### Rotary distributors GF

# **FESTO**



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Product range overview and type codes

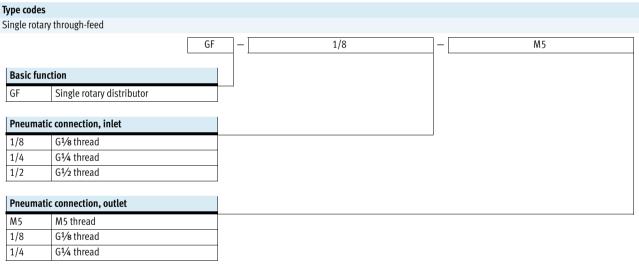
#### General

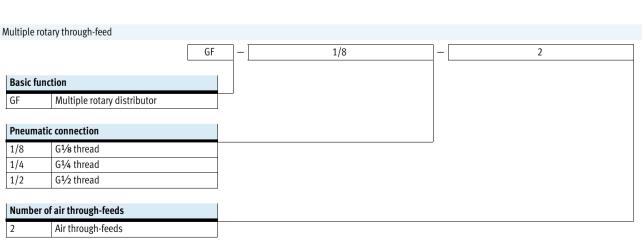
The rotary distributors GF with single or multiple rotary through-feed transmit media from stationary sources to rotating machine parts.

The compact and sturdy design with double bearing makes the rotary distributors a reliable means of protecting your media supply against mechanical loads.
In the case of the rotary distributors
with multiple rotary through-feed, the

medium can be flexibly supplied and returned through the radial and axial inlets and outlets.

Design	Version	Туре	Pneumatic connect	ion	Max. rotational speed	→ Page/
			Inlet	Outlet	[rpm]	Internet
Single rotary	1 inlet, 4 outl	ets				
hrough-		GF	G1/8	M5	3,000	3
eed		G1/4	G1/8			
			G <sup>1</sup> / <sub>2</sub>	G1/4	2,500	
		1	+	+	1	II.
Multiple	2 separate in	lets and out	lets			
otary		GF	G1/8	G1/8	300	5
hrough-			G1/4	G1/4		
feed			G1/2	G <sup>1</sup> / <sub>2</sub>		





### Rotary distributors GF Technical data – Single rotary through-feed

#### **FESTO**

#### Single rotary through-feed

1 inlet, 4 outlets





Pressure -0.95 ... +10 bar



General technical data								
Pneumatic connection 1		G½8	G1/4	G½				
Pneumatic connection 2		M5	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>				
Nominal size	[mm]	4.1	8	15				
Mounting position		Any						
Max. rotational speed	[rpm]	3,000	3,000	2,500				
Max. radial force	[N]	150	150	250				
Max. axial force	[N]	50	50	50				
Nominal tightening torque	[Nm]	1.22 ±20%	1.65 ±20%	4.25 ±20%				

Operating and environmental conditions	Perating and environmental conditions							
Operating pressure for entire [bar]	-0.95 +10							
temperature range								
Operating medium	Compressed air according to ISO 8573-1:2010 [7:-:-]							
Note on operating/pilot medium	Lubricated operation possible							
Ambient temperature [°C]	-10 +80							
Corrosion resistance class CRC <sup>1)</sup>	1							

1) Corrosion resistance class CRC 1 to Festo standard FN 940070 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

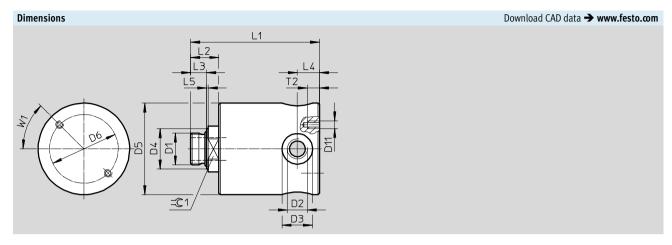
Note

When using speeds above 1,000 rpm, only lubricated compressed air should be used. If no lubricated compressed air is available, the depot lubrication system must be replaced every 300 operating hours.

Materials	
Housing	Brass
Shaft	High-alloy steel

## Rotary distributors GF Technical data – Single rotary through-feed





Туре	Connection		D3 Ø	D4 Ø	D5 Ø	D6 Ø	D11	L1	L2	L3	L4	L5	T2	W1	=©1
	D1	D2			-1										
GF-1/8-M5	G1/8	M5	9	14.5	40	30	M5	64	15.5	6.5	7	1	8	45°	17
GF-1/4-1/8	G1/4	G1/8	16	17	40	30	M5	65.5	17	8	9.5	1.5	8	45°	17
GF-1/2-1/4	G1/2	G1/4	20	26.5	60	45	M5	90	24	10.5	14.5	1.5	8	45°	27

Pneumatic connection		at 6 bar 0 bar	Weight	Part No.	Туре
		1 2.X open			
2	[l/min]	[l/min]	[g]		
M5	490	2,250	400	539290	GF-1/8-M5
G1/8	1,730	4,050	370	539291	GF-1/4-1/8
G <sup>1</sup> / <sub>4</sub> 4,050 14,130		1,190	539292	GF-1/2-1/4	
C	2 M5 G1/8	1 → 2.1  2 [[/min]  M5 490  G½ 1,730	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

### **Rotary distributors GF** Technical data – Multiple rotary through-feed

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#### Multiple rotary through-feed

2 separate inlets and outlets





Pressure -0.95 ... +10 bar



General technical data				
Pneumatic connection 1		G1/8	G1/4	G1/2
Pneumatic connection 2		G½	G1/4	G1/2
Nominal size	[mm]	6	8	15
Mounting position		Any		
Max. rotational speed	[rpm]	300		
Max. radial force	[N]	250	300	400
Max. axial force	[N]	100	100	100
Nominal tightening torque	[Nm]	1.22 ±20%	1.65 ±20%	4.25 ±20%

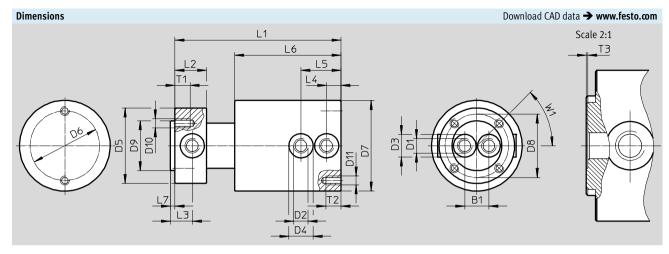
Operating and environmental condition	perating and environmental conditions						
Operating pressure for entire [bar]	-0.95 +10						
temperature range							
Operating medium	Compressed air according to ISO 8573-1:2010 [7:-:-]						
Note on operating/pilot medium	Lubricated operation possible						
Ambient temperature [°C]	-10 +80						
Corrosion resistance class CRC <sup>1)</sup>	1						

<sup>1)</sup> Corrosion resistance class CRC 1 to Festo standard FN 940070 Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive

Materials	
Housing	Brass
Shaft	High-alloy steel

## Rotary distributors GF Technical data – Multiple rotary through-feed





Туре	Connection		B1	D3 Ø	D4 Ø	D5 Ø	D6 Ø	D7 Ø	D8 Ø	D9 Ø	D10	D11
	D1	D2						-1		f7		
GF-1/8-2	G1/8	G1/8	16	15	16	50	46	60	42	33	M6	M6
GF-1/4-2	G1/4	G1/4	20	19	20	65	46	70	50	40	M6	M6
GF-1/2-2	G1/2	G <sup>1</sup> / <sub>2</sub>	30	28	28	90	65	95	78	65	M6	M6

Туре	Connection		L1	L2	L3	L4	L5	L6	L7	T1	T2	T3	W1
	D1	D2										-0.2	
GF-1/8-2	G1/8	G1/8	110	21	14.5	9.5	26.5	70.5	3	10	10	0.5	45°
GF-1/4-2	G1/4	G1/4	128	28	19.5	13.5	34.5	81.5	3	10	10	0.5	45°
GF-1/2-2	G <sup>1</sup> / <sub>2</sub>	G <sup>1</sup> / <sub>2</sub>	171	39	25.5	17.5	49.5	112	3	10	10	0.5	45°

Ordering data	Ordering data										
Pneumatic connection		Standard nominal flow	v rate qnN at 6 bar 5 bar	Weight	Part No.	Туре					
		1.1> 2.1	1.2 2.2								
1	2	[l/min]	[l/min]	[g]							
G <sup>1</sup> / <sub>8</sub>	G1/8	720	1,050	1,770	539287	GF-1/8-2					
G1/4	G1/4	1,250	2,020	2,950	539288	GF-1/4-2					
G <sup>1</sup> / <sub>2</sub>	G <sup>1</sup> / <sub>2</sub>	4,440	7,380	7,380	539289	GF-1/2-2					