## Rotary distributors GF





### **Rotary distributors GF**

#### 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 Ve	Version	Туре	Pneumatic connect	ion	Max. rotational speed	→ Page/
			Inlet	Outlet	[rpm]	Internet
Single rotary	1 inlet, 4 out	lets				
through-		GF	G1⁄8	M5	3,000	3
feed	6		G1⁄4	G1⁄8		
		G1/2	G1⁄4	2,500		
			I	L		
Multiple	2 separate in	lets and out	lets			
rotary	<b>1</b>	GF	G1⁄8	G1/8	300	5
through-			G1⁄4	G1⁄4		
feed		G1⁄2	G1/2			

#### Type codes

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ingle rot	tary through-feed				
		GF —	1/8	-	M5
Basic f	unction				
GF	Single rotary distributor				
Pneum	atic connection, inlet				
1/8	G1⁄8 thread				
1/4	G1⁄4 thread				
1/2	G <sup>1</sup> /2 thread				
Pneum	atic connection, outlet				
M5	M5 thread				
1/8	G1⁄8 thread				

#### Multiple rotary through-feed

1/4

G1⁄4 thread

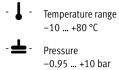
		GF —	1/8	-	2
Basic fu	nction				
GF	Multiple rotary distributor				
Pneuma	tic connection				
1/8	G1⁄8 thread				
1/4	G1⁄4 thread				
1/2	G1⁄2 thread				
Number	of air through-feeds				
2	Air through-feeds				

### FESTO

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

Single rotary through-feed

1 inlet, 4 outlets





### General technical data

General technical data				
Pneumatic connection 1		G1⁄8	G1⁄4	G1⁄2
Pneumatic connection 2		M5	G1⁄8	G1⁄4
Nominal size	[mm]	4.1	8	15
Mounting position		Any		
Max. rotational speed	[rpm]	3000	3000	2500
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%
for the threaded lugs				

#### Note

When using speeds above 1000 rpm,	available, the depot lubrication
only lubricated compressed air	system must be replaced every
should be used.	300 operating hours.
If no lubricated compressed air is	

#### Operating and environmental conditions Operating pressure for entire [bar] -0.95 ... +10 temperature range Compressed air according to ISO 8573-1:2010 [7:-:-] Operating medium Liquids on request Note on operating/pilot medium Lubricated operation possible Ambient temperature -10 ... +80 [°C] 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).

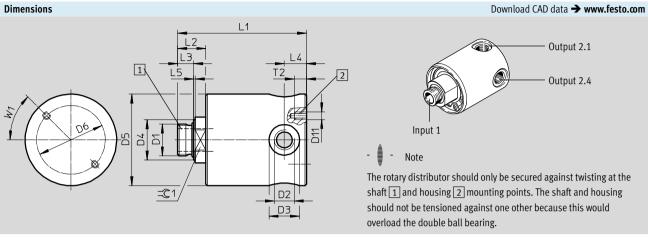
#### -Note Note -Note Technical advice is required for ap-The maximum temperature of +80 °C rotation must be dissipated via the In the event of rapid oscillating plications below 0 °C or when more must not be exceeded. medium; sufficient media flow must movements (changes in direction than one parameter occurs in the The frictional heat resulting from the therefore be ensured. < 2 seconds), the service life will be threshold range. roughly halved. Please contact our Technical Department.

Materials				
Housing	Nickel-plated brass			
Shaft	High-alloy steel			

### **FESTO**

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





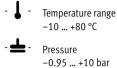
Туре	Connectio	n	D3 Ø	D4 Ø	D5 Ø	D6 Ø	D11	L1	L2	L3	L4	L5	T2	W1	=© 1
	D1	D2	-		-1										
GF-1/8-M5	G1⁄8	M5	9	14.5	40	30	M5	64	15.5	6.5	7	1	8	45°	17
GF-1/4-1/8	G1⁄4	G1⁄8	16	17	40	30	M5	65.5	17	8	9.5	1.5	8	45°	17
GF-1/2-1/4	G1⁄2	G1⁄4	20	26.5	60	45	M5	90	24	10.5	14.5	1.5	8	45°	27

Ordering data						
Pneumatic connection		Standard flow rate qn	Standard flow rate qn at 6 bar 0 bar			Туре
		1	1			
1	2	[l/min]	[l/min]	[g]		
G1⁄8	M5	490	2250	400	539290	GF-1/8-M5
G1⁄4	G1⁄8	1730	4050	370	539291	GF-1/4-1/8
G1⁄2	G1⁄4	4050	14130	1190	539292	GF-1/2-1/4

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

Multiple rotary through-feed

2 separate inlets and outlets





General technical data				
Pneumatic connection 1		G1⁄8	G1⁄4	G1⁄2
Pneumatic connection 2		G1⁄8	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%
for the threaded lugs				

Operating and environmental conditions				
Operating pressure for entire [bar]	-0.95 +10			
temperature range				
Operating medium	Compressed air according to ISO 8573-1:2010 [7:-:-]			
	Liquids on request			
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

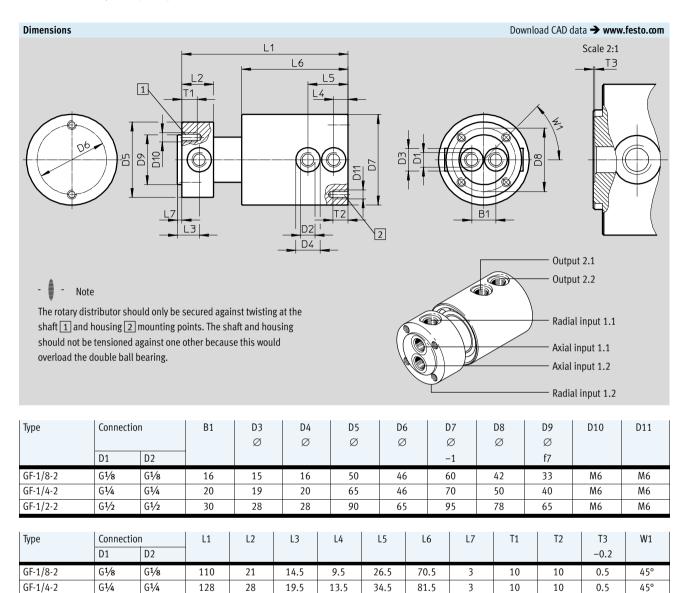
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

- 闄 - Note	- 闄 - Note		- 闄 - Note
Technical advice is required for ap- plications below 0 °C or when more than one parameter occurs in the threshold range. Please contact our Technical Department.	The maximum temperature of +80 °C must not be exceeded. The frictional heat resulting from the	rotation must be dissipated via the medium; sufficient media flow must therefore be ensured.	In the event of rapid oscillating movements (changes in direction < 2 seconds), the service life will be roughly halved.
Materials			

Housing	Nickel-plated brass			
Shaft	High-alloy steel			

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

### **FESTO**



Ordering dat	ta					
Pneumatic connection		Standard nominal flow rate qnN at 6 bar		Weight	Part No.	Туре
		1.1> 2.1	1.2> 2.2			
1	2	[l/min]	[l/min]	[g]		
G1⁄8	G1⁄8	720	1050	1770	539287	GF-1/8-2
G1⁄4	G1⁄4	1250	2020	2950	539288	GF-1/4-2
G1⁄2	G1/2	4440	7380	7380	539289	GF-1/2-2

17.5

49.5

112

3

10

10

0.5

45°

GF-1/2-2

G1⁄2

G1⁄2

171

39

25.5