

Series 563, 565, 567

Brochure





Directional valves ► Pneumatically operated Series 563, 565, 567

	3/2-directional valve, Series 563 ► Qn = 1350 l/min ► plate connection ► Compressed air connection output: G 1/4	3
	3/2-directional valve, Series 565 ► Qn = 4240 l/min ► plate connection ► Compressed air connection output: G 1/2	4
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3/2-directional valve, Series 563

► Qn = 1350 l/min ► plate connection ► Compressed air connection output: G 1/4



Oil content of compressed air 0 mg/m³ - 5 mg/m³

Materials:

Housing Aluminum

Seals Acrylonitrile butadiene styrene

Technical Remarks

■ The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

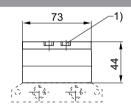
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

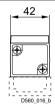
	Compressed air		Flow	Working	Control	Ambient tem-	Medium tem-	Weight	Note	Part No.
	connection		rate	pressure	pressure	perature	perature min./			
			value	min./max.	min./max.	min./max.	max.			
	Input	Output								
			[l/min]	[bar]	[bar]	[°C]	[°C]	[kg]		
12				-1 / 10	3.5 / 10	-20°C / +70°C	-20°C / +70°C		-	5632010000
12 T T T W	G 1/4	G 1/4	1350	-1 / 30	5.5 / 10	-20°C / +70°C	-20°C / +70°C	0.3	-	5632310000
3 1 1				-1 / 10	3.5 / 10	-20°C / +120°C	-20°C / +120°C		1)	5632510000

1) Seal: Fluorocaoutchouc

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Dimensions





1) Tightening torque for mounting screws: 2.7 \pm 0.3 Nm Base plate not included in the scope of delivery



3/2-directional valve, Series 565

► Qn = 4240 l/min ► plate connection ► Compressed air connection output: G 1/2



Oil content of compressed air 0 mg/m³ - 5 mg/m³

Materials:

Housing Aluminum

Seals Acrylonitrile butadiene styrene

Technical Remarks

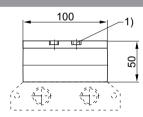
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

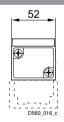
	Compr	essed air	Flow	Working	Control	Ambient tem-	Medium tem-	Weight	Note	Part No.
	connection		rate	pressure	pressure	perature	perature min./			
			value	min./max.	min./max.	min./max.	max.			
	Input	Output								
			[l/min]	[bar]	[bar]	[°C]	[°C]	[kg]		
12				-1 / 10	3.5 / 10	-20°C / +70°C	-20°C / +70°C		-	5652010000
12	G 1/2	G 1/2	4240	-1 / 30	5.5 / 10	-20°C / +70°C	-20°C / +70°C	0.55	-	5652310000
3 1 1				-1 / 10	3.5 / 10	-20°C / +120°C	-20°C / +120°C		1)	5652510000

1) Seal: Fluorocaoutchouc

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Dimensions





1) Tightening torque for mounting screws: 5.5 \pm 0.5 Nm Base plate not included in the scope of delivery



3/2-directional valve, Series 567

► Qn = 13620 I/min ► plate connection ► Compressed air connection output: G 1



Version Poppet valve
Working pressure min./max. See table below
Control pressure min./max. See table below
Ambient temperature min./max. See table below
Medium temperature min./max. See table below
Medium Compressed air

Max. particle size $5 \mu m$

Oil content of compressed air 0 mg/m³ - 5 mg/m³

Materials:

Housing Aluminum

Seals Acrylonitrile butadiene styrene

Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

	Compressed air		Flow	Working	Control	Ambient tem-	Medium tem-	Weight	Note	Part No.
	connection						perature min./			
			value	min./max.	min./max.	min./max.	max.			
	Input	Output								
			[l/min]	[bar]	[bar]	[°C]	[°C]	[kg]		
12				-1 / 10	3.5 / 10	-20°C / +70°C	-20°C / +70°C		-	5672010000
12 T T T W	G 1	G 1	13620	-1 / 30	5.5 / 10	-20°C / +70°C	-20°C / +70°C	1.8	-	5672310000
3 1 1				-1 / 10	3.5 / 10	-20°C / +120°C	-20°C / +120°C		1)	5672510000

1) Seal: Fluorocaoutchouc

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

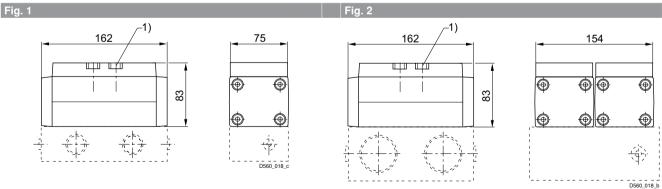


Fig. 1: valve 567, G1 Fig. 2: 2 x valve 567, G1 1/2. Two parallel 567 valves on subbase 568-442. 1) Tightening torque for mounting screws: 22 ± 2 Nm Base plate not included in the scope of delivery

Series 563, 565, 567 Accessories

Single subbase, for series 563-565

► thread connections on the bottom ► Compressed air connection output: G 1/4 - G 1/2



Ambient temperature min./max. -20°C / +120°C Medium temperature min./max. -20°C / +120°C Medium Compressed air Working pressure min./max. -1 bar / 30 bar Number of valve positions Surface painted Direction of pneumatic port (1) Down Direction of pneumatic port (3,5) Down Direction of pneumatic port (2,4) Down Direction of pneumatic port (12) Down Direction of pneumatic port (14) Down

Materials:

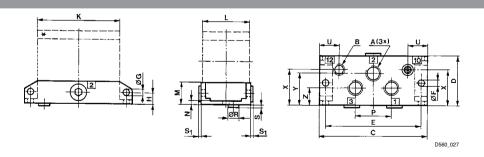
Base plate Die-cast aluminum, black painted

Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Suitable for Series			Compres	sed air connection	Weight	Part No.
	Input	Output	Exhaust	Pilot connection		
	[1]	[2 / 4]	[3 / 5]	[14]	[kg]	
563	G 1/4	G 1/4	G 1/4	G 1/8	0.16	R402003177
565	G 3/8	G 3/8	G 3/8	G 1/8	0.39	5644410000
363	G 1/2	G 1/2	G 1/2	G 1/6	0.37	5654410000

Dimensions



Part No.	Α	В	С	D	Е	F	G	Н	K	L	М	N
R402003177	G 1/4	G 1/8	96	44	85	5.3	5.1	10	73	42	20	4
5644410000	G 3/8	G 1/8	128	56	114	6.5	6.1	17	100	52	32	6
5654410000	G 1/2	G 1/8	128	56	114	6.5	6.1	17	100	52	32	6
Part No.	D	P	٥	S1	11	Y	v	7	Weight			
rait No.		"	3	31		^			kg			
R402003177	32	11	2	3	17.5	28.5	28.5	15.5	0.16			

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information



Series 563, 565, 567 Accessories

Part No.	Р	R	S	S1	U	Х	Υ	Z	Weight kg		
5644410000	56	11	2	3.5	21.5	40	36	20	0.39		
5654410000	56	11	2	3.5	21.5	40	36	20	0.37		

Single subbase, Series 563, 565, 567

► thread connections on the side ► Compressed air connection output: G 1/4 - G 1 1/2



-20°C / +120°C Ambient temperature min./max. Medium temperature min./max. -20°C / +120°C Medium Compressed air Working pressure min./max. -1 bar / 42 bar Number of valve positions Surface painted Direction of pneumatic port (1) On the side Direction of pneumatic port (3,5) On the side Direction of pneumatic port (2,4) On the side Direction of pneumatic port (12) On the side Direction of pneumatic port (14) On the side

Materials:

Base plate Die-cast aluminum, black painted

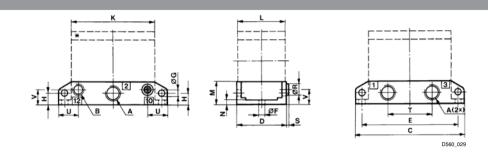
Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Suitable for Series			Compresse	d air connection	Weight	Fig.	Part No.
	Input	Output	Exhaust	Pilot connection			
	[1]	[2 / 4]	[3 / 5]	[14]	[kg]		
563	G 1/4	G 1/4	G 1/4	G 1/8	0.13	Fig. 1	5634420000
565	G 3/8	G 3/8	G 3/8	G 1/8	0.37	Fig. 1	5644420000
363	G 1/2	G 1/2	G 1/2	G 1/8	0.32	Fig. i	5654420000
567	G 3/4	G 3/4	G 3/4	G 1/8	1.1	Fig. 2	5664420000
367	G 1	G 1	G 1	G 1/6	1	Fig. 2	5674420000
2x 567	G 1 1/2	G 1 1/2	G 1 1/2	G 1/4	3.7	Fig. 3	5684420000

Series 563, 565, 567 Accessories





Part No.	А	В	С	D	Е	F	G	H	K	L	М	Z
5634420000	G 1/4	G 1/8	96	44	85	5.3	5.1	10	73	42	20	4
5644420000	G 3/8	G 1/8	128	56	114	6.5	6.1	17	100	52	32	6
5654420000	G 1/2	G 1/8	128	56	114	6.5	6.1	17	100	52	32	6
Part No.	R	S	Т	U	٧	Weight						
						kg						
5634420000	10	2	39	17.5	13	0.13						
5644420000	10	2	56	21.5	23.5	0.37						

0.32

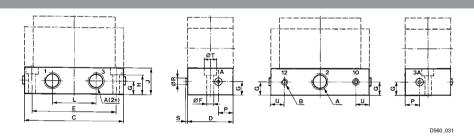
23.5

21.5

Fig. 2

5654420000

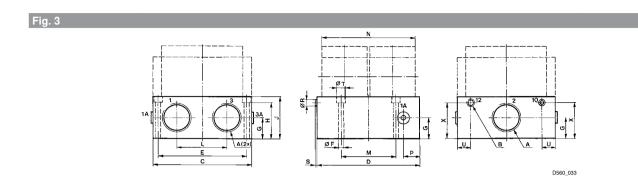
10



Part No.	А	В	С	D	Е	F	G	H	ſ	L	Р	R
5664420000	G 3/4	G 1/8	162	75	138	11	24	32	44	72	24	10
5674420000	G 1	G 1/8	162	75	138	11	24	32	44	72	24	10
Part No.	S	Т	U	Weigh kg	t J							
5664420000	2	20	22	1.1	1							
5674420000	2	20	22	1								



Series 563, 565, 567 Accessories



	Part No.	Α	В	С	D	E	F	G	Н	J	L	М	N
5	684420000	G 1 1/2	G 1/4	162	170	146	9	35	60	70	84	90	154
	Part No.	Р	R	S	Т	U	X	Weight kg					
5	684420000	27	10	2	14	22	60	3.7					

Base plate, Series 563, 565

► Compressed air connection output: G 1/4 - G 1/2 ► Can be assembled into blocks



Ambient temperature min./max. -20°C / +120°C -20°C / +120°C Medium temperature min./max. Medium Compressed air Working pressure min./max. -1 bar / 30 bar Number of valve positions Surface painted Direction of pneumatic port (2,4) Down Direction of pneumatic port (12) Down Direction of pneumatic port (14) Down

Materials:

Base plate Die-cast aluminum, black painted Seals Acrylonitrile Butadiene Rubber

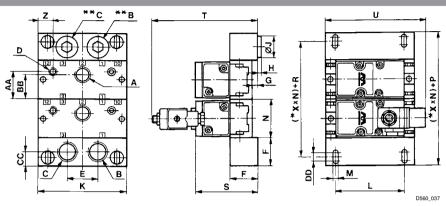
Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Suitable for Series			Compres	Weight	Part No.	
	Input	Output	Exhaust	Pilot connection		
	[1]	[2 / 4]	[3 / 5]	[14]	[kg]	
563	-	G 1/4	-	G 1/8	0.15	5634510000
565	G 3/4	G 3/8	G 3/4	G 1/8	0.36	5644510000
363	-	G 1/2	-	G 1/6	0.33	5654510000

Series 563, 565, 567 Accessories

Dimensions



^{*} N = number of subbases

^{**} Blanking plug

Part No.	А	В	С	D	Е	F	G	Н	J	K	L	М
5634510000	G 1/4	G 3/8	G 3/8	G 1/8	30	25	5	3	17	96	74	6.5
5644510000	G 3/8	G 3/4	G 3/4	G 1/8	44	40	8	4.5	27	128	100	7
5654510000	G 1/2	G 3/4	G 3/4	G 1/8	44	40	8	4.5	27	128	100	7

Part No.	N	Р	R	S	Т	U	Z	AA	ВВ	СС	DD	Weight
												kg
5634510000	44	50	25	68	119	114	17.5	28.5	28.5	12.5	12	0.15
5644510000	56	80	56	90	159	135	21.5	40	36	20	12	0.36
5654510000	56	80	56	90	159	135	21.5	40	36	20	12	0.33

End plate kit, Series 563, 565

► Can be assembled into blocks



5600-351

Ambient temperature min./max. Medium temperature min./max.

Medium

Working pressure min./max.

Surface

Direction of pneumatic port (1)
Direction of pneumatic port (3,5)

Materials: Housing

Seals

-20°C / +120°C

-20°C / +120°C

Compressed air

-1 bar / 30 bar

painted

Down

Down

Die-cast aluminum, black painted Acrylonitrile Butadiene Rubber

Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information



Series 563, 565, 567 Accessories

Suitable for Series		pressed air connection	Order quantity	Weight	Part No.
	Input	Exhaust	[pcs.]		
	[1]	[3 / 5]		[kg]	
563	G 3/8	G 3/8	2	0.34	5634800000
565	G 3/4	G 3/4	2	1	5654800000
Scope of delivery incl. seal	and mounting screws				

Blanking plate, for series 563-565



Ambient temperature min./max. -20 °C / +120 °C

Medium temperature min./max. -20 °C / +120 °C

Medium Compressed air

Working pressure min./max. -1 bar / 30 bar

Number of valve positions 1

Materials:

Surface

Housing Die-cast aluminum, black painted Seals Acrylonitrile Butadiene Rubber

painted

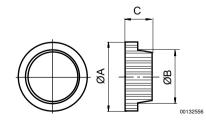
Technical Remarks

- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter "Technical information".

Suitable for Series		Part No.
	[kg]	
563	0.07	5634530000
565	0.11	5654530000
Scope of delivery incl. seal and mounting screws		

Separator





The delivered product varies from that in the illustration. See the drawing for an exact description.

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Series 563, 565, 567 Accessories

Part No.	Port	Туре	ØA	ØB	С	Ambient tempera-
						ture
						min./max.
5634810000	G 1/4	563	14.6	12	6	-20 / 120
5654810000	G 1/2	565	22.9	18.9	8	-20 / 120

Part No.	Material	Material Seal	Weight [kg]			
5634810000	Brass	Acrylonitrile Butadiene Rubber	0.004			
5654810000	Brass	Acrylonitrile Butadiene Rubber	0.045			

Silencers, Series SI1

► Sintered bronze



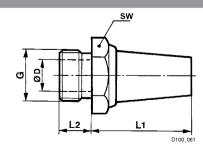
Working pressure min./max. 0 bar / 10 bar Ambient temperature min./max. -25 $^{\circ}$ C / +80 $^{\circ}$ C Medium Compressed air

Materials:
Silencers Sintered bronze
Thread Brass

P100_060

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 1/4	79	2900	10	0.02	1827000001
G 3/8	84	5900	5	0.05	1827000002
G 1/2	90	7100	2	0.08	1827000003
G 1/4	-	-	10	0.013	R412004817

Dimensions





Series 563, 565, 567 **Accessories**

Part No.	Port G	SW	ØD	L1	L2							
1827000001	G 1/4	17	8.5	25	8							
1827000002	G 3/8	22	12	34	10							
1827000003	G 1/2	27	14.5	44	12							
R412004817	G 1/4	16	8.5	18.7	7.6							
0												

Sound pressure level measured at 6 bar at 1 m distance

Silencers, Series SI1

► Sintered bronze



P100_037

Working pressure min./max. 0 bar / 10 bar Ambient temperature min./max. -25°C / +80°C Compressed air Medium

Materials:

Silencers Sintered bronze

Thread Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 1/4	88	900	10	0.01	1827000033
G 3/8	90	1750	5	0.016	1827000034
G 1/2	85	2000	2	0.035	1827000035

Dimensions





Part No.	Port G	L1	L2	SW								
1827000033	G 1/4	8	13.5	17								
1827000034	G 3/8	10	17.5	22								
1827000035	G 1/2	12	19.5	27								
Sound proceure level m	ound proceure level measured at 6 her at 1 m distance											

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31-10-2016