

Rotary distributors GF

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Rotary distributors GF

Product range overview and type codes

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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.

Product range overview						
Design	Version	Type	Pneumatic connection		Max. rotational speed	➔ Page/ Internet
			Inlet	Outlet	[rpm]	
Single rotary through- feed	1 inlet, 4 outlets					
		GF	G 1/8	M5	3,000	3
			G 1/4	G 1/8		
			G 1/2	G 1/4	2,500	
Multiple rotary through- feed	2 separate inlets and outlets					
		GF	G 1/8	G 1/8	300	5
			G 1/4	G 1/4		
			G 1/2	G 1/2		

Type codes

Single rotary through-feed

GF	–	1/8	–	M5																				
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Multiple rotary through-feed

GF	–	1/8	–	2																
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Technical data – Single rotary through-feed

Single rotary through-feed
1 inlet, 4 outlets

-  - Temperature range
-10 ... +80 °C
-  - Pressure
-0.95 ... +10 bar



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]	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	
Operating pressure for entire temperature range [bar]	-0.95 ... +10
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 ¹⁾	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.	available, the depot lubrication system must be replaced every 300 operating hours.
If no lubricated compressed air is	

Materials	
Housing	Brass
Shaft	High-alloy steel

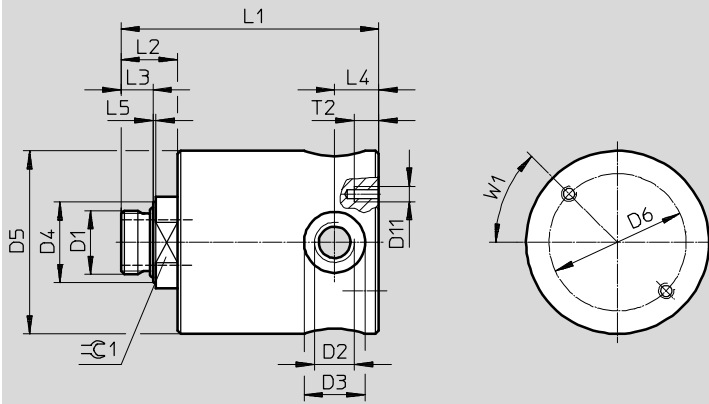
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Technical data – Single rotary through-feed

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Dimensions

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Type	Connection		D3 Ø	D4 Ø	D5 Ø -1	D6 Ø	D11	L1	L2	L3	L4	L5	T2	W1	1
	D1	D2													
GF-1/8-M5	G $\frac{1}{8}$	M5	9	14.5	40	30	M5	64	15.5	6.5	7	1	8	45°	17
GF-1/4-1/8	G $\frac{1}{4}$	G $\frac{1}{8}$	16	17	40	30	M5	65.5	17	8	9.5	1.5	8	45°	17
GF-1/2-1/4	G $\frac{1}{2}$	G $\frac{1}{4}$	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 at 6 bar → 0 bar		Weight [g]	Part No.	Type
		1 → 2.1 [l/min]	1 → 2.X open [l/min]			
1	2					
G $\frac{1}{8}$	M5	490	2,250	400	539290	GF-1/8-M5
G $\frac{1}{4}$	G $\frac{1}{8}$	1,730	4,050	370	539291	GF-1/4-1/8
G $\frac{1}{2}$	G $\frac{1}{4}$	4,050	14,130	1,190	539292	GF-1/2-1/4

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Technical data – Multiple rotary through-feed

Multiple rotary through-feed
2 separate inlets and outlets

-  - Temperature range
-10 ... +80 °C
-  - Pressure
-0.95 ... +10 bar



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%

Operating and environmental conditions	
Operating pressure for entire temperature range [bar]	-0.95 ... +10
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 ¹⁾	1

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Materials	
Housing	Brass
Shaft	High-alloy steel

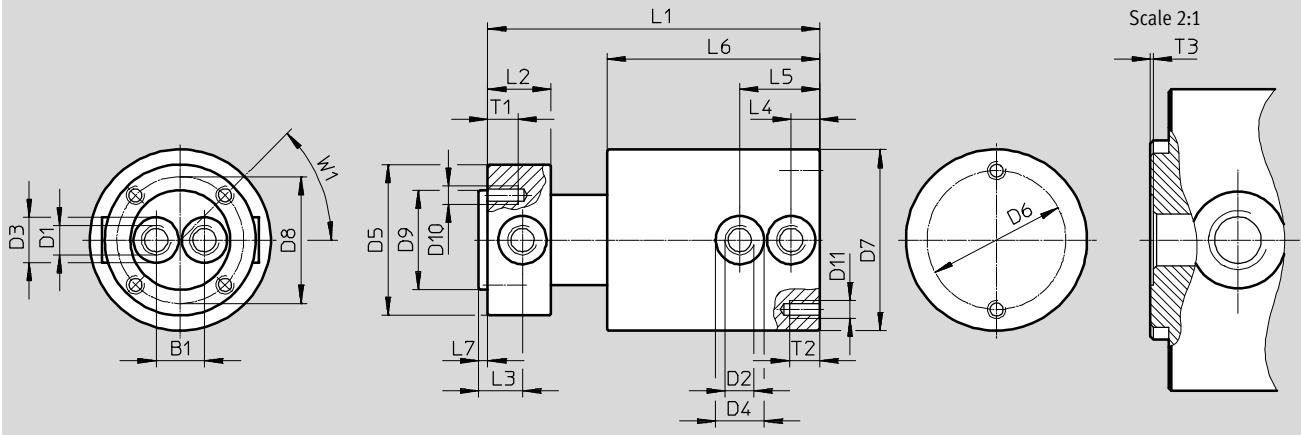
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Technical data – Multiple rotary through-feed

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Dimensions

Download CAD data → www.festo.com



Type	Connection		B1	D3 Ø	D4 Ø	D5 Ø	D6 Ø	D7 Ø	D8 Ø	D9 Ø	D10	D11
	D1	D2										
GF-1/8-2	G $\frac{1}{8}$	G $\frac{1}{8}$	16	15	16	50	46	60	42	33	M6	M6
GF-1/4-2	G $\frac{1}{4}$	G $\frac{1}{4}$	20	19	20	65	46	70	50	40	M6	M6
GF-1/2-2	G $\frac{1}{2}$	G $\frac{1}{2}$	30	28	28	90	65	95	78	65	M6	M6

Type	Connection		L1	L2	L3	L4	L5	L6	L7	T1	T2	T3 -0.2	W1
	D1	D2											
GF-1/8-2	G $\frac{1}{8}$	G $\frac{1}{8}$	110	21	14.5	9.5	26.5	70.5	3	10	10	0.5	45°
GF-1/4-2	G $\frac{1}{4}$	G $\frac{1}{4}$	128	28	19.5	13.5	34.5	81.5	3	10	10	0.5	45°
GF-1/2-2	G $\frac{1}{2}$	G $\frac{1}{2}$	171	39	25.5	17.5	49.5	112	3	10	10	0.5	45°

Ordering data

Pneumatic connection		Standard nominal flow rate qnN at 6 bar → 5 bar		Weight [g]	Part No.	Type
		1.1 → 2.1 [l/min]	1.2 → 2.2 [l/min]			
1	2					
G $\frac{1}{8}$	G $\frac{1}{8}$	720	1,050	1,770	539287	GF-1/8-2
G $\frac{1}{4}$	G $\frac{1}{4}$	1,250	2,020	2,950	539288	GF-1/4-2
G $\frac{1}{2}$	G $\frac{1}{2}$	4,440	7,380	7,380	539289	GF-1/2-2

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