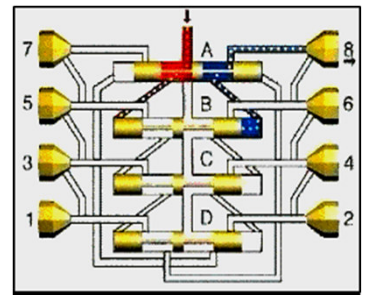


# Progressive Distributors

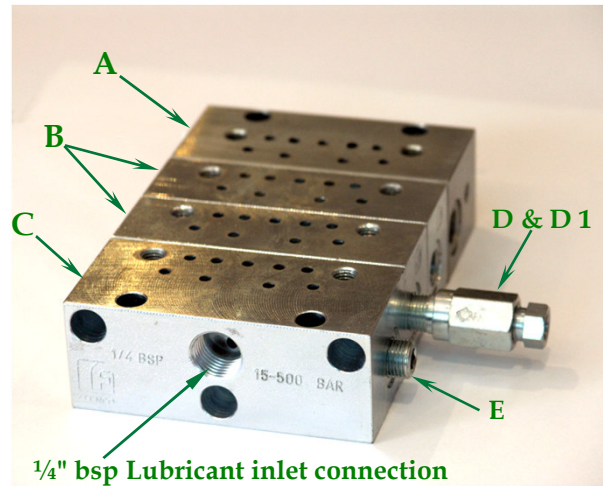


## PMF Complete Base Assembly

No. of Base Elements	BSP Threads	NPTF Threads	Metric Threads
3	6072203	6072223	6072243
4	6072204	6072224	6072244
5	6072205	6072225	6072245
6	6072206	6072226	6072246
7	6072207	6072227	6072247
8	6072208	6072228	6072248
9	6072209	6072229	6072249
10	6072210	6072230	6072250
11	6072211	6072231	6072251
12	6072212	6072232	6072252
13	6072213	6072233	6072253
14	6072214	6072234	6072254
15	6072215	6072235	6072255
16	6072216	6072236	6072256
17	6072217	6072237	6072257
18	6072218	6072238	6072258
19	6072219	6072239	6072259
20	6072220	6072240	6072260

## PMF Base Assembly Components

Fig	Description	Fitting	Bushing	Cone
A	Closing Base	6072019		
B	Intermediate Base	6072018		
C	Inlet Base	6072017		
D	1/8" bsp non-return outlet connector for 6 mm Ø tube	8062006	8249027	8125004
D 1	1/8" bsp non-return outlet connector for 8 mm Ø tube	8062008	8249028	8125005
E	1/8" bsp closing plug	8186007		



1/4" bsp Lubricant inlet connection

## PMF Metering Elements 1 or 2 outlets

Output cm <sup>3</sup>	Marked	Part Number
0.04	PMF 04	6072101
0.08	PMF 08	6072102
0.16	PMF 16	6072103
0.25	PMF 25	6072104
0.35	PMF 35	6072105
0.40	PMF 40	6072106
0.50	PMF 50	6072107
0.60	PMF 60	6072108
0.65	PMF 65	6072109

## PMF Elements with Indicator Pin 1 or 2 outlets

Output cm <sup>3</sup>	Marked	Part Number
0.04	PMF 04	6072151
0.08	PMF 08	6072152
0.16	PMF 16	6072153
0.25	PMF 25	6072154
0.35	PMF 35	6072155
0.40	PMF 40	6072156
0.50	PMF 50	6072157
0.60	PMF 60	6072158
0.65	PMF 65	6072159

## Over Pressure Indicators

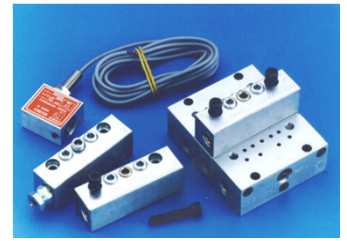
Thread	Pressure		Part No	Part No
 1/8" BSP	MPa	PSI	Standard	Memory
	2	290	7044005	-
	3	435	7044006	7043005
	5	725	7044007	7043006
	7.5	1,087.5	-	7043007
 1/8" BSP	10	1,450	7044008	7043008
	15	2,175	7044009	7043009
	20	2,900	7044010	7043010
	25	3,625	7044011	7043011



Pressure indicators are used to check the pressure in the main or secondary lines. In pin and spring type pressure indicators, the pressure acts on a ground and lapped piston which moves the pin. The pin exits the body when the calibrated pressure is reached. It retracts when the pressure drops below this value.

The memory version remains in the fault position until reset.

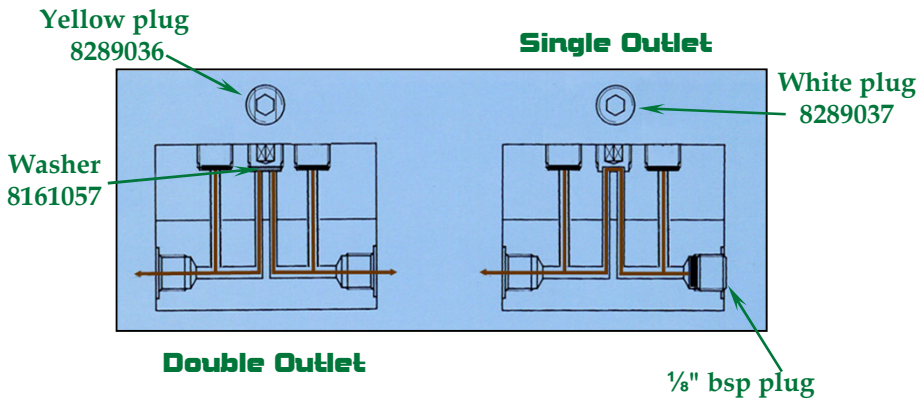
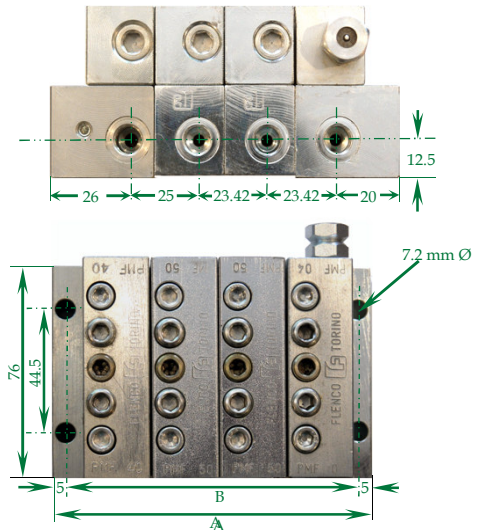
# Progressive Distributors



## PMF Assembly OVERALL DIMENSION

Nominal Dimensions (mm), Tolerance For Each Element + 0 - 0.5

No of Metering Elements	A	B	No of Metering Elements	A	B
3	93.02	83.02	12	303.80	293.80
4	116.44	106.44	13	327.22	317.22
5	139.86	129.86	14	350.64	340.64
6	163.28	153.28	15	374.06	364.06
7	186.70	176.70	16	397.48	387.48
8	210.12	200.12	17	420.90	410.90
9	233.54	223.54	18	444.32	434.32
10	256.96	246.96	19	467.74	457.74
11	280.38	270.38	20	491.16	481.16



To convert from double outlet to single outlet, remove the centre yellow plug part number 8289036 and washer part number 8161057, replace with white plug 8289037, either outlet can be plugged.

**FAILURE TO CARRY OUT THIS FUNCTION CORRECTLY WILL CAUSE THE VALVE ASSEMBLY TO MALFUNCTION**

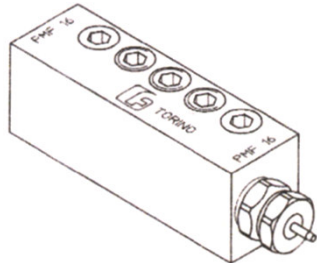
Internal Bridging Elements to the Left, Left or Right, or Right						
Output cm <sup>3</sup>	Marked	Part. Number	Marked	Part Number	Marked	Part Number
0.04	PMF 04L	6072111	PMF 04LR	6072121	PMF 04R	6072131
0.08	PMF 08L	6072112	PMF 08LR	6072122	PMF 08R	6072132
0.16	PMF 16L	6072113	PMF 16LR	6072123	PMF 16R	6072133
0.25	PMF 25L	6072114	PMF 25LR	6072124	PMF 25R	6072134
0.35	PMF 35L	6072115	PMF 35LR	6072125	PMF 35R	6072135
0.40	PMF 40L	6072116	PMF 40LR	6072126	PMF 40R	6072136
0.50	PMF 50L	6072117	PMF 50LR	6072127	PMF 50R	6072137
0.60	PMF 60L	6072118	PMF 60LR	6072128	PMF 60R	6072138
0.65	PMF 65L	6072119	PMF 65LR	6072129	PMF 65R	6072139





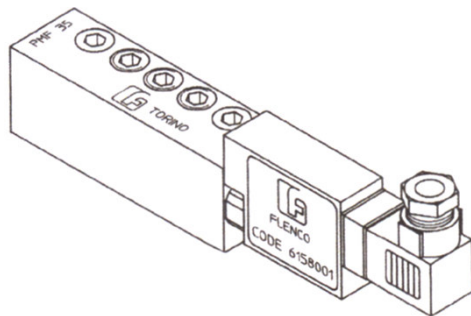
# PMF & PMFO

## Reed Switch Options



**PMFO Element with Indicator Pin**

Output cm <sup>3</sup>	Marked	Part No. PMFO
0.04	PMF 04	6072514
0.08	PMF 08	6072515
0.16	PMF16	6072516
0.25	PMF 25	6072514



**Complete Element with Normally Open Reed Switch**

Output cm <sup>3</sup>	Part No. PMF	Part No. PMFO
0.04	6072141	6072524
0.08	6072142	6072525
0.16	6072143	6072526
0.25	6072144	6072524
0.35	6072145	
0.40	6072146	
0.50	6072147	
0.60	6072148	
0.65	6072149	

A permanent magnet on the piston operates a normally open reed switch. If the switch is connected to an electronic circuit, it can count up to 500 cycles a minute. The reed switch is placed in an hermetic box and is easily replaced

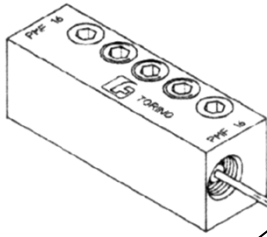
### Technical Characteristics

Reed Switch Part Number 6158001	Switch State	Switch International Conformity	
	Normally Open	FORM A - ASA -	1 DIN
Main electrical feature	Electrical, mechanical and thermal values		
Max. voltage	220V ac		
Max. current	3 A		
Max. direct power	50V		
Max. alternate	50 VA		
Switching time	Connection 0-C*=3ms	Disconnection C- O*=0.07ms	
Max. frequency	320 Hz		
Max. switch lifeΨ	500 million cycles		
Switch working temperatureΨ	-55°C up to +150 ° C		
* = Closed      Ψ = Normal load conditions			



# PMF & PMFO

## Micro Switch Options



### MICRO-SWITCH

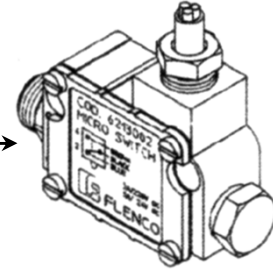
PMF 04 to PMF 25:- 6213001  
PMF 35 to PMF 65:- 6213002

### SEAL

PMF 04 to PMF 25:- 8161004  
PMF 35 to PMF 65:- 8161065

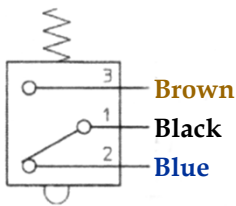
### CONNECTOR

PMF 04 to PMF 25:- 8249075  
PMF 35 to PMF 65:- 8249061



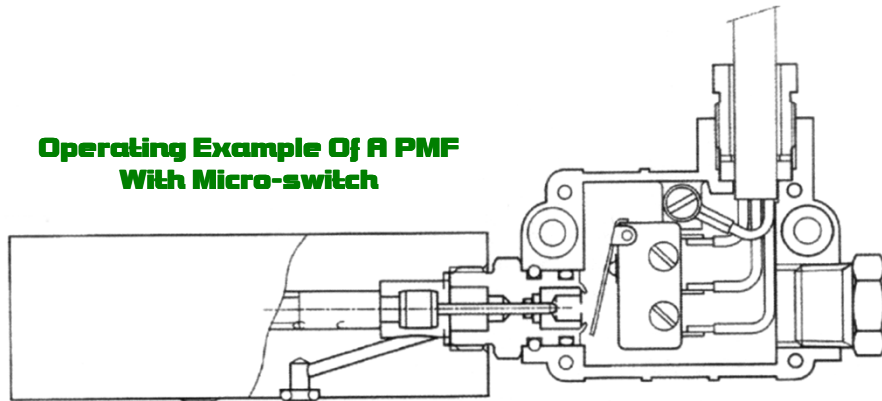
### TECHNICAL CHARACTERISTICS

Electrical supply	250 V 5A ac 24V 5A dc
Cable length	1 metre
Protection degree (case)	IP55
Operating temperature range	-20 to + 85°C
Maximum manoeuvre	0.5N
Mechanical life span approx.	10 <sup>8</sup> cycles



Connection Diagram

### Operating Example Of A PMF With Micro-switch

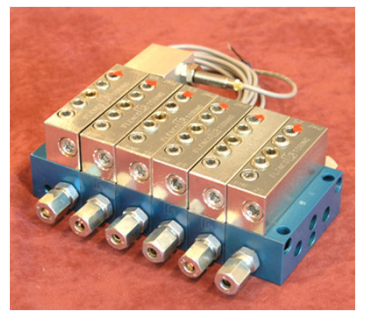


### Micro-switched Distributor Part Numbers

Output cm <sup>3</sup>	PMF	PMFO	PMF
	Micro-Switched	Micro-Switched	Micro-Switched with Connector
0.04	6072161	6072534	6072701
0.08	6072162	6072535	6072702
0.16	6072163	6072536	6072703
0.25	6072164	6072537	6072704
0.35	6072165		6072705
0.40	6072166		6072706
0.50	6072167		6072707
0.60	6072168		6072708
0.65	6072169		6072709



# PMF AIR/OIL SYSTEM



## PMF AIR-OIL PROGRESSIVE MODULAR LUBRICATING SYSTEMS

### (BLUE COLOUR ALUMINIUM BASE)

The basic design of this system is similar to the PMF progressive, but with the inclusion of airways to enable the mixing of oil and air in the base unit, it utilises the full range of PMF metering elements. This system is highly suited to high speed spindle and bearing lubrication, and spray lubrication of chains and gears.

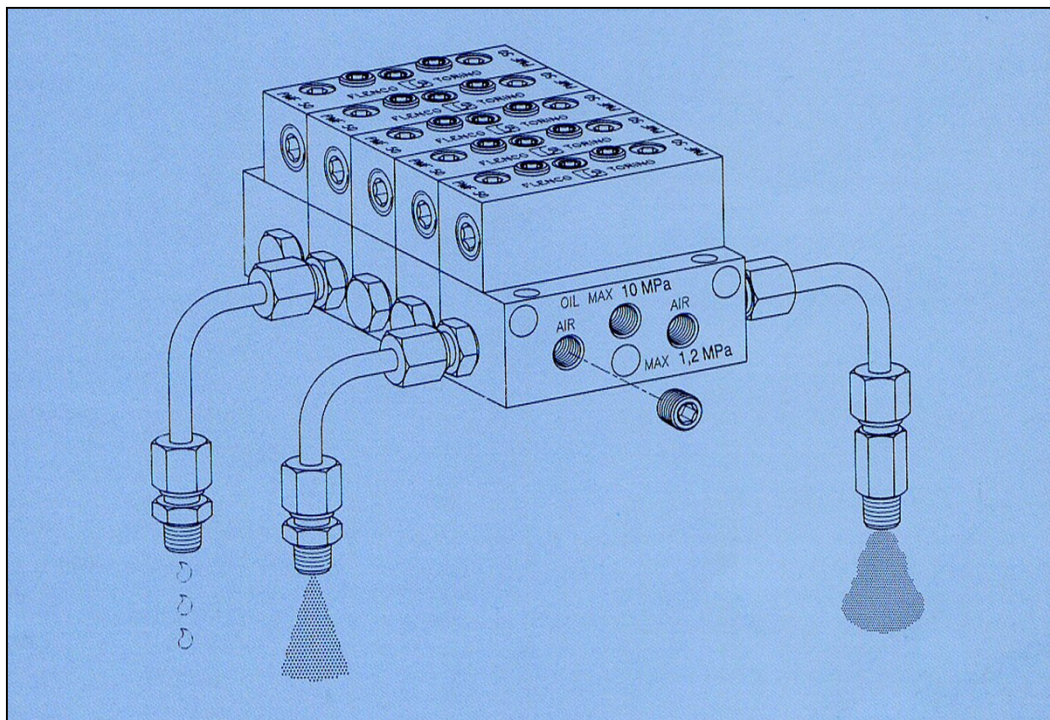
The overall dimensions and outputs are identical to the PMF distributors. The air oil system is identified by the blue aluminium base.

### OPERATING PRINCIPLE

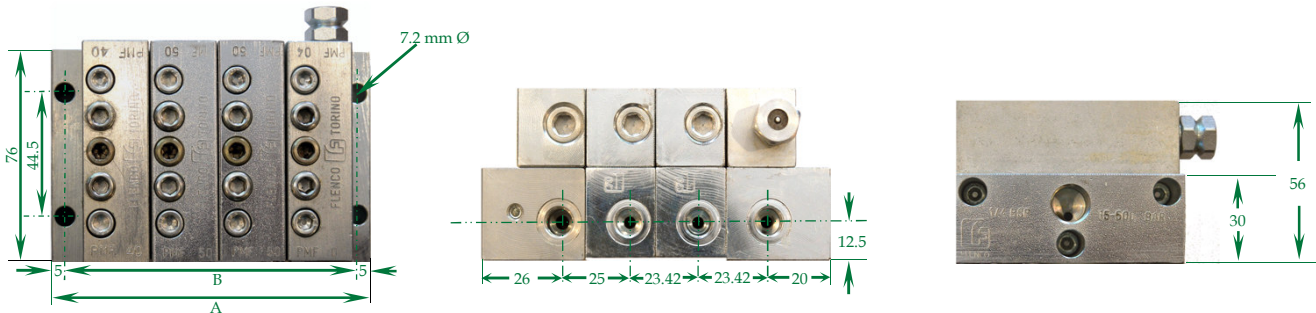
The lubricant (oil) is delivered from the metering block in the appropriate outlet. The outlet may have a special mixing connection. Compressed air flows continuously through the base of the progressive block to the point of delivery (maximum air pressure 1.2 MPa - 174 psi). The air breaks the delivered oil into tiny particles and migrates it to the exit point. By regulating the air pressure and flow of air, fog can be avoided.

This air-oil system offers great savings in the consumption of lubricant, since the interval time can be increased due to the cooling effect of the air and the efficient delivery of the lubricant.

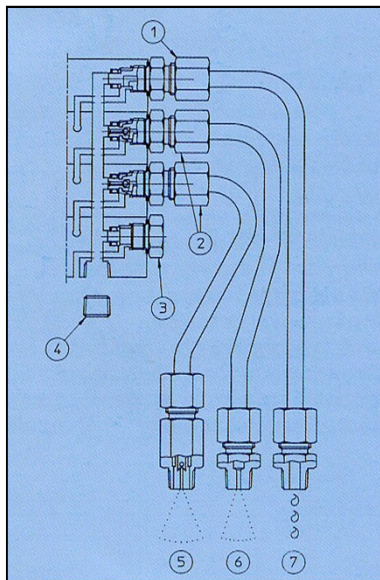
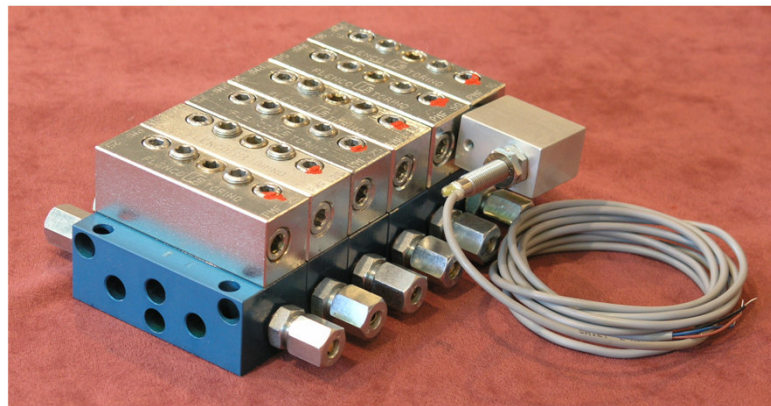
Should the use of the air-oil lubricant be limited to only a few points, one of the two air flow passages can be blocked using a plug. In this manner the output of the normal lubrication will be obtained on one side and the output of the air-oil lubrication will be obtained on the opposite side.



# PMF AIR/OIL SYSTEM



No of Metering Elements	Base Part Number	Dimensions		Choice of Single Elements	
		A	B		
3	6072303	93.02	83.02		
4	6072304	116.44	106.44	Initial Base Part No.	6072021
5	6072305	139.86	129.86	Intermediate Base Part No	6072022
6	6072306	163.28	153.28	Final Base Part No	6072023



Choice of Mixing Terminals		
Position Number	Description	Part Number
1	Exit Connection Oil Only	6100002
2	Exit Connection for Oil and Air Mixture	6100001
3	Exit Closing Plug	6289001
4	Air Entry Closing Plug	8186007
5	Fine Mixing (atomiser)	6093002
6	Heavy Mixing (spray)	6093003
7	Oil Drip Only	6093001



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