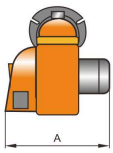
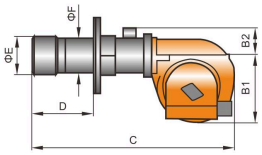
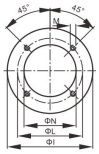
B-BT17G/GR/GC One/Two stage/Sliding/Modulating Gas Burner







Technological performance and structural descriptions

1. Gas-fired burner.
2. One/Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Single stage manual flow adjustment.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Monophase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40.

Power kW	Model	Power Supply	Motor Power kW	Packing Size LxPxH mm	Net weight kg
69 ~ 168	B-BT17G	230V 50Hz	0.15	580×465×350	15
58 ~ 168	B-BT17GR/GC	230V 50Hz	0.15	650×520×360	18

Model	A	B1	B2	C	D	E	F	N	L	I(l1)	M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	M
B-BT17G	310	230	120	528	80~200	108	95	110	130~155	170	4-M8
B-BT17GR/GC	325/458	230	120	612/650	80~200	108	95	110	130~155	170	4-M8

Model	Art No.	Art No.	Art No.
B-BT17G/GR/GC	201 22 103	201 22 200	201 22 300

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Proportional Adjustment Function

If order Modulation device RWF40 or Dc1020 set, burner can turn to modulation regulation.

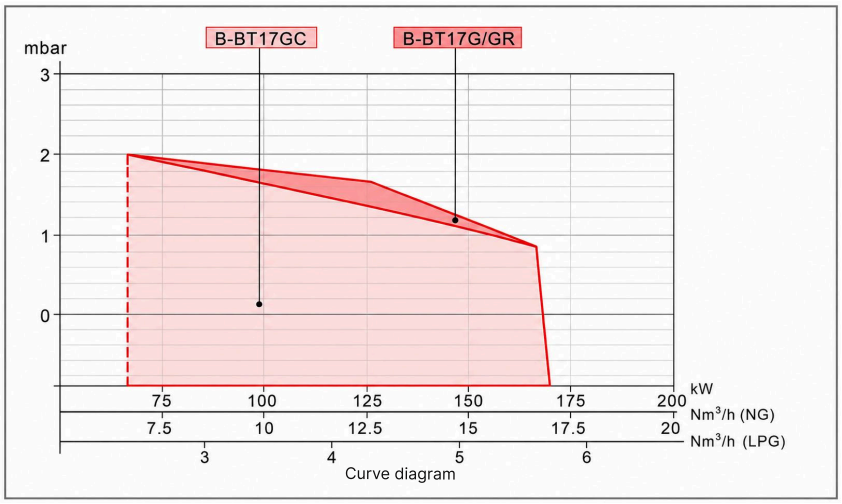
Standard Accessories

Valve -the partnership with the boiler

Remark

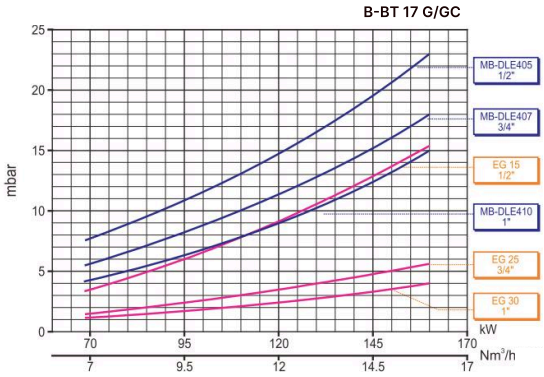
1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



Curve diagram

B-BT17G/GR/GC One/Two stage/Sliding/Modulating Gas Burner

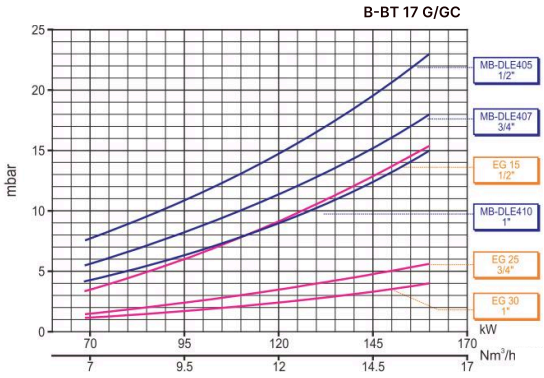


B-BT 17 G/GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 15 (1/2")	222 25 303	-	40	-	222 19 503	QF1	
EG 25 (3/4")	222 25 304	-	40	-	222 19 504	QF1	
EG 30 (1")	222 25 305	-	40	-	222 19 505	QF1	
LN 205 (1/2")	222 25 353	-	40	-	222 19 503	QF2	
LN 207 (3/4")	222 25 354	-	40	-	222 19 504	QF2	
LN 210 (1")	222 25 355	-	40	-	222 19 505	QF2	
MB-DLE405 (1/2")	222 25 653	Optional	350	Include	222 19 503	QF7	
MB-DLE407 (3/4")	222 25 654	Optional	350	Include	222 19 504	QF7	
MB-DLE410 (1")	222 25 655	Optional	350	Include	222 19 505	QF7	

B-BT 17 G/GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 304 EG 25 (3/4")	30	69~168	40	-	222 19 504	QF1	
222 25 305 EG 30 (1")	15	69~168	40	-	222 19 505	QF1	
222 25 354 LN 207 (3/4")	30	69~168	40	-	222 19 504	QF2	
222 25 355 LN 210 (1")	15	69~168	40	-	222 19 505	QF2	
222 25 654 MB-DLE407 (3/4")	30	69~168	350	Include	222 19 504	QF7	
222 25 655 MB-DLE410 (1")	15	69~168	350	Include	222 19 505	QF7	



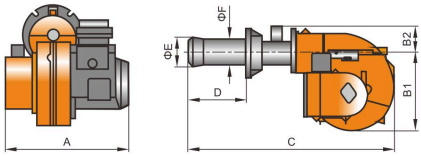
B-BT 17 GR

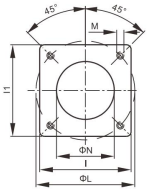
Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE405 (1/2")	222 25 750	Optional	350	Include	222 19 503	QF5	
MB-ZRDLE407 (3/4")	222 25 751	Optional	350	Include	222 19 504	QF5	
MB-ZRDLE410 (1")	222 25 752	Optional	350	Include	222 19 505	QF5	

B-BT 17 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 751 MB-ZRDLE407 (3/4")	45	69~168	350	Include	222 19 504	QF5	
222 25 752 MB-ZRDLE410 (1")	30	69~168	350	Include	222 19 505	QF5	

B-BT20/30G/GR One/Two stage Gas Burner





Technological performance and structural descriptions

1. Gas-fired burner.
2. One/Two-stage working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Single stage manual flow adjustment.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. One flange and one insulating seal for boiler fastening.
9. Combustion air intake with air flow adjustment device.
10. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
11. Monophase electric motor to run fan.
12. Flame presence check by ionisation electrode.
13. Electrical plant protection rating IP40

Power kW	Model	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
50~200	B-BT20G/GR	230V 50Hz	0.37	850×530×395	25.5
60~300	B-BT30G/GR	230V 50Hz	0.37	850×530×395	27

Model	A	B1	B2	C	D	E	F	N	L	I(I1)	M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	M
B-BT20G/GR	422	263	102	800	120~280	135	114	140	170~210	185	4-M10
B-BT30G/GR	422	263	102	820	170~300	135	133	145	200~245	215	4-M12

Model	Art No.	Art No.
B-BT20G/GR	201 22 104	201 22 201
B-BT30G/GR	201 22 105	201 22 202

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

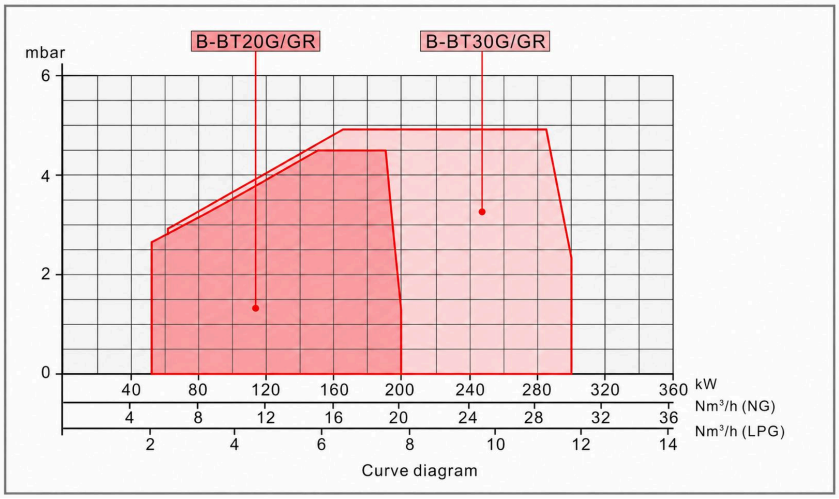
Standard Accessories

Valve -the partnership with the boiler

Remark

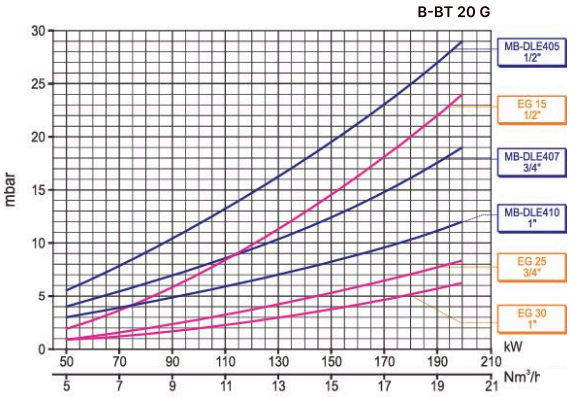
1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



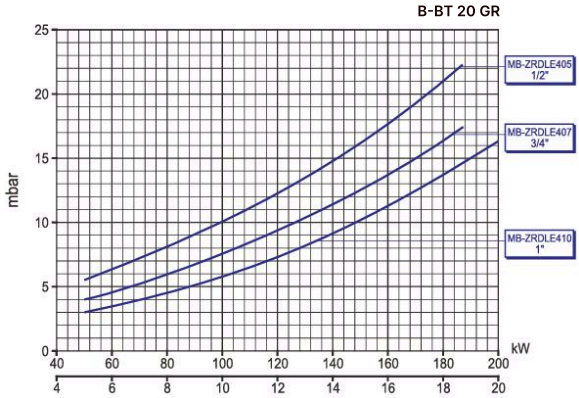
Curve diagram

B-BT20/30G/GR One/Two stage Gas Burner



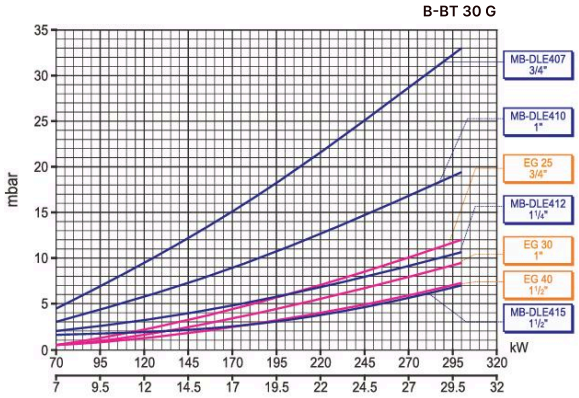
B-BT 20 G

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 15 (1/2")	222 25 303	-	40	-	222 19 503	QF1	
EG 25 (3/4")	222 25 304	-	40	-	222 19 504	QF1	
EG 30 (1")	222 25 305	-	40	-	222 19 505	QF1	
LN 205 (1/2")	222 25 353	-	40	-	222 19 503	QF2	
LN 207 (3/4")	222 25 354	-	40	-	222 19 504	QF2	
LN 210 (1")	222 25 355	-	40	-	222 19 505	QF2	
MB-DLE405 (1/2")	222 25 653	Optional	350	Include	222 19 503	QF7	
MB-DLE407 (3/4")	222 25 654	Optional	350	Include	222 19 504	QF7	
MB-DLE410 (1")	222 25 655	Optional	350	Include	222 19 505	QF7	



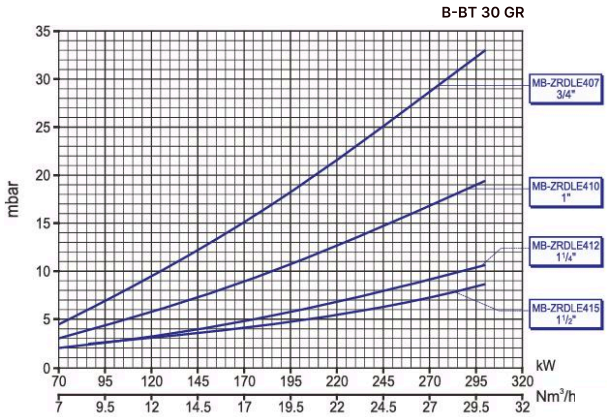
B-BT 20 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE405 (1/2")	222 25 750	Optional	350	Include	222 19 503	QF5	
MB-ZRDLE407 (3/4")	222 25 751	Optional	350	Include	222 19 504	QF5	
MB-ZRDLE410 (1")	222 25 752	Optional	350	Include	222 19 505	QF5	



B-BT 30 G

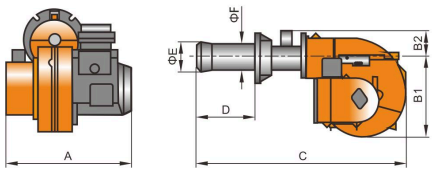
Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 25 (3/4")	222 25 306	-	40	-	222 19 506	QF1	
EG 30 (1")	222 25 307	-	40	-	222 19 507	QF1	
EG 40 (1½")	222 25 308	-	40	-	222 19 264	QF1	
LN 207 (3/4")	222 25 356	-	40	-	222 19 506	QF2	
LN 210 (1")	222 25 357	-	40	-	222 19 507	QF2	
LN 215 (1½")	222 25 358	-	40	-	222 19 264	QF2	
MB-DLE407 (3/4")	222 25 656	Optional	350	Include	222 19 506	QF7	
MB-DLE410 (1")	222 25 657	Optional	350	Include	222 19 507	QF7	
MB-DLE412 (1¼")	222 25 658	Optional	350	Include	222 19 513	QF7	
MB-DLE415 (1½")	222 25 659	Optional	350	Include	222 19 264	QF7	

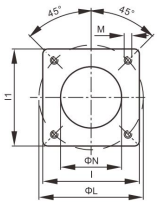


B-BT 30 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE407 (3/4")	222 25 753	Optional	350	Include	222 19 506	QF5	
MB-ZRDLE410 (1")	222 25 754	Optional	350	Include	222 19 507	QF5	
MB-ZRDLE412 (1¼")	222 25 755	Optional	360	Include	222 19 513	QF5	
MB-ZRDLE415 (1½")	222 25 756	Optional	360	Include	222 19 264	QF5	

B-BT35G/GR/GC One/Two stage/Sliding/Modulating Gas Burner





Technological performance and structural descriptions

1. Gas-fired burner.
2. One/Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Single stage manual flow adjustment.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Monophase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40

Power kW	Model	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
90~358	B-BT35G/GR	230V 50Hz	0.37	850×530×395	28.5
60~340	B-BT35GC	230V 50Hz	0.37	850×620×440	50

Model	A	B1	B2	C	D	E	F	N	L	I(I1)	M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	M
B-BT35G/GR	422	263	102	780	130~258	155	135	160	200~245	215	4-M12
B-BT35GC	518	263	102	780	130~258	155	133	160	200~245	215	4-M12

Model	Art No.	Art No.	Art No.
B-BT35G/GR/GC	201 22 106	201 22 203	201 22 301

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Proportional Adjustment Function

If order Modulation device RWF40 or Dc1020 set, burner can turn to modulation regulation.

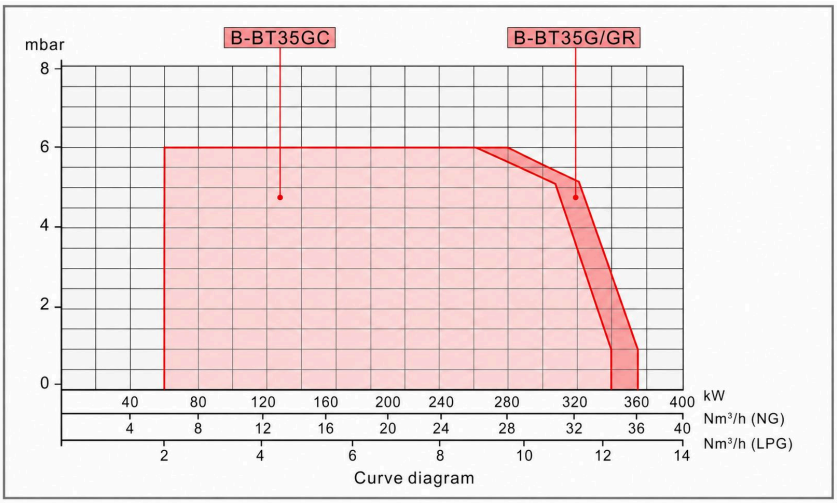
Standard Accessories

Valve -the partnership with the boiler

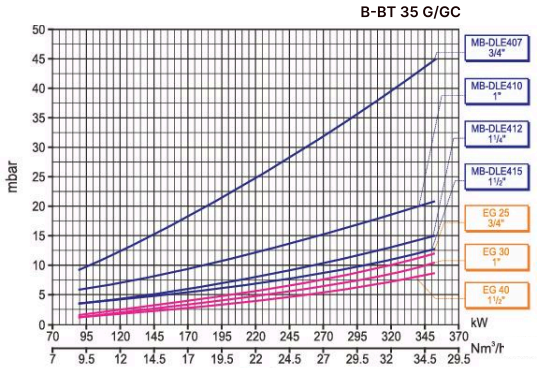
Remark

1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



B-BT35G/GR/GC One/Two stage/Sliding/Modulating Gas Burner

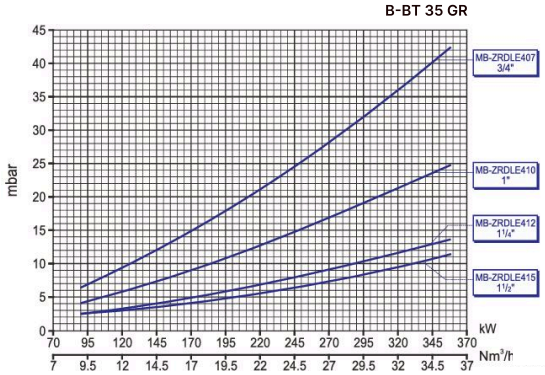


B-BT 35 G/GC

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 25	(3/4")	222 25 306	-	40	-	222 19 506	QF1	
EG 30	(1")	222 25 307	-	40	-	222 19 507	QF1	
EG 40	(1 1/2")	222 25 308	-	40	-	222 19 264	QF1	
LN 207	(3/4")	222 25 356	-	40	-	222 19 506	QF2	
LN 210	(1")	222 25 357	-	40	-	222 19 507	QF2	
LN 215	(1 1/2")	222 25 358	-	40	-	222 19 264	QF2	
MB-DLE407	(3/4")	222 25 656	Optional	350	Include	222 19 506	QF7	
MB-DLE410	(1")	222 25 657	Optional	350	Include	222 19 507	QF7	
MB-DLE412	(1 1/4")	222 25 658	Optional	350	Include	222 19 513	QF7	
MB-DLE415	(1 1/2")	222 25 659	Optional	350	Include	222 19 264	QF7	

B-BT 35 G/GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 308 EG 40 (1 1/2")	30	90~358	350	-	222 19 264	QF1	
222 25 358 LN 215 (1 1/2")	30	90~358	350	-	222 19 264	QF2	
222 25 659 MB-DLE415 (1 1/2")	30	90~358	350	Include	222 19 264	QF7	



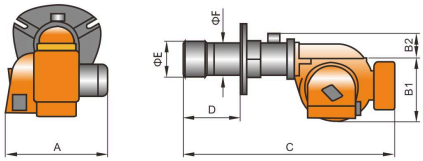
B-BT 35 GR

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE407	(3/4")	222 25 753	Optional	350	Include	222 19 506	QF5	
MB-ZRDLE410	(1")	222 25 754	Optional	350	Include	222 19 507	QF5	
MB-ZRDLE412	(1 1/4")	222 25 755	Optional	360	Include	222 19 513	QF5	
MB-ZRDLE415	(1 1/2")	222 25 756	Optional	360	Include	222 19 264	QF5	

B-BT 35 GR

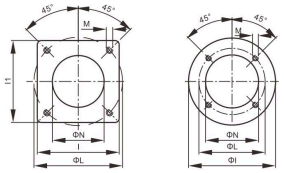
Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 755 MB-ZRDLE412 (1 1/2")	45	90~358	360	Include	222 19 513	QF5	
222 25 756 MB-ZRDLE415 (1 1/2")	30	90~358	360	Include	222 19 264	QF5	

B-BT50/60G One-stage Gas Burner



Technological performance and structural descriptions

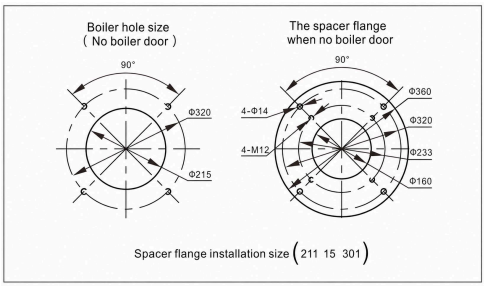
1. Gas-fired burner.
2. Single stage operation (on/off).
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit can be removed without having to remove the burner from the boiler.
6. Manual flow adjustment.
7. one flange and one insulating seal for boiler fastening.
8. Combustion air intake with air flow adjustment device.
9. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
10. Three-phase electric motor to run fan.
11. Flame presence check by ionisation electrode.
12. Electrical plant protection rating IP40.

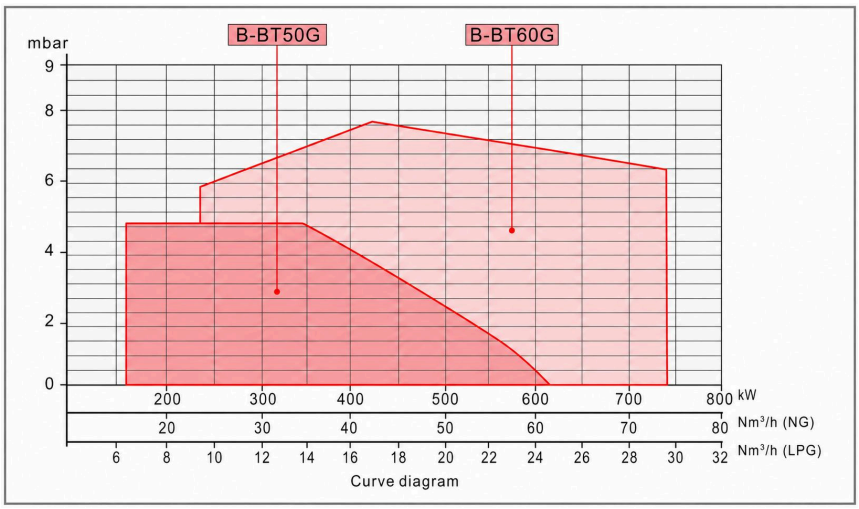


Drawing 1 Drawing 2

Power kW	Model	Art No.	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
169~596	B-BT50G	201 22 108	380V 50Hz	0.37	1050×900×710	58
248~738	B-BT60G	201 22 109	380V 50Hz	1.1	1050×900×710	89

Model	A	B1	B2	C	D	E	F	N	L	I(I1)		M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	Drawing No.	M
B-BT50G	475	295	108	1063	150~350	155	133	160	200~245	215	Drawing 1	4-M12
B-BT60G	560	365	129	1270	170~400	205	159	190	233	290	Drawing 2	4-M12





Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Standard Accessories

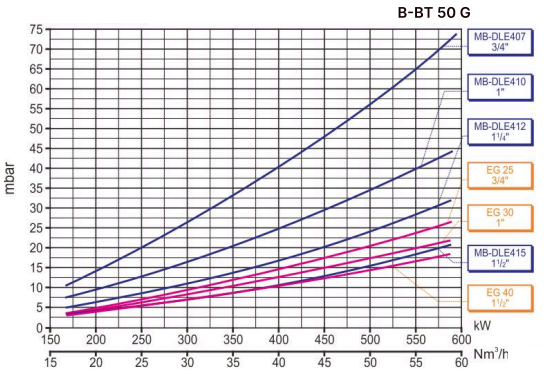
Valve -the partnership with the boiler

Remark

1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.

B-BT50/60G One-stage Gas Burner

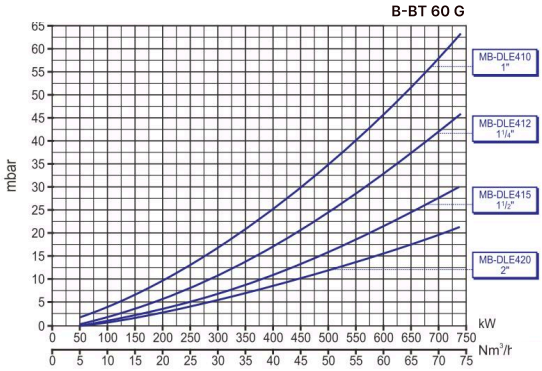


B-BT 50 G

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 25	(3/4")	222 25 306	-	40	-	222 19 506	QF1	
EG 30	(1")	222 25 307	-	40	-	222 19 507	QF1	
EG 40	(1 1/2")	222 25 308	-	40	-	222 19 264	QF1	
LN 207	(3/4")	222 25 356	-	40	-	222 19 506	QF2	
LN 210	(1")	222 25 357	-	40	-	222 19 507	QF2	
LN 215	(1 1/2")	222 25 358	-	40	-	222 19 264	QF2	
MB-DLE407	(3/4")	222 25 656	Optional	350	Include	222 19 506	QF7	
MB-DLE410	(1")	222 25 657	Optional	350	Include	222 19 507	QF7	
MB-DLE412	(1 1/4")	222 25 658	Optional	350	Include	222 19 513	QF7	
MB-DLE415	(1 1/2")	222 25 659	Optional	350	Include	222 19 264	QF7	

B-BT 50 G

Valve Assembly Number (Model)			Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 308	EG 40	(1 1/2")	30	169~596	40	-	222 19 264	QF1	
222 25 358	LN 215	(1 1/2")	30	169~596	40	-	222 19 264	QF2	
222 25 659	MB-DLE415	(1 1/2")	30	169~596	350	Include	222 19 264	QF7	



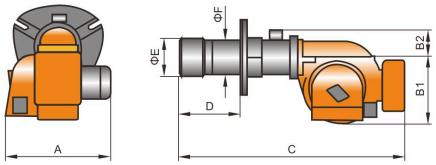
B-BT 60 G

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 210+LN 210LE		222 25 450	-	40	-	222 19 509	QF3	
LN 215+LN 215LE		222 25 451	-	40	-	222 19 510	QF3	
LN 220+LN 220LE		222 25 452	-	40	-	222 19 267	QF3	
MB-DLE410	(1")	222 25 660	Optional	350	Include	222 19 509	QF7	
MB-DLE412	(1 1/4")	222 25 661	Optional	350	Include	222 19 514	QF7	
MB-DLE415	(1 1/2")	222 25 662	Optional	350	Include	222 19 510	QF7	
MB-DLE420	(2")	222 25 663	Optional	350	Include	-	QF7	

B-BT 60 G

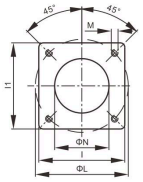
Valve Assembly Number (Model)			Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 663	MB-DLE420	(2")	30	50~738	350	Include	-	QF7	

B-BT40/60GR/GC Two stage/Sliding/Modulating Gas Burner

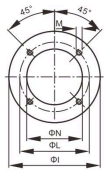


Technological performance and structural descriptions

1. Gas-fired burner.
2. Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40.



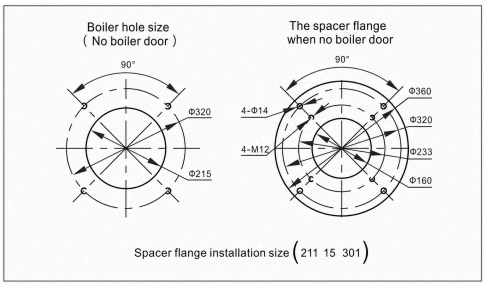
Drawing 1



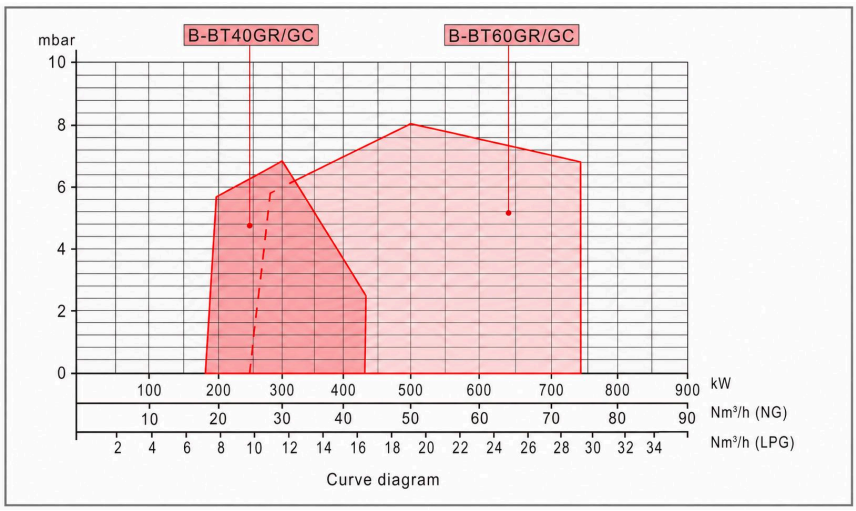
Drawing 2

Power kW	Model	Art No.	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
185~425	B-BT40GR/GC	201 22 108	380V 50Hz	0.37	860×680×600	76
248~738	B-BT60GR/GC	201 22 109	380V 50Hz	1.1	1050×900×710	97

Model	A	B1	B2	C	D	E	F	N	L	I(I1)		M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	Drawing No.	M
B-BT40GR/GC	470/530	295	102	1100	150~330	155	133	160	200~245	215	Drawing 1	4-M12
B-BT60GR/GC	560/620	365/400	120	1300	170~400	205	159	190	233	290	Drawing 2	4-M12



Model	Art No.	Art No.
B-BT40GR/GC	201 22 204	201 22 302
B-BT60GR/GC	201 22 205	201 22 303



Curve diagram

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Standard Accessories

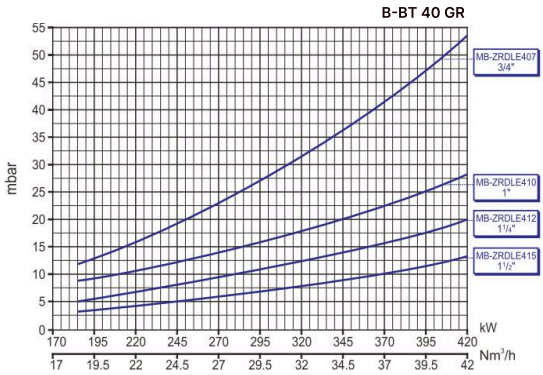
Valve -the partnership with the boiler

Remark

1) It is with air closure device.

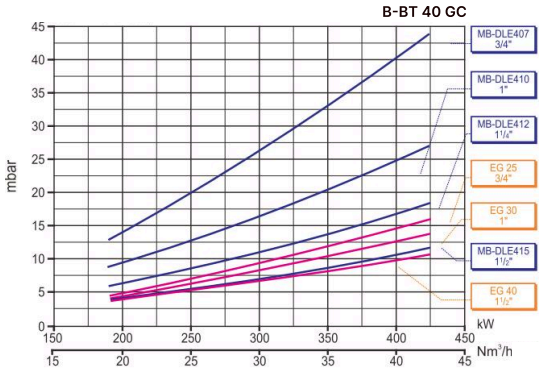
**) Allowed Max.gas pressure in valve set input.

B-BT40/60GR/GC Two stage/Sliding/Modulating Gas Burner



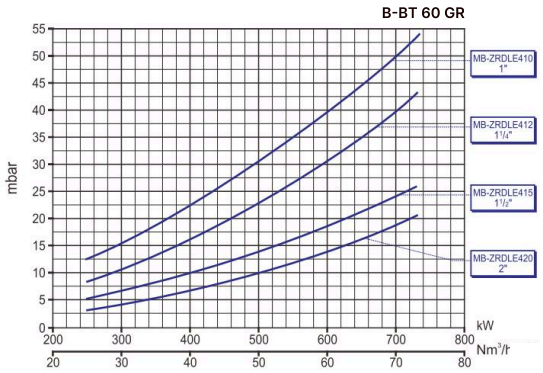
B-BT 40 GR

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE407	(3/4")	222 25 753	Optional	350	Include	222 19 506	QF5	
MB-ZRDLE410	(1")	222 25 754	Optional	350	Include	222 19 507	QF5	
MB-ZRDLE412	(1¼")	222 25 755	Optional	360	Include	222 19 513	QF5	
MB-ZRDLE415	(1½")	222 25 756	Optional	360	Include	222 19 264	QF5	



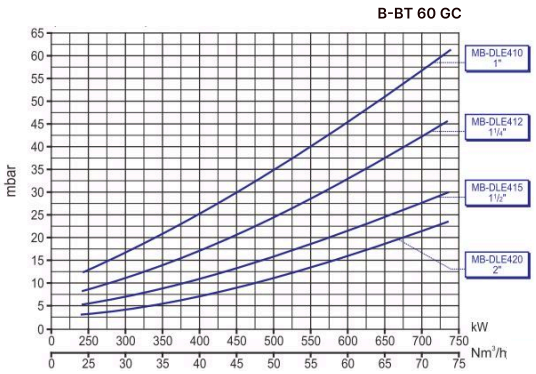
B-BT 40 GC

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
EG 25	(3/4")	222 25 306	-	40	-	222 19 506	QF1	
EG 30	(1")	222 25 307	-	40	-	222 19 507	QF1	
EG 40	(1½")	222 25 308	-	40	-	222 19 264	QF1	
LN 207	(3/4")	222 25 356	-	40	-	222 19 506	QF2	
LN 210	(1")	222 25 357	-	40	-	222 19 507	QF2	
LN 215	(1½")	222 25 358	-	40	-	222 19 264	QF2	
MB-DLE407	(3/4")	222 25 656	Optional	350	Include	222 19 506	QF7	
MB-DLE410	(1")	222 25 657	Optional	350	Include	222 19 507	QF7	
MB-DLE412	(1¼")	222 25 658	Optional	350	Include	222 19 513	QF7	
MB-DLE415	(1½")	222 25 659	Optional	350	Include	222 19 264	QF7	



B-BT 60 GR

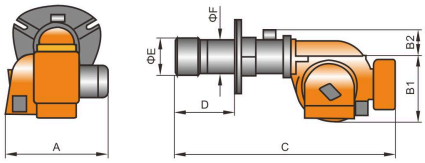
Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE410	(1")	222 25 757	Optional	350	Include	222 19 509	QF5	
MB-ZRDLE412	(1¼")	222 25 758	Optional	360	Include	222 19 514	QF5	
MB-ZRDLE415	(1½")	222 25 759	Optional	360	Include	222 19 515	QF5	
MB-ZRDLE420	(2")	222 25 760	Optional	360	Include	222 19 267	QF5	

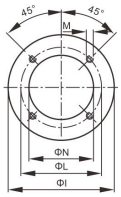


B-BT 60 GC

Curve (Model)		Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 210+LN 210LE		222 25 450	-	40	-	222 19 509	QF3	
LN 215+LN 215LE		222 25 451	-	40	-	222 19 510	QF3	
LN 220+LN 220LE		222 25 452	-	40	-	222 19 267	QF3	
MB-DLE410	(1")	222 25 660	Optional	350	Include	222 19 509	QF7	
MB-DLE412	(1¼")	222 25 661	Optional	350	Include	222 19 514	QF7	
MB-DLE415	(1½")	222 25 662	Optional	350	Include	222 19 510	QF7	
MB-DLE420	(2")	222 25 663	Optional	350	Include	-	QF7	

B-BT100/120GR/GC Two stage/Sliding/Modulating Gas Burner



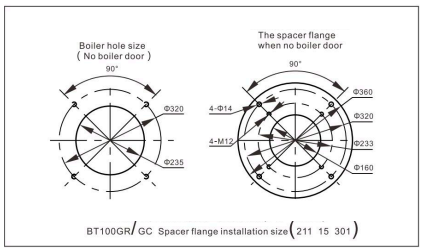


Technological performance and structural descriptions

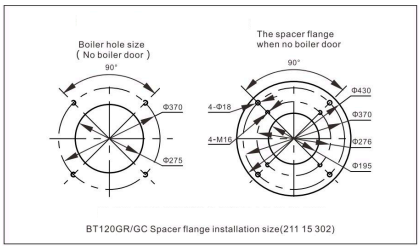
1. Gas-fired burner.
2. Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40

Power kW	Model	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
280~995	B-BT100GR/GC	380V 50Hz	1.1	1050×900×710	90/100
350~1200	B-BT120GR/GC	380V 50Hz	1.5	1050×900×710	100/115

Model	A	B1	B2	C	D	E	F	N	L	l(l1)		M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	Drawing No.	M
B-BT100GR/GC	560/620	365/400	120	1330	240~460	230	159	215	233	290	Drawing 1	4-M12
B-BT120GR/GC	560/620	365/400	160	1370	240~460	270	194	220	276	320	Drawing 2	4-M16



BT100GR/GC Spacer flange installation size(211 15 301)



BT120GR/GC Spacer flange installation size(211 15 302)

Model	Art No.	Art No.
B-BT100GR/GC	201 22 206	201 22 304
B-BT120GR/GC	201 22 207	201 22 305

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Proportional Adjustment Function

If order Modulation device RWF40 or Dc1020 set, burner can turn to modulation regulation.

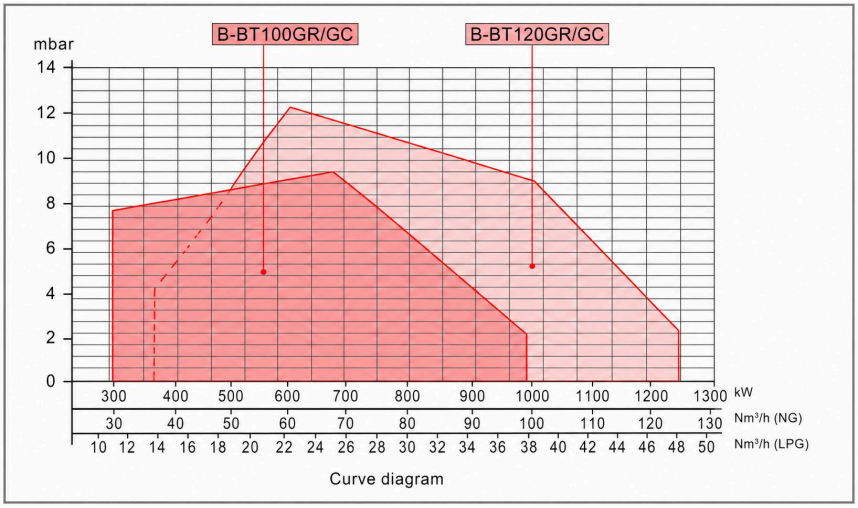
Standard Accessories

Valve -the partnership with the boiler

Remark

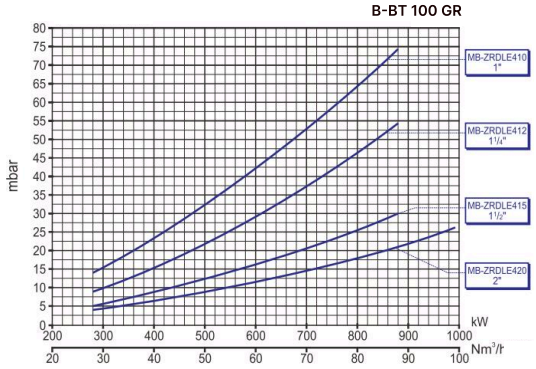
1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



Curve diagram

B-BT100/120GR/GC Two stage/Sliding/Modulating Gas Burner

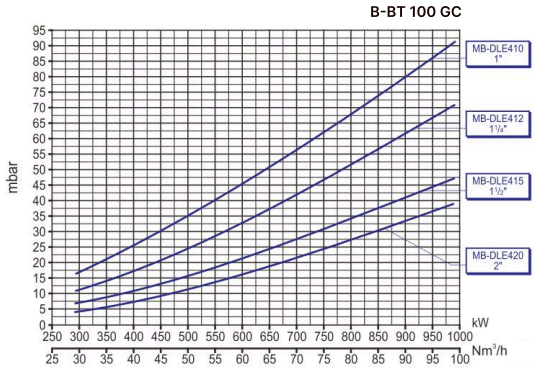


B-BT 100 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE410 (1")	222 25 757	Optional	350	Include	222 19 509	QF5	
MB-ZRDLE412 (1¼")	222 25 758	Optional	360	Include	222 19 514	QF5	
MB-ZRDLE415 (1½")	222 25 759	Optional	360	Include	222 19 515	QF5	
MB-ZRDLE420 (2")	222 25 760	Optional	360	Include	222 19 267	QF5	

B-BT 100 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 759 MB-ZRDLE415 (1½")	45	280~880	360	Include	222 19 515	QF5	
222 25 760 MB-ZRDLE420 (2")	30	280~995	360	Include	222 19 267	QF5	

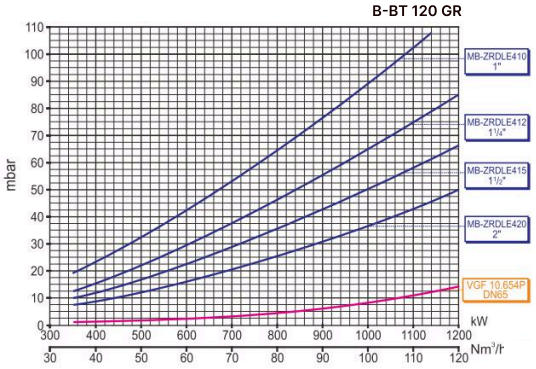


B-BT 100 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 210+LN 210LE	222 25 450	-	100	-	222 19 509	QF3	
LN 215+LN 215LE	222 25 451	-	100	-	222 19 510	QF3	
LN 220+LN 220LE	222 25 452	-	100	-	222 19 267	QF3	
MB-DLE410 (1")	222 25 660	Optional	350	Include	222 19 509	QF6	
MB-DLE412 (1¼")	222 25 661	Optional	350	Include	222 19 514	QF6	
MB-DLE415 (1½")	222 25 662	Optional	350	Include	222 19 510	QF6	
MB-DLE420 (2")	222 25 663	Optional	350	Include	-	QF6	

B-BT 100 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 663 MB-DLE420 (2")	30	280~995	350	Include	-	QF6	

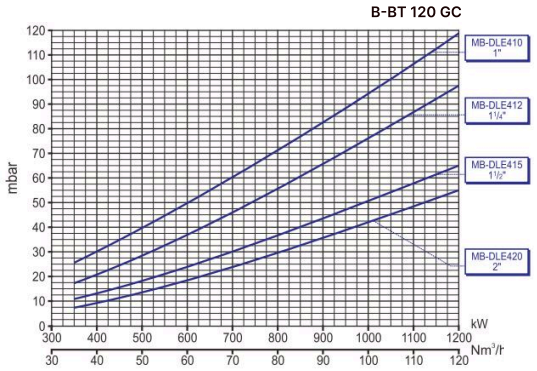


B-BT 120 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE410 (1")	222 25 757	Optional	350	Include	222 19 509	QF5	
MB-ZRDLE412 (1¼")	222 25 758	Optional	360	Include	222 19 514	QF5	
MB-ZRDLE415 (1½")	222 25 759	Optional	360	Include	222 19 515	QF5	
MB-ZRDLE420 (2")	222 25 760	Optional	360	Include	222 19 267	QF5	

B-BT 120 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 759 MB-ZRDLE415 (1½")	45	350~1140	360	Include	222 19 515	QF5	
222 25 760 MB-ZRDLE420 (2")	30	350~1200	360	Include	222 19 267	QF5	
222 25 601 VE+VGF10.654P (DN65)	30	350~1200	600	Include	222 19 172	QF6	



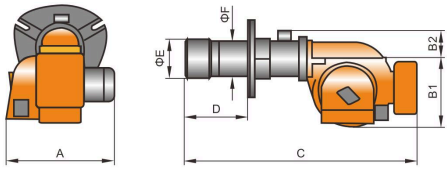
B-BT 120 GC

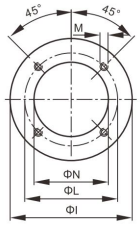
Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 210+LN 210LE	222 25 450	-	100	-	222 19 509	QF3	
LN 215+LN 215LE	222 25 451	-	100	-	222 19 510	QF3	
LN 220+LN 220LE	222 25 452	-	100	-	222 19 267	QF3	
MB-DLE410 (1")	222 25 660	Optional	350	Include	222 19 509	QF6	
MB-DLE412 (1¼")	222 25 661	Optional	350	Include	222 19 514	QF6	
MB-DLE415 (1½")	222 25 662	Optional	350	Include	222 19 510	QF6	
MB-DLE420 (2")	222 25 663	Optional	350	Include	-	QF6	

B-BT 120 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 663 MB-DLE420 (2")	30	350~1200	350	Include	-	QF6	

B-BT150/200GR/GC Two stage/Sliding/Modulating Gas Burner



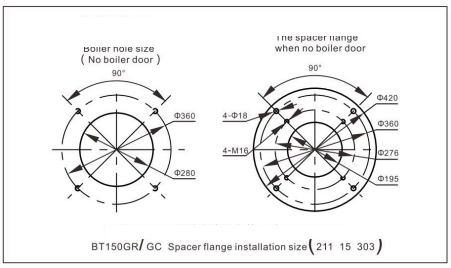


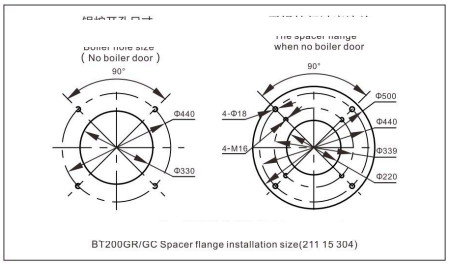
Technological performance and structural descriptions

1. Gas-fired burner.
2. Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40

Power kW	Model	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
414~1428	B-BT150GR/GC	380V 50Hz	2.2	1250×1150×780	128.5
490~2000	B-BT200GR/GC	380V 50Hz	3.0	1250×1150×780	178

Model	A	B1	B2	C	D	E	F	N	L	I	M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	ϕmm	M
B-BT150GR/GC	660/700	450	137	1500	220~440	270	194	220	276	320	4-M16
B-BT200GR/GC	660/700	450	200	1640	300~600	320	219	230	339	400	4-M16





Model	Art No.	Art No.
B-BT150GR/GC	201 22 208	201 22 306
B-BT200GR/GC	201 22 209	201 22 307

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Proportional Adjustment Function

If order Modulation device RWF40 or Dc1020 set, burner can turn to modulation regulation.

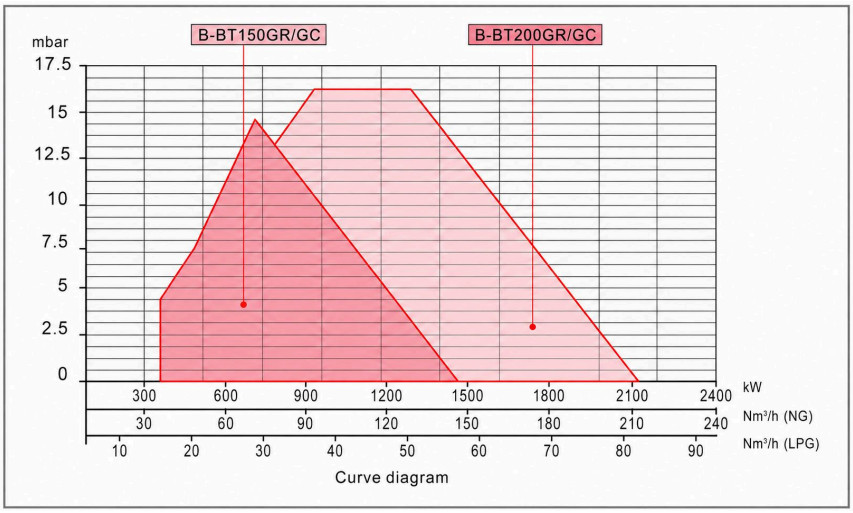
Standard Accessories

Valve -the partnership with the boiler

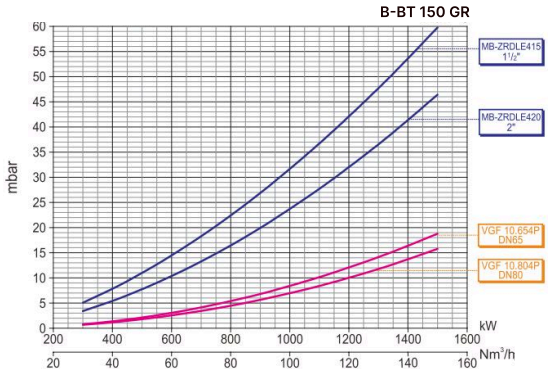
Remark

1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



B-BT150/200GR/GC Two stage/Sliding/Modulating Gas Burner

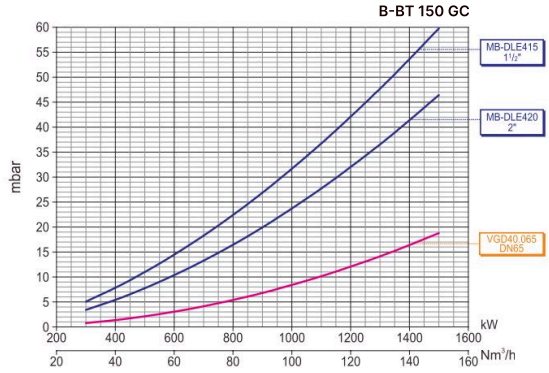


B-BT 150 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE415 (1½")	222 25 761	Optional	360	Include	222 19 170	QF5	
MB-ZRDLE420 (2")	222 25 762	Optional	360	Include	222 19 171	QF5	

B-BT 150 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 762 MB-ZRDLE420 (2")	45	414~1300	-	Include	222 19 171	QF5	
222 25 601 VE+VGF10.654P (DN65)	30	414~1428	600	Optional	222 19 172	QF6	
222 25 602 VE+VGF10.804P (DN80)	15	414~1428	600	Optional	-	QF6	

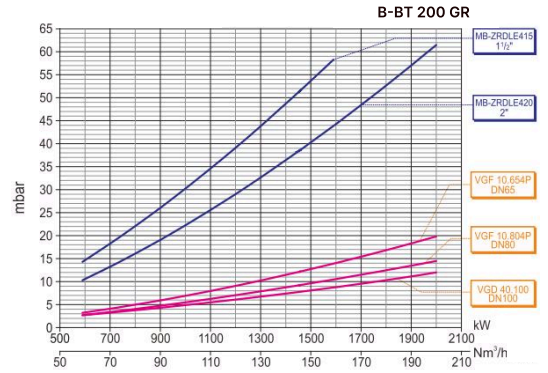


B-BT 150 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 215+LN 215LE	222 25 453	-	140	-	222 19 170	QF3	
LN 220+LN 220LE	222 25 454	-	140	-	222 19 171	QF3	
MB-DLE415 (1½")	222 25 664	Optional	360	Include	222 19 170	QF7	
MB-DLE420 (2")	222 25 665	Optional	360	Include	222 19 171	QF7	
VGD40.065 (DN65)	222 25 502	Optional	600	Include	-	QF8	
VE4065A (DN65)	222 25 402	-	140	-	222 19 172	QF4	

B-BT 150 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 665 MB-DLE420 (2")	45	414~1300	-	Include	222 19 171	QF7	
222 25 502 VGD40.065 DN(65)	30	414~1428	600	Include	-	QF8	
222 25 402 VE4065A DN(65)	30	414~1428	140	-	222 19 172	QF4	

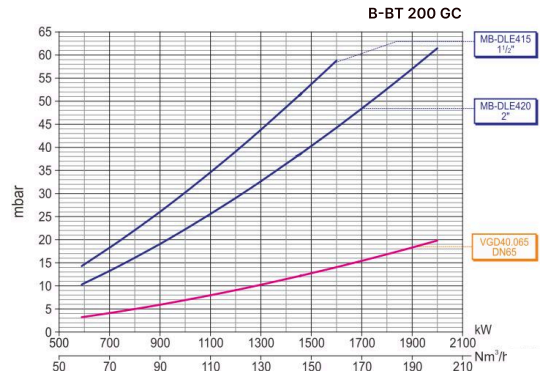


B-BT 200 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE415 (1½")	222 25 761	Optional	360	Include	222 19 170	QF5	
MB-ZRDLE420 (2")	222 25 762	Optional	360	Include	222 19 171	QF5	
VE4065A (DN65)	222 25 402	Optional	360	Optional	222 19 172	QF4	

B-BT 200 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 601 VE+VGF10.654P (DN65)	45	590~1840	600	Include	222 19 172	QF6	
222 25 602 VE+VGF10.804P (DN80)	30	590~2000	600	Include	-	QF6	



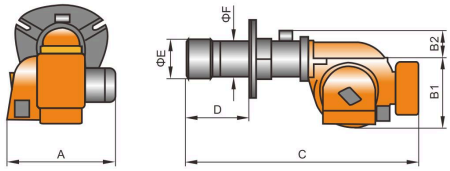
B-BT 200 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 215+LN 215LE	222 25 453	-	140	-	222 19 170	QF3	
LN 220+LN 220LE	222 25 454	-	140	-	222 19 171	QF3	
MB-DLE415 (1½")	222 25 664	Optional	360	Include	222 19 170	QF7	
MB-DLE420 (2")	222 25 665	Optional	360	Include	222 19 171	QF7	
VGD40.065 (DN65)	222 25 502	Optional	600	Include	-	QF8	
VE4065A (DN65)	222 25 402	-	600	-	222 19 172	QF4	

B-BT 200 GC

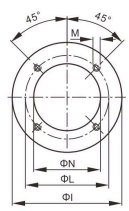
Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 665 MB-DLE420 (2")	45	490~1600	-	Include	222 19 171	QF7	
222 25 502 VGD40.065 (DN65)	30	490~2000	600	Include	-	QF8	
222 25 402 VE4065A (DN65)	30	490~2000	140	-	222 19 172	QF4	

B-BT250/300/350GR/GC Two stage/Sliding/Modulating Gas Burner

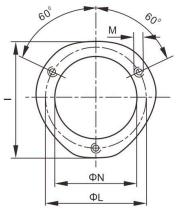


Technological performance and structural descriptions

1. Gas-fired burner.
2. Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. Two stage Minimum and maximum air flow regulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
8. Sliding/modulating The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40.



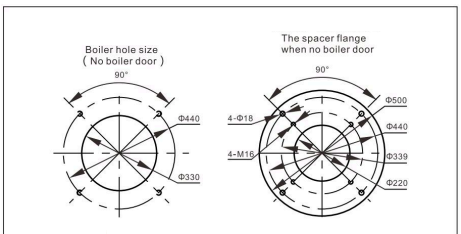
Drawing 1



Drawing 2

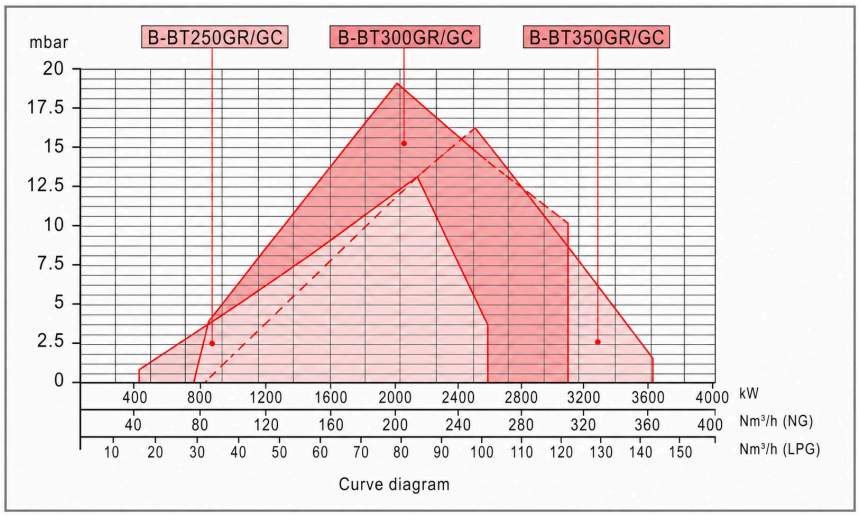
Power kW	Model	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
490~2500	B-BT250GR/GC	380V 50Hz	7.5	1620×1200×960	210/220
657~2982	B-BT300GR/GC	380V 50Hz	7.5	1620×1200×960	208/218
924~3500	B-BT350GR/GC	380V 50Hz	7.5	1620×1200×960	221/248

Model	A	B1	B2	C	D	E	F	N	L	I		M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	Drawing No.	M
B-BT250GR/GC	875/905	570	200/167	1850	300~600	320	219	230	339	400	Drawing 1	4-M16
B-BT300GR/GC	875/905	570	260/167	1850	275~465	356	273	365	462~520	550	Drawing 2	3-M20
B-BT350GR/GC	880/905	570	260/167	1850	275~465	356	273	365	462~520	550	Drawing 2	3-M20



BT250GR/GC Spacer flange installation size(211 15 304)

Model	Art No.	Art No.
B-BT250GR/GC	201 22 210	201 22 308
B-BT300GR/GC	201 22 211	201 22 309
B-BT350GR/GC	201 22 212	201 22 310

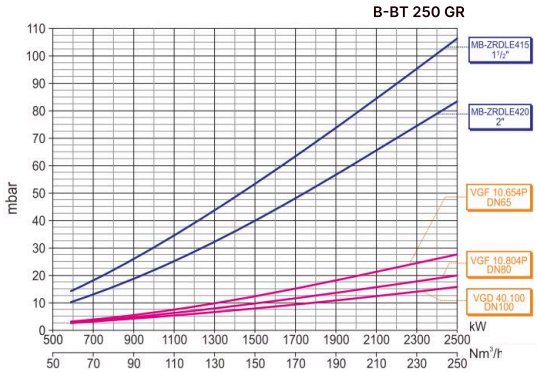


Curve diagram

Remark

*Alternative function/standard fittings/it is same with BT200GR/GC model in remark.

B-BT250/300/350GR/GC Two stage/Sliding/Modulating Gas Burner

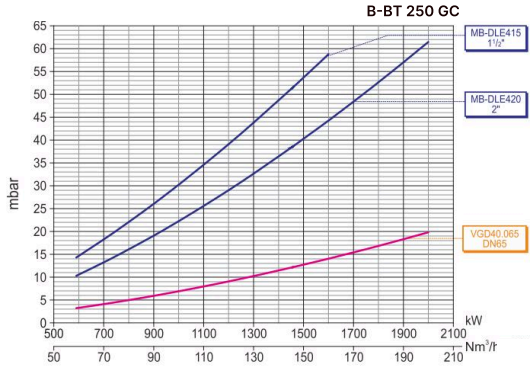


B-BT 250 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE415 (1½")	222 25 761	Optional	360	Include	222 19 170	QF5	
MB-ZRDLE420 (2")	222 25 762	Optional	360	Include	222 19 171	QF5	
VE4065A+VGF10.654P(DN65)	222 25 601	Optional	360	Optional	222 19 172	QF6	

B-BT 250 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 602 VE+VGF10.804P (DN80)	30	590~2500	600	Optional	-	QF6	
222 25 502 VGD 40.100 (DN100)	15	590~2500	600	Include	222 19 201	QF8	

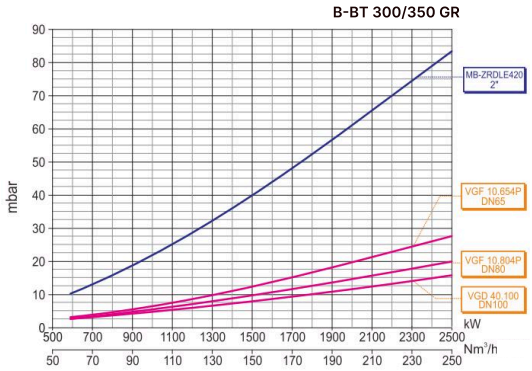


B-BT 250 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 215+LN 215LE	222 25 453	-	140	-	222 19 170	QF3	
LN 220+LN 220LE	222 25 454	-	140	-	222 19 171	QF3	
MB-DLE415 (1½")	222 25 664	Optional	360	Include	222 19 170	QF7	
MB-DLE420 (2")	222 25 665	Optional	360	Include	222 19 171	QF7	
VGD40.065 (DN65)	222 25 502	Optional	600	Include	-	QF8	
VE4065A (DN65)	222 25 402	-	600	-	222 19 172	QF4	

B-BT 250 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 665 MB-DLE420 (2")	45	490~1600	-	Include	222 19 171	QF7	
222 25 502 VGD40.065 (DN65)	30	490~2000	600	Include	-	QF8	
222 25 402 VE4065A (DN65)	30	490~2000	140	-	222 19 172	QF4	

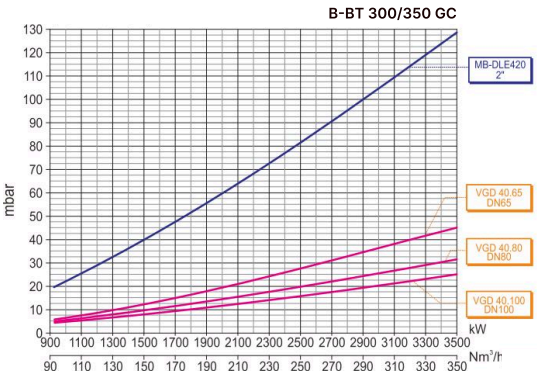


B-BT 300/350 GR

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
MB-ZRDLE420 (2")	222 25 763	Optional	360	Include	222 19 174	QF5	
VE4065A+VGF10.654P(DN65)	221 25 601	Optional	140	Optional	222 19 172	QF6	

B-BT 300/350 GR

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 602 VE+VGF10.804P (DN80)	30	657~2520	600	Optional	-	QF6	
222 25 506 VGD 40.100 (DN100)	15	657~2420	600	Include	222 19 203	QF8	



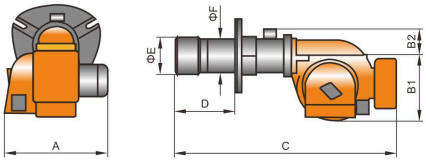
B-BT 300/350 GC

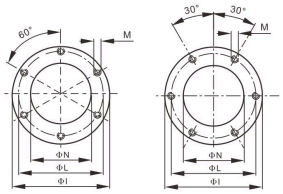
Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 220+LN 220LE	222 25 455	-	140	-	222 19 174	QF3	
MB-DLE420 (2")	222 25 666	Optional	360	Include	222 19 174	QF7	
VGD40.065 (DN65)	222 25 504	Optional	600	Include	222 19 200	QF8	
VGD40.080 (DN80)	222 25 505	Optional	600	Include	-	QF8	
VGD40.0100 (DN100)	222 25 506	Optional	600	Include	222 19 203	QF8	
VE4065A (DN65)	222 25 404	-	140	-	222 19 512	QF4	
VE4080B (DN80)	222 25 405	-	140	-	-	QF4	

B-BT 300/350 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 505 VGD40.080 (DN80)	30	924~3500	600	Include	-	QF8	
222 25 506 VGD40.100 (DN100)	15	924~3500	600	Include	222 19 203	QF8	
222 25 405 VE4080B (DN80)	30	924~3500	140	-	-	QF4	

B-BT400/600GC Two stage/Sliding/Modulating Gas Burner





Drawing 1 Drawing 2

Technological performance and structural descriptions

1. Gas-fired burner.
2. Two-stage sliding/modulating working.
3. Air-gas mixing at blast-pipe.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. The hinge connection, can be opened naturally.
6. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
7. The burner is paused, close the throttle to reduce the loss of furnace heat.
8. The servo motor which fixed with a cam can adjust the consumption for fuel and air.
9. One flange and one insulating seal for boiler fastening.
10. Combustion air intake with air flow adjustment device.
11. Sliding boiler coupling flange to adapt to head protrusion of the various types of boilers.
12. Three-phase electric motor to run fan.
13. Flame presence check by ionisation electrode.
14. Electrical plant protection rating IP40

Power kW	Model	Art No.	Power Supply	Motor power kW	Packing Size LxPxH mm	Net weight kg
400~3950	B-BT400GC	201 22 311	380V 50Hz	9	1620×1200×960	310
800~5400	B-BT600GC	201 22 317	380V 50Hz	15	1620×1200×960	350

Model	A	B1	B2	C	D	E	F	N	L	I		M
	mm	mm	mm	mm	mm	ϕmm	ϕmm	ϕmm	ϕmm	mm	Drawing No.	M
B-BT400GC	880	570	260	1850	275~450	356	273	365	400~520	550	Drawing 1	3-M20
B-BT600GC	1025	580	330	1800	500	365	325	380	520	580	Drawing 2	6-M20

Alternative Features

Can lengthen the blast tube, Can books the 60Hz.

Proportional Adjustment Function

If order Modulation device RWF40 or Dc1020 set, burner can turn to modulation regulation.

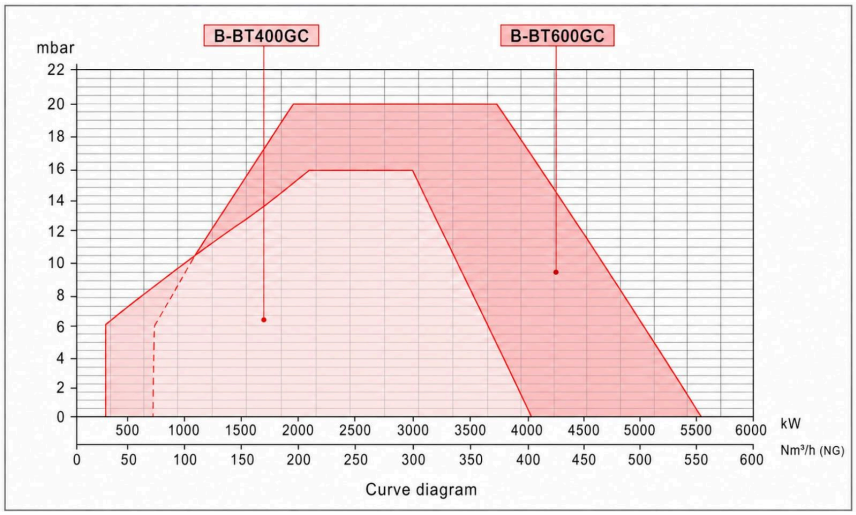
Standard Accessories

Valve -the partnership with the boiler

Remark

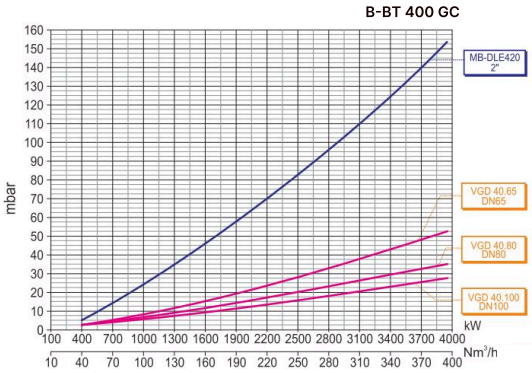
1) It is with air closure device.

**) Allowed Max.gas pressure in valve set input.



Curve diagram

B-BT400/600GC Two stage/Sliding/Modulating Gas Burner

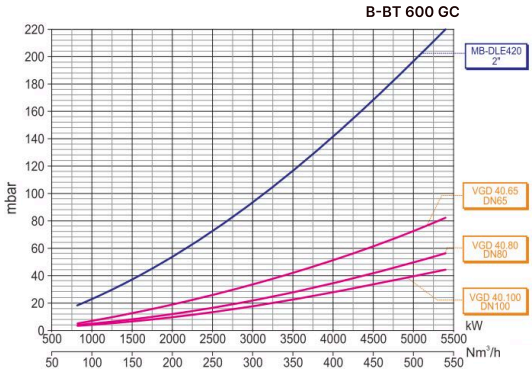


B-BT 400 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 220+LN 220LE	222 25 455	-	140	-	222 19 174	QF3	
MB-DLE420 (2")	222 25 666	Optional	360	Include	222 19 174	QF7	
VGD40.065 (DN65)	222 25 504	Optional	600	Include	222 19 200	QF8	
VGD40.080 (DN80)	222 25 505	Optional	600	Include	-	QF8	
VGD40.0100 (DN100)	222 25 506	Optional	600	Include	222 19 203	QF8	
VE4065A (DN65)	222 25 404	-	140	-	222 19 512	QF4	
VE4080B (DN80)	222 25 405	-	140	-	-	QF4	

B-BT 400 GC

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 505 VGD40.080 (DN80)	30	400~3950	600	Include	-	QF8	
222 25 506 VGD 40.100 (DN100)	15	400~3950	600	Include	222 19 203	QF8	
222 25 405 VE4080B (DN80)	30	400~3950	140	-	-	QF4	



B-BT 600 GC

Curve (Model)	Valve Group Number	Leak Detection	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
LN 220+LN 220LE	222 25 455	-	140	-	222 19 174	QF3	
MB-DLE420 (2")	222 25 666	Optional	360	Include	222 19 174	QF7	
VGD40.065 (DN65)	222 25 504	Optional	600	Include	222 19 200	QF8	
VGD40.080 (DN80)	222 25 505	Optional	600	Include	-	QF8	
VGD40.0100 (DN100)	222 25 506	Optional	600	Include	222 19 203	QF8	
VE4065A (DN65)	222 25 404	-	140	-	222 19 512	QF4	
VE4080B (DN80)	222 25 405	-	140	-	-	QF4	

B-BT 600 G S/M

Valve Assembly Number (Model)	Min. Pressure mbar	Output Range kW	Max. Pressure mbar	Filter Regulator	Burner/Valve	Drawing Number	Remark
222 25 505 VGD40.080 (DN80)	30	800~5400	600	Include	-	QF8	
222 25 506 VGD 40.100 (DN100)	15	800~5400	600	Include	222 19 203	QF8	
222 25 405 VE4080B (DN80)	30	800~5400	140	-	-	QF4	