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Find the *Festo FRM-D-MINI* at our website: *Click HERE*

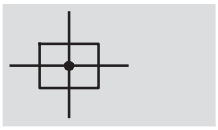
FRM Distributor Blocks – D Series, NPT

Technical Data

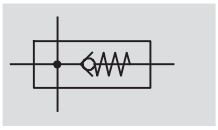
FESTO

Function

Standard



With integrated check valve



Flow rate

1,300 ... 20,000 l/min

Temperature range

–10 ... +60 °C

Operating pressure

0 ... 16 bar



- Provides additional air connections for greater flexibility, i.e. for attachment of additional modules (pressure regulator, pressure switch, etc.)
- An optional integrated check valve prevents return flow of lubricated compressed air
- Can be used as an intermediate distributor for varying air qualities

General technical data								
Size	Mini			Midi			Maxi	
Pneumatic connection 1, 2[1)]	⅛ NPT	¼ NPT	⅜ NPT	⅜ NPT	½ NPT	¾ NPT	¾ NPT	1 NPT
Pneumatic connection 3	G¼			G½			G¾	
Pneumatic connection 4	G¼							
Operating medium	Filtered compressed air							
Design	Branching module							
Type of mounting	Via accessories							
	In-line installation							
Assembly position	Any							
Operating pressure [bar]								
Standard	0 ... 16							
With non-return function	0.15 ... 16			0.2 ... 16			0.25 ... 16	
With pressure switch	0 ... 12							

Note: This product conforms to ISO 1179-1 and ISO 228-1

Standard nominal flow rate[1)] qnN [l/min]							
Port	Without port blocks	With port blocks					
		⅛ NPT	¼ NPT	⅜ NPT	½ NPT	¾ NPT	1 NPT
Mini							
Standard	3,300	1,500	3,300	3,300	–	–	–
With integrated check valve	2,000	1,300	2,000	2,100	–	–	–
With pressure switch	3,300	–					
Midi							
Standard	8,200	–	–	7,000	8,200	8,800	–
With integrated check valve	5,600	–	–	5,500	5,600	5,500	–
With pressure switch	8,200	–					
Maxi							
Standard	20,000	–	–	–	–	20,000	17,400
With integrated check valve	15,000	–	–	–	–	15,000	13,400
With pressure switch	20,000	–					

1) Measured at p1 = 6 bar and Δp = 1 bar.

FRM Distributor Blocks – D Series, NPT

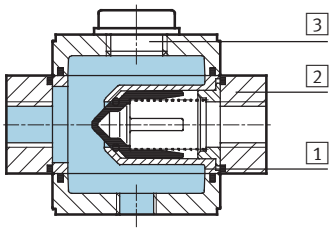
Technical Data

Ambient conditions				
Size		Mini	Midi	Maxi
Ambient temperature	[°C]	–10 ... +60		
Temperature of medium	[°C]	–10 ... +60		
Storage temperature	[°C]	–10 ... +60		
Corrosion resistance class	CRC[2)]	2		

Weights [g]							
Port	Without port blocks	With port blocks					
		⅛ NPT	¼ NPT	⅜ NPT	½ NPT	¾ NPT	1 NPT
Mini							
Without pressure switch	210	290	280	290	–	–	–
With pressure switch	590	–					
Midi							
Without pressure switch	520	–	770	760	740	710	–
With pressure switch	900	–					
Maxi							
Without pressure switch	900	–	–	–	1,160	1,120	1,230
With pressure switch	1,280	–					

Materials

Sectional view



Branching module		
1	Housing	Die-cast zinc
2	Port blocks	Die-cast zinc
3	Cover plate	Galvanized steel
–	Seals	Nitrile rubber, polyvinyl chloride
	Note on materials	Free of copper, PTFE and silicone

2) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

FRM Distributor Blocks – D Series, NPT

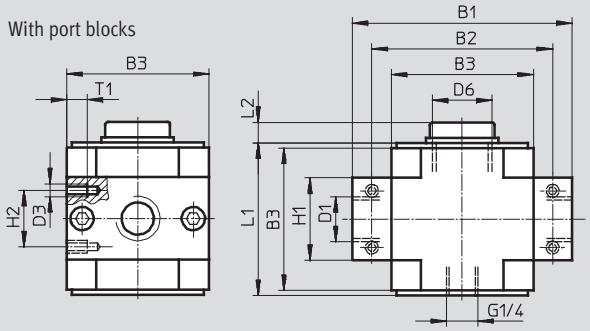
Technical Data – Dimensional Draings

Dimensions

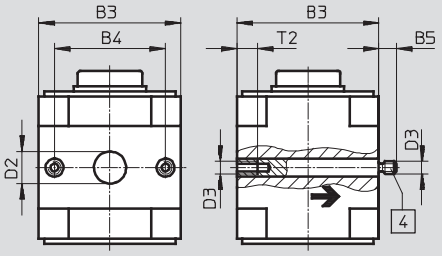
Download CAD Data ➔ **www.festo.com/us/cad**

Mini/Midi/Maxi

With port blocks



Without port blocks



4 Threaded pin (exchangeable)

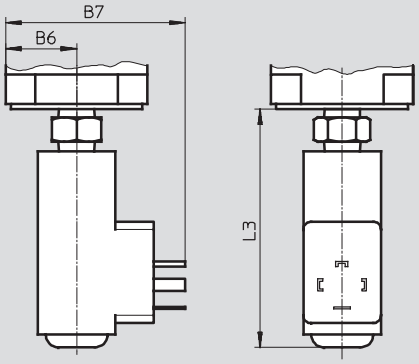
➔ Flow direction

Type	B1	B2	B3	B4	B5	D1	D2 ∅	D3	D6	H1	H2	L1	L2	T1	T2
Mini															
FRM-1/8-D-MINI (NPT)	64	52	40	30	–	1/8 NPT	–	M4	G1/4	20	11	42	7	7	–
FRM-1/4-D-MINI (NPT)						1/4 NPT									
FRM-3/8-D-MINI (NPT)	70					3/8 NPT									
FRM-D-MINI	–	–	40	30	5.8	–	11	M4	G1/4	–	–	42	7	–	10
Midi															
FRM-3/8-D-MIDI (NPT)	85	70	55	43	–	3/8 NPT	–	M5	G1/2	32	22	59	8	8	–
FRM-1/2-D-MIDI (NPT)						1/2 NPT									
FRM-3/4-D-MIDI (NPT)						3/4 NPT									
FRM-D-MIDI	–	–			6.8	–	24			–	–			–	11
Maxi															
FRM-3/4-D-MAXI (NPT)	96	80	66	46	–	3/4 NPT	–	M5	G3/4	32	22	70	8	8	–
FRM-1-D-MAXI (NPT)	116	91				1 NPT				40					
FRM-D-MAXI	–	–			6.8	–	30			–	–			–	11

Note: This product conforms to ISO 1179-1 and ISO 228-1

Dimensions – Pressure Switch PEV

Mini/Midi/Maxi



Pressure switch PEV-1/4-B-0D with adjustable pressure switching point, plug, square design to DIN EN 175 301, type A

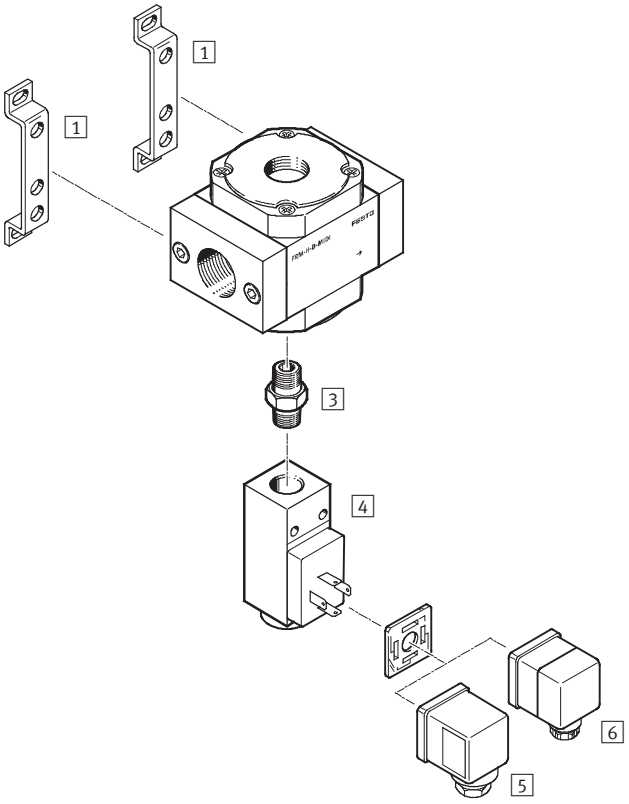
Type	B6	B7	L3
FRM-Y-D-MINI	20	62	92.3
FRM-Y-D-MIDI	27.5	69.5	92.3
FRM-Y-D-MAXI	33	75	92.3

FRM Distributor Blocks – D Series, NPT

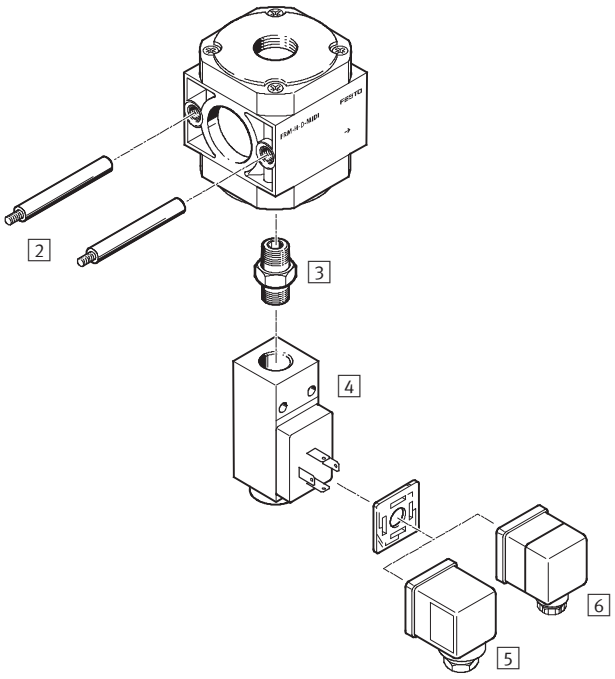
Accesories Overview

Mini/Midi/Maxi

Individual unit with port blocks



Individual unit without port blocks, for combination unit



Mounting attachments and accessories

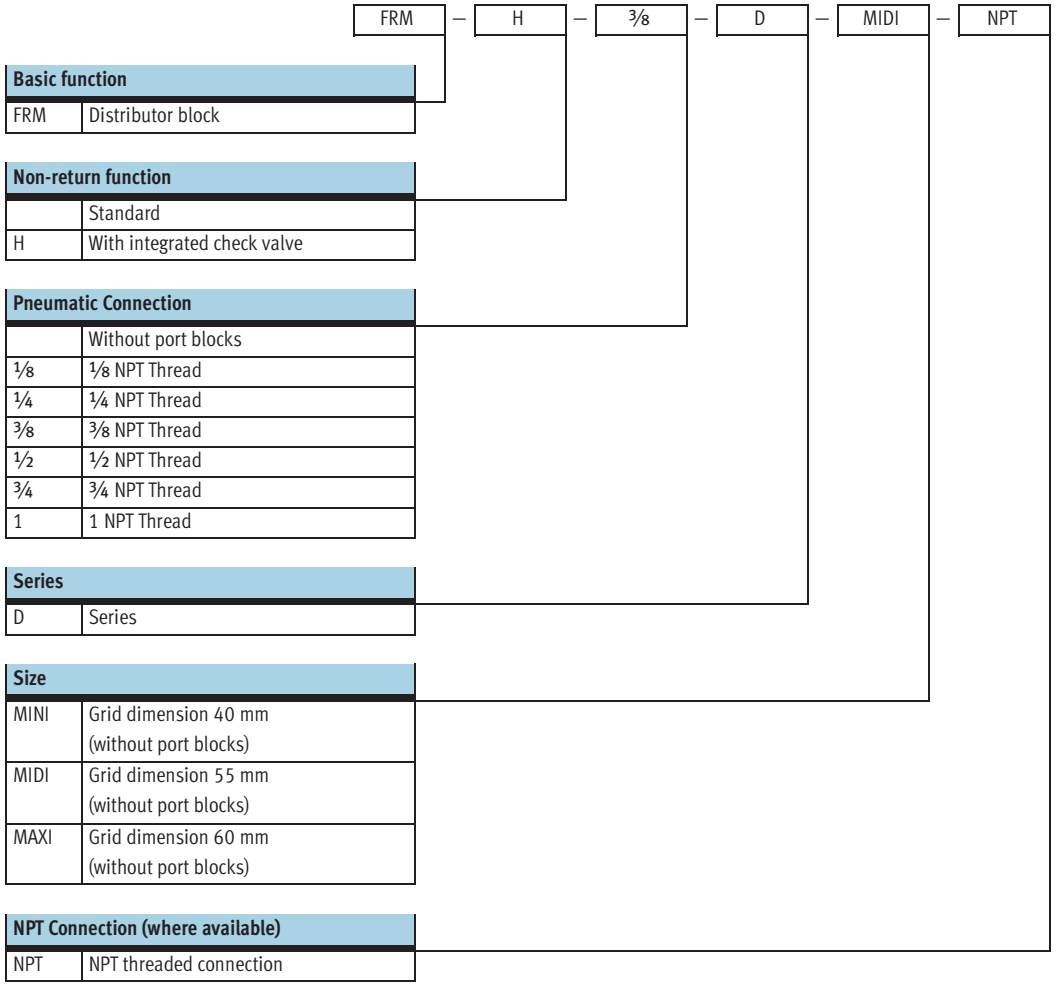
	Individual unit		Combination		➔ Page/Internet
	with port blocks	without port blocks	with port blocks	without port blocks	
1 Mounting bracket HFOE	■	–	■	–	hfoe
2 Threaded pin (included in scope of delivery) FRB	–	–	■	■	frb
3 Double nipple ESK	■	■	■	■	esk
4 Pressure switch PEV	■	■	■	■	pev
5 Plug socket MSSD-C	■	■	■	■	mssd
6 Angled plug socket PEV-...-WD-LED	■	■	■	■	pev

Note

For Custom Combinations ➔ FAST Program Selector Guide starting page 7

FRM Distributor Block – D Series, NPT

Type Codes



Basic function	
FRM	Distributor block

Non-return function	
	Standard
H	With integrated check valve

Pneumatic Connection	
	Without port blocks
1/8	1/8 NPT Thread
1/4	1/4 NPT Thread
3/8	3/8 NPT Thread
1/2	1/2 NPT Thread
3/4	3/4 NPT Thread
1	1 NPT Thread

Series	
D	Series

Size	
MINI	Grid dimension 40 mm (without port blocks)
MIDI	Grid dimension 55 mm (without port blocks)
MAXI	Grid dimension 60 mm (without port blocks)

NPT Connection (where available)	
NPT	NPT threaded connection

FRM Distribution Blocks – D Series, NPT

Ordering Data

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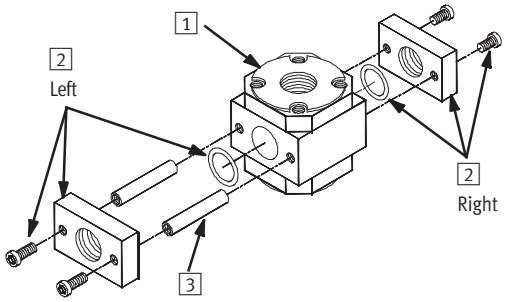
Ordering data – Without port blocks								
Size	Standard			With integrated non-return function			With pressure switch PEV-¼-B-0D	
	Part No.	Type		Part No.	Type		Part No.	Type
Mini	**170684**	**FRM-D-MINI**		**170687**	**FRM-H-D-MINI**		**542184**	**FRM-Y-D-MINI**
Midi	**170685**	**FRM-D-MIDI**		**170688**	**FRM-H-D-MIDI**		**542185**	**FRM-Y-D-MIDI**
Maxi	**170686**	**FRM-D-MAXI**		**170689**	**FRM-H-D-MAXI**		**542186**	**FRM-Y-D-MAXI**

Ordering data – With port blocks							
Size	Connection	Standard			With integrated non-return function		
		Part No.	Type		Part No.	Type	
Mini	⅛ NPT	**173924**	**FRM-⅛-D-MINI-NPT**		**173932**	**FRM-H-⅛-D-MINI-NPT**	
	¼ NPT	**173925**	**FRM-¼-D-MINI-NPT**		**173933**	**FRM-H-¼-D-MINI-NPT**	
	⅜ NPT	**173926**	**FRM-⅜-D-MINI-NPT**		**173934**	**FRM-H-⅜-D-MINI-NPT**	
Midi	⅜ NPT	**173927**	**FRM-⅜-D-MIDI-NPT**		**173935**	**FRM-H-⅜-D-MIDI-NPT**	
	½ NPT	**173928**	**FRM-½-D-MIDI-NPT**		**173936**	**FRM-H-½-D-MIDI-NPT**	
	¾ NPT	**173929**	**FRM-¾-D-MIDI-NPT**		**173937**	**FRM-H-¾-D-MIDI-NPT**	
Maxi	¾ NPT	**173930**	**FRM-¾-D-MAXI-NPT**		**173938**	**FRM-H-¾-D-MAXI-NPT**	
	1 NPT	**173931**	**FRM-1-D-MAXI-NPT**		**173939**	**FRM-H-1-D-MAXI-NPT**	

FAST* Program – FRM Distributor Block Selector Guide

FRM Distributor Blocks – D Series, NPT

*FAST = Festo Assured Shipping Time. Ordering via the FAST program means same day / next day shipping from our warehouse of the parts required to assemble a complete air preparation unit.



A complete distributor assembly consists of the following items:

Item	Description	Qty Required per Assy
1	Main Unit	1
2	Port Block Kit	2 (one left, one right)
3	Single Unit Joining Rod	2
4	Mounting Bracket Kit (Not shown) (Optional)	1

Step 1: Based upon the required Port Size, Maximum Flow, and Thread Type, select the Main Unit (Item 1) and the Left and Right Port Block (Item 2).

				Item 1	2			
Port Size	Max. Flow (l/min/scfm)	Check Valve	Product Type / Description	Main Unit	NPT Thread		BSP Thread	
					Left Port Block Kit	Right Port Block Kit	Left Port Block Kit	Right Port Block Kit
1/8	1500/52.9	No	FRM-...-D-MINI-...	170684	546520	546521	546495	546496
	1300/45.9	Yes	FRM-H-...-D-MINI-...	170687				
1/4	3300/116.5	No	FRM-...-D-MINI-...	170684	546522	546523	546497	546498
	2000/70.6	Yes	FRM-H-...-D-MINI-...	170687				
	3500/123.6	No	FRM-...-D-MIDI-...	170685	546536	546537	546532	546489
	3400/120.1	Yes	FRM-H-...-D-MIDI-...	170688				
3/8	3300/116.5	No	FRM-...-D-MINI-...	170684	546524	546525	546499	546500
	2100/74.2	Yes	FRM-H-...-D-MINI-...	172687				
	7000/247.2	No	FRM-...-D-MIDI-...	170685	546530	546531	546501	546502
	5500/194.2	Yes	FRM-H-...-D-MIDI-...	170688				
1/2	8200/289.6	No	FRM-...-D-MIDI-...	170685	546526	546527	546503	546504
	5600/197.8	Yes	FRM-H-...-D-MIDI-...	170688				
	11700/413.2	No	FRM-...-D-MAXI-...	170686	546538	546539	546534	546535
	9600/339.0	Yes	FRM_H-...-D-MAXI-...	170689				
3/4	8800/310.8	No	FRM-...-D-MIDI-...	170685	546528	546529	546505	546506
	5500/194.2	Yes	FRM_H-...-D-MIDI-...	170688				
	20000/706.3	No	FRM-...-D-MAXI-...	170686	546490	546492	546507	546508
	15000/529.7	Yes	FRM-H-...-D-MAXI-...	170689				
1	17400/614.5	No	FRM-...-D-MAXI-...	170686	546491	546493	546509	546510
	13400/473.2	Yes	FRM-H-...-D-MAXI-...	170689				

FAST Program – FRM Distributor Block Selector Guide

FRM Distributor Blocks – D Series, NPT

Step 2: Based upon the Product Type/Description from Step 1, select the Joining Rods (Item 3) and the Mounting Bracket Kit (Item 4).

	Item 3	4 [Not shown]
Product Type/ Description	Single Unit Joining Rod	Mounting Bracket Kit (Optional)
FRM-...-D-MINI-...	359787	159638
FRM-H-...-D-MINI-...		
FRM-...-D-MIDI-...	369989	159593
FRM-H-...-D-MIDI-...		
FRM-...-D-MAXI-...	373059	
FRM-H-...-D-MAXI-...		

Step3: Determine the appropriate quantity of each Item.

Ordering Example:

Required: ⅜ port size, 5000 l/min flow, non-return flow check valve, BSP threads, and mounting bracket kit.

	Item	Part No.	Qty	Description
Order:	1	170688	1	Main Unit
	2	380297	1	Left Port Block Kit
		380299	1	Right Port Block Kit
	3	369989	2	Single Unit Joining Rod
	4	159593	1	Mounting Bracket Kit

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