

Rotary distributors GF



# Rotary distributors GF

Product range overview and type codes

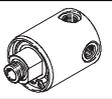
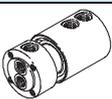
## General

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.

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

## Type codes

Single rotary through-feed

	GF	–	$\frac{1}{8}$	–	M5
<b>Basic function</b>					
GF	Single rotary distributor				
<b>Pneumatic connection, inlet</b>					
$\frac{1}{8}$	G $\frac{1}{8}$ thread				
$\frac{1}{4}$	G $\frac{1}{4}$ thread				
$\frac{1}{2}$	G $\frac{1}{2}$ thread				
<b>Pneumatic connection, outlet</b>					
M5	M5 thread				
$\frac{1}{8}$	G $\frac{1}{8}$ thread				
$\frac{1}{4}$	G $\frac{1}{4}$ thread				

Multiple rotary through-feed

	GF	–	$\frac{1}{8}$	–	2
<b>Basic function</b>					
GF	Multiple rotary distributor				
<b>Pneumatic connection</b>					
$\frac{1}{8}$	G $\frac{1}{8}$ thread				
$\frac{1}{4}$	G $\frac{1}{4}$ thread				
$\frac{1}{2}$	G $\frac{1}{2}$ thread				
<b>Number of air through-feeds</b>					
2	Air through-feeds				

# Rotary distributors GF

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
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
Max. tightening torque [Nm]	10	15	40

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 <sup>1)</sup>	1

1) Corrosion resistance class 1 according to Festo standard 940 070  
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

**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.

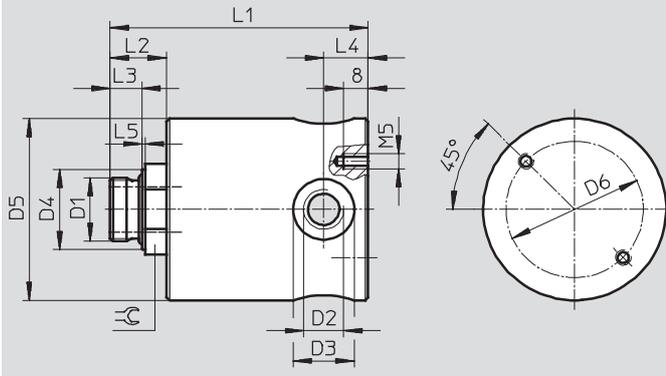
Materials	
Housing	Brass
Shaft	High-alloy steel

# Rotary distributors GF

Technical data – Single rotary through-feed

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Inlet connection D1	Nominal size [mm]	Outlet connection D2	D3 Ø	D4 Ø	D5 Ø -1	D6 Ø	L1	L2	L3	L4	L5	≅
G $\frac{1}{8}$	4.1	M5	9	14.5	40	30	64	15.5	6.5	7	1	17
G $\frac{1}{4}$	8	G $\frac{1}{8}$	16	17	40	30	65.5	17	8	9.5	1.5	17
G $\frac{1}{2}$	15	G $\frac{1}{4}$	20	26.5	60	45	90	24	10.5	14.5	1.5	27

## Ordering data

Pneumatic connection		Standard flow rate q <sub>n</sub> 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

# Rotary distributors GF

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
Mounting position	Any		
Max. rotational speed [rpm]	300		
Max. radial force [N]	250	300	400
Max. axial force [N]	100	100	100
Max. tightening torque [Nm]	10	15	40

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 <sup>1)</sup>	1

1) Corrosion resistance class 1 according to Festo standard 940 070  
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Materials	
Housing	Brass
Shaft	High-alloy steel

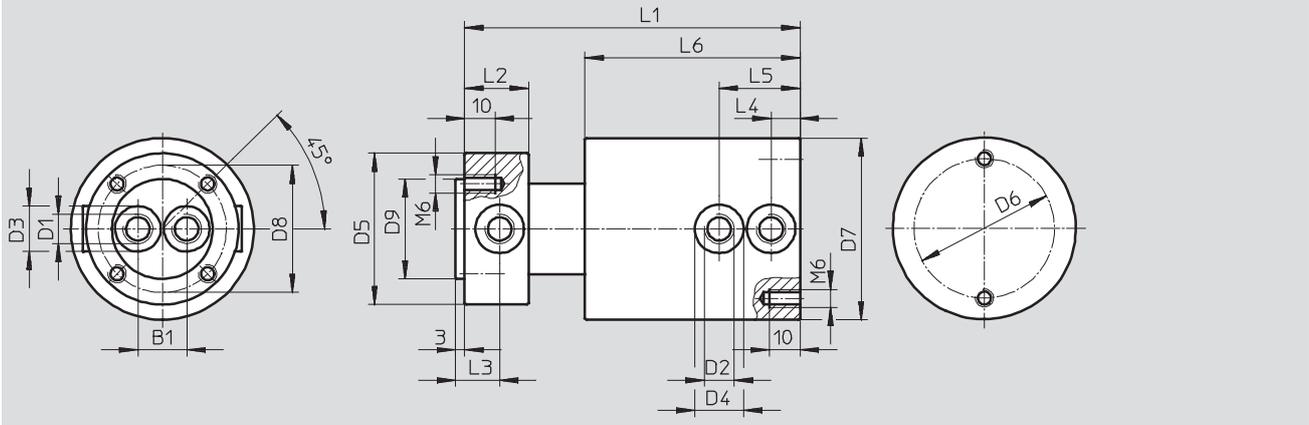
# Rotary distributors GF

Technical data – Multiple rotary through-feed

FESTO

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Inlet connection D1	Nominal size [mm]	Outlet connection D2	B1	D3 ∅	D4 ∅	D5 ∅	D6 ∅	D7 ∅	D8 ∅	D9 ∅	L1	L2	L3	L4	L5	L6
G $\frac{1}{8}$	6	G $\frac{1}{8}$	16	15	16	50	46	60	42	33	113	21	14.5	9.5	26.5	70.5
G $\frac{1}{4}$	8	G $\frac{1}{4}$	20	19	20	65	46	70	50	40	131	28	19.5	13.5	34.5	81.5
G $\frac{1}{2}$	15	G $\frac{1}{2}$	30	28	28	90	65	95	78	65	174	39	25.5	17.5	49.5	112

## Ordering data

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

# Product Range and Company Overview

## A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



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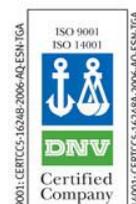
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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

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