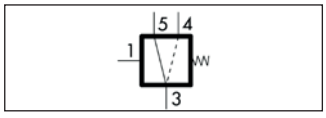


- 5/3-way function with spring-centered mid-position (ports 2 and 4 supplied with air)
- G ¼ (¼ NPT) connection

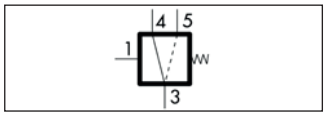


- 5/3-way function with spring-centered mid-position (ports 2 and 4 vented)
- G ¼ (¼ NPT) connection

K_{VS} 4.3

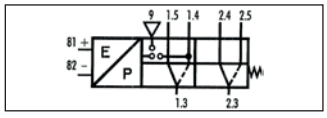


- 3/2-way function with spring-return mechanism (closed in neutral position)
- G ½ (½ NPT) connection

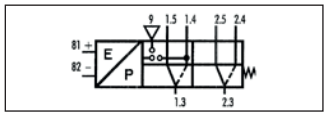


- 3/2-way function with spring-return mechanism (open in neutral position)
- G ½ (½ NPT) connection

K_{VS} 4.3

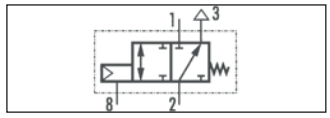


- 5/2-way function with spring-return mechanism
- G ½ (½ NPT) connection



- 6/2-way function with spring-return mechanism
- G ½ (½ NPT) connection

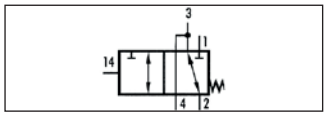
K_{VS} 10



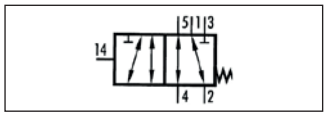
- 3/2-way function with spring-return mechanism
- G 1 connection

Booster valves with NAMUR interface

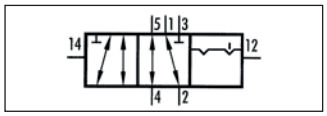
K_{VS} 1.4



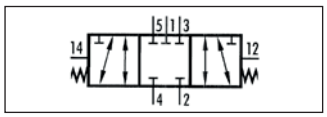
- 3/2-way function with spring-return mechanism
- NAMUR interface ¼



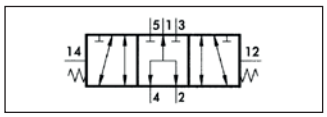
- 5/2-way function with spring-return mechanism
- NAMUR interface ¼



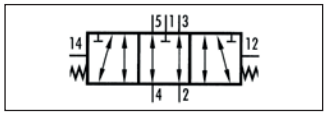
- 5/2-way function detent mechanism
- NAMUR interface ¼



- 5/3-way function with spring-centered mid-position (ports 2 and 4 closed)
- NAMUR interface ¼

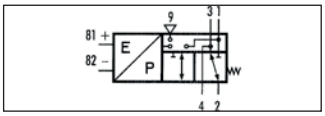


- 5/3-way function with spring-centered mid-position (ports 2 and 4 supplied with air)
- NAMUR interface ¼

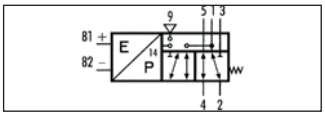


- 5/3-way function with spring-centered mid-position (ports 2 and 4 vented)
- NAMUR interface ¼

K_{VS} 2.9

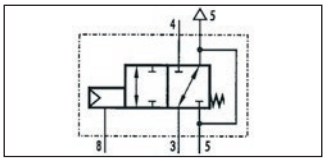


- 3/2-way function with spring-return mechanism
- NAMUR interface ½

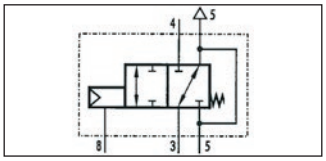


- 5/2-way function with spring-return mechanism
- NAMUR interface ½

K_{VS} 2.0 or 4.3

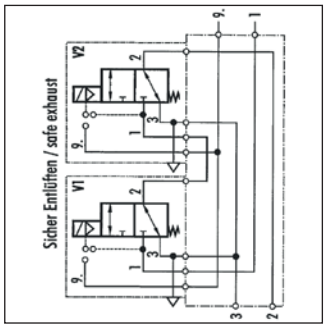


- 3/2-way function with spring-return mechanism
- NAMUR interface ¼

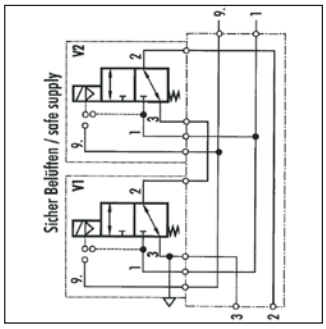


- 3/2-way function with spring-return mechanism
- NAMUR interface ½

K_{VS} 1.9 · Redundancy



- 3/2-way function with spring-return mechanism
- NAMUR interface ½
- Series connection · Emergency venting



- 3/2-way function with spring-return mechanism
- NAMUR interface ½
- Parallel connection · Emergency supply

Function of the switching diaphragm

The booster valve consists of a body with a diaphragm element actuated on one side with return spring.

In the neutral position, the connection from port 4 to port 3 is closed by the spring force acting on the switching element. After applying the necessary control pressure on the switching diaphragm, the booster valve switches to the operating position and opens the connection from port 4 to port 3. This causes port 5 to close. The return spring causes the switching element to switch back to the neutral position after the control pressure is removed.

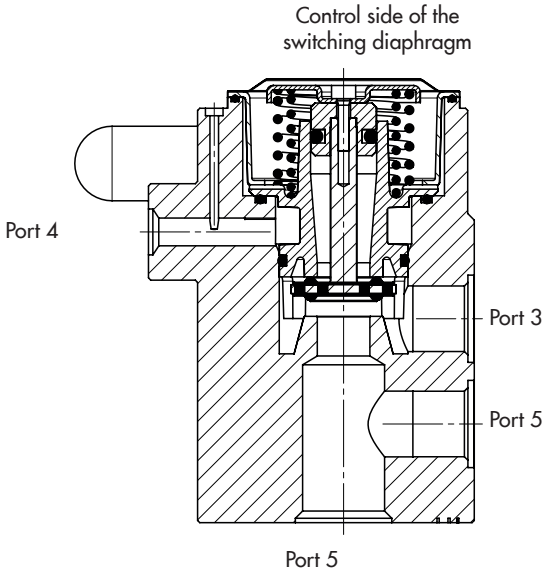


Fig. 2: *Type 3756 Booster Valve with switching diaphragm*

Function of the spool

The booster valve consists of a body with a spool actuated on one side with return spring.

In the neutral position, the connection from port 1 to port 2 and the connection from port 4 to port 5 is open. After applying the necessary control pressure to the control side of the spool, the spool moves to the operating position, opening the connection from port 1 to port 4 and the connection from port 2 to port 3. The return spring causes the spool to be pushed back to the neutral position after the control pressure is removed.

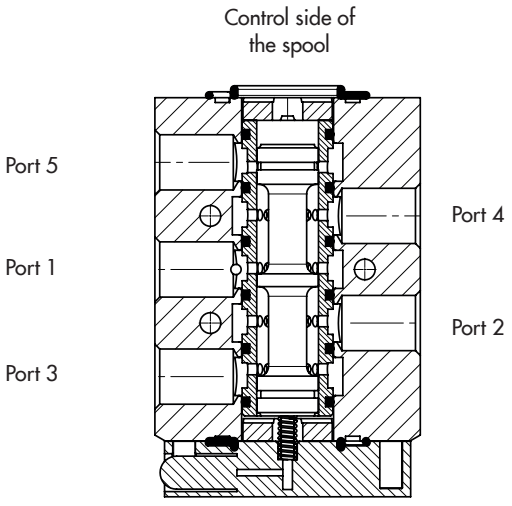


Fig. 3: *Type 3756 Booster Valve with spool*

Technical data

Booster valve with threaded connection or NAMUR interface, K_{VS} 1.4, actuated on one side				
Switching function		3/2-way function with exhaust air feedback		5/2-way function
K_{VS} [1]		1.4		
Safety approval		TÜV [2]		–
Design		Spool, metal-to-metal seat, zero overlap, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404		
	Seals	Silicone rubber		
	Filter	Polyethylene		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		Pneumatic connection G ⅛ or NPT ⅛	1.4 to 10 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)
		CNOMO interface	1.4 to 10 bar [3]	
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar	
		Type 3967 Solenoid Valve	1.4 to 10 bar	
Max. operating pressure		10.0 bar		
Ambient temperature [4]		–45 to +80 °C		
Connection		G ¼ or ¼ NPT and NAMUR interface ¼ [5]		
Approx. weight		0.48 kg		

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula:
$Q = K_{VS} \times 36.22$ in m³/h.
2) Emergency release or locking of compressed air supply
3) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
4) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
5) NAMUR interface according to VDI/VDE 3845

Booster valve with threaded connection or NAMUR interface, K_{VS} 1.4, actuated on both sides					
Switching function		5/2-way function with two detent positions	5/3-way function with spring-centered mid-position (ports 2 and 4 closed)	5/3-way function with spring-centered mid-position (ports 2 and 4 vented)	5/3-way function with spring-centered mid-position (ports 2 and 4 supplied with air)
K_{VS} [1]		1.4			
Safety approval		TÜV [2]	–	TÜV [2]	–
Design		Spool, metal-to-metal seat, zero overlap			
Material	Body	Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404			
	Seals	Silicone rubber			
	Filter	Polyethylene			
	Screws	Stainless steel 1.4571			
	Springs	Stainless steel 1.4310			
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases			
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected			
Actuation, control pressure, switching points		Pneumatic connection G ⅛ or NPT ⅛	1.4 to 10 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)	
		CNOMO interface	1.4 to 10 bar [3]		
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar		
		Type 3967 Solenoid Valve	1.4 to 10 bar		
Max. operating pressure		10.0 bar			
Ambient temperature [4]		–45 to +80 °C			
Connection		G ¼ or ¼ NPT and NAMUR interface ¼ [5]			
Approx. weight		0.48 kg			

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula:
$Q = K_{VS} \times 36.22$ in m³/h.
2) Emergency release or locking of compressed air supply
3) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
4) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
5) NAMUR interface according to VDI/VDE 3845

Booster valve with threaded connection, K_{VS} 4.3, actuated on one side				
Switching function		3/2-way function (closed in neutral position)		
K_{VS} [1] (direction of flow)		1.9 (4»3), 1.5 (3»4), 4.3 (3»5), 4.7 (5»3)		
Safety approval		SIL [2], TÜV [3]		
Design		Poppet valve with diaphragm actuator, soft seated, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404		
	Diaphragms	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Seals	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		Pneumatic connection G ¼ or ¼ NPT	1.4 to 3 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)
		CNOMO interface	1.4 to 10 bar [4]	
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar	
Max. operating pressure		10.0 bar		
Ambient temperature [5]		–20 to +80 °C –45 to +80 °C		
Connection		G ½ or ½ NPT		
Approx. weight		0.58 kg		

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula:
$Q = K_{VS} \times 36.22$ in m³/h.
2) SIL according to IEC 61508
3) Emergency release or locking of compressed air supply
4) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
5) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

Booster valve with threaded connection, K_{VS} 4.3, actuated on one side				
Switching function		3/2-way function (open in neutral position)		
K_{VS} [1] (direction of flow)		1.9 (4»3), 1.5 (3»4), 4.3 (3»5), 4.7 (5»3)		
Safety approval		–		
Design		Poppet valve with diaphragm actuator, soft seated, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019		
	Diaphragms	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Seals	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		Pneumatic connection G ¼ or ¼ NPT	1.4 to 3 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)
Max. operating pressure		10.0 bar		
Ambient temperature [2]		–20 to +80 °C –45 to +80 °C		
Connection		G ½ or ½ NPT		
Approx. weight		0.58 kg		

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula:
$Q = K_{VS} \times 36.22$ in m³/h.
2) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

Booster valve with threaded connection, K_{VS} 4.3, actuated on one side				
Switching function		5/2-way function		6/2-way function
K_{VS} [1] (direction of flow)		1.9 (1.4»1.3 and 2.4»2.3), 1.5 (1.3»1.4 and 2.3»2.4), 4.3 (1.3»1.5 and 2.3»2.5), 4.7 (1.5»1.3 and 2.5»2.3)		
Safety approval		–		
Design		Poppet valve with diaphragm actuator, soft seated, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019		
	Diaphragms	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Seals	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		Pneumatic connection G ¼ or ¼ NPT	1.4 to 3 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)
		CNOMO interface	1.4 to 10 bar [2]	
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar	
Max. operating pressure		10.0 bar		
Ambient temperature [3]		–20 to +80 °C –45 to +80 °C		
Connection		G ½ or ½ NPT		
Approx. weight		1.1 kg		

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.
2) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
3) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

Booster valve with NAMUR interface, K_{VS} 2.9 [1], actuated on one side				
Switching function		3/2-way function		5/2-way function
K_{VS} [2]		2.9		
Safety approval		–		
Design		Spool, metal-to-metal seat, zero overlap, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019		
	Seals	Silicone rubber		
	Filter	Polyethylene		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		CNOMO interface	1.4 to 10 bar [3]	
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar	
		Type 3967 Solenoid Valve	1.4 to 10 bar	
Max. operating pressure		10.0 bar		
Ambient temperature [4]		–45 to +80 °C		
Connection		G ½ or ½ NPT and NAMUR interface ½ [5]		
Approx. weight		1.76 kg		

1) On request
2) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.
3) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
4) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
5) NAMUR interface according to VDI/VDE 3845

Booster valve with NAMUR interface, K_{VS} 2.9 [1], actuated on both sides			
Switching function		5/2-way function with two detent positions	
K_{VS} [2]		2.9	
Safety approval		–	
Design		Spool, metal-to-metal seat, zero overlap, with return spring	
Material	Body	Aluminum, powder coated, gray beige RAL 1019	
	Seals	Silicone rubber	
	Screws	Stainless steel 1.4571	
	Springs	Stainless steel 1.4310	
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases	
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected	
Actuation, control pressure, switching points		CNOMO interface	1.4 to 10 bar [3]
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar
		Type 3967 Solenoid Valve	1.4 to 10 bar
Max. operating pressure		10.0 bar	
Ambient temperature [4]		–45 to +80 °C	
Connection		G ½ or ½ NPT and NAMUR interface ½ [5]	
Approx. weight		1.76 kg	

1) On request
2) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.
3) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
4) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
5) NAMUR interface according to VDI/VDE 3845

Booster valve with NAMUR interface, K_{VS} 2.0 or 4.3, actuated on one side				
Switching function		3/2-way function		
K_{VS} [1] (direction of flow)		1.1 (4»3) 2.0 (3»5)		1.9 (4»3) 4.3 (3»5)
Safety approval		SIL [2], TÜV [3]		
Design		Poppet valve with diaphragm actuator, soft seated, with return spring		
Material	Body	Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404		
	Diaphragms	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Seals	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)		
	Screws	Stainless steel 1.4571		
	Springs	Stainless steel 1.4310		
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases		
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected		
Actuation, control pressure, switching points		Pneumatic connection G ¼ or ¼ NPT	1.4 to 3 bar	≤ 0.2 bar (switchover to neutral position), ≥ 1.4 bar (switchover to operating position)
		CNOMO interface	1.4 to 10 bar [4]	
		Type 3963 Solenoid Valve (as spare part)	1.4 to 6 bar	
		Type 3967 Solenoid Valve	1.4 to 10 bar	
Max. operating pressure		10.0 bar		
Ambient temperature [5]		–20 to +80 °C –45 to +80 °C		
Connection	Supply	G ¼ or ¼ NPT and NAMUR interface ¼ [6] with G ⅜ (⅜ NPT)		G ½ or ½ NPT and NAMUR interface ½ [6]
	Exhaust	G ½ or ½ NPT and NAMUR interface ¼ [6] with G ⅜ (⅜ NPT)		G ½ or ½ NPT and NAMUR interface ½ [6]
Approx. weight		1.38 kg		1.5 kg

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.
2) SIL according to IEC 61508
3) Emergency release or locking of compressed air supply
4) The permissible control pressure with the CNOMO interface depends on the pilot valve used.
5) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
6) NAMUR interface according to VDI/VDE 3845

Booster valve with NAMUR interface, K_{VS} 1.9, actuated on both sides (redundancy)			
Switching function		3/2-way function (series connection · emergency venting)	3/2-way function (parallel connection · emergency supply)
K_{VS} [1]		1.9	
Safety approval		SIL [2]	
Design		Poppet valve with diaphragm actuator, soft seated, with return spring	
Material	Body	Aluminum, powder coated, gray beige RAL 1019 or stainless steel 1.4404	
	Diaphragms	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)	
	Seals	Chloroprene rubber (–20 to +80 °C) or silicone rubber (–45 to +80 °C)	
	Screws	Stainless steel 1.4571	
	Springs	Stainless steel 1.4310	
Operating medium		Instrument air (free from corrosive substances) or nitrogen, air containing oil or non-corrosive gases	
Compressed air quality acc. to ISO 8573-1		Max. particle size and density: Class 4 · Oil content: Class 3 · Pressure dew point: Class 3 or at least 10 K below the lowest ambient temperature to be expected	
Actuation, control pressure, switching points		Type 3963 Solenoid Valve (as spare part) 1.4 to 6 bar	
		Type 3967 Solenoid Valve 1.4 to 10 bar	
Max. operating pressure		10.0 bar	
Ambient temperature [3]		–20 to +80 °C –45 to +80 °C	
Connection		G ½ or ½ NPT and NAMUR interface ½ [4]	
Approx. weight		2.2 kg	

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula:
$Q = K_{VS} \times 36.22$ in m³/h.

2) SIL according to IEC 61508

3) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.

4) NAMUR interface according to VDI/VDE 3845

Article code

Booster valve	Type 3756-	x	x	x	x	x	x	x	x	x	x
Actuation											
Pneumatic		0									
Over CNOMO interface		1									
With Type 3963 Solenoid Valve (as spare part)		2									
With Type 3967 Solenoid Valve		3									
Over NAMUR interface ¼ according to VDI/VDE 3845		4									
Over NAMUR interface ¼ according to VDI/VDE 3847		5									
Switching function											
3/2-way function with spring-return mechanism			0								
5/2-way function with spring-return mechanism			1								
5/2-way function with two detent positions			2								
5/3-way function with spring-centered mid-position (ports 2 and 4 closed)			3								
5/3-way function with spring-centered mid-position (ports 2 and 4 supplied with air)			4								
5/3-way function with spring-centered mid-position (ports 2 and 4 vented)			5								
6/2-way function with spring-return mechanism			6								
3/2-way function with spring-return mechanism (open in neutral position)			7								
Redundancy connection (article definition in combination with "Special version" property)			9								
Attachment											
NAMUR interface according to VDI/VDE 3845				0							
Threaded connection				1							
K_{VS} [1]											
1.4					0						
4.3					1						
2.9					2						
2.0					3						
1.9					5						
Connection											
G ¼						0					
¼ NPT						1					
G ½						2					
½ NPT						3					
G 1						6					
Ambient temperature [2]											
–20 to +80 °C							0				
–45 to +80 °C							1				
–40 to +80 °C							2				
Material											
Aluminum								0			
Stainless steel								1			
Safety approval											
Without									0		
SIL [3]									1		
TÜV [4]									2		
Special version											
Without										0	0	0
Emergency venting; series connection (1oo2 redundancy)		5	9	0						0	1	0
Emergency air supply; parallel connection (2oo2 redundancy)		5	9	0						0	1	1

1) The air flow rate when p_1 = 2.4 bar and p_2 = 1.0 bar is calculated using the following formula: $Q = K_{VS} \times 36.22$ in m³/h.
2) The maximum permissible ambient temperature depends on the permissible ambient temperature of the components, type of protection and temperature class.
3) SIL according to IEC 61508
4) Emergency release or locking of compressed air supply

Summary of explosion protection approvals

Type	Certification			Type of protection/comments
3756	**SIL**			Details in Safety Manual: ▶ SH 3756
	TÜV	Number	S 284 2013 E2 rev. 01	Mounted on control valves acc. to DIN 3394-1, DIN EN 161, DIN 32725, DIN EN 264 and DIN 32730
		Date	2014-01-16	

Accessories and spare parts

Spare parts	
Order no.	**Designation**
8502-1091	Molded seal (for supply air in booster valves with K_{VS} 1.4)
8421-9002	O-ring 13×5, –45 to +80 °C (for booster valves with NAMUR interface ¼, K_{VS} 1.4)
8421-0364	O-ring 16×2, –20 to +80 °C (for booster valves with NAMUR interface ¼, K_{VS} 2.0)
8421-0368	O-ring 16×2, –45 to +80 °C (for booster valves with NAMUR interface ¼, K_{VS} 2.0)
8421-1077	O-ring 24×2, –20 to +80 °C (for booster valves with NAMUR interface ½, K_{VS} 4.3)
8421-0425	O-ring 24×2, –45 to +80 °C (for booster valves with NAMUR interface ½, K_{VS} 4.3)
8421-0419	O-ring 28×2, –45 to +80 °C (for booster valves with NAMUR interface ½, K_{VS} 2.9)
8333-1303	Screw M5×60 A4 (for booster valves with NAMUR interface, K_{VS} 2.0)
8392-0651	Spring washer A5-A4 (for booster valves with NAMUR interface, K_{VS} 2.0 and 2.9)
8333-0538	Screw M5×60 A4 (for booster valves with NAMUR interface, K_{VS} 4.3)
8392-0658	Spring washer A5-A4 (for booster valves with NAMUR interface, K_{VS} 4.3)
8333-1272	Screw M5×60 A4 (for booster valves with NAMUR interface, K_{VS} 2.9)

Accessories	
Order no.	**Designation**
8504-0066	Filter made of polyethylene, G ¼ connection, degree of protection IP 54
8504-0068	Filter made of polyethylene, G ½ connection, degree of protection IP 54
1136-0208	Silencer G 1, male thread
1400-9598	Adapter plate, paint-coated aluminum, for NAMUR interface ¼ on NAMUR rib/threaded connection (G ¼)
1400-9599	Adapter plate, paint-coated aluminum, for NAMUR interface ¼ on NAMUR rib/threaded connection (¼ NPT)
1400-9600	Adapter plate, stainless steel 1.4404, for NAMUR interface ¼ on NAMUR rib/threaded connection (G ¼)
1400-9601	Adapter plate, stainless steel 1.4404, for NAMUR interface ¼ on NAMUR rib/threaded connection (¼ NPT)
1402-0827	Adapter plate, paint-coated aluminum, for NAMUR interface ½ on NAMUR rib/threaded connection (G ½)
1402-0829	Adapter plate, paint-coated aluminum, for NAMUR interface ½ on NAMUR rib/threaded connection (½ NPT)
1402-0828	Adapter plate, stainless steel 1.4404, for NAMUR interface ½ on NAMUR rib/threaded connection (G ½)
1402-0830	Adapter plate, stainless steel 1.4404, for NAMUR interface ½ on NAMUR rib/threaded connection (½ NPT)
1380-1652	Adapter plate, paint-coated aluminum, for NAMUR interface ¼ on rotary actuator ½
1380-1797	Adapter plate, stainless steel 1.4404, for NAMUR interface ¼ on rotary actuator ½
1380-1795	Adapter plate, paint-coated aluminum, for NAMUR interface ½ on rotary actuator ¼
1380-1796	Adapter plate, stainless steel 1.4404, for NAMUR interface ½ on rotary actuator ¼