

## GAS P/M SERIES

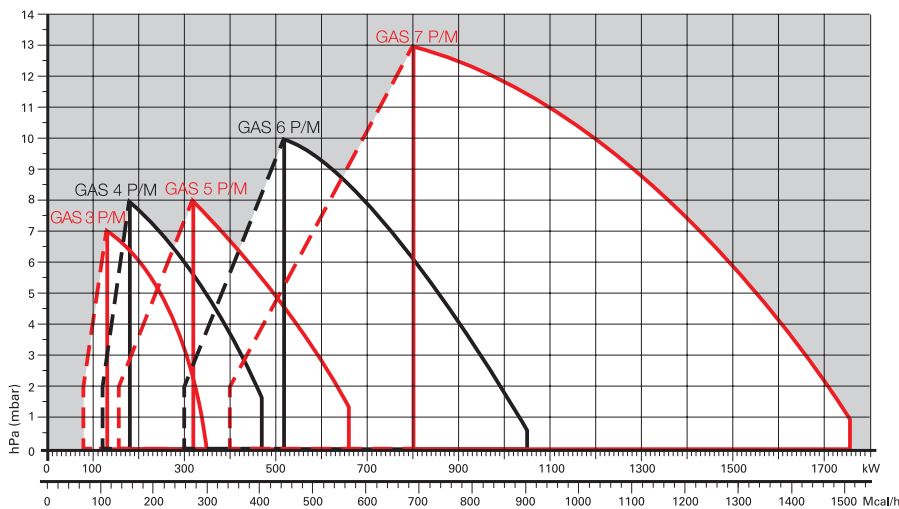
The GAS P/M series covers a firing range from 130 to 4885 kW. Operation is featured by progressive two stage operation or full modulation, with an advanced modulating control system and probes. The burners of GAS P/M series are well suited for applications requiring versatility of control (process, steam, refrigerating absorption) where a variable output is needed.

Due to their metal sheet structures, they are specifically suitable for process applications where plastic materials could be easily damaged or deformed. Simplified maintenance is achieved by sliding bars which permit the access to the combustion head without need of removing the burner from the boiler.



GAS 3 P/M	80/130 ÷	350 kW
GAS 4 P/M	120/180 ÷	470 kW
GAS 5 P/M	155/320 ÷	660 kW
GAS 6 P/M	300/520 ÷	1050 kW
GAS 7 P/M	400/800 ÷	1760 kW
GAS 8 P/M	640/1163 ÷	2210 kW
GAS 9 P/M	870/1744 ÷	3488 kW
GAS 10 P/M	1140/2441 ÷	4885 kW

### FIRING RATES

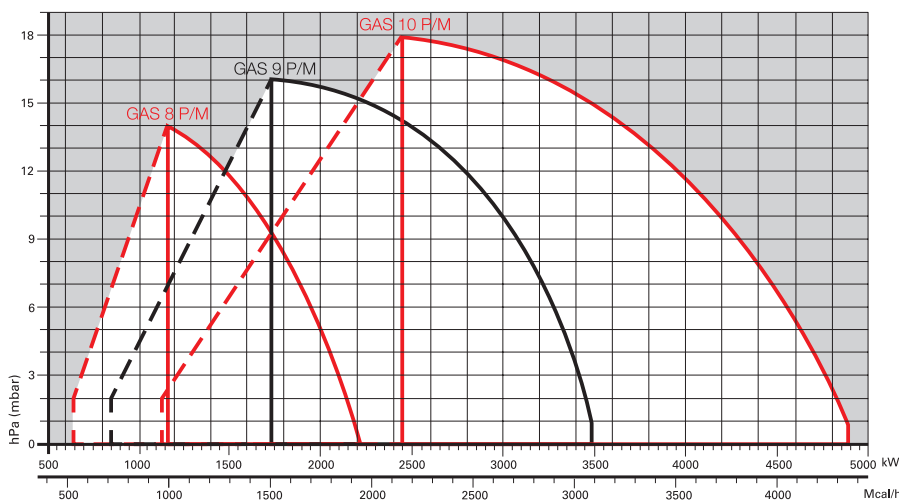


Useful working field for choosing the burner



Modulation range

Test conditions conforming to EN676  
 Temperature: 20°C  
 Pressure: 1013,5 mbar  
 Altitude: 0 m a.s.l.



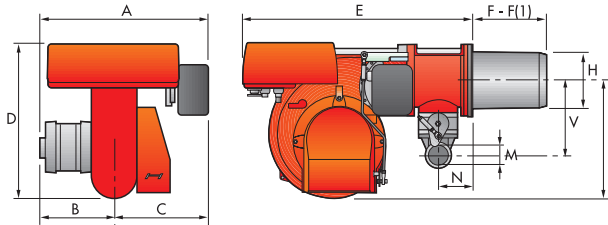
# Modulating Gas Burners

## GAS P/M SERIES

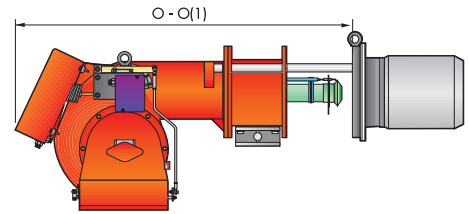
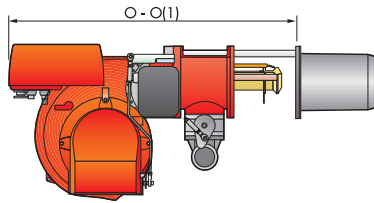
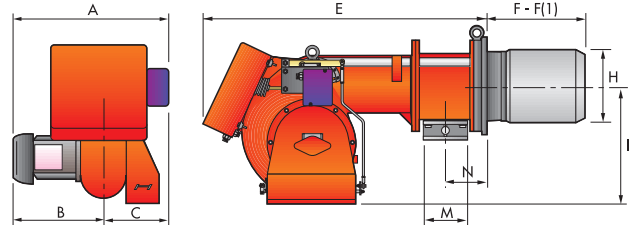
### Overall dimensions (mm)

#### BURNER

GAS 3 - 4 - 5 - 6 - 7 P/M



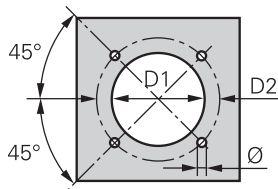
GAS 8 - 9 - 10 P/M



MODEL	A	B	C	D	E	F - F(1)	H	I	M	N	O - O(1)	V
▶ GAS 3 P/M	585	205	380	397	610	185 - 320	140	292	1 1/2"	97	775	225
▶ GAS 4 P/M	585	205	380	397	610	187 - 320	150	292	1 1/2"	97	775	225
▶ GAS 5 P/M	581	226	355	437	645	207 - 365	155	332	1 1/2"	97	810	225
▶ GAS 6 P/M	628	258	370	485	770	227 - 360	175	370	2"	131	966	250
▶ GAS 7 P/M	758	358	400	590	920	240 - 400	220	445	2"	140	1142	305
▶ GAS 8 P/M	755	396	359	-	1090	391 - 501	260	467	DN 80	158	1541 - 1644	-
▶ GAS 9 P/M	817	447	370	-	1200	444 - 574	295	496	DN 80	168	1627 - 1757	-
▶ GAS 10 P/M	917	508	409	-	1320	476 - 606	336	525	DN 80	203	1730 - 1860	-

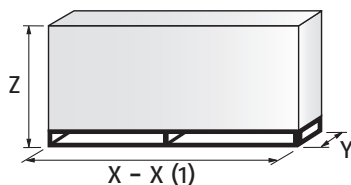
(1) Length with extended combustion head

#### BURNER - BOILER MOUNTING FLANGE



MODEL	D1	D2	Ø
▶ GAS 3 P/M	155	226	M10
▶ GAS 4 P/M	165	226	M10
▶ GAS 5 P/M	165	226	M10
▶ GAS 6 P/M	185	276	M12
▶ GAS 7 P/M	230	325	M12
▶ GAS 8 P/M	265	368	M16
▶ GAS 9 P/M	300	368	M18
▶ GAS 10 P/M	350	438	M20

#### PACKAGING



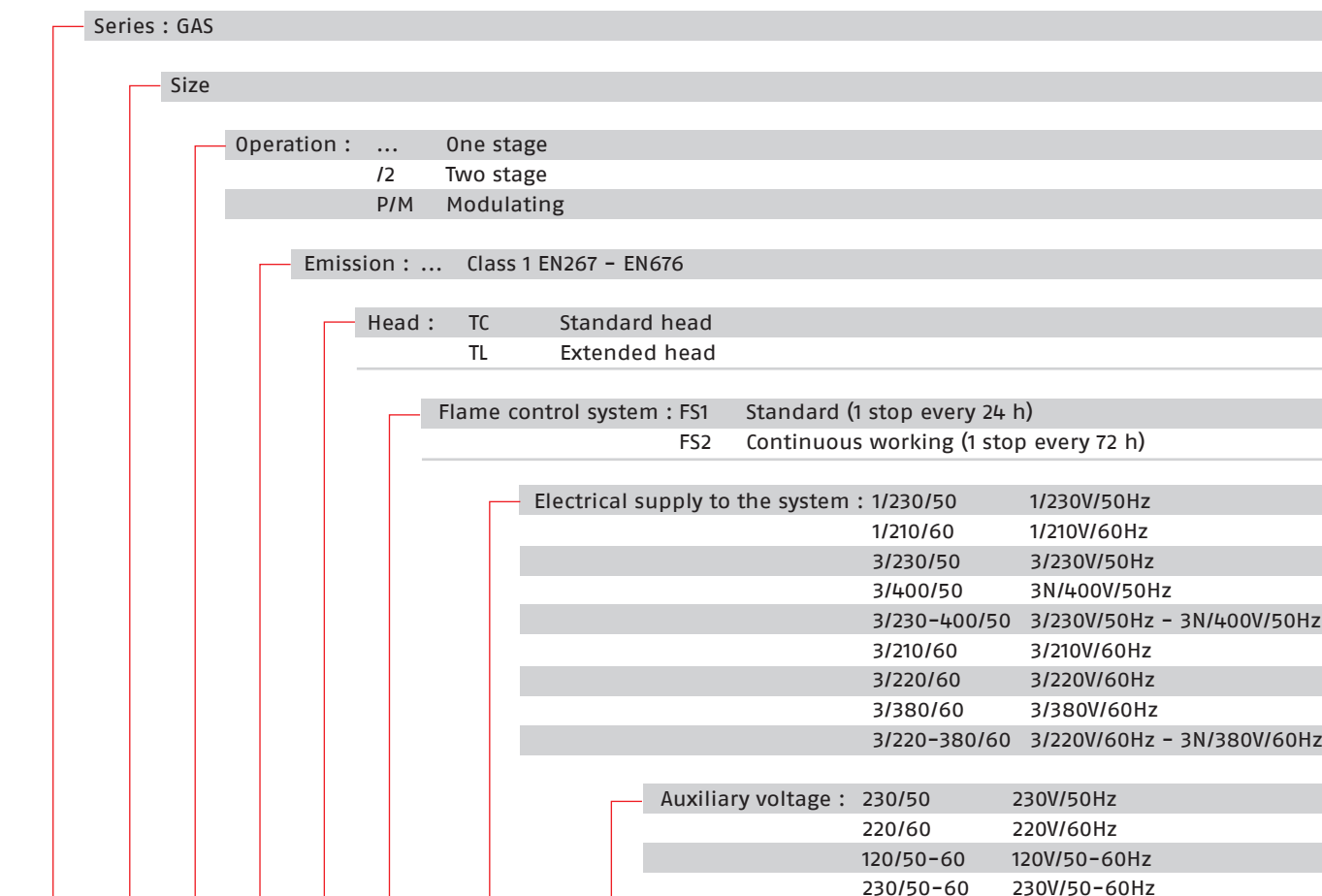
MODEL	X (1)	Y	Z	kg
▶ GAS 3 P/M	930	705	555	37
▶ GAS 4 P/M	930	705	555	43
▶ GAS 5 P/M	930	705	555	46
▶ GAS 6 P/M	1045	705	555	63
▶ GAS 7 P/M	1400	850	650	101
▶ GAS 8 P/M	1740	990	950	195
▶ GAS 9 P/M	2040	1180	1125	240
▶ GAS 10 P/M	2040	1180	1125	310

(1) Length with extended combustion head

## GAS P/M SERIES

# Specification

### DESIGNATION OF SERIES



GAS	9	P/M		TC	FS1	3/230-400/50	230/50-60
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BASIC DESIGNATION

EXTENDED DESIGNATION



# Specification

## STATE OF SUPPLY

Monoblock forced draught gas burner, two stage progressive operation or modulating with a kit, made up of:

- Air suction circuit
- Fan with forward curved blades
- Air damper for air setting controlled by a servomotor;
- Combustion head, that can be set on the basis of required output, fitted with:
  - stainless steel end cone, resistant to corrosion and high temperatures
  - ignition electrodes
  - flame stability disk
- Servomotor for air and gas delivery regulation
- Maximum gas pressure switch (except for GAS 3 P/M model and GAS 6 P/M code 3753681)
- Minimum air pressure switch
- Single phase or three phases electrical motor
- Ionisation probe
- Flame inspection window
- Slide bars for easier installation and maintenance
- Protection filter against radio interference
- IP X0D (IP 40) protection level.

### Standard equipment:

- 1 gas train flange
- 1 flange gasket
- 1 insulating screen
- 8 screws for fixing the burner flange to the boiler (12 for GAS 8 P/M - GAS 9 P/M and GAS 10 P/M)
- 4 wiring looms for electrical connections
- 1 star delta starter (for GAS 8 P/M - GAS 9 P/M and GAS 10 P/M)
- 2 wiring looms for electrical connections to the star delta starter (for GAS 8 P/M - GAS 9 P/M and GAS 10 P/M)
- 8 washers (for GAS 8 P/M - GAS 9 P/M and GAS 10 P/M)
- 2 bar extensions (only for extended head versions of GAS 8 P/M - GAS 9 P/M and GAS 10 P/M)
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue.

## GAS P/M SERIES

### Available models

#### Burners

CODE	MODEL					HEAT OUTPUT		TOTAL ELECTRICAL POWER (kW)	CERTIFICATION	NOTE
						NATURAL GAS				
						(kW)	(Nm <sup>3</sup> /h)			
3753371	GAS 3 P/M	TC	FS1	1/210/60	120/50-60	80/130-340	8/13-34	0,4	-	
3753321	GAS 3 P/M	TC	FS1	1/230/50	230/50-60	80/130-350	8/13-35	0,4	CE 0085AQ0710	
3753421	GAS 4 P/M	TC	FS1	1/230/50	230/50-60	120/180-470	12/18-47	0,54	CE 0085AQ0710	
3753471	GAS 4 P/M	TC	FS1	3/210/60	120/50-60	115/180-470	11,5/18-47	0,54	-	
3753481	GAS 4 P/M	TC	FS1	3/220-380/60	220/60	115/180-470	11,5/18-47	0,6	-	
3753571	GAS 5 P/M	TC	FS1	3/210/60	120/50-60	155/320-660	15,5/32-66	0,85	-	
3753581	GAS 5 P/M	TC	FS1	3/220-380/60	220/60	155/320-660	15,5/32-66	0,85	-	
3753521	GAS 5 P/M	TC	FS1	3/230-400/50	230/50-60	155/320-660	15,5/32-66	0,85	CE 0085AQ0710	
3753671	GAS 6 P/M	TC	FS1	3/210/60	120/50-60	300/520-1050	30/52-105	1,9	-	
3753681	GAS 6 P/M	TC	FS1	3/220-380/60	220/60	300/520-1050	30/52-105	1,9	-	
3753621	GAS 6 P/M	TC	FS1	3/230-400/50	230/50-60	300/520-1050	30/52-105	1,9	CE 0085AQ0710	
3753771	GAS 7 P/M	TC	FS1	3/210/60	120/50-60	400/800-1760	40/80-176	4,5	-	
3753781	GAS 7 P/M	TC	FS1	3/220-380/60	220/60	400/800-1760	40/80-176	4,5	-	
3753721	GAS 7 P/M	TC	FS1	3/230-400/50	230/50-60	400/800-1760	40/80-176	4,5	CE 0085AQ0710	
3753883	GAS 8 P/M	TC	FS1	3/220-380/60	220/60	580/1163-2325	58/116-232,5	5	-	
3753840	GAS 8 P/M	TC	FS1	3/230-400/50	230/50	640/1163-2210	64/116-221	5	CE 0085AP0941	
3753833	GAS 8 P/M	TC	FS1	3/230-400/50	230/50-60	640/1163-2210	64/116-221	5	CE 0085AP0941	
3753884	GAS 8 P/M	TL	FS1	3/220-380/60	220/60	580/1163-2325	58/116-232,5	5	-	
3753841	GAS 8 P/M	TL	FS1	3/230-400/50	230/50	640/1163-2210	64/116-221	5	CE 0085AP0941	
3753834	GAS 8 P/M	TL	FS1	3/230-400/50	230/50-60	640/1163-2210	64/116-221	5	CE 0085AP0941	
3754083	GAS 9 P/M	TC	FS1	3/220-380/60	220/60	870/1744-3488	87/174-349	16,9	-	
3754046	GAS 9 P/M	TC	FS1	3/230/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1) (2)
3754039	GAS 9 P/M	TC	FS1	3/230/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1)
3754044	GAS 9 P/M	TC	FS1	3/230-400/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(2)
3754037	GAS 9 P/M	TC	FS1	3/230-400/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	
3754048	GAS 9 P/M	TC	FS1	3/400/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1) (2)
3754041	GAS 9 P/M	TC	FS1	3/400/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1)
3754084	GAS 9 P/M	TL	FS1	3/220-380/60	220/60	870/1744-3488	87/174-349	16,9	-	
3754047	GAS 9 P/M	TL	FS1	3/230/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1) (2)
3754040	GAS 9 P/M	TL	FS1	3/230/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1)
3754045	GAS 9 P/M	TL	FS1	3/230-400/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(2)
3754038	GAS 9 P/M	TL	FS1	3/230-400/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	
3754049	GAS 9 P/M	TL	FS1	3/400/50	230/50	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1) (2)
3754042	GAS 9 P/M	TL	FS1	3/400/50	230/50-60	870/1744-3488	87/174-349	16,9	CE 0085AP0942	(1)
3754185	GAS 10 P/M	TC	FS1	3/220/60	220/60	1140/2441-5000	114/244-500	16,9	-	(1)
3754140	GAS 10 P/M	TC	FS1	3/230/50	230/50	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1) (2)
3754135	GAS 10 P/M	TC	FS1	3/230/50	230/50-60	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1)
3754187	GAS 10 P/M	TC	FS1	3/380/60	220/60	1140/2441-5000	114/244-500	16,9	-	(1)
3754142	GAS 10 P/M	TC	FS1	3/400/50	230/50	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1) (2)
3754137	GAS 10 P/M	TC	FS1	3/400/50	230/50-60	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1)
3754186	GAS 10 P/M	TL	FS1	3/220/60	220/60	1140/2441-5000	114/244-500	16,9	-	(1)
3754141	GAS 10 P/M	TL	FS1	3/230/50	230/50	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1) (2)
3754136	GAS 10 P/M	TL	FS1	3/230/50	230/50-60	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1)
3754188	GAS 10 P/M	TL	FS1	3/380/60	220/60	1140/2441-5000	114/244-500	16,9	-	(1)
3754143	GAS 10 P/M	TL	FS1	3/400/50	230/50	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1) (2)
3754138	GAS 10 P/M	TL	FS1	3/400/50	230/50-60	1140/2441-4885	114/244-489	16,9	CE 0085AP0943	(1)

(1) Star delta starter (2) With ground fault interrupter kit  
 Natural gas G20 net calorific value: 10 kWh/Nm<sup>3</sup> - Density gas G20: 0,71 kg/Nm<sup>3</sup>  
 The burners of GAS P/M series are in according to 2009/142 - 2004/108 - 2006/95 - 2006/42 EC Directive and EN 676 Norm.

# Modulating Gas Burners

## GAS P/M SERIES

### Available models

#### Gas Trains

CODE	GAS TRAIN			VPS CODE	ADAPTER CODE				
	MODEL	Ø	C.T.		GAS 3 P/M	GAS 4 P/M	GAS 5 P/M	GAS 6 P/M	GAS 7 P/M
3970500*	MB 405/1 - RT 20	Rp ¾"	-	3010123	3000824		●	●	●
3970553*	MB 407/1 - RT 20	Rp ¾"	-	3010123	3000824		●	●	●
3970599*	MB 407/1 - RT 52	Rp ¾"	-	3010123	3000824		●	●	●
3970229*	MB 407/1 - RSM 20	Rp ¾"	-	3010123	3000824		●	●	●
3970258*	MB 410/1 - RT 52	Rp 1" ¼"	-	3010123	3010124	3010124	3010124	3010126	●
3970554*	MB 410/1 - RT 20	Rp ¾"	-	3010123	3000824		●	●	●
3970600*	MB 410/1 - RT 52	Rp ¾"	-	3010123	3000824		●	3000824+	●
3970230*	MB 410/1 - RSM 20	Rp ¾"	-	3010123	3000824		●	3000843	●
3970256*	MB 412/1 - RT 52	Rp 1" ½"	-	3010123	-	-	-	3000843	●
3970144*	MB 412/1 - RT 20	Rp 1" ½"	-	3010123	-	-	-		
3970197**	MB 412/1 CT RT 20	Rp 1" ½"	◆	-	-	-	-		
3970231*	MB 412/1 - RSM 20	Rp 1" ½"	-	3010123	-	-	-		
3970180*	MB 415/1 - RT 30	Rp 1" ½"	-	3010123	-	-	-		
3970198**	MB 415/1 CT RT 30	Rp 1" ½"	◆	-	-	-	-		
3970250*	MB 415/1 - RT 52	Rp 1" ½"	-	3010123	-	-	-		
3970253**	MB 415/1 CT RT 52	Rp 1" ½"	◆	-	-	-	-		
3970232*	MB 415/1 - RSM 30	Rp 1" ½"	-	3010123	-	-	-		
3970181*	MB 420/1 - RT 30	Rp 2"	-	3010123	3000822		-		
3970182**	MB 420/1 CT RT 30	Rp 2"	◆	-	3000822		-	-	
3970257*	MB 420/1 - RT 52	Rp 2"	-	3010123	3000822		-	-	
3970252**	MB 420/1 CT RT 52	Rp 2"	◆	-	3000822		-	-	
3970233*	MB 420/1 - RSM 30	Rp 2"	-	3010123	3000822		-	-	
3970234**	MB 420/1 CT RSM 30	Rp 2"	◆	-	3000822		-	-	
3970221*	MBC 1200/1 - RSM 60	Rp 2"	-	3010367	3000822		-	-	
3970225**	MBC 1200/1 CT RSM 60	Rp 2"	◆	-	3000822		-	-	
3970222*	MBC 1900/1 - FSM 40	DN 65	-	3010367	●	●	3000825		
3970226*	MBC 1900/1 CT FSM 40	DN 65	◆	-	●	●	3000825		
3970223*	MBC 3100/1 - FSM 40	DN 80	-	3010367	●	●	●	3000826	
3970227**	MBC 3100/1 CT FSM 40	DN 80	◆	-	●	●	●	3000826	
3970224*	MBC 5000/1 - FSM 80	DN 100	-	3010367	●	●	●	●	●
3970228**	MBC 5000/1 CT FSM 80	DN 100	◆	-	●	●	●	●	●
3970145*	CB 512/1 - RSM 30	Rp 1" ½"	-	3010367	-	-	-	3000843	
20045589**	CB 512/1 CT RSM 30	Rp 1" ½"	◆	-	-	-	-	3000843	
3970146*	CB 520/1 - RSM 30	Rp 2"	-	3010367	3000822		-	-	
3970160**	CB 520/1 CT RSM 30	Rp 2"	◆	-	3000822		-	-	
20044659*	CB 525/1 - RSM 30	Rp 2"	-	3010367	3000822		-	-	
20044660**	CB 525/1 CT RSM 30	Rp 2"	◆	-	3000822		-	-	
3970147*	CB 5065/1 - FSM 30	DN 65	-	3010367	●	3000825			
3970161**	CB 5065/1 CT FSM 30	DN 65	◆	-	●	3000825			
3970148*	CB 5080/1 - FSM 30	DN 80	-	3010367	●	●	3000826+	3000826	
3970162**	CB 5080/1 CT FSM 30	DN 80	◆	-	●	●	3000822	3000826	
3970149*	CB 50100/1 - FSM 30	DN 100	-	3010367	●	●	●	3010370+ 3000826	
3970163**	CB 50100/1 CT FSM 30	DN 100	◆	-	●	●	●	3010370+ 3000826	
20015871*	CB 50125/1 - FSM 30	DN 125	-	3010367	●	●	●	●	3010224+
3970196**	CB 50125/1 CT FSM 30	DN 125	◆	-	●	●	●	●	3000826

## GAS P/M SERIES

### Available models

#### Gas Trains

CODE	GAS TRAIN			VPS CODE	ADAPTER CODE		
	MODEL	Ø	C.T.		GAS 8 P/M	GAS 9 P/M	GAS 10 P/M
3970180*	MB 415/1 - RT 30	Rp 1" 1/2	-	3010123	3000843+ 3010495+ 3000826	●	●
3970198**	MB 415/1 CT RT 30	Rp 1" 1/2	◆	-		●	●
3970250*	MB 415/1 - RT 52	Rp 1" 1/2	-	3010123		●	●
3970253**	MB 415/1 CT RT 52	Rp 1" 1/2	◆	-		●	●
3970232*	MB 415/1 - RSM 30	Rp 1" 1/2	-	3010123	3010495+ 3000826	●	●
3970181*	MB 420/1 - RT 30	Rp 2"	-	3010123		●	●
3970182**	MB 420/1 CT RT 30	Rp 2"	◆	-		●	●
3970257*	MB 420/1 - RT 52	Rp 2"	-	3010123		●	●
3970252**	MB 420/1 CT RT 52	Rp 2"	◆	-		●	●
3970233*	MB 420/1 - RSM 30	Rp 2"	-	3010123		●	●
3970234**	MB 420/1 CT RSM 30	Rp 2"	◆	-		●	●
3970221*	MBC 1200/1 - RSM 60	Rp 2"	-	3010367		3010495+3000826	
3970225**	MBC 1200/1 CT RSM 60	Rp 2"	◆	-			
3970222*	MBC 1900/1 - FSM 40	DN 65	-	3010367	3000831		
3970226**	MBC 1900/1 CT FSM 40	DN 65	◆	-			
3970223*	MBC 3100/1 - FSM 40	DN 80	-	3010367	3000832		
3970227**	MBC 3100/1 CT FSM 40	DN 80	◆	-			
3970224*	MBC 5000/1 - FSM 80	DN 100	-	3010367	●	3010127	
3970228**	MBC 5000/1 CT FSM 80	DN 100	◆	-	●		
3970145*	CB 512/1 - RSM 30	Rp 1" 1/2	-	3010367	3000843+3010495+3000826		
20045589**	CB 512/1 CT RSM 30	Rp 1" 1/2	◆	-			
3970146*	CB 520/1 - RSM 30	Rp 2"	-	3010367	3010495+3000826		
3970160**	CB 520/1 CT RSM 30	Rp 2"	◆	-			
20044659*	CB 525/1 - RSM 30	Rp 2"	-	3010367	3000831		
20044660**	CB 525/1 CT RSM 30	Rp 2"	◆	-			
3970147*	CB 5065/1 - FSM 30	DN 65	-	3010367	3000832		
3970161**	CB 5065/1 CT FSM 30	DN 65	◆	-			
3970148*	CB 5080/1 - FSM 30	DN 80	-	3010367	3010127		
3970162**	CB 5080/1 CT FSM 30	DN 80	◆	-			
3970149*	CB 50100/1 - FSM 30	DN 100	-	3010367	3090940		
3970163**	CB 50100/1 CT FSM 30	DN 100	◆	-			
20015871*	CB 50125/1 - FSM 30	DN 125	-	3010367			
3970196**	CB 50125/1 CT FSM 30	DN 125	◆	-			

Please see designation of Gas Train Series in the page before the Catalogue index.

\* 230V/50Hz -220V/60Hz electrical supply.

\*\* 230V/50Hz electrical supply.

The valve seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

To select the gas train please refer to the technical data leaflet and/or instruction manual.

C.T. Gas valve leak detection control device:

- gas train not equipped with leak detection control device; this device can be ordered separately - see VPS column - and installed later.

◆ gas train equipped with leak detection control device.

VPS Valve leak detection control device. Supplied separately from the gas train (please see Gas train accessories paragraph for both 50 Hz and 60 Hz codes).

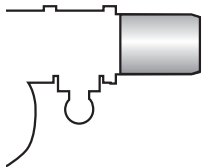
● Not available.

# Modulating Gas Burners

## GAS P/M SERIES

### Burner accessories

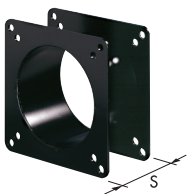
#### Extended head kit



"Standard head" burners can be transformed into "extended head" versions, by using the special kit.

BURNER	STANDARD HEAD LENGTH (mm)	EXTENDED HEAD LENGTH (mm)	KIT CODE
▶ GAS 3 P/M	185	320	3000605
▶ GAS 4 P/M	187	320	3000606
▶ GAS 5 P/M	207	365	3000607
▶ GAS 6 P/M	227	360	3000608
▶ GAS 7 P/M	240	400	3000678

#### Spacer kit



If burner head penetration into the combustion chamber needs reducing, varying thickness spacers are available, as given in the following list.

BURNER	SPACER THICKNESS S (mm)	KIT CODE
▶ GAS 3 - 4 - 5 - 6 P/M	142	3000755
▶ GAS 7 - 8 P/M	102	3000722
▶ GAS 9 P/M	130	3000723
▶ GAS 10 P/M	130	3000751

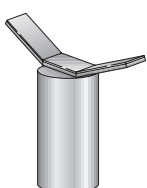
#### Continuous ventilation kit



If the burner requires continuous ventilation in the stages without flame, a special kit is available as given in the following table.

BURNER	KIT CODE
▶ GAS 3 - 4 - 5 - 6 - 7 P/M	3010030

#### Burner support



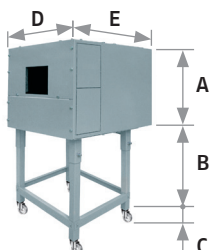
For easier maintenance, a mobile burner support has been designed, which means the burner can be dismantled without the need of forklift trucks.

BURNER	SUPPORT CODE
▶ GAS 8 P/M - GAS 10 P/M	3000731



## Burner accessories

### Sound proofing box

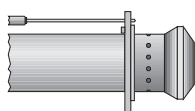


If noise emission needs reducing even further, sound-proofing boxes are available. In case of generator heights, where a lower dimension "B" is required, ask for the Box Support Kit code 20065135. The useful dimensions are 40 mm less than the total dimensions indicated in the table (A, D, E). Not suitable for outdoor use.

BURNER	BOX TYPE	A (mm)	B (mm) min-max	C (mm)	D (mm)	E (mm)	[dB(A)] (*)	BOX CODE
▶ GAS 3 - 4 - 5 - 6 P/M	C1/3	650	372 - 980	110	690	770	10	3010403
▶ GAS 7 - 8 P/M	C4/5	850	160 - 980	110	980	930	10	3010404
▶ GAS 9 - 10 P/M	C7	1255	160 - 980	110	1140	1345	10	3010376

(\*) Average noise reduction according to EN 15036-1 standard

### LPG kit

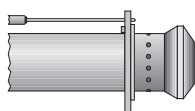


For burning LPG gas, a special kit is available.

BURNER	KIT CODE FOR STANDARD HEAD	KIT CODE FOR EXTENDED HEAD
▶ GAS 3 P/M	3000657	3000807
▶ GAS 4 P/M	3000658	3000808
▶ GAS 5 P/M	3000659	3000809
▶ GAS 6 P/M	3000753	3000810
▶ GAS 7 P/M	3000806	3000811
▶ GAS 8 P/M	3000875	3010029
▶ GAS 9 P/M	3000876	3010028
▶ GAS 10 P/M	3010152	3010153

(\*) Without CE certification

### Town Gas kit



For burning Town Gas, a special kit is available.

BURNER	KIT CODE FOR STANDARD HEAD (*)	KIT CODE FOR EXTENDED HEAD (*)
▶ GAS 3 P/M	3000742	-
▶ GAS 4 P/M	3000754	-
▶ GAS 5 P/M	3000759	-
▶ GAS 6 P/M	3000768	-
▶ GAS 7 P/M	3000769	-
▶ GAS 8 P/M	-	-
▶ GAS 9 P/M	3010298	3010298
▶ GAS 10 P/M	3010300	3010300

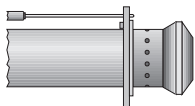
(\*) Without CE certification

# Modulating Gas Burners

## GAS P/M SERIES

### Burner accessories

#### Butane Gas kit



For burning Butane Gas ( $C_3H_8 = 25\% - C_4H_{10} = 75\%$ ), a special kit is available.

BURNER	KIT CODE FOR STANDARD HEAD (*)	KIT CODE FOR EXTENDED HEAD (*)
▶ GAS 8 P/M	20013604	20013673
▶ GAS 9 P/M	20012268	20013674
▶ GAS 10 P/M	20012270	20013675

(\*) Without CE certification

#### Accessories for modulating operation



To obtain modulating operation, the GAS P/M series of burners requires a regulator.

BURNER	REGULATOR TYPE	REGULATOR CODE
▶ GAS 3 - 4 - 5 - 6 - 7 P/M	RWF 40	3010210
▶ GAS 8 - 9 - 10 P/M	RWF 40	3010211



The relative temperature or pressure probes fitted to the regulator, must be chosen on the basis of the application.

BURNER	PROBE TYPE	RANGE (°C) (bar)	PROBE CODE
▶ GAS 3 - 4 - 5 - 6 - 7 P/M ▶ GAS 8 - 9 - 10 P/M	Temperature PT 100	-100 ÷ 500°C	3010110
	Pressure 4 ÷ 20 mA	0 ÷ 2,5 bar	3010213
	Pressure 4 ÷ 20 mA	0 ÷ 16 bar	3010214
	Pressure 4 ÷ 20 mA	0 ÷ 25 bar	3090873

















Depending on the servomotor fitted to the burner, a three-pole potentiometer (1000 Ω) can be installed to check the position of the servomotor.

BURNER	POTENTIOMETER KIT CODE
▶ GAS 3 - 4 - 5 - 6 - 7 P/M ▶ GAS 8 - 9 - 10 P/M	3010021

## Gas train accessories

### Adapters

In certain cases, an adapter must be fitted between the gas train and the burner, when the diameter of the gas train is different from the set diameter of the burner. Below are given the available adapters; please see on the Gas Train list the correct adapter codes to select.

ADAPTER	LENGTH mm	ADAPTER CODE
2"  1" 1/2	70	3000822
3/4"  1" 1/2	31	3000824
DN 65  2" 1/2  2" 1/2  1" 1/2	300	3000825
DN 80  2" 1/2  2"	300	3000826
1" 1/2  2"	35	3000843
DN 65  DN 80	320	3000831
DN 80  DN 80	320	3000832
DN 100  DN 80	320	3010127
2"  2"	58	3010495
1" 1/4  1" 1/2	35	3010124
1" 1/4  2"	35	3010126

### Seal control kit



To test the valve seals on the gas train, a special "seal control kit" is available. The valve seal control device is compulsory (EN 676) on gas trains to burners with a maximum output over 1200 kW. The seal control is type VPS 504.

GAS TRAIN	KIT CODE for 50 Hz operation	KIT CODE for 60 Hz operation
▶ MB/1 type	3010123	20029057
▶ MBC/1 type	3010367	20029057
▶ CB/1 type	3010367	20029057

### Gas train accessories

#### Stabiliser spring



To vary the pressure range of the gas train stabilisers, accessory springs are available. The following table shows these accessories with their application range. Please refer to the technical manual for the correct choice of spring.

GAS TRAIN	SPRING COLOUR	SPRING PRESSURE RANGE mbar	SPRING CODE
▶ MBC 1900/1 – 3100/1 MBC 5000/1	White	4 – 20	3010381
	Red	20 – 40	3010382
	Black	40 – 80	3010383
	Green	80 – 150	3010384
▶ CB 512/1	Red	25 – 55	3010131
	Black	60 – 110	3010157
	Pink	90 – 150	3090486
▶ CB 520/1 – 525/1	Red	25 – 55	3010132
	Black	60 – 110	3010158
	Pink	100 – 150	3090487
▶ CB 5065/1 – 5080/1	Red	25 – 55	3010133
	Black	60 – 110	3010135
	Pink	100 – 150	3090456
	Grey	140 – 200	3090992
▶ CB 50100/1	Red	25 – 55	3010134
	Black	60 – 110	3010136
	Pink	100 – 150	3090489
	Grey	140 – 200	3092174