

Gas valve train sizing WM-G20 and WM-GL20, vers. 3LN (multiflam®)

WM-G(L)20/2-A, version ZM-3LN (multiflam®)

Burner rating kW	Low pressure supply (with FRS) (flow pressure in mbar into shut-off valve, p_a max = 300 mbar)	High pressure supply (with HP regulator) (flow pressure in mbar into gas valve assembly)
	Nominal valve train diameter 1" 1½" 2" 65 80 100 125 Nominal diameter of gas butterfly 65 65 65 65 65 65 65	Nominal valve train diameter 1" 1½" 2" 65 80 100 125 Nominal diameter of gas butterfly 65 65 65 65 65 65 65

Natural gas E	LHV = 10.35 kWh/Nm ³ ; d = 0.606; W _i = 13.295 kWh/mn ³						
600	45	21	13	10	10	9	9
700	62	29	17	14	13	13	12
800	81	38	22	19	17	16	16
900	101	47	28	23	21	20	20
1000	123	56	32	26	24	23	22
1100	146	65	36	28	26	24	24
1200	170	73	39	30	27	25	24
1300	195	82	42	31	27	25	25
1450	237	96	46	33	28	26	25

Natural gas LL	LHV = 8.83 kWh/Nm ³ ; d = 0.641; W _i = 11.029 kWh/mn ³						
600	63	27	15	12	11	10	10
700	86	38	21	17	15	14	14
800	112	49	27	22	20	18	18
900	141	62	34	27	24	23	22
1000	172	74	40	31	27	26	25
1100	204	86	44	33	29	27	26
1200	238	98	48	35	30	28	27
1300	275	110	52	37	31	28	27
1450	-	132	59	40	33	29	28

LPG	LHV = 25.89 kWh/Nm ³ ; d = 1.555; W _i = 20.762 kWh/mn ³						
600	23	13	10	9	9	8	8
700	31	18	13	12	11	11	11
800	41	23	17	15	14	14	14
900	51	28	20	18	17	17	17
1000	62	34	24	22	21	21	20
1100	72	39	27	24	23	22	22
1200	82	43	29	25	24	23	23
1300	93	46	30	26	24	23	23
1450	110	52	32	27	25	24	23

Screwed

R 1	W-MF 512
R 1½	W-MF 512
R 2	DMV 525/12

Flanged

DN 65	DMV 5065/12
DN 80	DMV 5080/12
DN 100	DMV 5100/12
DN 125	VDG 40.125

The combustion chamber pressure in mbar must be added to the minimum gas pressure determined from the above chart. Minimum gas pressure should not be less than 15 mbar.

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Natural gas E	LHV = 10.35 kWh/Nm ³ ; d = 0.606; W _i = 13.295 kWh/mn ³						
950	103	42	21	15	13	12	12
1000	114	47	23	17	15	14	13
1100	139	58	29	22	19	17	17
1200	166	69	34	26	22	21	20
1300	194	81	40	30	26	24	23
1400	225	93	46	34	30	27	27
1500	255	104	50	36	31	28	27
1600	286	114	53	38	32	29	28
1800	-	138	61	41	33	29	28
2000	-	164	69	45	35	30	29

Natural gas LL	LHV = 8.83 kWh/Nm ³ ; d = 0.641; W _i = 11.029 kWh/mn ³						
950	146	58	26	18	15	14	13
1000	162	64	30	21	18	16	15
1100	197	79	37	26	22	20	19
1200	235	94	44	32	27	24	23
1300	276	111	52	37	32	29	28
1400	-	127	59	42	36	32	31
1500	-	142	65	45	37	33	32
1600	-	158	70	47	39	34	32
1800	-	194	81	53	42	36	34
2000	-	233	94	59	46	38	36

LPG	LHV = 25.89 kWh/Nm ³ ; d = 1.555; W _i = 20.762 kWh/mn ³						
950	48	23	14	12	11	10	10
1000	53	25	16	13	12	12	11
1100	64	31	19	16	15	14	14
1200	76	37	22	19	18	17	17
1300	89	43	26	22	20	19	19
1400	103	49	30	25	23	22	22
1500	116	54	32	27	25	23	23
1600	129	59	34	27	25	24	23
1800	158	68	37	29	26	24	23
2000	190	79	40	30	26	24	24

For low-pressure supplies, EN 88-compliant governors with safety diaphragms are used. the maximum permissible supply pressure into the shut-off valve for low-pressure installations is 300 mbar.

For high-pressure supplies, EN 334-compliant high pressure regulators should be selected from the brochure "Pressure regulators with safety devices for Weishaupt gas and dual-fuel burners". This brochure details high gas pressure sets suitable for supply pressures of up to 4 bar.

Refer to the burner's rating plate for the maximum connection pressure.