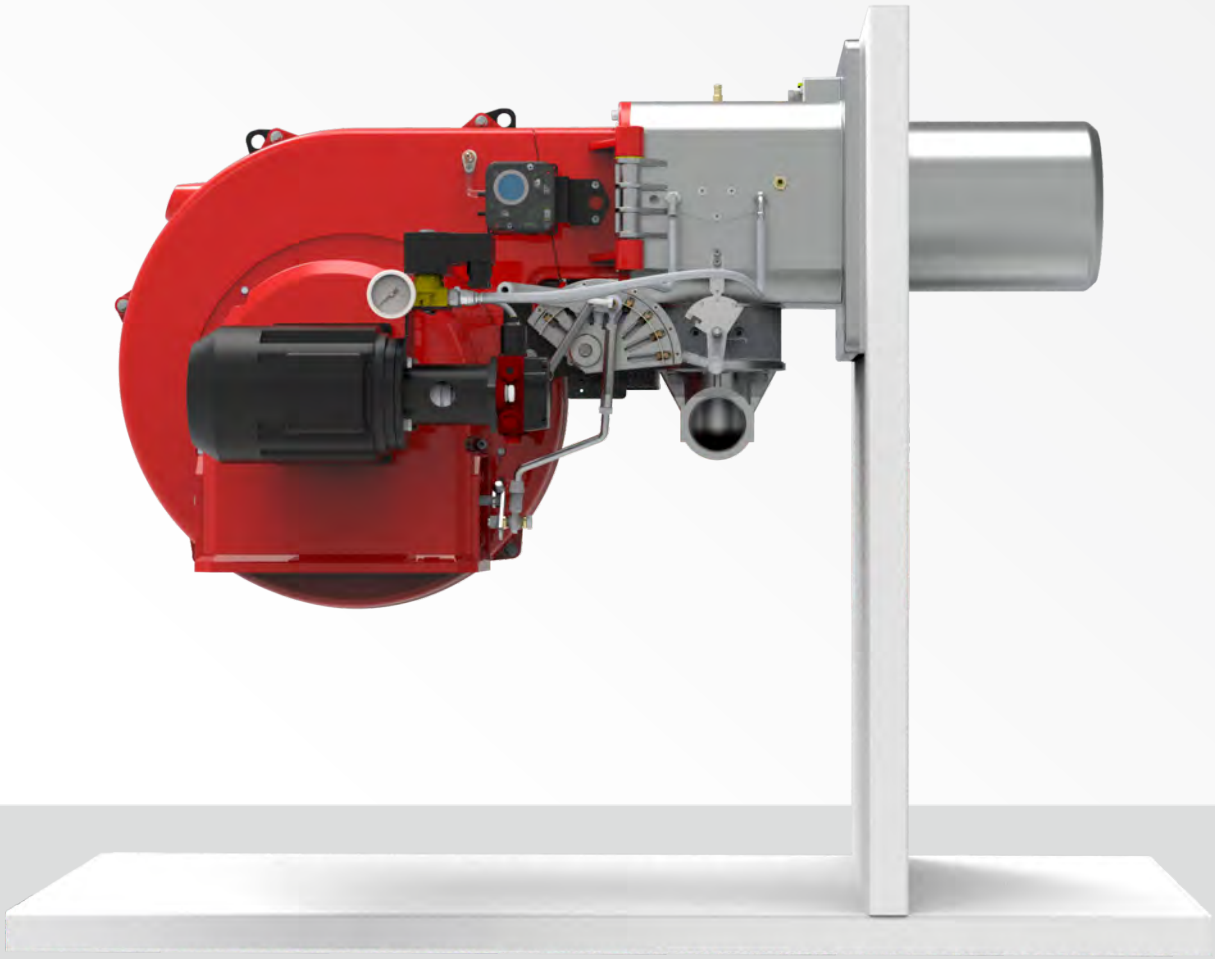
一体式燃气/燃油双燃料燃烧器选型手册
Monoblock Gas /Oil Dual Fuel Burner Catalog

BTN3-1800
48-17500KW

BTN3-1800
Gas&Oil
Dual fuel Burner



Brief Introduction
企业简介

浙江百特燃烧器有限公司于2001年成立是国内集设计、生产、销售于一体的专业化燃烧器制造商，是国内燃烧器同行业中品种多、规格全、技术力量雄厚的热能专业服务厂商。

至今百特燃烧器共生产了70余万台功率从30KW-70000KW范围的各种燃油、燃气、油/气双燃料、重废油燃烧器。所有产品按照国家标准GB/T36699-2018《工业燃油燃气燃烧器通用技术条件》，以及欧洲EN267和EN676标准组织设计、生产、质量控制，并严格按ISO9001：2015国际质量体系贯标运行，产品主要部件配置均采用德国、意大利等著名品牌，每一台出厂的燃烧器都按 TSG Zb001-2008《燃油/气燃烧器安全技术规范》和TSG ZB002-2008《燃油/气燃烧器型式试验规则》标准要求100%进行检测，在燃烧性能、燃烧稳定性、安全性、尾气排放和无故障运行时间等项目指标均达到国际先进水平，先后通过了欧洲CE、BV、IAF、GAS、ETS及中国特种设备检测院CSEI的认证。产品行销世界60多个国家和地区，为世界各地的用户提供优秀的产品和卓越的服务。

百特燃烧器现已拥有16个专利证书，10多种国内外认证证书，20多个系列，上百种燃烧器产品，基本覆盖了传统能源（天然气、油、城市煤气、石油液化气)，非传统能源(焦炉煤气、高炉煤气、发生炉煤气、煤层气、沼气等)的应用范围。产品被广泛用于锅炉、沥青搅拌站、油田、焚烧炉、热风炉、铸造机械、工业窑炉以及其它热能机械配套设备。我们正在成为中国燃烧及节能减排领域的专家，受到了业界和广大工业用户的一致推崇和信赖。

百特燃烧器作为一家以人为本，注重环保，具有高度社会责任感的公司，将一如既往地为您提供高品质的热能解决方案和最优质的服务。

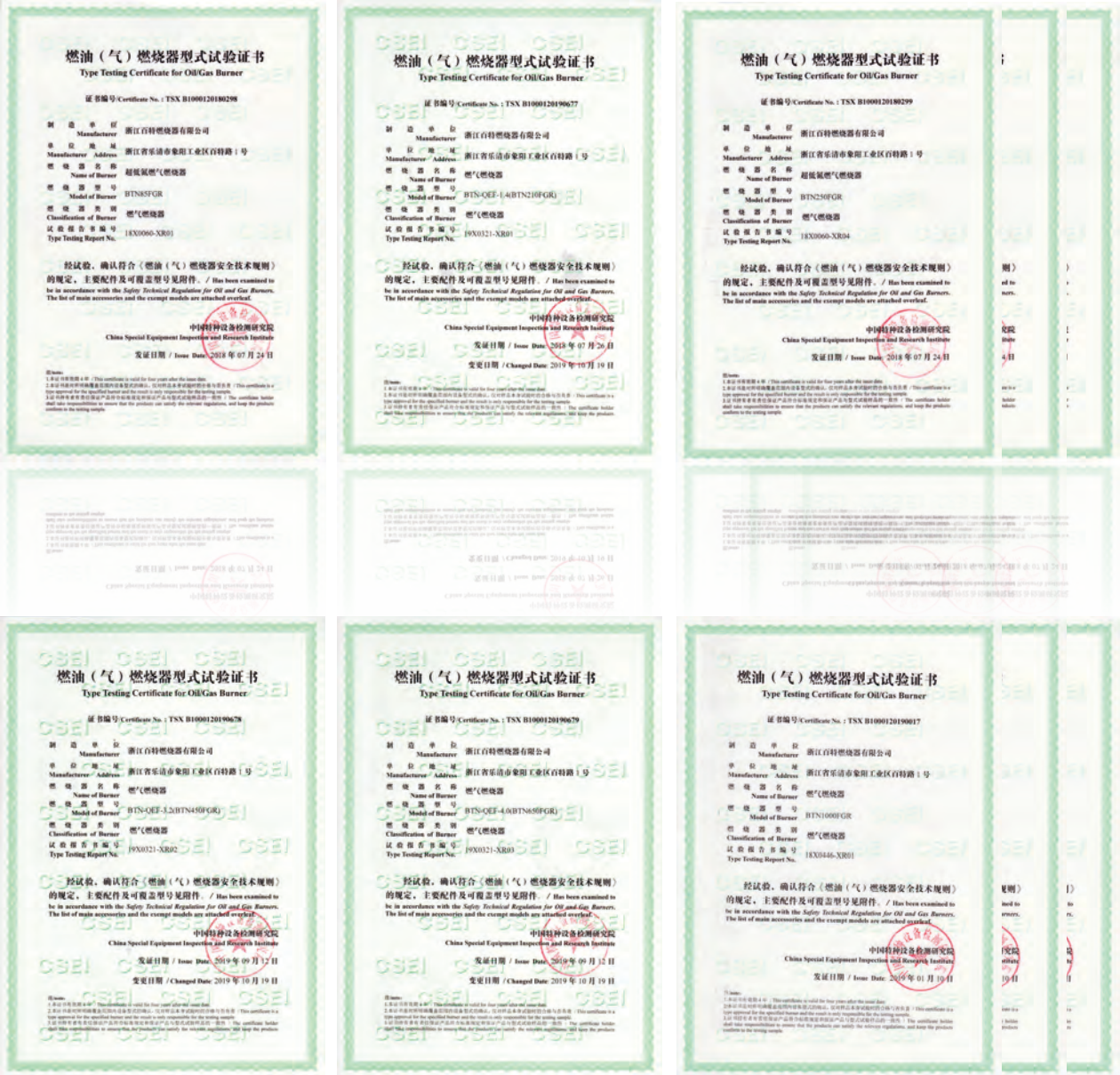
Founded in 2001,BAITE BURNERS is a leading domestic provider of burners.forming an integrated whole industry chain of design,produce ,distribution and sales.and it boasts an extensive business network across over 70 countries and regions as well as more than 100 employees and an annual sales revenue of over USD7.5milion.BAITE BURNERS has core business of burner design, produce,sales and after-sales service .Product range from oil burner ,gas burner, heavy oil heavy burner,dual fuel gas and oil burner and burner spare parts .more than 20 series burners,covering all traditional (natural gas ,oil ,city gas etc) and non traditional source(coke oven gas ,blast furnace gas etc).Have released new product: low NOx emission gas burner ,FGR burner and surface pre-mix gas burner .Burners use pillar spare parts ,like SUNTEC PUMP,DUNGS GAS VALVE and PRESSURE SWITCH,BRAHMA GAS VALVE , DANFOSS NOZZLE ,SIEMENS CONTROLLER etc.Taking the lead in applying I S O 9 0 0 1:2 0 0 8 quality management system.Many products are certified under international certificate,such as CE ,BV,IAF,GAS,ETS. We have already established great business relationship with renowned customers in South East Asia, Middle East, South America, Africa and European etc. We are fully aware of the fact that only "perfect quality and excellent service" can keep us survive and succeed in today's highly competitive market. Hence, we will be with overall technology support, good service to meet the requirements of world. Enquiries from both domestic and overseas customers are cordially welcomed.

Patent Certificate

专利证书

Extremely Low NOx Emission Gas Burner Test Report

超低氮燃烧器测试报告



燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120180298

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：超低氮燃气燃烧器

燃烧器型号 Model of Burner：BTN85FGR

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：18X0060-XR01

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2018 年 07 月 24 日

燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120190677

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：燃气燃烧器

燃烧器型号 Model of Burner：BTN-QEF-1.4(BTN210FGR)

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：19X0321-XR01

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2019 年 07 月 26 日

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燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120180299

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：超低氮燃气燃烧器

燃烧器型号 Model of Burner：BTN250FGR

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：18X0060-XR04

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2018 年 07 月 24 日

燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120190678

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：燃气燃烧器

燃烧器型号 Model of Burner：BTN-QEF-3.2(BTN450FGR)

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：19X0321-XR02

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2019 年 09 月 12 日

变更日期 / Changed Date: 2019 年 10 月 19 日

燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120190679

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：燃气燃烧器

燃烧器型号 Model of Burner：BTN-QEF-4.0(BTN650FGR)

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：19X0321-XR03

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2019 年 09 月 12 日

变更日期 / Changed Date: 2019 年 10 月 19 日

燃油（气）燃烧器型式试验证书

Type Testing Certificate for Oil/Gas Burner

证书编号/Certificate No.：TSX B1000120190017

制造单位 Manufacturer：浙江百特燃烧器有限公司

单位地址 Manufacturer Address：浙江省乐清市象阳工业区百特路1号

燃烧器名称 Name of Burner：燃气燃烧器

燃烧器型号 Model of Burner：BTN1000FGR

燃烧器类别 Classification of Burner：燃气燃烧器

试验报告书编号 Type Testing Report No.：18X0446-XR01

经试验，确认符合《燃油（气）燃烧器安全技术规则》的规定，主要配件及可覆盖型号见附件。/ Has been examined to be in accordance with the *Safety Technical Regulation for Oil and Gas Burners*. The list of main accessories and the exempt models are attached overleaf.

中国特种设备检测研究院 China Special Equipment Inspection and Research Institute

发证日期 / Issue Date: 2019 年 01 月 10 日

目录
Content

产品型号规格定义
Product Model Specification Designation Of Series

1、型号/Model：BT第一代一体式燃烧器/BT 1st monoblock burner　BTZ搅拌站系列燃烧器/BTZ asphalt mix plant burner　BDG高炉煤气燃烧器/BDG blast-furnace gas burner
BTN第二代一体式燃烧器/BT 2nd monoblock burner　BX表面全预混燃烧器/BX surface full premix burner　BDJ发生炉/焦炉煤气燃烧器/BDJ coke oven gas burner
BD分体式燃烧器/BD split burner　BDR分体式火焰可调式燃烧器/BDR split flame adjustable burner

2、出力大小或规格/Capacity or specification：

3、燃料/Fuel：

G	天然气/NG：	HA	辅助雾化重油/Heavy oil with heater
L	柴油/diesel	GH	天然气/重油/NG/Heavy oil
GL	天然气/柴油/NG/diesel	GHA	天然气/辅助雾化重油NG/Heavy oil with heater
H	重油/heavy oil		

4、调节方式 /Adjustment:

Y	单段火(实际型号不用体现）/one stage(no indication in real model)
R	两段火/Two stage
C	机械比调/Mechanical cam
S	三段火/Three stage fire
E	电子比调/Electronic modulation
P	空气 / 燃气阀组比调/Proportional air/gas valve
V	带可变速驱动（带变频器）/With frequency converter

5、排放 /Emission:

C01...	等级/class 1 EN267-EN676
C02 - MZ	等级/class 2 EN267-EN676
C03 - BLU	等级/class 3 EN267-EN676
C04 -	等级/class 3 EN676
C05 - MX	等级/class 2 EN267-等级/class 3EN676

6、燃烧方式/Adjustment：FGR　烟气外循环/Combustion way

7、燃烧头 /Head:

TC	标准燃烧头(实际型号不用体现）/Standard head
TL	加长燃烧头(长度mm)/Long head

8、控制系统 /Controlling system:

PLC	LME22	LOA24	LAL1.25	LMV27	LMV51
BT330	LME11	LMO44	LFL1.322	LMV37	LMV6

9、运行时间 /Flame control system:
FS1 标准运行 (每 24 小时停机 1 次)/FS1 Standard(1 stop every 24h)
FS2 连续运行 (每 72 小时停机 1 次)/FS2 Continuous working(1 stop every 72h)

10、系统电源 /Electrical supply of the system:

3/400/50	3N / 400V / 50Hz
1/230/50	1 / 230V / 50Hz

11、辅助电源电压 /Auxiliary voltage:

230/50/60	230V / 50-60Hz
110/50/60	110V / 50-60Hz

BTN	450	GL	E	C04	FGR	TL			3/400/50	230/50/60
基本型号/BASIC DESIGNATION										
拓展型号/EXTENDED DESIGNATION										

BTN15/20/30GL单段火燃气/轻油双燃料燃烧器

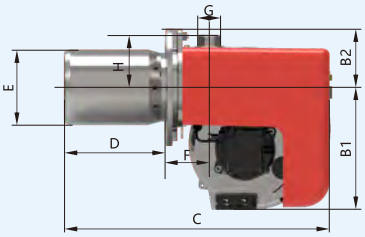
技术性能及结构特征
Technical performance and structural characteristics

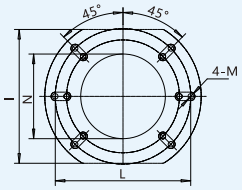
1. 交替工作天然气/轻油双燃料燃烧器。
2. 单段运行（开/关）。
3. 空气和燃气在燃烧头内混合。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须拆掉安装法兰，就可直接拆下燃烧器，维修保养方便。
6. 手动调节空气流量。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9. 耐高温的不锈钢燃烧头火焰盘。
10.单相电机带动风机和油泵。
11.电离电极/光敏电阻检测火焰。
12.标准配置的电气防护等级IP40。
13.塑料保护外罩。

1. Alternate methane gas/light oil 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. Do not need to remove the installation of flange and combustion cylinder,it can be directly removed burner.
6. Manual flow adjustment.
7. Using a flange and high temperature resistant heatinsulation pads connected to the boiler.
8. Combustion air intake with air flow adjustment device.
9. Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
10.Momophase electric motor to run fan and pump.
11.Flame presence check by photoresistance and ionisation electrode.
12.Electrical plant protection rating Ip40
13.Plastic protection cover.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
50~160	BTN15GL	202 23 013	230V 50Hz	0.2	525X365X380	12
60~205	BTN20GL	202 23 014	230V 50Hz	0.2	525X365X380	12
100~280	BTN30GL	202 23 015	230V 50Hz	0.25	525X365X380	12.5

外观尺寸图
Overall dimensions





锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	Φmm
BTN15GL	157	137	204	98	438	162	114	72	G1″	144	195-220	160-190	124
BTN20GL	157	137	204	98	445	169	125	72	G1″	144	195-220	160-190	135
BTN30GL	157	137	204	98	445	169	125	72	G1″	144	195-220	160-190	135

BTN15/20/30GL
One Stage Light Oil &Gas Dual Fuel Burner

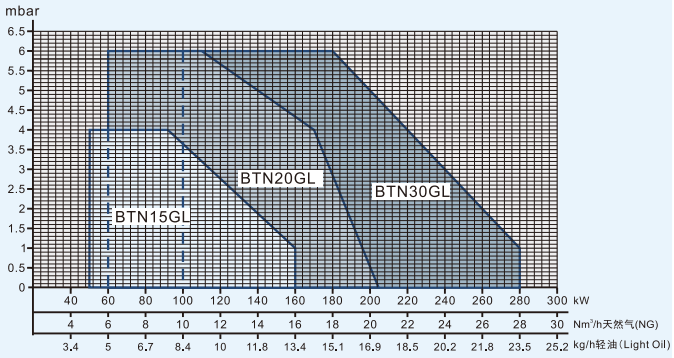
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

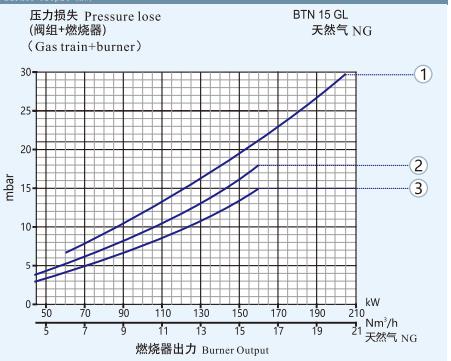
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲 线 图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

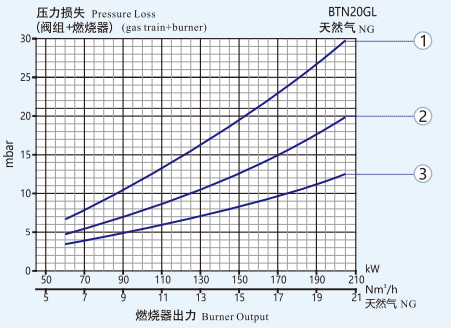


BTN15GL

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVDLE210/5-RC1"	222 25 355	-	360	QF1
① QF-MB-DLE405 B01 S20-RC1"	222 25 653	-	360	QF3
② QF-MB-DLE407 B01 S20-RC1"	222 25 654	-	360	QF3
③ QF-MB-DLE410 B01 S20-RC1"	222 25 655	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)

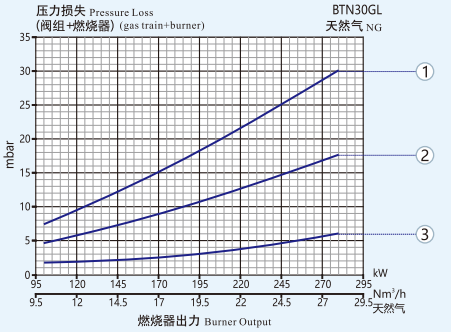


BTN20GL

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
② QF-MVDLE207/5-RC1"	222 25 354	-	360	QF1
③ QF-MVDLE210/5-RC1"	222 25 355	-	360	QF1
① QF-MB-DLE405 B01 S20-RC1"	222 25 653	-	360	QF3
② QF-MB-DLE407 B01 S20-RC1"	222 25 654	-	360	QF3
③ QF-MB-DLE410 B01 S20-RC1"	222 25 655	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN30GL

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
② QF-MVDLE207/5-RC1"	222 25 354	-	360	QF1
③ QF-MVDLE210/5-RC1"	222 25 355	-	360	QF1
① QF-MB-DLE405 B01 S20-RC1"	222 25 653	-	360	QF3
② QF-MB-DLE407 B01 S20-RC1"	222 25 654	-	360	QF3
③ QF-MB-DLE410 B01 S20-RC1"	222 25 655	-	360	QF3

BTN40/55GL/GLR单段火燃气/轻油双燃料燃烧器

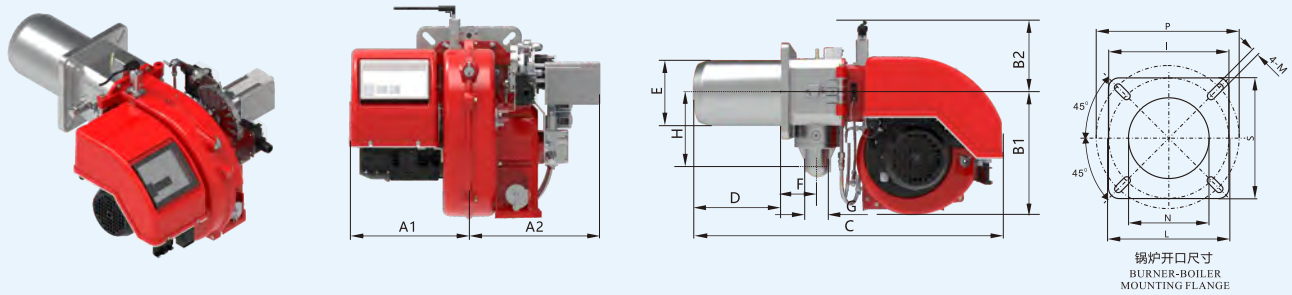
技术性能及结构特征
Technical performance and structural characteristics

1. 交替工作天然气/轻油双燃料燃烧器。
2. 单段运行（开/关）。
3. 空气和燃气在燃烧头内混合。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式链接，可左右自然打开，维修保养方便。
6. 伺服电机调节空气流量。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9. 燃烧器空气进口采用消音设计。
10.耐高温的不锈钢燃烧头火焰盘。
11.三相电机带动风机和油泵。
12.电离电极/光敏电阻检测火焰。
13.标准配置的电气防护等级IP40。
14.塑料保护外罩。

1. Alternate natural gas/light oil burner.
2. One 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. Hinged connection, can control the natural open, maintenance is convenient.
6. Servo motor to adjust the air flow.
7. Using a flange and high temperature resistant heatinsulation pads connected to the boiler.
8. Combustion air intake with air flow adjustment device.
9. Burner air inlet with mute design.
10.Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
11.Three-phase motor drives the fan and pump.
12.Flame presence check by photoresistance and ionisation electrode.
13.Electrical plant protection rating Ip40
14.Plastic protection cover.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
70~390	BTN40GL BTN40GLR	202 23 017 202 23 023	230V 50Hz	0.45	645X600X472	45
101~550	BTN55GL BTN55GLR	202 23 018 202 23 024	230V 50Hz	0.45	645X600X472	46

外观尺寸图
Overall dimensions



型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N	P	S
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm
BTN40GL/GLR	253	276	297	154	693	210	160	77	G1½"	177	220	218	4-M10	170	260	220
BTN55GL/GLR	253	276	297	154	693	210	160	77	G1½"	177	220	218	4-M10	170	260	220

BTN40/55GL/GLR
Two-Stage Light Oil & Gas Dual Burners

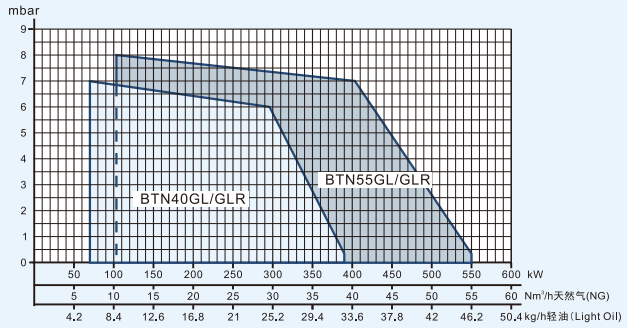
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

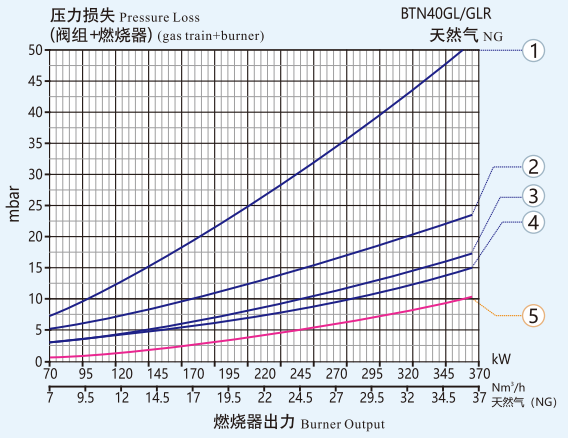
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲 线 图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

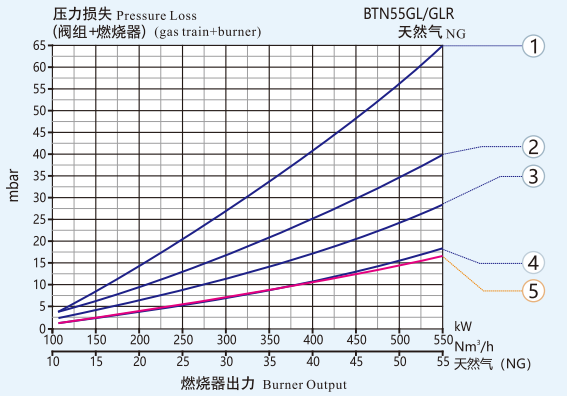


BTN40GL/GLR

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
② QF-MVDLE210/5-RC1 1/2"	222 25 357	-	360	QF1
④ QF-MVDLE215/5-RC1 1/2"	222 25 358	-	200	QF1
⑤ QF-MVDLE220/5-RC1 1/2"	222 25 359	-	200	QF1
① QF-MB-DLE407 B01 S20-RC1 1/2"	222 25 656	-	360	QF3
② QF-MB-DLE410 B01 S20-RC1 1/2"	222 25 657	-	360	QF3
③ QF-MB-DLE412 B01 S20-RC1 1/2"	222 25 658	-	360	QF3
④ QF-MB-DLE415 B01 S20-RC1 1/2"	222 25 659	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN55GL/GLR

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
② QF-MVDLE210/5-RC1 1/2"	222 25 357	-	360	QF1
④ QF-MVDLE215/5-RC1 1/2"	222 25 358	-	200	QF1
⑤ QF-MVDLE220/5-RC1 1/2"	222 25 359	-	200	QF1
① QF-MB-DLE407 B01 S20-RC1 1/2"	222 25 656	-	360	QF3
② QF-MB-DLE410 B01 S20-RC1 1/2"	222 25 657	-	360	QF3
③ QF-MB-DLE412 B01 S20-RC1 1/2"	222 25 658	-	360	QF3
④ QF-MB-DLE415 B01 S20-RC1 1/2"	222 25 659	-	360	QF3

BTN85/120/150GLR双段火燃气/轻油双燃料燃烧器

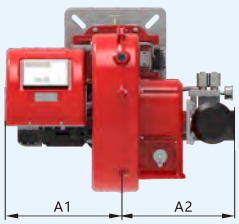
技术性能及结构特征
Technical performance and structural characteristics

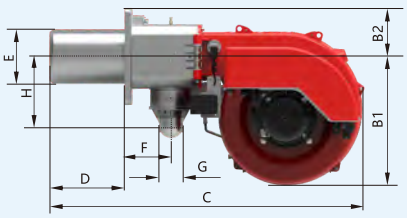
1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段运行（大/小火）。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 伺服电机调节空气流量。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9. 燃烧器空气进口采用消音设计。
10.带有不锈钢喷嘴和火焰扩散盘的钢质可调节燃烧头。
11.两个三相电机，一个带动风机，另一个带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

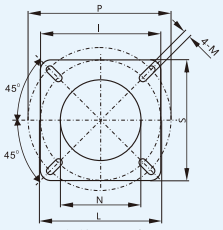
1. Alternate natural gas/light oil burner.
2. Two−stage operation (high/low flame).
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Hinged connection, can control the natural open, maintenance is convenient.
6. Servo motor to adjust the air flow.
7. Using a flange and high temperature resistant heatinsulation pads connected to the boiler.
8. Combustion air intake with air flow adjustment device.
9. Burner air inlet with mute design.
10.Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
11.Two three-phase motor, a drive fan motor , a driving oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
238~820	BTN85GLR	202 23 025	380V 50Hz	1.1+0.37	1000x1010x755	84
348~1165	BTN120GLR	202 23 026	380V 50Hz	1.5+0.37	1000x1010x755	87
368~1400	BTN150GLR	202 23 027	380V 50Hz	2.2+0.37	1000x1010x755	90

外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N	P	S
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm
BTN85GLR	355	394	428	160	1042	250	180	151	G2"	231	320	290	4-M16	170	260	220
BTN120GLR	355	452	428	160	1042	250	180	151	G2"	231	320	290	4-M16	170	260	220
BTN150GLR	355	452	428	160	1072	280	190	151	G2"	231	320	290	4-M16	200	370	320

BTN85/120/150GLR
Two-Stage Light Oil & Gas Dual Burners

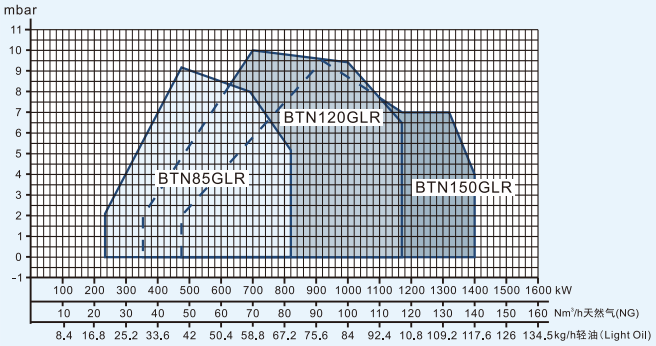
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

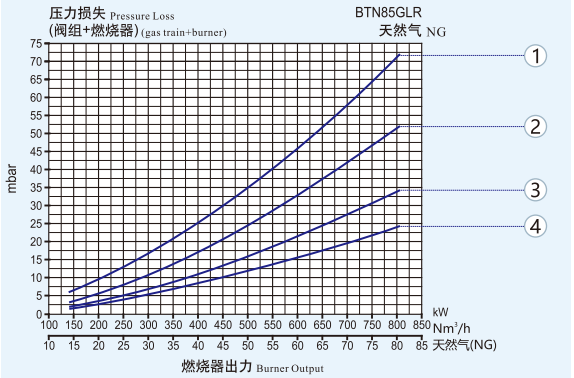
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲 线 图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

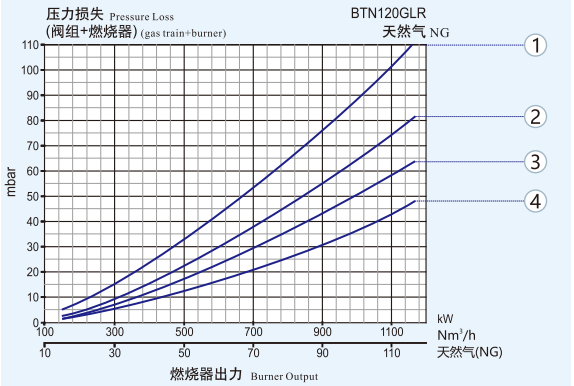


BTN85GLR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)

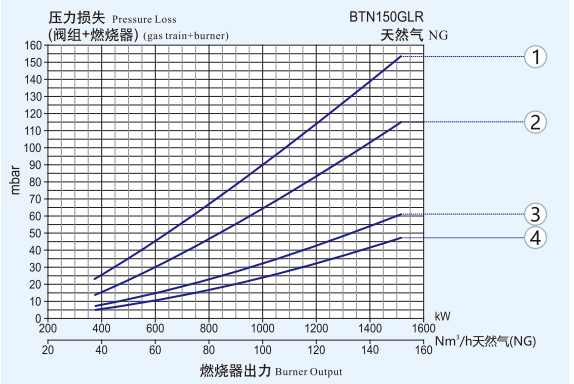


BTN120GLR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN150GLR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	300	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	300	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	300	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	300	QF3

BTN210/250GLR双段火燃气/轻油双燃料燃烧器

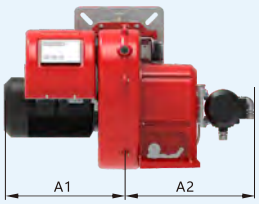
技术性能及结构特征
Technical performance and structural characteristics

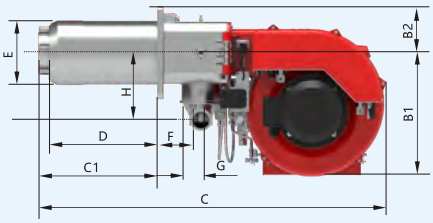
1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段运行（大/小火）。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 伺服电机调节空气流量。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9. 燃烧器空气进口采用消音设计。
10.带有不锈钢喷嘴和火焰扩散盘的钢质可调节燃烧头。
11.两个三相电机，一个带动风机，另一个带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

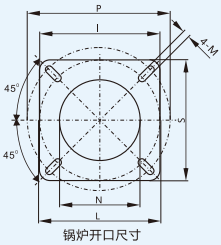
1. Alternate natural gas/light oil burner.
2. Two−stage operation (high/low flame).
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Hinged connection, can control the natural open, maintenance is convenient.
6. Servo motor to adjust the air flow.
7. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
8. Combustion air intake with air flow adjustment device.
9. Burner air inlet with mute design.
10.Adjustable blast-pipe with stainless steel nozzle and deflector disk in steel.
11.Two three-phase motor, a drive fan motor , a driving oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
560~2180	BTN210GLR	202 23 028	380V 50Hz	4.5+0.55	1000x1010x755	99
560~2460	BTN250GLR	202 23 029	380V 50Hz	5.5+0.55	1000x1010x755	135

外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	P	S
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm
BTN210GLR	390	488	428	160	1205	412	346	222	151	G2"	231	320	290	4-M16	232	370	320
BTN250GLR	445	488	428	160	1205	412	346	222	151	G2"	231	320	290	4-M16	232	370	320

BTN210/250GLR
Two-Stage Light Oil & Gas Dual Burners

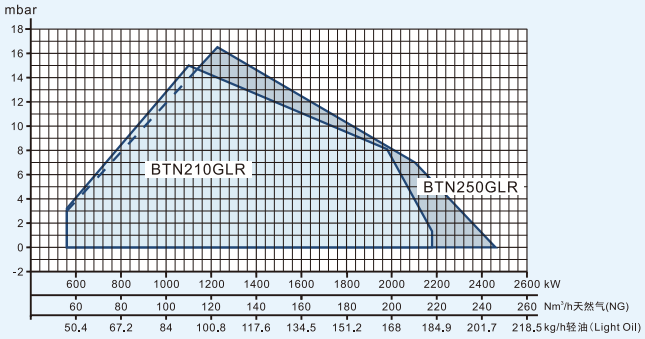
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

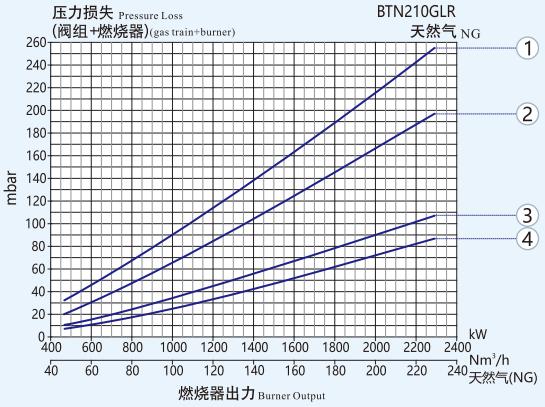
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲 线 图 Curve diagram

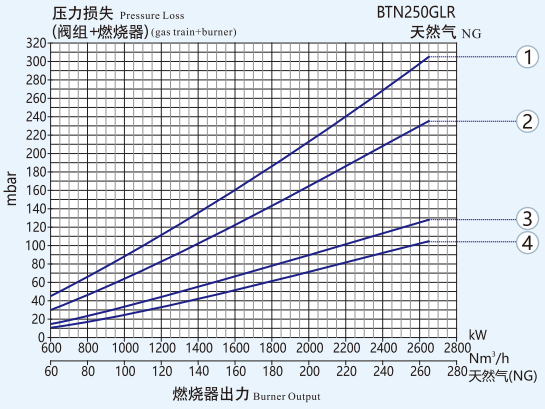
锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN210GLR				
曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN250GLR				
曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

BTN350-450GLC/GLE
渐进式 / 比例调节 / 电子比调式轻油 / 燃气双燃料燃烧器

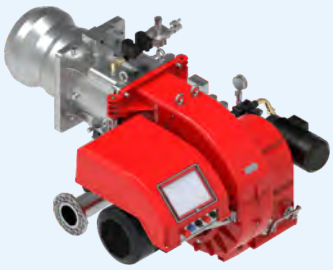
技术性能及结构特征
Technical performance and structural characteristics

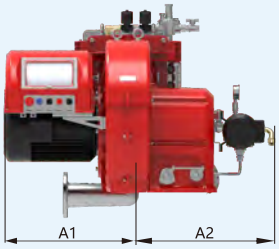
1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下混合装置和雾化装置，维修保养方便。
6. 渐进/比例式用伺服电动机来进行第一、二段最小和最大空气流量调节；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用两个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9.带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

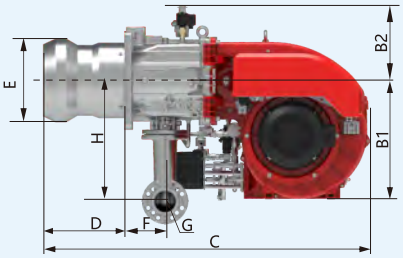
1. Alternate natural gas/light oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating minimum and maximum air flowregulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent motor drives oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

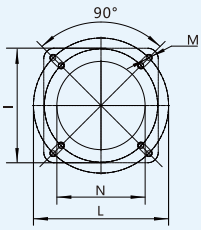
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~3600	BTN350GLC BTN350GLE	203 23 089 202 23 078	380V 50Hz	7.5+1.5	/	/
640~4200	BTN450GLC BTN450GLE	202 23 086 202 23 081	380V 50Hz	9.2+1.5	/	/

外观尺寸图
Overall dimensions









锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN350GLC	555	661	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN350GLE	555	661	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN450GLC	555	661	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN450GLE	555	661	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350

BTN350-450GLC/GLE MODULATION/Electronic Modulation Dual Fuel Gas And Light Oil Burner

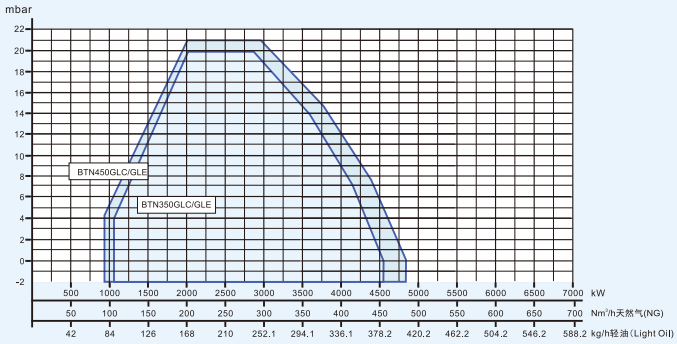
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

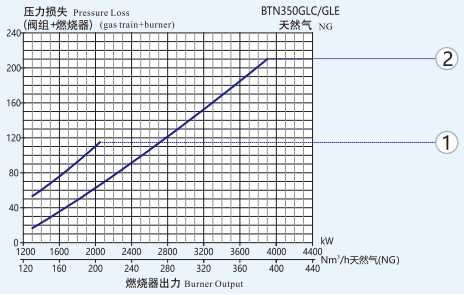
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

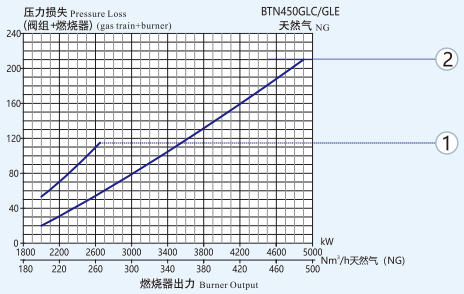
锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN350GLC/GLE 曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD220/5+MVDLE220/5-DN65	222 25 454	-	200	QF2
② QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
② QF-DMV-D5065/11-LDU-DN65	222 25 145	-	560	QF1
① QF-MB-DLE420 B01 S20-RC2"	222 25 233	-	700	QF4
② QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN450GLC/GLE 曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD220/5+MVDLE220/5-DN65	222 25 454	-	200	QF2
② QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
② QF-DMV-D5065/11-LDU-DN65	222 25 145	-	560	QF1
① QF-MB-DLE420 B01 S20-RC2"	222 25 233	-	700	QF4
② QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

BTN550-650GLC/GLE
渐进式 / 比例调节 / 电子比调式轻油 / 燃气双燃料燃烧器

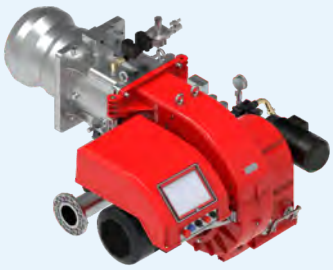
技术性能及结构特征
Technical performance and structural characteristics

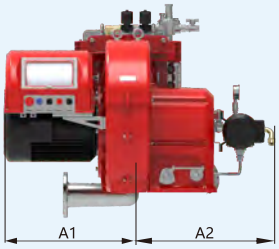
1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下混合装置和雾化装置，维修保养方便。
6. 渐进/比例式用伺服电动机来进行第一、二段最小和最大空气流量调节；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9.带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

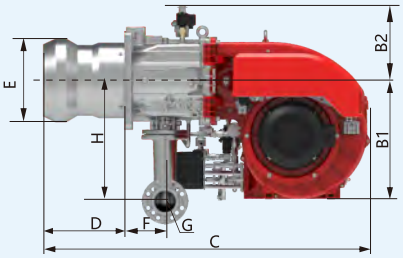
1. Alternate natural gas/light oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating minimum and maximum air flowregulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent motor drives oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

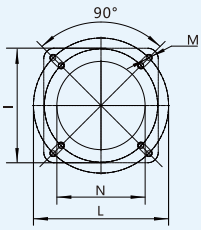
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~5170	BTN550GLC BTN550GLE	203 23 090 202 23 080	380V 50Hz	12+1.5	/	/
1000~6155	BTN650GLC BTN650GLE	202 23 087 202 23 082	380V 50Hz	15+1.5	/	/

外观尺寸图
Overall dimensions









锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN550GLC	583	661	519	335	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN550GLE	583	661	519	335	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN650GLC	583	661	519	335	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN650GLE	583	330	519	335	1434	358	365	178	DN65	528	400	452	4-M16	375

BTN550-650GLE/GLC MODULATION/Electronic Modulation Dual Fuel Gas And Light Oil Burner

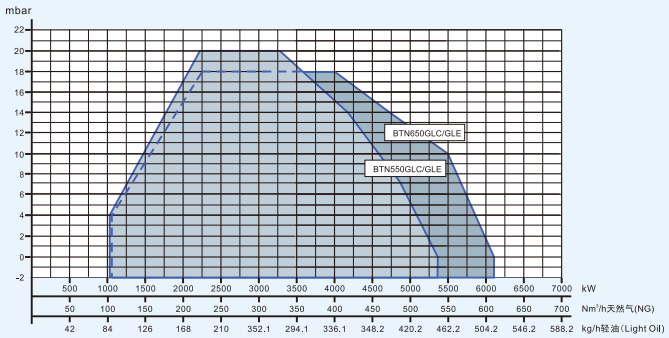
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

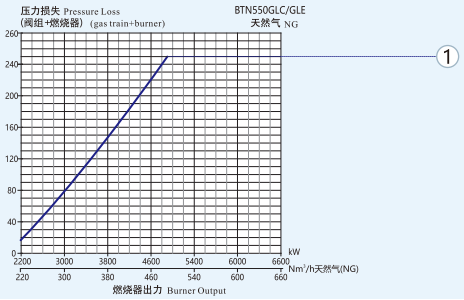
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

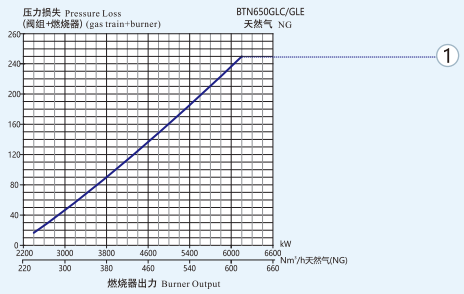


BTN550GLC/GLE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
① QF-DMV-D5065/11-LDU-DN65	222 25 145	GW150A5	500	QF1
① QF-VGD40.065-DN65	222 25 233	-	700	QF4
① QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN650GLC/GLE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
① QF-DMV-D5065/11-LDU-DN65	222 25 145	GW150A5	500	QF1
① QF-VGD40.065-DN65	222 25 233	-	700	QF4
① QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

BTN800-1000GLC/GLE
渐进式 / 比例调节 / 电子比调式轻油 / 燃气双燃料燃烧器

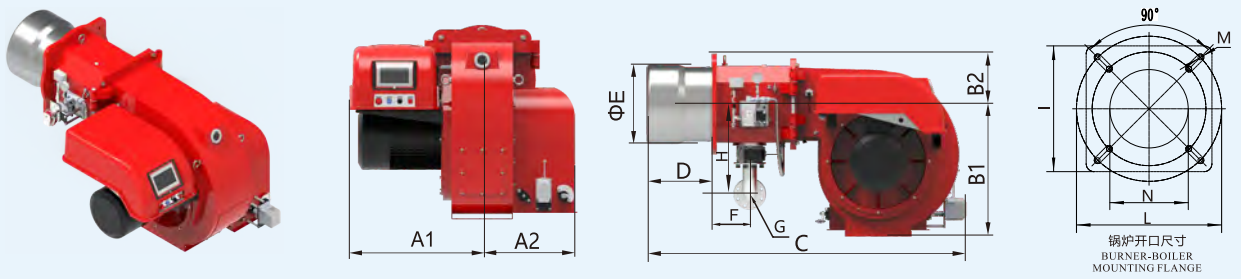
技术性能及结构特征
Technical performance and structural characteristics

1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下混合装置和雾化装置，维修保养方便。
6. 渐进/比例式用伺服电动机来进行第一、二段最小和最大空气流量调节；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

1. Alternate natural gas/light oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating minimum and maximum air flowregulation for first and second stage by means of electric servomotor with pause closure of gate to prevent any heat dispersion to flue.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent motor drives oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
800~7400	BTN800GLC BTN800GLE	202 23 062 202 23 074	380V 50Hz	18.5+3	/	/
1000~10500	BTN1000GLC BTN1000GLE	202 23 063 202 23 075	380V 50Hz	22+3	/	/

外观尺寸图
Overall dimensions



型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN800GLC	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN800GLE	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN1000GLC	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN1000GLE	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490

BTN800-1000GLC/GLE MODULATION/Electronic Modulation Dual Fuel Gas And Light Oil Burner

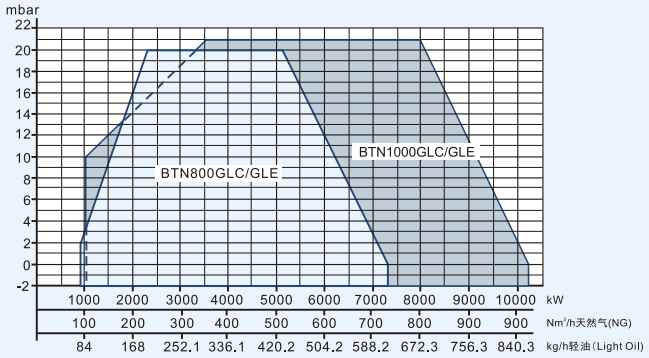
备选功能
Alternative function

加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

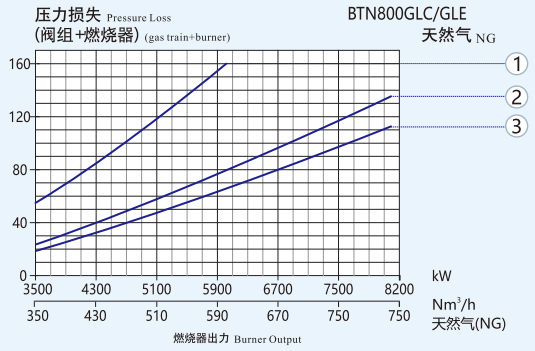
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲 线 图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

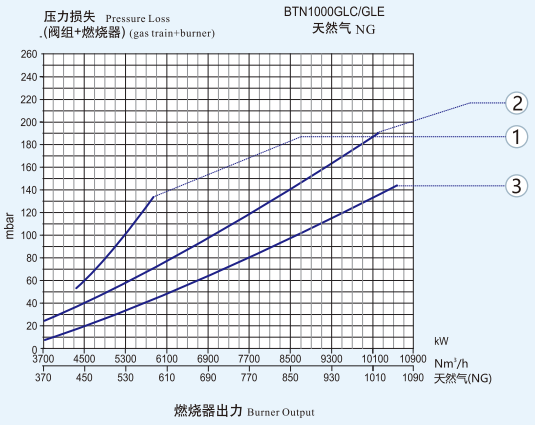


BTN800GLC/GLE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN80	222 25 130	-	500	QF5
① QF-DMV-D5065/11-LDU-DN80	222 25 147	GW150A5	500	QF5
② QF-VGD40.080-DN80	222 25 237	-	700	QF4
② QF-VGD40.080-LDU-DN80	222 25 254	GW150A5	700	QF4
③ QF-VGD40.100-DN80	222 25 240	-	700	QF4
③ QF-VGD40.100-LDU-DN80	222 25 257	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1000GLC/GLE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN80	222 25 130	-	500	QF5
① QF-DMV-D5065/11-LDU-DN80	222 25 147	GW150A5	500	QF5
② QF-VGD40.080-DN80	222 25 237	-	700	QF4
② QF-VGD40.080-LDU-DN80	222 25 254	GW150A5	700	QF4
③ QF-VGD40.100-DN80	222 25 240	-	700	QF4
③ QF-VGD40.100-LDU-DN80	222 25 257	GW150A5	700	QF4

BTN1200-1800GLC/GLE

渐进式 / 比例调节 / 电子比调式轻油 / 燃气双燃料燃烧器

技术性能及结构特征

Technical performance and structural characteristics

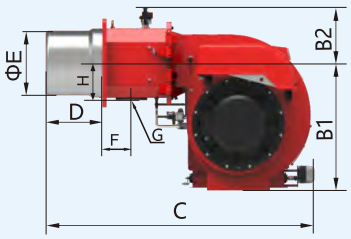
1. 交替工作天然气/轻油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下混合装置和雾化装置，维修保养方便。
6. 渐进/比例式用伺服电动机来进行第一、二段最小和最大空气流量调节；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

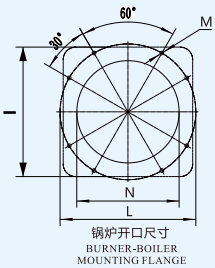
1. Alternate methane gas/light oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating 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.
7. Electronic proportional Using three-phase servomotor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent motor drives oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
1400~12000	BTN1200GLC BTN1200GLE	202 23 064 202 23 076	380V 50Hz	37+4	/	/
1715~14000	BTN1500GLC BTN1500GLE	202 23 065 202 23 077	380V 50Hz	45+4	/	/
2500~17500	BTN1800GLC BTN1800GLE	202 23 091 202 23 092	380V 50Hz	55+4	/	/

外观尺寸图

Overall dimensions





型号 model	A1	A2	B1	B2	C	D	E	F	G	H	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	Φmm	M	Φmm
BTN1200GLC	825	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1200GLE	825	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1500GLC	835	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1500GLE	835	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1800GLC	905	585	1012	350	2283	599	590	230	DN 125	614	735	8-M20	620
BTN1800GLE	905	585	1012	350	2283	599	590	230	DN 125	614	735	8-M20	620

BTN1200-1800GLC/E MODULATION/Electronic Modulation Dual Fuel Gas And Light Oil Burner

备选功能
Alternative function

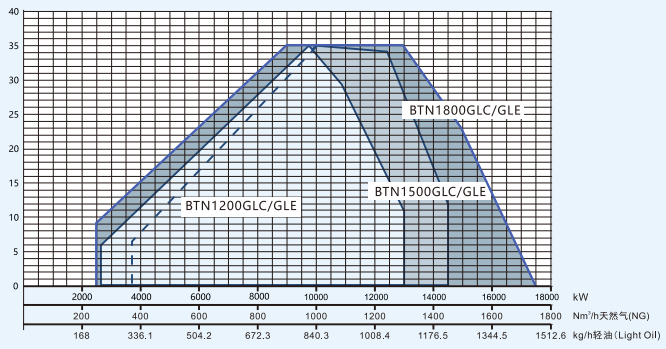
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

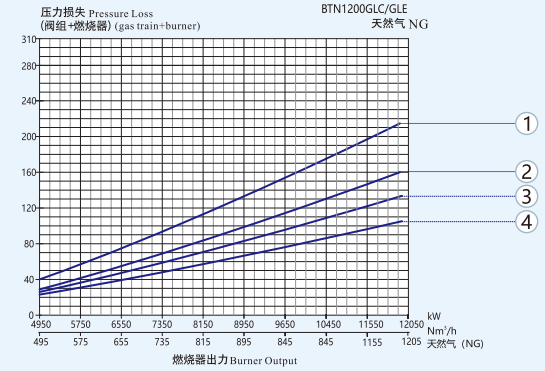
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

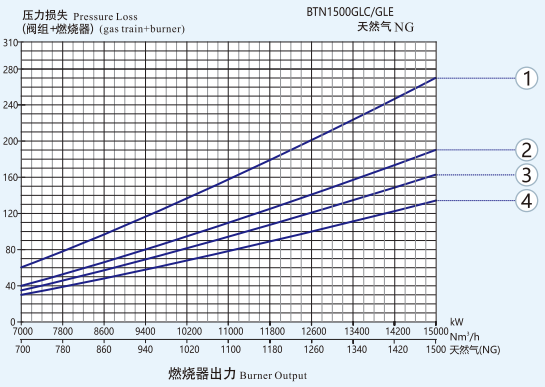


BTN1200GLC/GLE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)

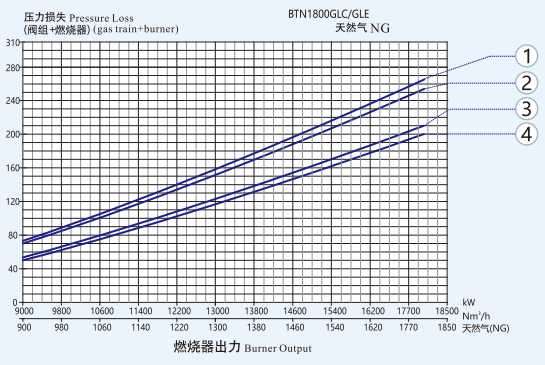


BTN1500GLC/GLE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1800GC/E

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

BTN85-250GLE BLU
电子比调式轻油 / 燃气双燃料低氮燃烧器

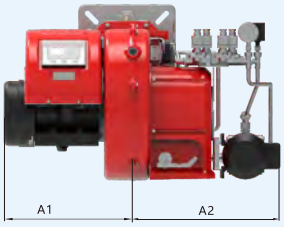
技术性能及结构特征
Technical performance and structural characteristics

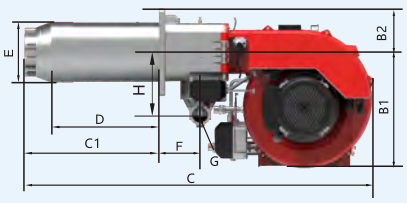
1. 交替工作天然气/轻油双燃料低氮燃烧器。
2. 电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 电子式用两个伺服电动机分别控制燃气、燃油和空气的比例调节。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9.燃烧器空气进口采用消音设计。
10.耐高温的不锈钢燃烧头火焰盘。
11.独立电机带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

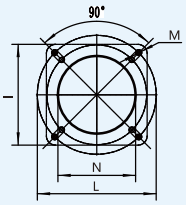
1. Alternate natural gas/light oil burner.
2. Electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Electronic proportional Using three-phase servomotor respectively to control ratio adjustion among gas ,oil and air.
7. Hinged connection, can be opened naturally, easy maintenance.
8. Combustion air intake with air flow adjustment device.
9.Burner air inlet with mute design.
10.High temperature resistant stainless steel disc burner flame.
11.Independent motor drives oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
150~860	BTN85GLE BLU	203 23 172	380V 50Hz	1.5+0.55	/	/
300~1300	BTN120GLE BLU	203 23 173	380V 50Hz	2.2+0.55	/	/
300~1860	BTN210GLE BLU	203 23 174	380V 50Hz	4.5+0.75	/	/
570~2400	BTN250GLE BLU	203 23 175	380V 50Hz	5.5+0.75	/	/

外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN85 GLE BLU	355	460	430	160	1190	396	335	190	151	G2"	231	320	290-370	4-M16	200
BTN120 GLE BLU	355	460	430	160	1190	396	335	190	151	G2"	231	320	290-370	4-M16	200
BTN210 GLE BLU	355	510	430	160	1290	497	400	190	151	G2"	231	320	290-370	4-M16	200
BTN250 GLE BLU	355	510	430	160	1290	497	400	190	151	G2"	231	320	290-370	4-M16	200

BTN85-250GLE BLU
Electronic Modulation Light Oil &Gas Burner

备选功能
Alternative function

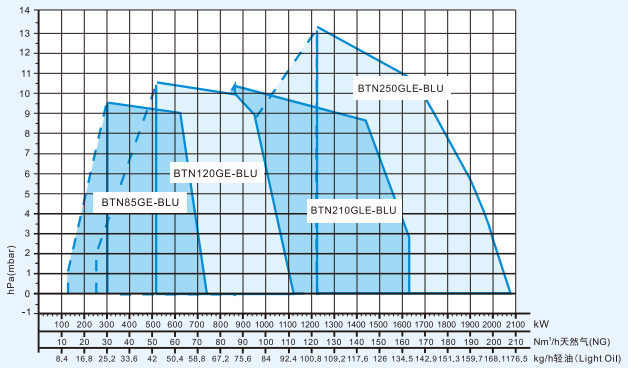
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

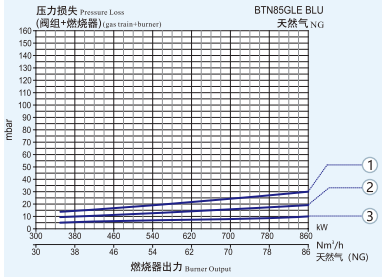
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph

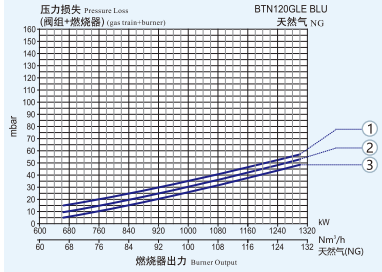


曲线图 Curve diagram

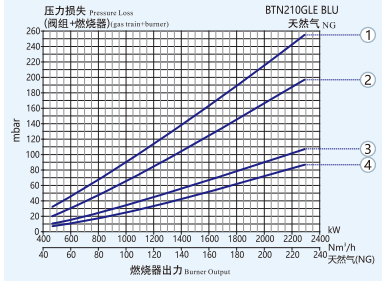
锅炉燃烧器功率(kW)
Burner Output (kW)



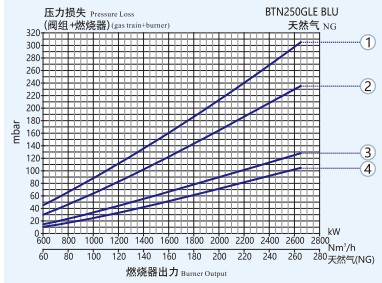
锅炉燃烧器功率(kW)
Burner Output (kW)



锅炉燃烧器功率(kW)
Burner Output (kW)



锅炉燃烧器功率(kW)
Burner Output (kW)



BTN85GLE BLU

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D525/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D525/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

BTN120GLE BLU

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D525/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D525/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

BTN210GLE BLU

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

BTN250GLE BLU

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
③ QF-MVD215/5+MVDLE215/5-RC2"	222 25 451	-	200	QF2
④ QF-MVD220/5+MVDLE220/5-RC2"	222 25 452	-	200	QF2
① QF-MB-DLE410 B01 S20-RC2"	222 25 660	-	360	QF3
② QF-MB-DLE412 B01 S20-RC2"	222 25 661	-	360	QF3
③ QF-MB-DLE415 B01 S20-RC2"	222 25 662	-	360	QF3
④ QF-MB-DLE420 B01 S20-RC2"	222 25 663	-	360	QF3

BTN350/450/550/650GLE BLU
电子比调式轻油 / 燃气双燃料低氮燃烧器

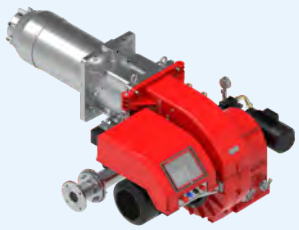
技术性能及结构特征
Technical performance and structural characteristics

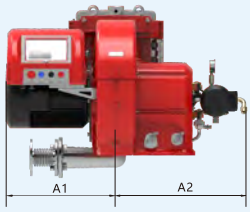
1. 交替工作天然气/轻油双燃料低氮燃烧器。
2. 电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 电子式用两个伺服电动机分别控制燃气、燃油和空气的比例调节。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9.燃烧器空气进口采用消音设计。
10.耐高温的不锈钢燃烧头火焰盘。
11.独立电机带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

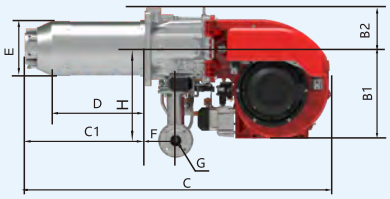
1. Alternate methane gas/light oil burner.
2. Electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Electronic proportional Using three-phase servomotor respectively to control ratio adjustion among gas ,oil and air.
7. Hinged connection, can be opened naturally, easy maintenance.
8. Combustion air intake with air flow adjustment device.
9.Burner air inlet with mute design.
10.High temperature resistant stainless steel disc burner flame.
11.Independent motor drives oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

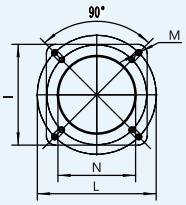
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~3600	BTN350GLE BLU	203 23 176	380V 50Hz	7.5+1.5	/	/
640~4200	BTN450GLE BLU	203 23 177	380V 50Hz	9.2+1.5	/	/
600~5170	BTN550GLE BLU	203 23 178	380V 50Hz	12+1.5	/	/
1000~6155	BTN650GLE BLU	203 23 179	380V 50Hz	15+1.5	/	/

外观尺寸图
Overall dimensions









锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN350 GLE BLU	556	823	519	239	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350
BTN450 GLE BLU	556	823	519	239	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350
BTN550 GLE BLU	583	823	519	239	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350
BTN650 GLE BLU	583	823	519	239	1775	700	534	336	178	DN65	528	400	452	4-M16	350

BTN350/450/550/650GLE BLU Electronic Modulation Light Oil& Gas Burner

备选功能
Alternative function

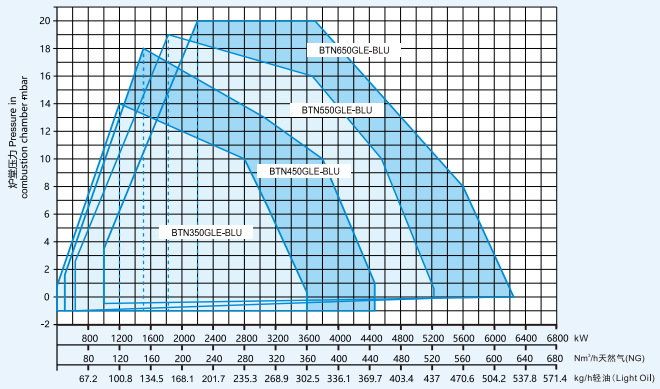
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

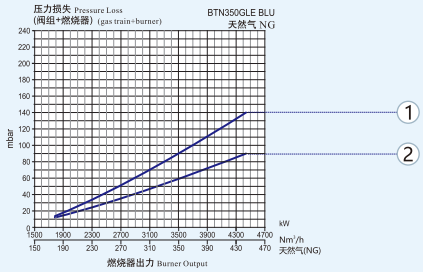
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

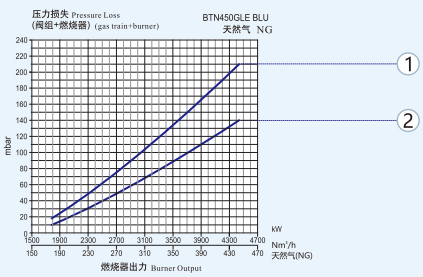


BTN350GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)

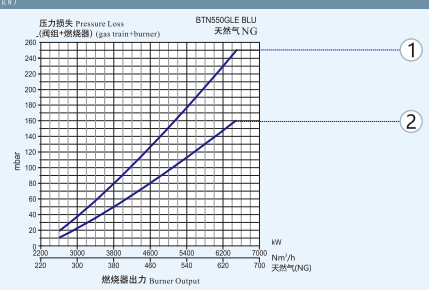


BTN450GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)

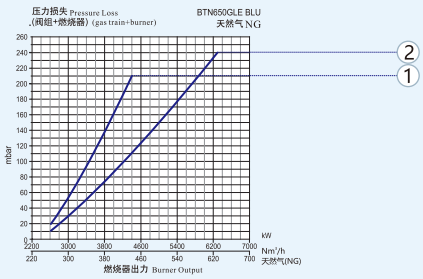


BTN550GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN650GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

BTN800-1000GLE BLU
电子比调式轻油 / 燃气双燃料低氮燃烧器

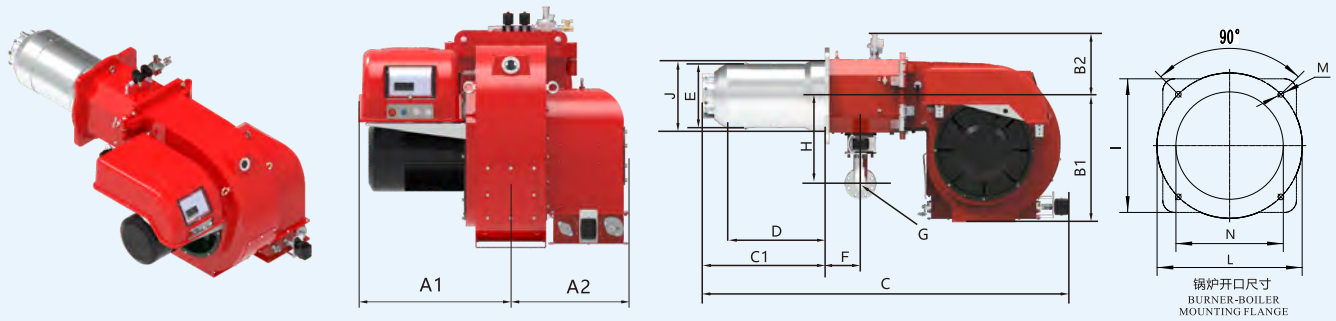
技术性能及结构特征
Technical performance and structural characteristics

1. 交替工作天然气/轻油双燃料低氮燃烧器。
2. 电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 电子式用两个伺服电动机分别控制燃气、燃油和空气的比例调节。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9.燃烧器空气进口采用消音设计。
10.耐高温的不锈钢燃烧头火焰盘。
11.独立电机带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

1. Alternate methane gas/light oil burner.
2. Electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Electronic proportional Using three-phase servomotor respectively to control ratio adjustion among gas ,oil and air.
7. Hinged connection, can be opened naturally, easy maintenance.
8. Combustion air intake with air flow adjustment device.
9.Burner air inlet with mute design.
10.High temperature resistant stainless steel disc burner flame.
11.Independent motor drives oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
1505~8750	BTN800GLE BLU	203 23 180	380V 50Hz	18.5+3	/	/
1505~10900	BTN1000GLE BLU	203 23 181	380V 50Hz	22+3	/	/

外观尺寸图
Overall dimensions



型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	J
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm
BTN800 GLE BLU	757	585	802	398	2340	797	624	413	226	DN80	556	560	608	4-M20	490	448
BTN1000 GLE BLU	757	585	802	398	2340	797	624	413	226	DN80	556	560	608	4-M20	490	448

BTN800-1000GLE BLU Sliding/Modulating/ Electronic Proportional Light Oil &Gas Burner

备选功能
Alternative function

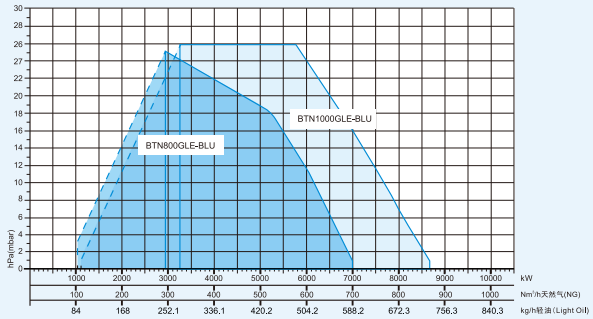
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

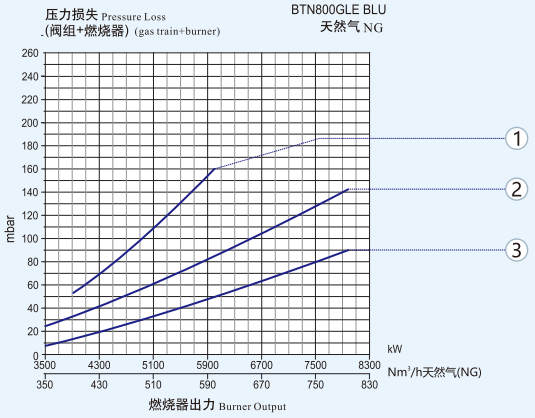
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

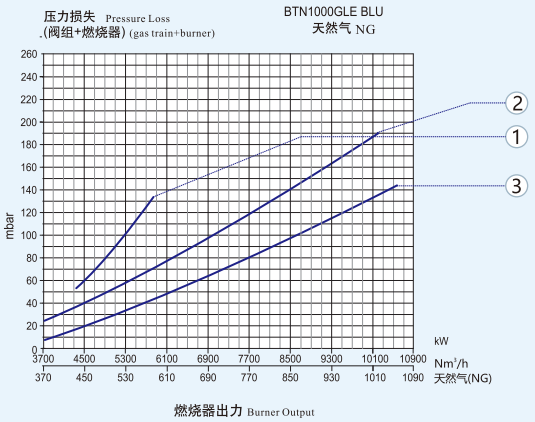
锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN800GLE BLU 曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DW-DN80	222 25 187	GW150A5	500	QF5
① QF-DMV-D5065/11-PLC-DN80	222 25 215	GW150A5	500	QF5
② QF-DMV-D5080/11-DW-DN80	222 25 192	GW150A5	500	QF5
② QF-DMV-D5080/11-PLC-DN80	222 25 225	GW150A5	500	QF5
③ QF-DMV-D5100/11-DW-DN80	222 25 195	GW150A5	500	QF5
③ QF-DMV-D5100/11-PLC-DN80	222 25 228	GW150A5	500	QF5
① QF-VGD40.065-DW-DN80	222 25 265	GW150A5	700	QF6
① QF-VGD40.065-PLC-DN80	222 25 279	GW150A5	700	QF6
② QF-VGD40.080-DW-DN80	222 25 268	GW150A5	700	QF6
② QF-VGD40.080-PLC-DN80	222 25 282	GW150A5	700	QF6
③ QF-VGD40.100-DW-DN80	222 25 271	GW150A5	700	QF6
③ QF-VGD40.100-PLC-DN80	222 25 285	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)



天然气 natural gas

BTN1000GLE BLU 曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DW-DN80	222 25 187	GW150A5	500	QF5
① QF-DMV-D5065/11-PLC-DN80	222 25 215	GW150A5	500	QF5
② QF-DMV-D5080/11-DW-DN80	222 25 192	GW150A5	500	QF5
② QF-DMV-D5080/11-PLC-DN80	222 25 225	GW150A5	500	QF5
③ QF-DMV-D5100/11-DW-DN80	222 25 195	GW150A5	500	QF5
③ QF-DMV-D5100/11-PLC-DN80	222 25 228	GW150A5	500	QF5
① QF-VGD40.065-DW-DN80	222 25 265	GW150A5	700	QF6
① QF-VGD40.065-PLC-DN80	222 25 279	GW150A5	700	QF6
② QF-VGD40.080-DW-DN80	222 25 268	GW150A5	700	QF6
② QF-VGD40.080-PLC-DN80	222 25 282	GW150A5	700	QF6
③ QF-VGD40.100-DW-DN80	222 25 271	GW150A5	700	QF6
③ QF-VGD40.100-PLC-DN80	222 25 285	GW150A5	700	QF6

BTN1200-1800GLE BLU
电子比调式轻油 / 燃气双燃料低氮燃烧器

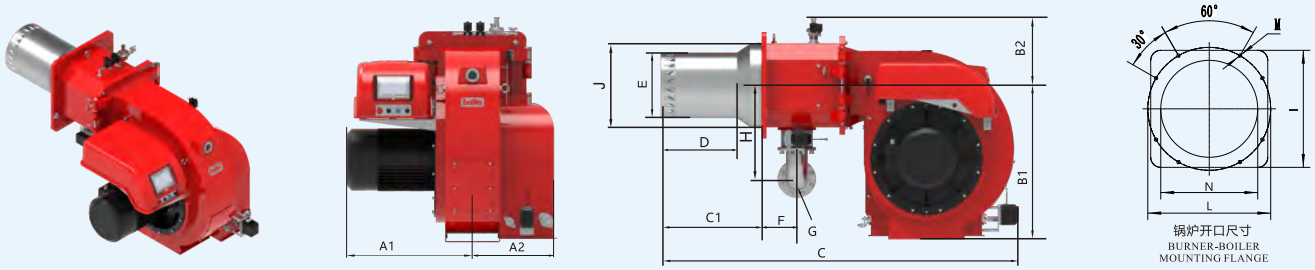
技术性能及结构特征
Technical performance and structural characteristics

1. 交替工作天然气/轻油双燃料低氮燃烧器。
2. 电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 铰链式连接，可左右自然打开，维修保养方便。
6. 电子式用两个伺服电动机分别控制燃气、燃油和空气的比例调节。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 带流量调节装置的燃烧空气进口。
9.燃烧器空气进口采用消音设计。
10.耐高温的不锈钢燃烧头火焰盘。
11.独立电机带动油泵。
12.UV紫外线光电管检测火焰。
13.标准配置的电气防护等级IP40。

1. Alternate methane gas/light oil burner.
2. Electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the mixing unit and the atomisation unit can be removed without having to remove the burner from the boiler.
6. Electronic proportional Using three-phase servomotor respectively to control ratio adjustion among gas ,oil and air.
7. Hinged connection, can be opened naturally, easy maintenance.
8. Combustion air intake with air flow adjustment device.
9.Burner air inlet with mute design.
10.High temperature resistant stainless steel disc burner flame.
11.Independent motor drives oil pump.
12.UV ultraviolet phototube detects flame.
13.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
1715~12000	BTN1200GLE BLU	203 23 182	380V 50Hz	37+4	/	/
1715~14000	BTN1500GLE BLU	203 23 183	380V 50Hz	45+4	/	/
2500~17500	BTN1800GLE BLU	203 23 184	380V 50Hz	55+4	/	/

外观尺寸图
Overall dimensions



型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	J
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm
BTN1200 GLE BLU	825	585	1012	440	2350	663	569	430	230	DN125	614	700	735	8-M16	580	544
BTN1500 GLE BLU	835	585	1012	440	2540	853	561	544	230	DN125	614	700	735	8-M16	580	544
BTN1800 GLE BLU	905	585	1012	445	2540	853	561	590	230	DN125	614	700	735	8-M16	620	544

BTN1200-1800GLE BLU Electronic Modulation Light Oil & Gas Burner

备选功能
Alternative function

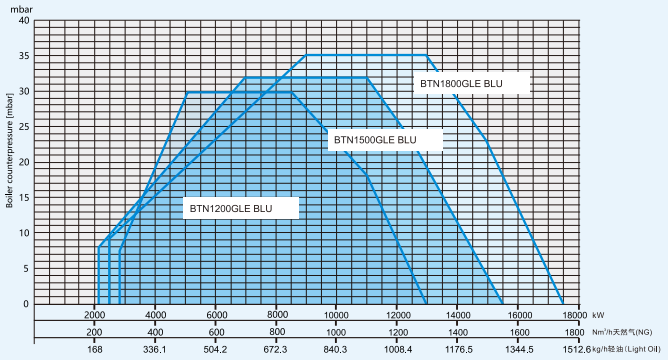
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

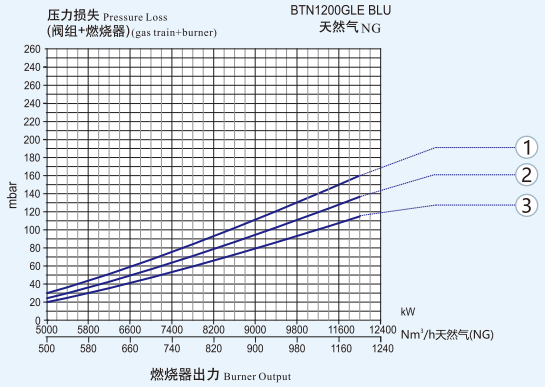
* 配有空气关闭装置
* It is with air closure device.

* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



锅炉燃烧器功率(kW)
Burner Output (kW)

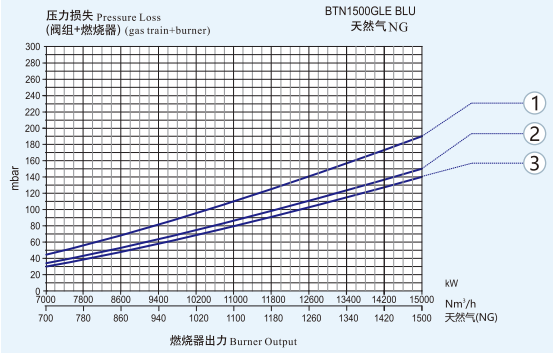


BTN1200GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)

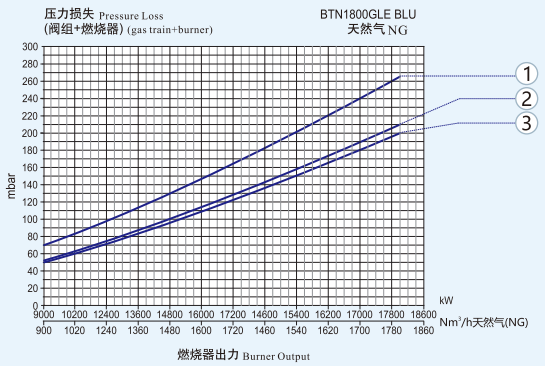


BTN1500GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1800GLE BLU

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

BTN85/120GLE FGR
电子比调式轻油 /燃气双燃料烟气外循环超低氮燃烧器

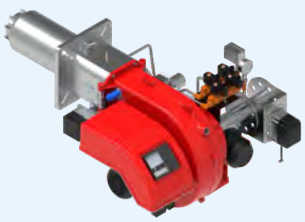
技术性能及结构特征
Technical performance and structural characteristics

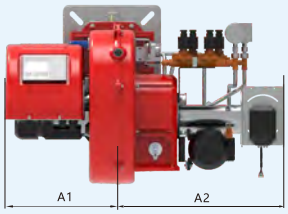
1. 交替工作天然气/轻油双燃料y烟气外循环超低氮燃烧器。
2. 空气和燃气在燃烧头内混合，机械式压力雾化。
3. 数字燃烧器管理系统，电子比例式运行。
4. 烟气外循环系统，将部分烟气与助燃空气混合后送至燃烧室助燃，混合后的助燃风可以降低燃烧室内的温度和氧量浓度，有效抑制NOx的生成。
5. 多个喷管，分散式燃烧，防止火焰过于集中造成高氧化反应。
6. 采用三个伺服电机，分别精确控制助燃风量、燃气量、烟气量的配比。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 三相电机带动风机。
9. 紫外线光电管检测火焰。
10.独立电机带动油泵。
11.标准配置的电气防护等级IP40。

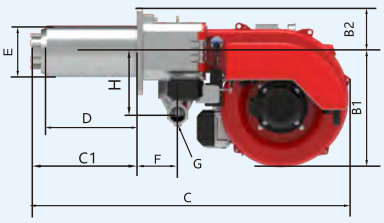
1. Natural gas/light oil dual fuel extremely NOx emission burner ,work alternately.
2. Mix air and gas in burner head ,mechanical pressure atomization.
3. Digital management system ,electronic modulation operation.
4. FGR system ,make part flue and supporting combustion air mixing ,then drive to combustion chamber .itcould reduce temperation and O2 content .limit the NOx comes out.
5. Multi pipe ,decentralized burning .avoid of high oxidation reaction.
6. It uses 3pcs servo motors ,control supporting air ,gas flow and flue ratio accuately.
7. Use one flange and gasket connecting with boiler.
8. 3phases motor.
9. Ultraviolet ray photocell detects the flame.
10. Separate motor drives the pump.
11. IP40.

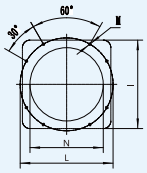
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
238~820	BTN85 GLE FGR	202 23 093	380V 50Hz	1.5+0.55	/	/
348~1165	BTN120 GLE FGR	202 23 084	380V 50Hz	2.2+0.55	/	/

外观尺寸图
Overall dimensions

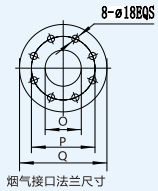








锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE



烟气接口法兰尺寸
Flue gas inlet flange

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm	Φmm
BTN85GLE FGR	355	545	430	160	1190	396	335	190	151	G2"	231	320	290-370	4-M16	200	DN80	160	220
BTN120GLE FGR	355	545	430	160	1190	396	335	190	151	G2"	231	320	290-370	4-M16	200	DN80	160	220

BTN85/120GLE FGR Electronic Modulation Light Oil&Gas FGR Burner

备选功能
Alternative function

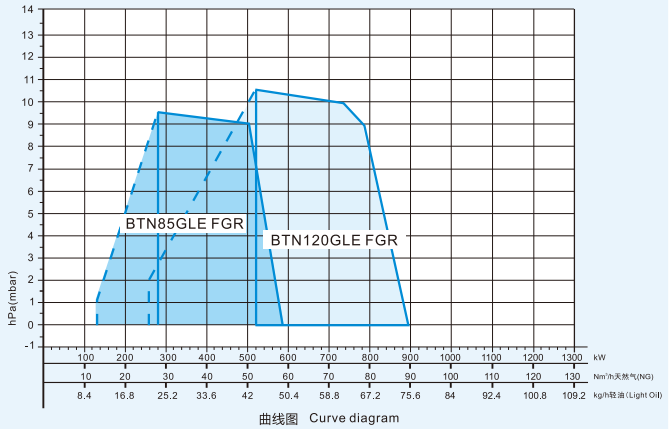
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

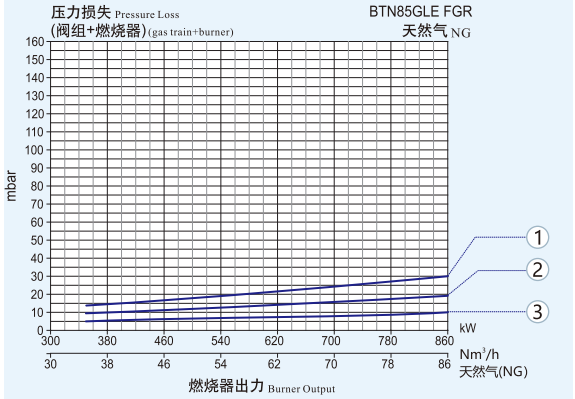
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

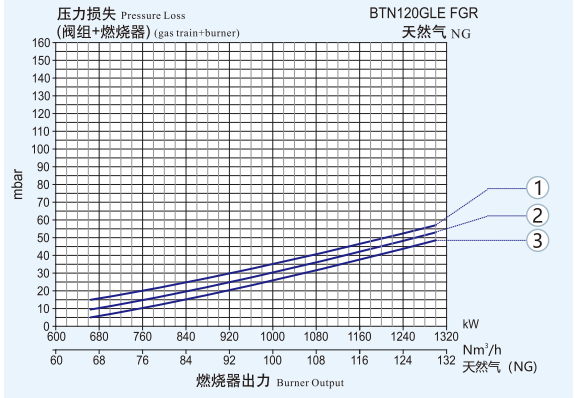


BTN85GLE FGR

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D525/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D525/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN120GLE FGR

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D525/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D525/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

BTN210/250GLE FGR
电子比调式轻油 /燃气双燃料烟气外循环超低氮燃烧器

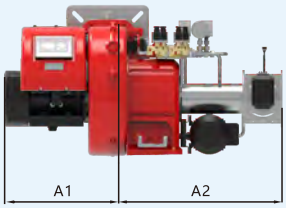
技术性能及结构特征
Technical performance and structural characteristics

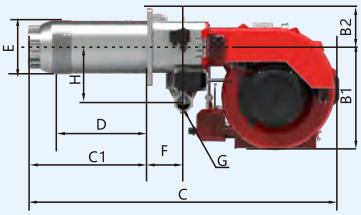
1. 交替工作天然气/轻油双燃料烟气外循环超低氮燃烧器。
2. 空气和燃气在燃烧头内混合，机械式压力雾化。
3. 数字燃烧器管理系统，电子比例式运行。
4. 烟气外循环系统，将部分烟气与助燃空气混合后送至燃烧室助燃，混合后的助燃风可以降低燃烧室内的温度和氧量浓度，有效抑制NOx的生成。
5. 多个喷管，分散式燃烧，防止火焰过于集中造成高氧化反应。
6. 采用三个伺服电机，分别精确控制助燃风量、燃气量、烟气量的配比。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 三相电机带动风机。
9. 紫外线光电管检测火焰。
10.独立电机带动油泵。
11.标准配置的电气防护等级IP40。

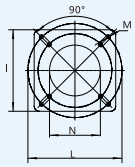
1. Natural gas/light oil dual fuel extremely NOx emission burner ,work alternately.
2. Mix air and gas in burner head ,mechanical pressure atomization.
3. Digital management system ,electronic modulation operation.
4. FGR system ,make part flue and supporting combustion air mixing ,then drive to combustion chamber .itcould reduce temperation and O2 content .limit the NOx comes out.
5. Multi pipe ,decentralized burning .avoid of high oxidation reaction.
6. It uses 3pcs servo motors ,control supporting air ,gas flow and flue ratio accuately.
7. Use one flange and gasket connecting with boiler.
8. 3phases motor.
9. Ultraviolet ray photocell detects the flame.
10. Separate motor drives the pump.
11. IP40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
300~1488	BTN210 GLE FGR	203 23 185	380V 50Hz	4.5+0.75	/	/
570~1920	BTN250 GLE FGR	203 23 166	380V 50Hz	5.5+0.75	/	/

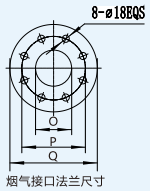
外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE



烟气接口法兰尺寸
Flue gas inlet flange

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm	Φmm
BTN210GLE FGR	403	681	428	160	1290	497	400	222	151	G2"	231	320	290-370	4-M16	233	DN100	180	220
BTN250GLE FGR	403	681	428	160	1290	497	400	222	151	G2"	231	320	290-370	4-M16	233	DN100	180	220

BTN210/250GLE FGR Electronic Modulation FGR Light Oil& Gas FGR Burner

备选功能
Alternative function

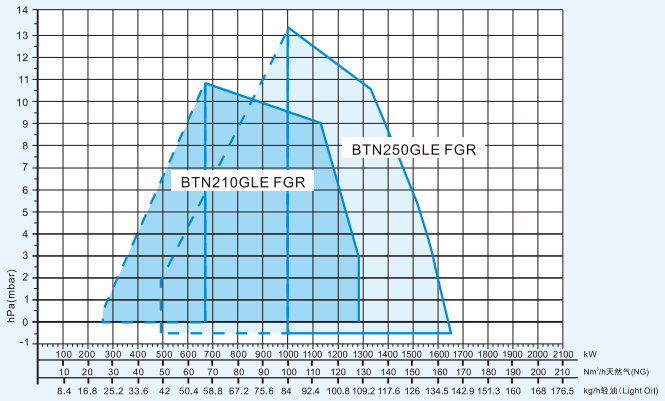
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

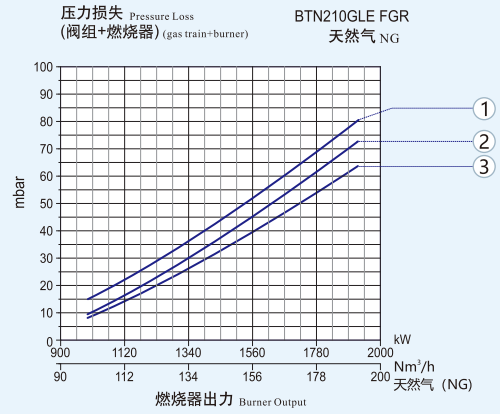
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

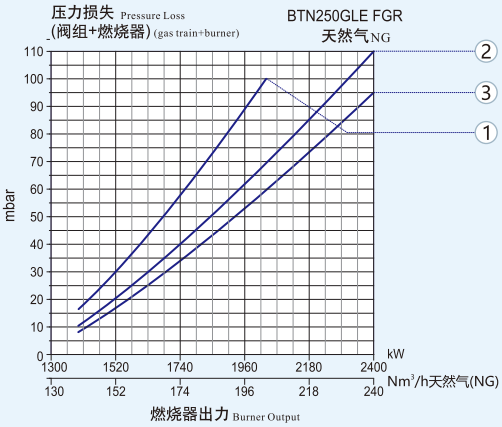


BTN210GLE FGR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D550/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D550/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN250GLE FGR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD215/5+MVDLE215/5-DW-RC2"	222 25 456	GW50A6	200	QF7
① QF-MVD215/5+MVDLE215/5-PLC-RC2"	222 25 482	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-DW-RC2"	222 25 457	GW50A6	200	QF7
② QF-MVD220/5+MVDLE220/5-PLC-RC2"	222 25 485	GW50A6	200	QF7
② QF-DMV-D520/11-DW-RC2"	222 25 175	GW50A5	500	QF5
② QF-DMV-D520/11-PLC-RC2"	222 25 207	GW50A5	500	QF5
③ QF-DMV-D525/11-DW-RC2"	222 25 177	GW50A5	500	QF5
③ QF-DMV-D525/11-PLC-RC2"	222 25 209	GW50A5	500	QF5

BTN350-650GLE FGR
电子比调式轻油 /燃气双燃料烟气外循环超低氮燃烧器

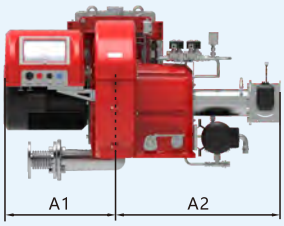
技术性能及结构特征
Technical performance and structural characteristics

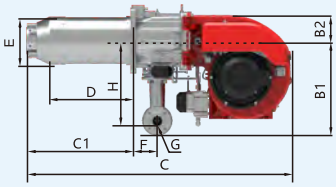
1. 交替工作天然气/轻油双燃料烟气外循环超低氮燃烧器。
2. 空气和燃气在燃烧头内混合，机械式压力雾化。
3. 数字燃烧器管理系统，电子比例式运行。
4. 烟气外循环系统，将部分烟气与助燃空气混合后送至燃烧室助燃，混合后的助燃风可以降低燃烧室内的温度和氧量浓度，有效抑制NOx的生成。
5. 多个喷管，分散式燃烧，防止火焰过于集中造成高氧化反应。
6. 采用三个伺服电机，分别精确控制助燃风量、燃气量、烟气量的配比。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 三相电机带动风机。
9. 紫外线光电管检测火焰。
10.独立电机带动油泵。
11.标准配置的电气防护等级IP40。

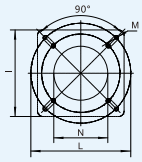
1. Natural gas/light oil dual fuel extremely NOx emission burner ,work alternately.
2. Mix air and gas in burner head ,mechanical pressure atomization.
3. Digital management system ,electronic modulation operation.
4. FGR system ,make part flue and supporting combustion air mixing ,then drive to combustion chamber .itcould reduce temperation and O2 content .limit the NOx comes out.
5. Multi pipe ,decentralized burning .avoid of high oxidation reaction.
6. It uses 3pcs servo motors ,control supporting air ,gas flow and flue ratio accuately.
7. Use one flange and gasket connecting with boiler.
8. 3phases motor.
9. Ultraviolet ray photocell detects the flame.
10. Separate motor drives the pump.
11. IP40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~3600	BTN350 GLE FGR	203 23 186	380V 50Hz	7.5+1.5	/	/
640~4200	BTN450 GLE FGR	203 23 187	380V 50Hz	9.2+1.5	/	/
600~5170	BTN550 GLE FGR	203 23 188	380V 50Hz	12+1.5	/	/
1000~6155	BTN650 GLE FGR	203 23 189	380V 50Hz	15+1.5	/	/

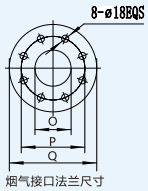
外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE



烟气接口法兰尺寸
Flue gas inlet flange

型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	L	M	N	O	P	Q
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm	Φmm	Φmm	Φmm
BTN350GLE FGR	556	823	519	335	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350	DN100	180	220
BTN450GLE FGR	556	823	519	335	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350	DN100	180	220
BTN550GLE FGR	583	823	519	335	1775	700	534	312.5	178	DN65	528	400	452	4-M16	350	DN125	210	255
BTN650GLE FGR	583	823	519	335	1775	700	545	336	178	DN65	528	400	452	4-M16	350	DN150	240	285

BTN350-650GLE FGR Electronic Modulation FGR Light Oil& Gas FGR Burner

备选功能
Alternative function

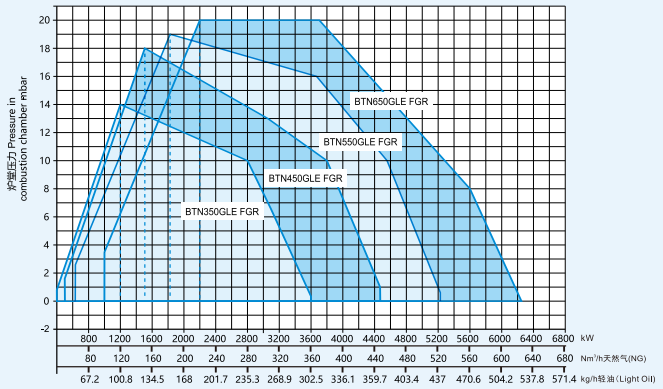
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

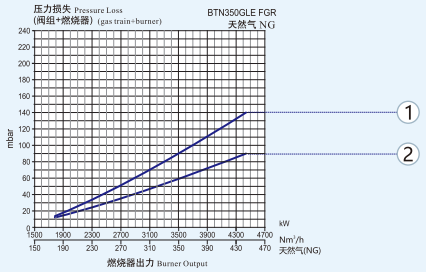
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph

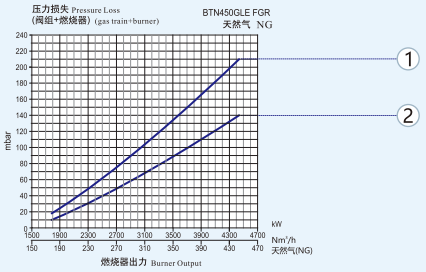


曲线图 Curve diagram

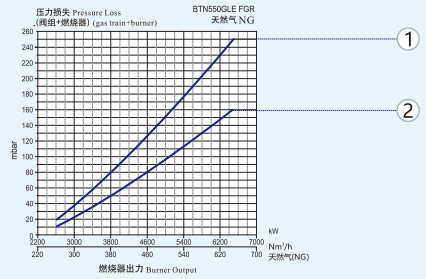
锅炉燃烧器功率(kW)
Burner Output (kW)



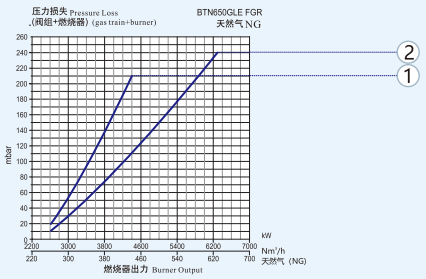
锅炉燃烧器功率(kW)
Burner Output (kW)



锅炉燃烧器功率(kW)
Burner Output (kW)



锅炉燃烧器功率(kW)
Burner Output (kW)



BTN350GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

BTN450GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

BTN550GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

BTN650GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5065/11-DW-DN65	222 25 185	GW150A5	500	QF5
①	QF-DMV-D5065/11-PLC-DN65	222 25 213	GW150A5	500	QF5
②	QF-DMV-D5080/11-DW-DN65	222 25 191	GW150A5	500	QF5
②	QF-DMV-D5080/11-PLC-DN65	222 25 219	GW150A5	500	QF5
①	QF-VGD40.065-DW-DN65	222 25 264	GW150A5	700	QF6
①	QF-VGD40.065-PLC-DN65	222 25 278	GW150A5	700	QF6
②	QF-VGD40.080-DW-DN65	222 25 267	GW150A5	700	QF6

BTN800-1000GLE FGR
电子比调式轻油 /燃气双燃料烟气外循环超低氮燃烧器

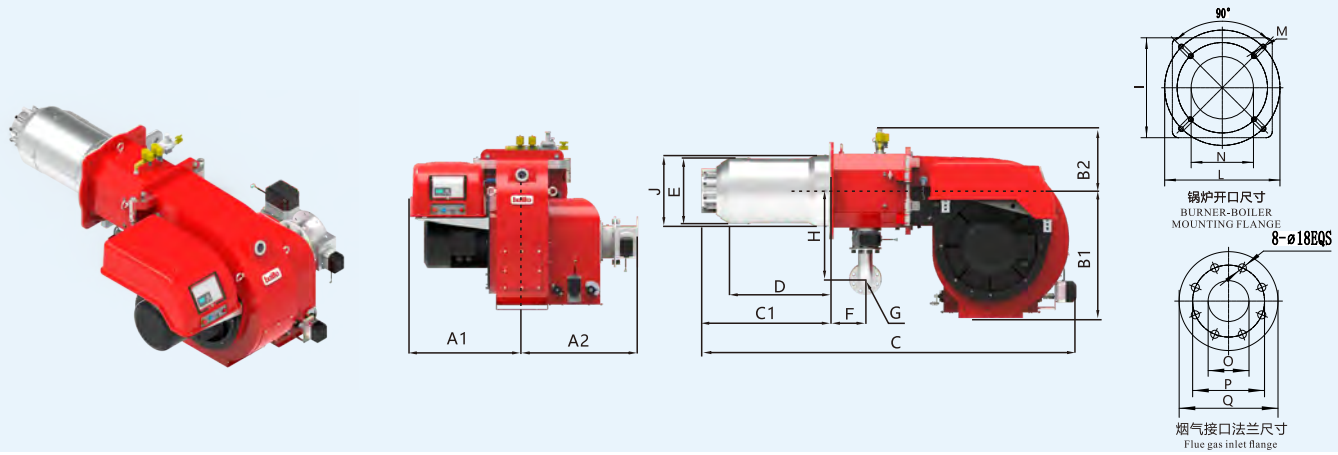
技术性能及结构特征
Technical performance and structural characteristics

1. 交替工作天然气/轻油双燃料烟气外循环超低氮燃烧器。
2. 空气和燃气在燃烧头内混合，机械式压力雾化。
3. 数字燃烧器管理系统，电子比例式运行。
4. 烟气外循环系统，将部分烟气与助燃空气混合后送至燃烧室助燃，混合后的助燃风可以降低燃烧室内的温度和氧量浓度，有效抑制NOx的生成。
5. 多个喷管，分散式燃烧，防止火焰过于集中造成高氧化反应。
6. 采用三个伺服电机，分别精确控制助燃风量、燃气量、烟气量的配比。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 三相电机带动风机。
9. 紫外线光电管检测火焰。
10.独立电机带动油泵。
11.标准配置的电气防护等级IP40。

1. Natural gas/light oil dual fuel extremely NOx emission burner ,work alternately.
2. Mix air and gas in burner head ,mechanical pressure atomization.
3. Digital management system ,electronic modulation operation.
4. FGR system ,make part flue and supporting combustion air mixing ,then drive to combustion chamber .itcould reduce temperation and O2 content .limit the NOx comes out.
5. Multi pipe ,decentralized burning .avoid of high oxidation reaction.
6. It uses 3pcs servo motors ,control supporting air ,gas flow and flue ratio accuately.
7. Use one flange and gasket connecting with boiler.
8. 3phases motor.
9. Ultraviolet ray photocell detects the flame.
10. Separate motor drives the pump.
11. IP40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
1200~6480	BTN800GLE FGR	203 23 190	380V 50Hz	18.5+3	/	/
1600~8080	BTN1000GLE FGR	203 23 191	380V 50Hz	22+3	/	/

外观尺寸图
Overall dimensions



型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	J	L	M	N	O	P	Q
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	Φmm	M	Φmm	Φmm	Φmm	Φmm
BTN800GLE FGR	757	815	802	398	2364	780	624	413	226	DN80	556	560	448	608	4-M20	490	DN200	295	340
BTN1000GLE FGR	757	815	802	398	2364	780	624	413	226	DN80	556	560	448	608	4-M20	490	DN200	295	340

BTN800-1000GLE FGR Electronic Modulation FGR Light Oil& Gas FGR Burner

备选功能
Alternative function

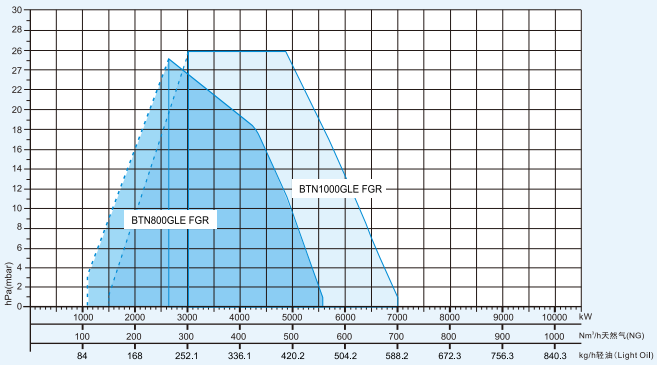
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

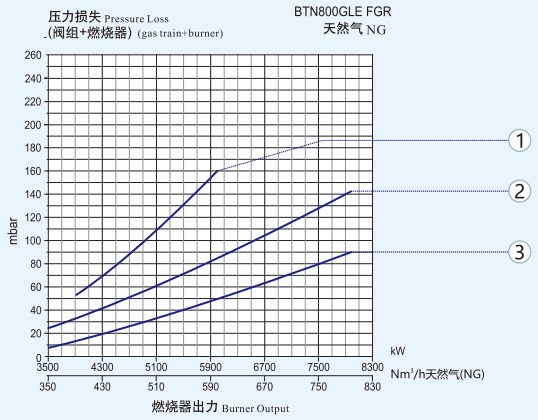
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

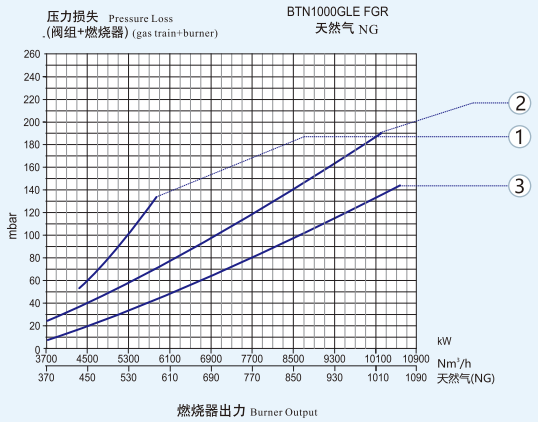


BTN800GLE FGR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DW-DN80	222 25 187	GW150A5	500	QF5
① QF-DMV-D5065/11-PLC-DN80	222 25 215	GW150A5	500	QF5
② QF-DMV-D5080/11-DW-DN80	222 25 192	GW150A5	500	QF5
② QF-DMV-D5080/11-PLC-DN80	222 25 225	GW150A5	500	QF5
③ QF-DMV-D5100/11-DW-DN80	222 25 195	GW150A5	500	QF5
③ QF-DMV-D5100/11-PLC-DN80	222 25 228	GW150A5	500	QF5
① QF-VGD40.065-DW-DN80	222 25 265	GW150A5	700	QF6
① QF-VGD40.065-PLC-DN80	222 25 279	GW150A5	700	QF6
② QF-VGD40.080-DW-DN80	222 25 268	GW150A5	700	QF6
② QF-VGD40.080-PLC-DN80	222 25 282	GW150A5	700	QF6
③ QF-VGD40.100-DW-DN80	222 25 271	GW150A5	700	QF6
③ QF-VGD40.100-PLC-DN80	222 25 285	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1000GLE FGR

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DW-DN80	222 25 187	GW150A5	500	QF5
① QF-DMV-D5065/11-PLC-DN80	222 25 215	GW150A5	500	QF5
② QF-DMV-D5080/11-DW-DN80	222 25 192	GW150A5	500	QF5
② QF-DMV-D5080/11-PLC-DN80	222 25 225	GW150A5	500	QF5
③ QF-DMV-D5100/11-DW-DN80	222 25 195	GW150A5	500	QF5
③ QF-DMV-D5100/11-PLC-DN80	222 25 228	GW150A5	500	QF5
① QF-VGD40.065-DW-DN80	222 25 265	GW150A5	700	QF6
① QF-VGD40.065-PLC-DN80	222 25 279	GW150A5	700	QF6
② QF-VGD40.080-DW-DN80	222 25 268	GW150A5	700	QF6
② QF-VGD40.080-PLC-DN80	222 25 282	GW150A5	700	QF6
③ QF-VGD40.100-DW-DN80	222 25 271	GW150A5	700	QF6
③ QF-VGD40.100-PLC-DN80	222 25 285	GW150A5	700	QF6

BTN1200-1800GLE FGR
电子比调式轻油 / 燃气双燃料烟气外循环超低氮燃烧器

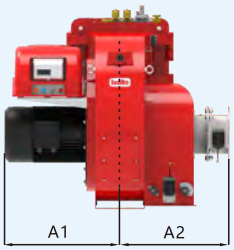
技术性能及结构特征
Technical performance and structural characteristics

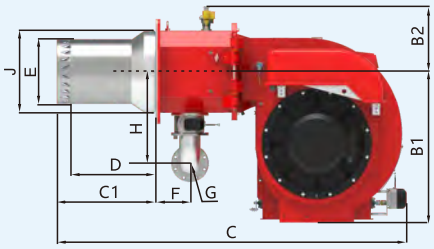
1. 交替工作天然气/轻油双燃料超低氮燃烧器。
2. 空气和燃气在燃烧头内混合，机械式压力雾化。
3. 数字燃烧器管理系统，电子比例式运行。
4. 烟气外循环系统，将部分烟气与助燃空气混合后送至燃烧室助燃，混合后的助燃风可以降低燃烧室内的温度和氧量浓度，有效抑制NOx的生成。
5. 多个喷管，分散式燃烧，防止火焰过于集中造成高氧化反应。
6. 采用三个伺服电机，分别精确控制助燃风量、燃气量、烟气量的配比。
7. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
8. 三相电机带动风机。
9. 紫外线光电管检测火焰。
10.独立电机带动油泵。
11.标准配置的电气防护等级IP40。

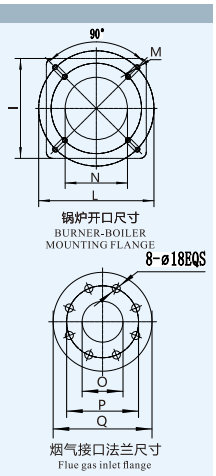
1. Natural gas/light oil dual fuel extremely NOx emission burner ,work alternately.
2. Mix air and gas in burner head ,mechanical pressure atomization.
3. Digital management system ,electronic modulation operation.
4. FGR system ,make part flue and supporting combustion air mixing ,then drive to combustion chamber .itcould reduce temperation and O2 content .limit the NOx comes out.
5. Multi pipe ,decentralized burning .avoid of high oxidation reaction.
6. It uses 3pcs servo motors ,control supporting air ,gas flow and flue ratio accuately.
7. Use one flange and gasket connecting with boiler.
8. 3phases motor.
9. Ultraviolet ray photocell detects the flame.
10. Separate motor drives the pump.
11. IP40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
2700~9850	BTN1200GLE FGR	203 23 192	380V 50Hz	37+4	/	/
2100~11740	BTN1500GLE FGR	203 23 193	380V 50Hz	45+4	/	/
2500~13260	BTN1800GLE FGR	203 23 194	380V 50Hz	55+4	/	/

外观尺寸图
Overall dimensions







型号 model	A1	A2	B1	B2	C	C1	D	E	F	G	H	I	J	L	M	N	O	P	Q
	mm	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	Φmm	M	Φmm	Φmm	Φmm	Φmm
BTN1200GLE FGR	825	815	1012	440	2350	663	569	430	230	DN125	614	700	544	735	8-M20	580	DN250	350	390
BTN1500GLE FGR	835	815	1012	440	2540	853	561	544	230	DN125	614	700	544	735	8-M20	580	DN250	350	390
BTN1800GLE FGR	905	815	1012	975	2540	853	561	590	230	DN125	614	700	544	735	8-M20	620	DN250	350	390

BTN1200-1800GLE FGR Extremely Low NOx Dual Fuel Natural Gas And Oil Burner .Electronic Modulation

备选功能
Alternative function

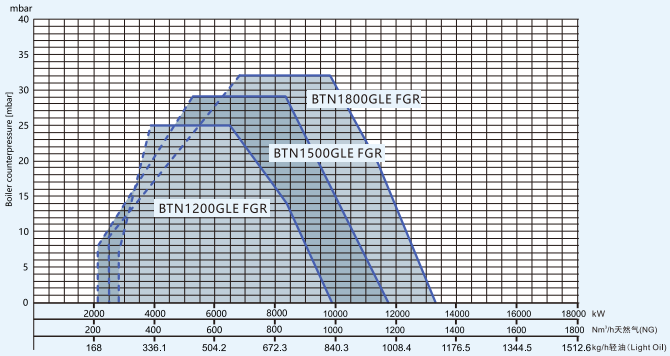
加长的燃烧筒，可定制60Hz
Longer blast tube and 60HZ motor is customized.

备注
remark

* 配有空气关闭装置
* It is with air closure device.

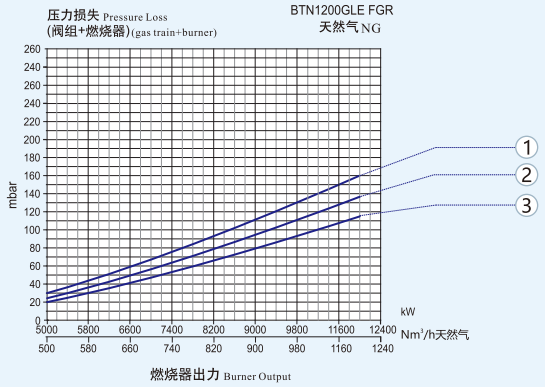
* 阀组进口允许的最大燃气压力。
* Maximum allowable gas pressure at valve group inlet.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

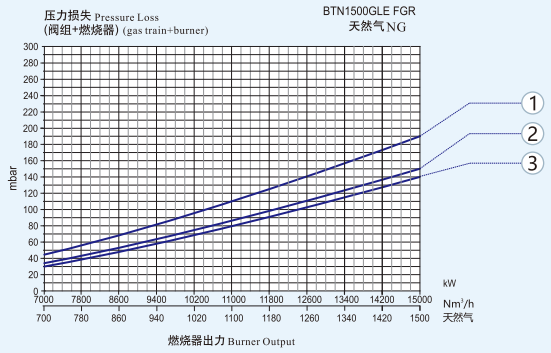


BTN1200GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)

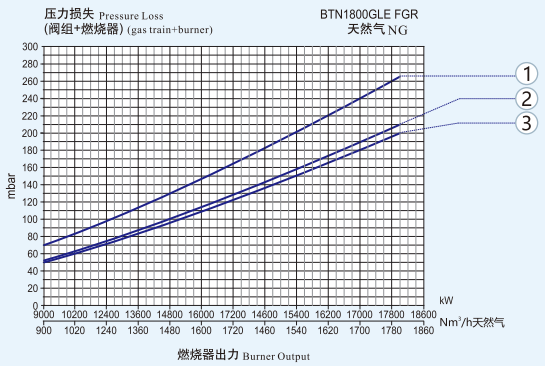


BTN1500GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1800GLE FGR

天然气 natural gas

	曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
①	QF-DMV-D5100/11-DW-DN125	222 25 200	GW150A5	500	QF5
①	QF-DMV-D5100/11-PLC-DN125	222 25 230	GW150A5	500	QF5
②	QF-DMV-D5125/11-DW-DN125	222 25 202	GW150A5	500	QF5
②	QF-DMV-D5125/11-PLC-DN125	222 25 232	GW150A5	500	QF5
①	QF-VGD40.100-DW-DN125	222 25 273	GW150A5	700	QF6
①	QF-VGD40.100-PLC-DN125	222 25 287	GW150A5	700	QF6
②	QF-VGD40.125-DW-DN125	222 25 275	GW150A5	700	QF6
②	QF-VGD40.125-PLC-DN125	222 25 289	GW150A5	700	QF6
③	QF-VGD40.150-DW-DN125	222 25 276	GW150A5	700	QF6
③	QF-VGD40.150-PLC-DN125	222 25 290	GW150A5	700	QF6

BTN350-450GHAC/GHAE 渐进式 / 比例调节 / 电子比调式重油 / 燃气双燃料燃烧器(空气雾化)

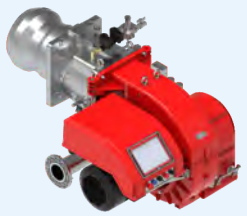
技术性能及结构特征
Technical performance and structural characteristics

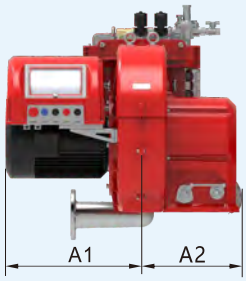
1. 交替工作天然气/重油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下雾化装置，维修保养方便。
6. 渐进/比例式带有凸轮的伺服电机可以同时调节空气和燃料的供应；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立的重油电加热器组和三相电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

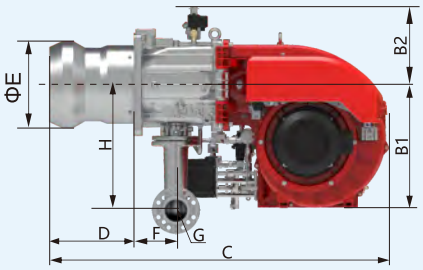
1. Alternate methane gas/heavy oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating Servo motor with a CAM can regulate air and fuel supply at the same time; Pauses burner, air door closed in order to reduce heat loss in the furnace.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent of the heavy oil electric heater set and three-phase motor to drive oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

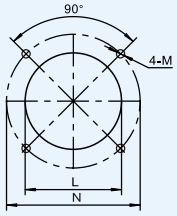
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~3600	BTN350GHAC BTN350GHAE	202 24 083 202 24 087	380V 50Hz	7.5	/	/
640~4200	BTN450GHAC BTN450GHAE	202 24 084 202 24 088	380V 50Hz	9.2	/	/

外观尺寸图
Overall dimensions









锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN350GHAC	555	400	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN350GHAE	555	400	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN450GHAC	555	400	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350
BTN450GHAE	555	400	519	355	1434	358	290	178	DN65	528	400	452	4-M16	350

BTN350-450GHAC/GHAE Modulation/Electronic Modulation Heavy Oil & Gas Burner(Air Atomization)

备选功能
Alternative function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

比例调节功能
Proportional control function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

标准配件
standard fittings

阀组 - 过滤器 - 软管 - 喷嘴 - 电加热组 - 与锅炉配套的组件

Valve-Oil filter-Oil line-Nozzle-Electric heater set
-the partnership with the boiler

备注
standard fittings

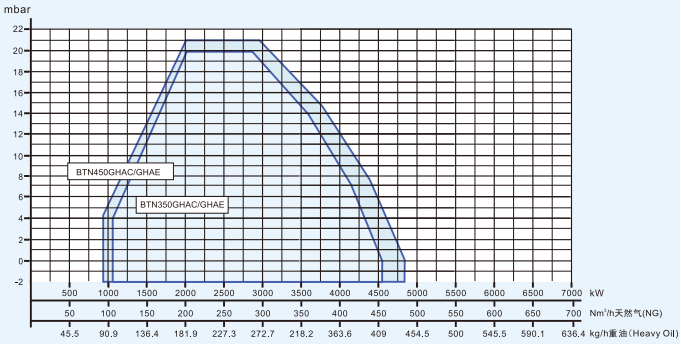
1）配有空气关闭装置.

1）It is with air closure device.

**)阀组进口允许的最大燃气压力.

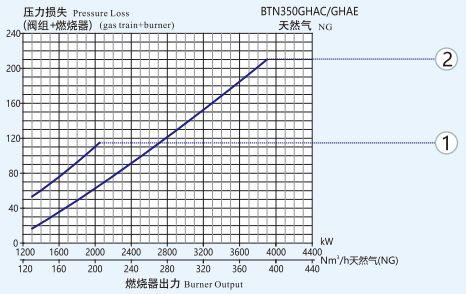
**）Allowed Max.gas pressure in valve set input.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

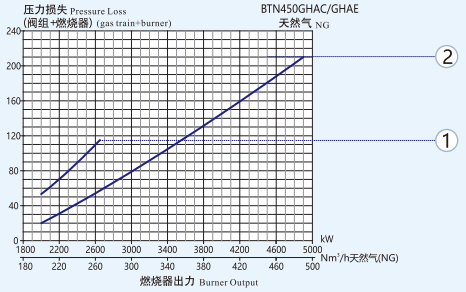


BTN350GHAC/GHAE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD220/5+MVDLE220/5-DN65	222 25 454	-	200	QF2
② QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
② QF-DMV-D5065/11-LDU-DN65	222 25 145	-	560	QF1
① QF-MB-DLE420 B01 S20-RC2"	222 25 233	-	700	QF4
② QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN450GHAC/GHAE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-MVD220/5+MVDLE220/5-DN65	222 25 454	-	200	QF2
② QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
② QF-DMV-D5065/11-LDU-DN65	222 25 145	-	560	QF1
① QF-MB-DLE420 B01 S20-RC2"	222 25 233	-	700	QF4
② QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

BTN550/650GHAC/GHAE 渐进式 / 比例调节 / 电子比调式重油 / 燃气双燃料燃烧器(空气雾化)

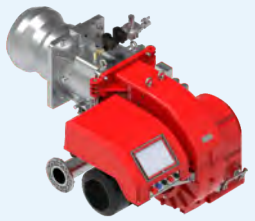
技术性能及结构特征
Technical performance and structural characteristics

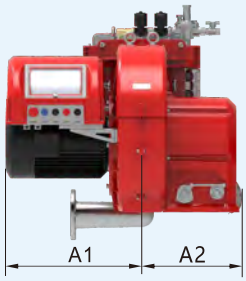
1. 交替工作天然气/重油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下雾化装置，维修保养方便。
6. 渐进/比例式带有凸轮的伺服电机可以同时调节空气和燃料的供应；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立的重油电加热器组和三相电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

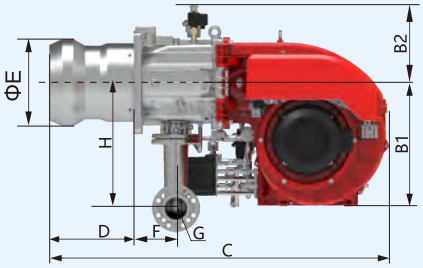
1. Alternate methane gas/heavy oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating Servo motor with a CAM can regulate air and fuel supply at the same time; Pauses burner, air door closed in order to reduce heat loss in the furnace.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent of the heavy oil electric heater set and three-phase motor to drive oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

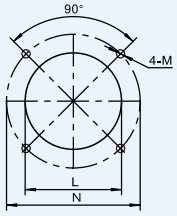
功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
600~5170	BTN550GHAC BTN550GHAE	202 24 085 202 24 089	380V 50Hz	12	/	/
1000~6155	BTN650GHAC BTN650GHAE	202 24 086 202 24 090	380V 50Hz	15	/	/

外观尺寸图
Overall dimensions









锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN550GHAC	583	400	519	355	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN550GHAE	583	400	519	355	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN650GHAC	583	400	519	355	1434	358	365	178	DN65	528	400	452	4-M16	375
BTN650GHAE	583	400	519	355	1434	358	365	178	DN65	528	400	452	4-M16	375

BTN550-650GHAC/GHAE FGR Modulation/Electronic Modulation Heavy Oil & Gas Burner(Air Atomization)

备选功能
Alternative function

加长的燃烧筒，可定制60Hz.
Can lengthen the blast tube,Can books the 60Hz.

可选择采用蒸汽雾化/机械雾化.
Can choose to use steam atomization/Mechanical atomizing.

比例调节功能
Proportional control function

加长的燃烧筒，可定制60Hz.
Can lengthen the blast tube,Can books the 60Hz.

可选择采用蒸汽雾化/机械雾化.
Can choose to use steam atomization/Mechanical atomizing.

标准配件
standard fittings

阀组 - 过滤器 - 软管 - 喷嘴 - 电加热组 - 与锅炉配套的组件

Valve-Oil filter-Oil line-Nozzle-Electric heater set
-the partnership with the boiler

备注
standard fittings

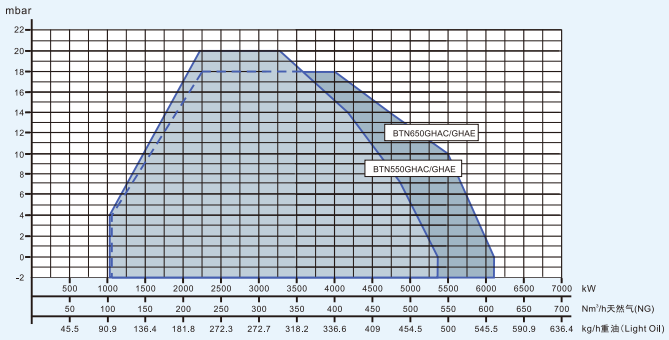
1）配有空气关闭装置.

1） It is with air closure device.

**)阀组进口允许的最大燃气压力.

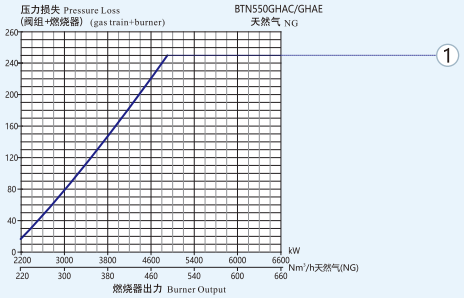
**） Allowed Max.gas pressure in valve set input.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

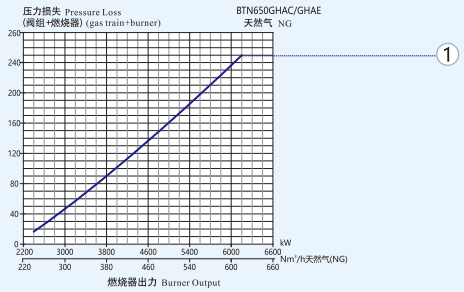


BTN550GHAC/GHAE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
① QF-DMV-D5065/11-LDU-DN65	222 25 145	GW150A5	500	QF1
① QF-VGD40.065-DN65	222 25 233	-	700	QF4
① QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN650GHAC/GHAE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN65	222 25 128	-	500	QF1
① QF-DMV-D5065/11-LDU-DN65	222 25 145	GW150A5	500	QF1
① QF-VGD40.065-DN65	222 25 233	-	700	QF4
① QF-VGD40.065-LDU-DN65	222 25 247	GW150A5	700	QF4

BTN800/1000GHAC/GHAE 渐进式 / 比例调节 / 电子比调式重油 / 燃气双燃料燃烧器(空气雾化)

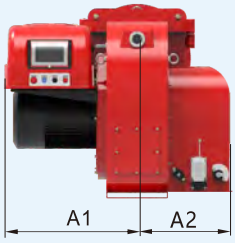
技术性能及结构特征
Technical performance and structural characteristics

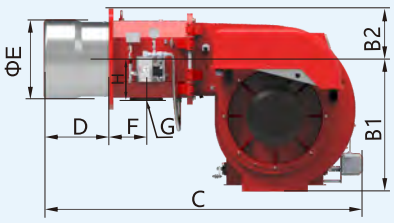
1. 交替工作天然气/重油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下雾化装置，维修保养方便。
6. 渐进/比例式带有凸轮的伺服电机可以同时调节空气和燃料的供应；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立的重油电加热器组和三相电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

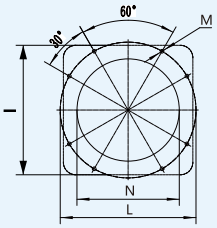
1. Alternate methane gas/heavy oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
4. Ability to obtain optimal combustion values by regulating combustion air and blast-pipe.
5. Maintenance facilitated by the fact that the atomisation unit can be removed without having to remove the burner from the boiler.
6. Sliding/Modulating Servo motor with a CAM can regulate air and fuel supply at the same time; Pauses burner, air door closed in order to reduce heat loss in the furnace.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent of the heavy oil electric heater set and three-phase motor to drive oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
800~7400	BTN800GHAC	202 24 072	380V 50Hz	18.5	/	/
	BTN800GHAE	202 24 091				
1000~10500	BTN1000GHAC	202 24 073	380V 50Hz	22	/	/
	BTN1000GHAE	202 24 082				

外观尺寸图
Overall dimensions







锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	I	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	mm	Φmm	M	Φmm
BTN800GHAC	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN800GHAE	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN1000GHAC	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490
BTN1000GHAE	757	585	802	398	1940	395	480	226	DN80	539	560	608	4-M20	490

BTN800-1000GHAC/GHAE Modulation/Electronic Modulation Heavy Oil & Gas Burner(Air Atomization)

备选功能
Alternative function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

比例调节功能
Proportional control function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

标准配件
standard fittings

阀组 - 过滤器 - 软管 - 喷嘴 - 电加热组 - 与锅炉配套的组件

Valve-Oil filter-Oil line-Nozzle-Electric heater set
-the partnership with the boiler

备注
standard fittings

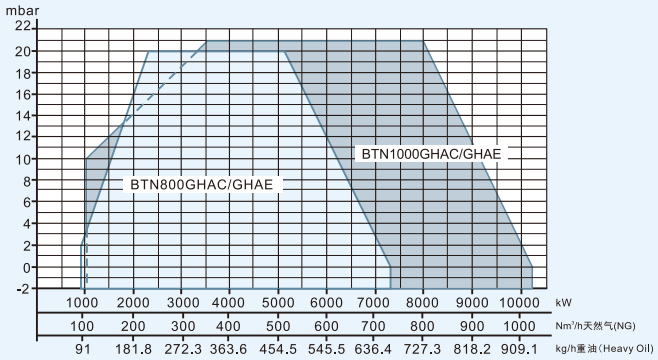
1）配有空气关闭装置.

1）It is with air closure device.

**)阀组进口允许的最大燃气压力.

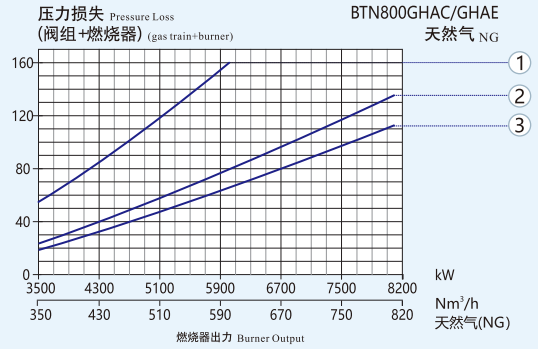
**）Allowed Max.gas pressure in valve set input.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

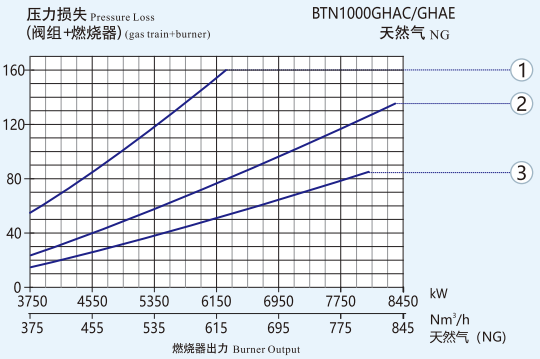


BTN800GHAC/GHAE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN80	222 25 130	-	500	QF5
① QF-DMV-D5065/11-LDU-DN80	222 25 147	GW150A5	500	QF5
② QF-VGD40.080-DN80	222 25 237	-	700	QF4
② QF-VGD40.080-LDU-DN80	222 25 254	GW150A5	700	QF4
③ QF-VGD40.100-DN80	222 25 240	-	700	QF4
③ QF-VGD40.100-LDU-DN80	222 25 257	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)



BTN1000GHAC/GHAE

天然气 natural gas

曲线（型号）Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-DMV-D5065/11-DN80	222 25 130	-	500	QF5
① QF-DMV-D5065/11-LDU-DN80	222 25 147	GW150A5	500	QF5
② QF-VGD40.080-DN80	222 25 237	-	700	QF4
② QF-VGD40.080-LDU-DN80	222 25 254	GW150A5	700	QF4
③ QF-VGD40.100-DN80	222 25 240	-	700	QF4
③ QF-VGD40.100-LDU-DN80	222 25 257	GW150A5	700	QF4

BTN1200-1800GHAC/GHAE 渐进式 / 比例调节 / 电子比调式重油 / 燃气双燃料燃烧器(空气雾化)

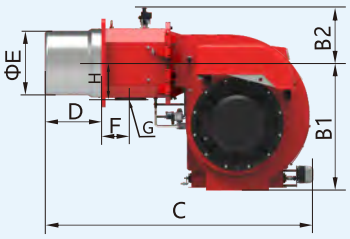
技术性能及结构特征
Technical performance and structural characteristics

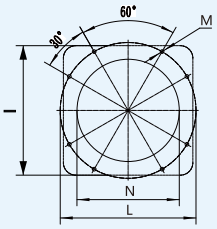
1. 交替工作天然气/重油双燃料燃烧器。
2. 双段渐近式/比例式/电子式运行。
3. 空气和燃气在燃烧头内混合，机械式压力雾化。
4. 通过调节燃烧空气和燃烧头，可以获得最佳的燃烧参数。
5. 无须把燃烧器从锅炉上拆下，就可直接取下雾化装置，维修保养方便。
6. 渐进/比例式带有凸轮的伺服电机可以同时调节空气和燃料的供应；燃烧器暂停时，风门关闭以减少炉内热量损失。
7. 电子式用三个伺服电动机分别控制燃气、燃油和空气的比例调节。
8. 采用一个法兰和耐高温隔热垫与锅炉联接固定。
9. 带流量调节装置的燃烧空气进口。
10.燃烧器空气进口采用消音设计。
11.耐高温的不锈钢燃烧头火焰盘。
12.独立的重油电加热器组和三相电机带动油泵。
13.UV紫外线光电管检测火焰。
14.标准配置的电气防护等级IP40。

1. Alternate methane gas/heavy oil burner.
2. Two-stage sliding/modulating/electronic working.
3. Air-gas mixing at blast-pipe and high pressure mechanical atomisation of fuel using nozzle.
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. Sliding/Modulating Servo motor with a CAM can regulate air and fuel supply at the same time; Pauses burner, air door closed in order to reduce heat loss in the furnace.
7. Electronic proportional Using three-phase servo motor respectively to control ratio adjustion among gas ,oil and air.
8. Using a flange and high temperature resistant heat insulation pads connected to the boiler.
9. Combustion air intake with air flow adjustment device.
10.Burner air inlet with mute design.
11.High temperature resistant stainless steel disc burner flame.
12.Independent of the heavy oil electric heater set and three-phase motor to drive oil pump.
13.UV ultraviolet phototube detects flame.
14.Electrical plant protection rating Ip40.

功率 Power (KW)	型号 Model	订货编号 Article No.	电源 Power supply	电机功率 Motor power (KW)	包装尺寸 package size (L*W*H/mm)	重量 weight (kg)
1400~12000	BTN1200GHAC BTN1200GHAE	202 24 074 202 24 093	380V 50Hz	37	/	/
1715~14000	BTN1500GHAC BTN1500GHAE	202 24 075 202 24 094	380V 50Hz	45	/	/
2500~17500	BTN1800GHAC BTN1800GHAE	202 24 092 202 24 095	380V 50Hz	55	/	/

外观尺寸图
Overall dimensions





锅炉开口尺寸
BURNER-BOILER MOUNTING FLANGE

型号 model	A1	A2	B1	B2	C	D	E	F	G	H	L	M	N
	mm	mm	mm	mm	mm	mm	Φmm	mm	mm	mm	Φmm	M	Φmm
BTN1200GHAC	825	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1200GHAE	825	585	1012	350	2150	462	510	230	DN 125	614	735	8-M20	580
BTN1500GHAC	835	585	1012	350	2105	462	510	230	DN 125	614	735	8-M20	580
BTN1500GHAE	835	585	1012	350	2105	462	510	230	DN 125	614	735	8-M20	580
BTN1800GHAC	905	585	1012	350	2283	599	590	230	DN 125	614	735	8-M20	580
BTN1800GHAE	905	585	1012	350	2283	599	590	230	DN 125	614	735	8-M20	580

BTN1200-1800GHAC/GHAE Sliding/Modulating/ Electronic Proportional Heavy Oil &Gas Burner (Air Atomizing)

备选功能
Alternative function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

比例调节功能
Proportional control function

加长的燃烧筒，可定制60Hz.

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

可选择采用蒸汽雾化/机械雾化.

Can choose to use steam atomization/Mechanical atomizing.

标准配件
standard fittings

阀组 - 过滤器 - 软管 - 喷嘴 - 电加热组 - 与锅炉配套的组件

Valve-Oil filter-Oil line-Nozzle-Electric heater set
-the partnership with the boiler

备注
standard fittings

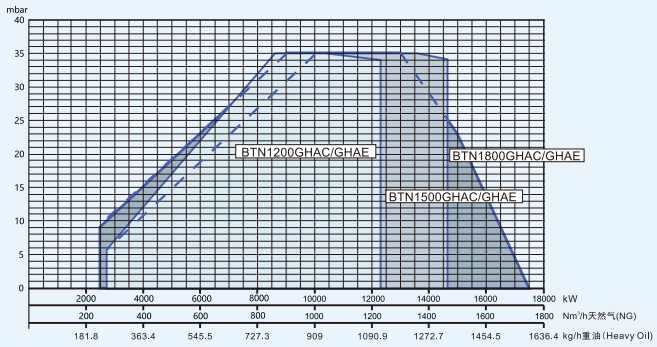
1）配有空气关闭装置.

1）It is with air closure device.

**)阀组进口允许的最大燃气压力.

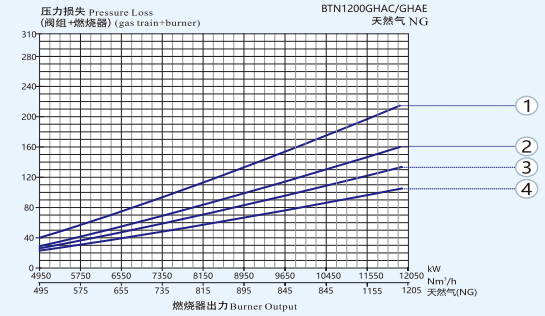
**）Allowed Max.gas pressure in valve set input.

曲线图
curve graph



曲线图 Curve diagram

锅炉燃烧器功率(kW)
Burner Output (kW)

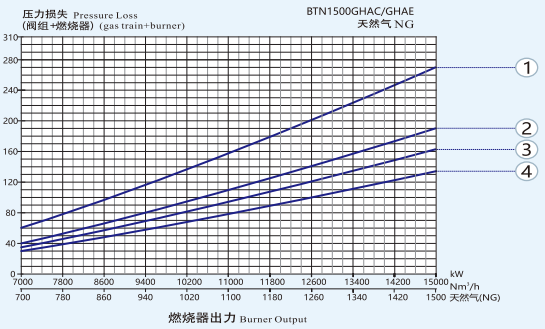


BTN1200GHAC/GHAE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)

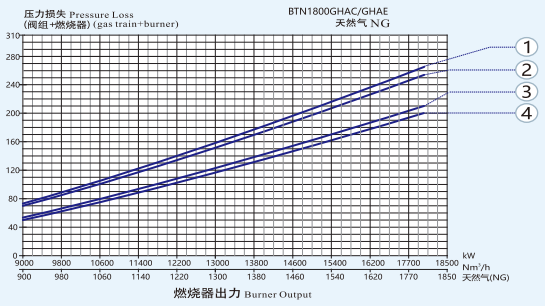


BTN1500GHAC/GHAE

天然气 natural gas

曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

锅炉燃烧器功率(kW)
Burner Output (kW)

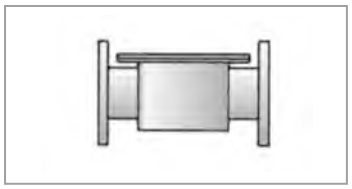


BTN1800GHAC/GHAE

天然气 natural gas

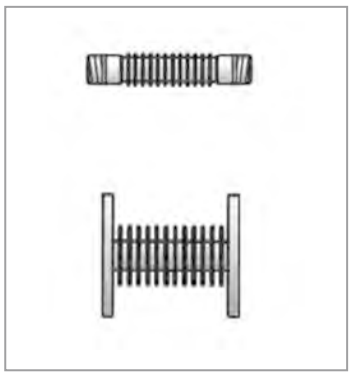
曲线（型号） Curve (model)	阀组编号 Valve group number	检漏 Leakage control	最大压力** Maximum pressure value (mbar)	图号 figure number
① QF-VGD40.080-DN125	222 25 239	-	700	QF4
① QF-VGD40.080-LDU-DN125	222 25 256	GW150A5	700	QF4
② QF-VGD40.100-DN125	222 25 242	-	700	QF4
② QF-VGD40.100-LDU-DN125	222 25 259	GW150A5	700	QF4
③ QF-VGD40.125-DN125	222 25 244	-	700	QF4
③ QF-VGD40.125-LDU-DN125	222 25 261	GW150A5	700	QF4
④ QF-VGD40.150-DN125	222 25 245	-	700	QF4
④ QF-VGD40.150-LDU-DN125	222 25 262	GW150A5	700	QF4

燃气阀组结构及组成

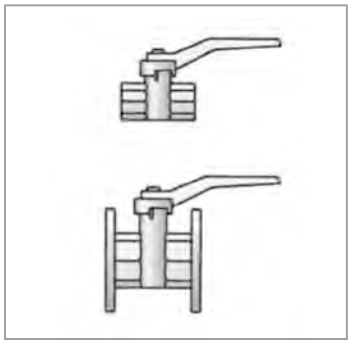


最大入口压力 mbar	500~1000			6000		
Max.inletpressure	编号 Code	型号 Model	接口直径 inlet diameter	编号 Code	型号 Model	接口直径 inlet diameter
过滤器 Gas filter	221 27 292	70609/CE	1/2 "	221 27 298	70603F/CE	DN40
	221 27 293	70608/CE	3/4"	221 27 299	70631F/CE	DN50
	221 27 294	70602/CE	1 "	221 27 300	70610F/CE	DN65
	221 27 295	70604/CE	$1^1/_4$"	221 27 301	70620F/CE	DN80
	221 27 296	70603/CE	$1^1/_2$"	221 27 302	70640F/CE	DN100
	221 27 297	70631/CE	2"	221 27 303	70650F/CE	DN125
				221 27 304	70660F/CE	DN150

	编号 Code	型号 Model	接口法兰 inlet flange
燃气调压器 Gas regulator	222 26 100	FGDR15/CE	1/2 "
	222 26 101	FGDR20/CE	3/4"
	222 26 102	FGDR25/CE	1"
	222 26 103	FGDR32/CE	$1^1/_4$"
	222 26 104	FGDR40/CE	$1^1/_2$"
	222 26 105	FGDR50/40/CE	2"
	222 26 106	FSDR65/CE	DN65
	222 26 107	FSDR80/CE	DN80
	222 26 108	STR100D/CE	DN100
	222 26 109	STR125D/CE	DN125
	222 26 110	STR150D/CE	DN150

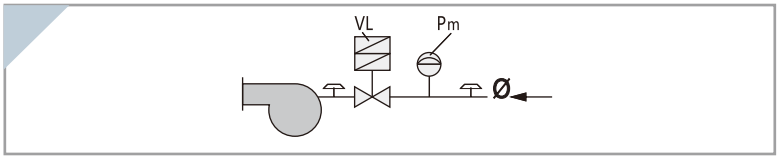


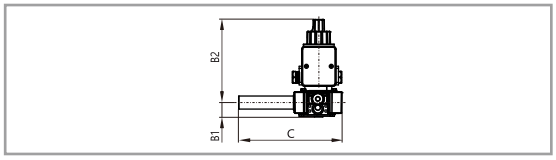
	编号 Code	型号 Model	接口法兰 inlet flange
减震和补偿节 (DIN 30681不锈钢) ANTI VIBRATION COUPLING	221 19 244	BTPZ-244	1/2" MM
	221 19 245	BTPZ-245	3/4" MM
	221 19 246	BTPZ-246	1" MM
	221 19 247	BTPZ-247	$1^1/_4$" MM
	221 19 248	BTPZ-248	$1^1/_2$" MM
	221 19 249	BTPZ-249	2" MM
	221 19 250	BTPZ-250	DN65
	221 19 251	BTPZ-251	DN80
	221 19 252	BTPZ-252	DN100
	221 19 253	BTPZ-253	DN125
	221 19 254	BTPZ-254	DN150
	221 19 255	BTPZ-255	DN200



	编号 Code	型号 Model	接口法兰 inlet flange
球 阀 Ball vale	221 16 300	BTQF-300	1/4"
	221 16 302	BTQF-302	3/8"
	221 16 303	BTQF-303	1/2 "
	221 16 312	BTQF-312	3/4"
	221 16 313	BTQF-313	1"
	221 16 314	BTQF-314	$1^1/_2$"
	221 16 315	BTQF-315	2"
	221 16 316	BTQF-316	DN40
	221 16 317	BTQF-317	DN50
	221 16 318	BTQF-318	DN65
	221 16 319	BTQF-319	DN80
	221 16 320	BTQF-320	DN100
	221 16 321	BTQF-321	DN125
	221 16 322	BTQF-322	DN150
	221 16 323	BTQF-323	DN200

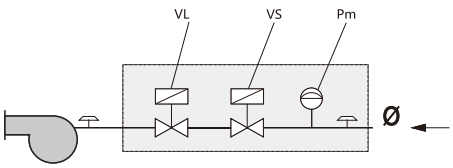
图 QF1

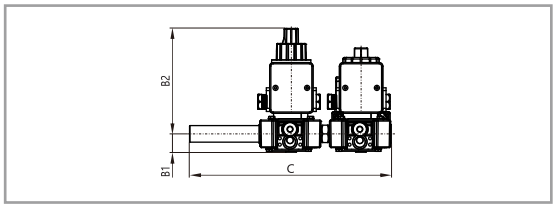




阀组编号 Gas Train Code	阀组型号 Gas Train Model	Pm	PM	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 350	(QF-MVDLE205-RC1/2")		•					360mbar (36kPa)
222 25 351	(QF-MVDLE205-RC3/4")		•					360mbar (36kPa)
222 25 353	(QF-MVDLE205-RC1")		•					360mbar (36kPa)
222 25 352	(QF-MVDLE207-RC3/4")		•					360mbar (36kPa)
222 25 354	(QF-MVDLE207-RC1")		•					360mbar (36kPa)
222 25 356	(QF-MVDLE207-RC1 1/2")		•					360mbar (36kPa)
222 25 355	(QF-MVDLE210-RC1")		•					360mbar (36kPa)
222 25 357	(QF-MVDLE210-RC1 1/2")		•					360mbar (36kPa)
222 25 361	(QF-MVDLE210-RC2")		•					360mbar (36kPa)
222 25 008	(QF-MVDLE210/5-RC1")		•					360mbar (36kPa)
222 25 358	(QF-MVDLE215-RC1 1/2")		•					360mbar (36kPa)
222 25 359	(QF-MVDLE220-RC1/2")		•					360mbar (36kPa)
222 25 365	(QF-MVDLE220-RC2")		•					360mbar (36kPa)
222 25 128	(QF-DMV-D5065/11-DN65")		•					500mbar (50kPa)
222 25 145	(QF-DMV-D5065/11-LDU-DN65)		•					500mbar (50kPa)

图 QF2

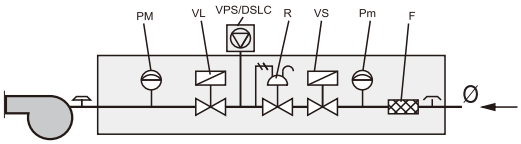




阀组编号 Gas Train Code	阀组型号 Gas Train Model	PM	Pm	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 450	QF-MVD210+MVDLE210-RC2"		•					360mbar (36kPa)
222 25 451	QF-MVD215+MVDLE215-RC2"		•					200mbar (20kPa)
222 25 452	QF-MVD220+MVDLE220-RC2"	•	•					200mbar (20kPa)
222 25 453	QF-MVD215+MVDLE215-DN65		•					200mbar (20kPa)
222 25 454	QF-MVD220+MVDLE220-DN65	•	•					200mbar (20kPa)
222 25 455	QF-MVD220+MVDLE220-DN80	•	•					200mbar (20kPa)

CTV - 检漏 Leakage control
F - 过滤器 Filter
LDU - LDU 检漏 LDU leakage control
Pct/DW - 检漏压力开关 Leakage pressure switch
PM - 最大压力开关 Max.pressure switch
Pm - 最小压力开关 Min.pressure switch
Pmc - 最小压力开关和检漏压力开关 min.pressure switch and leakage pressure switch
R - 调压器 Regulator
RF - 带过滤器的调压器 Regulator with filterring
RFP - 点火阀组用带过滤器的调压器 For ignition valve use ,the regulator with filterring
RP - 气动式调压器 Pheumatic regulator
VF - 蝶阀 Butterfly valve
VL - 操作阀 Operation valve
VL2 - 两段操作阀 Two stage operation valve
VLP - 点火操作阀 Igintion operation valve
VP - 点火阀 Igintion operation valve
VPS/DSLC - VPS/DSLC 检漏 VPS/DSLC leakage control
VS - 安全阀 Safety valve
VSP - 点火安全阀 Ignition safety valve
- 阀组进口直径 Gas train input diameter
1 - 主阀组直径 Main gas train diameter
2 - 点火阀组直径 Ignition gas train diameter

燃气阀组结构及组成



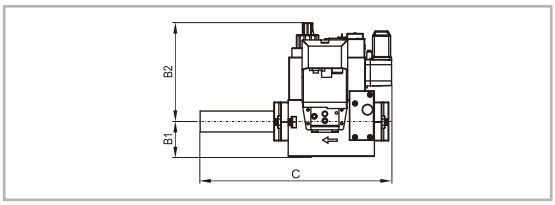
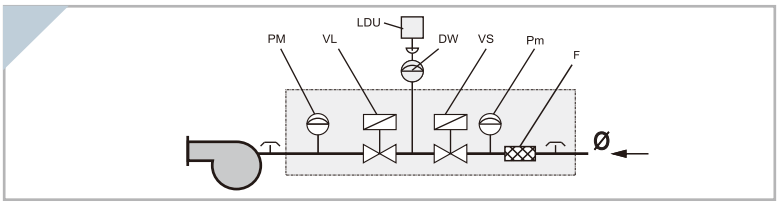


图 QF3

阀组编号 Gas Train Code	阀组型号 Gas Train Model	PM	Pm	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 650	QF-MB-DLE405-RC1/2"		•					360mbar (36kPa)
222 25 651	QF-MB-DLE405-RC3/4"		•					360mbar (36kPa)
222 25 652	QF-MB-DLE407-RC3/4"		•					360mbar (36kPa)
222 25 009	QF-MB-DLE410-RC3/4"		•					360mbar (36kPa)
222 25 653	QF-MB-DLE405-RC1"		•					360mbar (36kPa)
222 25 654	QF-MB-DLE407-RC1"		•					360mbar (36kPa)
222 25 655	QF-MB-DLE410-RC1"		•					360mbar (36kPa)
222 25 656	QF-MB-DLE407-RC1/2"		•					360mbar (36kPa)
222 25 657	QF-MB-DLE410-RC1 1/2"		•					360mbar (36kPa)
222 25 658	QF-MB-DLE412-RC1 1/2"		•					360mbar (36kPa)
222 25 659	QF-MB-DLE415-RC1 1/2"		•					360mbar (36kPa)
222 25 660	QF-MB-DLE410-RC2"		•					360mbar (36kPa)
222 25 661	QF-MB-DLE412-RC2"		•					360mbar (36kPa)
222 25 662	QF-MB-DLE415-RC2"		•					360mbar (36kPa)
222 25 663	QF-MB-DLE420-RC2"	•	•					360mbar (36kPa)
222 25 664	QF-MB-DLE415-DN65		•					360mbar (36kPa)
222 25 665	QF-MB-DLE420-DN65	•	•					360mbar (36kPa)
222 25 666	QF-MB-DLE420-DN80	•	•					360mbar (36kPa)
222 25 670	QF-MB-DLE405-VPS-RC1/2"		•	•	•			360mbar (36kPa)
222 25 671	QF-MB-DLE405-VPS-RC3/4"		•	•	•			360mbar (36kPa)
222 25 672	QF-MB-DLE407-VPS-RC3/4"		•	•	•			360mbar (36kPa)
222 25 673	QF-MB-DLE405-VPS-RC1"		•	•	•			360mbar (36kPa)
222 25 674	QF-MB-DLE407-VPS-RC1"		•	•	•			360mbar (36kPa)
222 25 675	QF-MB-DLE410-VPS-RC1"		•	•	•			360mbar (36kPa)
222 25 676	QF-MB-DLE407-VPS-RC1 1/2"		•	•	•			360mbar (36kPa)
222 25 677	QF-MB-DLE410-VPS-RC1 1/2"		•	•	•			360mbar (36kPa)
222 25 678	QF-MB-DLE412-VPS-RC1 1/2"		•	•	•			360mbar (36kPa)
222 25 679	QF-MB-DLE415-VPS-RC1 1/2"		•	•	•			360mbar (36kPa)
222 25 680	QF-MB-DLE410-VPS-RC2"		•	•	•			360mbar (36kPa)
222 25 681	QF-MB-DLE412-VPS-RC2"		•	•	•			360mbar (36kPa)
222 25 682	QF-MB-DLE415-VPS-RC2"		•	•	•			360mbar (36kPa)
222 25 683	QF-MB-DLE420-VPS-RC2"	•	•	•	•			360mbar (36kPa)
222 25 684	QF-MB-DLE415-VPS-DN65		•	•	•			360mbar (36kPa)
222 25 685	QF-MB-DLE420-VPS-DN65	•	•	•	•			360mbar (36kPa)
222 25 686	QF-MB-DLE420-VPS-DN80	•	•	•	•			360mbar (36kPa)

CTV - 检漏 Leakage control
F - 过滤器 Filter
LDU - LDU 检漏 LDU leakage control
Pct/DW - 检漏压力开关 Leakage pressure switch
PM - 最大压力开关 Max.pressure switch
Pm - 最小压力开关 Min.pressure switch
Pmc - 最小压力开关和检漏压力开关 min.pressure switch and leakage pressure switch
R - 调压器 Regulator
RF - 带过滤器的调压器 Regulator with filterring
RFP - 点火阀组用带过滤器的调压器 For ignition valve use ,the regulator with filterring
RP - 气动式调压器 Pheumatic regulator
VF - 蝶阀 Butterfly valve
VL - 操作阀 Operation valve
VL2 - 两段操作阀 Two stage operation valve
VLP - 点火操作阀 Igintion operation valve
VP - 点火阀 Igintion operation valve
VPS/DSLC - VPS/DSLC 检漏 VPS/DSLC leakage control
VS - 安全阀 Safety valve
VSP - 点火安全阀 Ignition safety valve
- 阀组进口直径 Gas train input diameter
1 - 主阀组直径 Main gas train diameter
2 - 点火阀组直径 Ignition gas train diameter

The Structure And Elements Of Gas Train



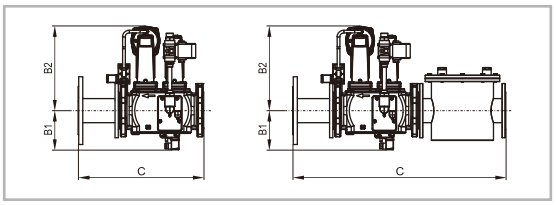


图 QF4

阀组编号	阀组型号	PM	Pm	DW	LDU	VPS/DSLC	压力表	最大压力
222 25 233	QF-VGD40.065-DN65	•	•				•	700mbar(70kPa)
222 25 234	QF-VGD40.065-DN80	•	•				•	700mbar(70kPa)
222 25 235	QF-VGD40.065-DN100	•	•				•	700mbar(70kPa)
222 25 236	QF-VGD40.080-DN65	•	•				•	700mbar(70kPa)
222 25 237	QF-VGD40.080-DN80	•	•				•	700mbar(70kPa)
222 25 238	QF-VGD40.080-DN100	•	•				•	700mbar(70kPa)
222 25 239	QF-VGD40.080-DN125	•	•				•	700mbar(70kPa)
222 25 240	QF-VGD40.100-DN80	•	•				•	700mbar(70kPa)
222 25 241	QF-VGD40.100-DN100	•	•				•	700mbar(70kPa)
222 25 242	QF-VGD40.100-DN125	•	•				•	700mbar(70kPa)
222 25 243	QF-VGD40.125-DN100	•	•				•	700mbar(70kPa)
222 25 244	QF-VGD40.125-DN125	•	•				•	700mbar(70kPa)
222 25 245	QF-VGD40.150-DN125	•	•				•	700mbar(70kPa)
222 25 246	QF-VGD40.150-DN150	•	•				•	700mbar(70kPa)
222 25 834	QF-VGD40.065-RC2"	•	•				•	700mbar(70kPa)
222 25 835	QF-VGD40.065-LDU-RC2"	•	•	•	•		•	700mbar(70kPa)
222 25 247	QF-VGD40.065-LDU-DN65	•	•	•	•		•	700mbar(70kPa)
222 25 248	QF-VGD40.065-LDU-DN80	•	•	•	•		•	700mbar(70kPa)
222 25 249	QF-VGD40.065-LDU-DN100	•	•	•	•		•	700mbar(70kPa)
222 25 253	QF-VGD40.080-LDU-DN65	•	•	•	•		•	700mbar(70kPa)
222 25 254	QF-VGD40.080-LDU-DN80	•	•	•	•		•	700mbar(70kPa)
222 25 255	QF-VGD40.080-LDU-DN100	•	•	•	•		•	700mbar(70kPa)
222 25 256	QF-VGD40.100-LDU-DN65	•	•	•	•		•	700mbar(70kPa)
222 25 257	QF-VGD40.100-LDU-DN80	•	•	•	•		•	700mbar(70kPa)
222 25 258	QF-VGD40.100-LDU-DN100	•	•	•	•		•	700mbar(70kPa)
222 25 259	QF-VGD40.100-LDU-DN125	•	•	•	•		•	700mbar(70kPa)
222 25 260	QF-VGD40.125-LDU-DN100	•	•	•	•		•	700mbar(70kPa)
222 25 261	QF-VGD40.125-LDU-DN125	•	•	•	•		•	700mbar(70kPa)
222 25 262	QF-VGD40.150-LDU-DN125	•	•	•	•		•	700mbar(70kPa)
222 25 263	QF-VGD40.150-LDU-DN150	•	•	•	•		•	700mbar(70kPa)

CTV - 检漏 Leakage control
F - 过滤器 Filter
LDU - LDU 检漏 LDU leakage control
Pct/DW - 检漏压力开关 Leakage pressure switch
PM - 最大压力开关 Max.pressure switch
Pm - 最小压力开关 Min.pressure switch
Pmc - 最小压力开关和检漏压力开关 min.pressure switch and leakage pressure switch
R - 调压器 Regulator
RF - 带过滤器的调压器 Regulator with filterring
RFP - 点火阀组用带过滤器的调压器 For ignition valve use ,the regulator with filterring
RP - 气动式调压器 Pheumatic regulator
VF - 蝶阀 Butterfly valve
VL - 操作阀 Operation valve
VL2 - 两段操作阀 Two stage operation valve
VLP - 点火操作阀 Igintion operation valve
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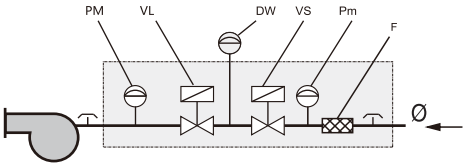
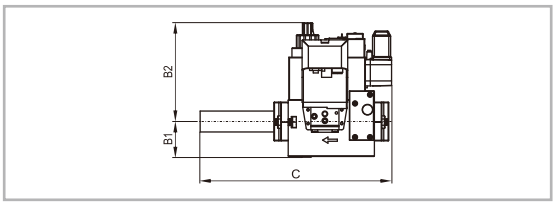
VS - 安全阀 Safety valve
VSP - 点火安全阀 Ignition safety valve
- 阀组进口直径 Gas train input diameter
1 - 主阀组直径 Main gas train diameter
2 - 点火阀组直径 Ignition gas train diameter

燃气阀组结构及组成





图

阀组编号 Gas Train Code	阀组型号 Gas Train Model	PM	Pm	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 171	QF-DMV-D507/11-DW-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 172	QF-DMV-D512/11-DW-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 173	QF-DMV-D512/11-DW-RC2"	•	•	•			•	500mbar（50kPa）
222 25 174	QF-DMV-D520/11-DW-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 175	QF-DMV-D520/11-DW-RC2"	•	•	•			•	500mbar（50kPa）
222 25 176	QF-DMV-D525/11-DW-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 177	QF-DMV-D525/11-DW-RC2"	•	•	•			•	500mbar（50kPa）
222 25 178	QF-DMV-D525/11-DW-DN65	•	•	•			•	500mbar（50kPa）
222 25 179	QF-DMV-D5065/11-DW-RC2"	•	•	•			•	500mbar（50kPa）
222 25 185	QF-DMV-D5065/11-DW-DN65	•	•	•			•	500mbar（50kPa）
222 25 187	QF-DMV-D5065/11-DW-DN80	•	•	•			•	500mbar（50kPa）
222 25 130	QF-DMV-D5065/11-DN80	•	•				•	500mbar（50kPa）
222 25 147	QF-DMV-D5065/11-LDU-DN80	•	•		•		•	500mbar（50kPa）
222 25 189	QF-DMV-D5065/11-DW-DN100	•	•	•			•	500mbar（50kPa）
222 25 191	QF-DMV-D5080/11-DW-DN65	•	•	•			•	500mbar（50kPa）
222 25 192	QF-DMV-D5080/11-DW-DN80	•	•	•			•	500mbar（50kPa）
222 25 193	QF-DMV-D5080/11-DW-DN100	•	•	•			•	500mbar（50kPa）
222 25 194	QF-DMV-D5080/11-DW-DN125	•	•	•			•	500mbar（50kPa）
222 25 195	QF-DMV-D5100/11-DW-DN80	•	•	•			•	500mbar（50kPa）
222 25 199	QF-DMV-D5100/11-DW-DN100	•	•	•			•	500mbar（50kPa）
222 25 200	QF-DMV-D5100/11-DW-DN125	•	•	•			•	500mbar（50kPa）
222 25 201	QF-DMV-D5125/11-DW-DN100	•	•	•			•	500mbar（50kPa）
222 25 202	QF-DMV-D5125/11-DW-DN125	•	•	•			•	500mbar（50kPa）
222 25 203	QF-DMV-D507/11-PLC-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 204	QF-DMV-D512/11-PLC-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 205	QF-DMV-D512/11-PLC-RC2"	•	•	•			•	500mbar（50kPa）
222 25 206	QF-DMV-D520/11-PLC-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 207	QF-DMV-D520/11-PLC-RC2"	•	•	•			•	500mbar（50kPa）
222 25 208	QF-DMV-D525/11-PLC-RC1 1/2"	•	•	•			•	500mbar（50kPa）
222 25 209	QF-DMV-D525/11-PLC-RC2"	•	•	•			•	500mbar（50kPa）
222 25 210	QF-DMV-D525/11-PLC-DN65	•	•	•			•	500mbar（50kPa）
222 25 211	QF-DMV-D5065/11-PLC-RC2"	•	•	•			•	500mbar（50kPa）
222 25 213	QF-DMV-D5065/11-PLC-DN65	•	•	•			•	500mbar（50kPa）
222 25 215	QF-DMV-D5065/11-PLC-DN80	•	•	•			•	500mbar（50kPa）
222 25 217	QF-DMV-D5065/11-PLC-DN100	•	•	•			•	500mbar（50kPa）
222 25 219	QF-DMV-D5080/11-PLC-DN65	•	•	•			•	500mbar（50kPa）
222 25 225	QF-DMV-D5080/11-PLC-DN80	•	•	•			•	500mbar（50kPa）
222 25 226	QF-DMV-D5080/11-PLC-DN100	•	•	•			•	500mbar（50kPa）
222 25 227	QF-DMV-D5080/11-PLC-DN125	•	•	•			•	500mbar（50kPa）
222 25 228	QF-DMV-D5100/11-PLC-DN80	•	•	•			•	500mbar（50kPa）
222 25 229	QF-DMV-D5100/11-PLC-DN100	•	•	•			•	500mbar（50kPa）
222 25 230	QF-DMV-D5100/11-PLC-DN125	•	•	•			•	500mbar（50kPa）
222 25 231	QF-DMV-D5125/11-PLC-DN100	•	•	•			•	500mbar（50kPa）
222 25 232	QF-DMV-D5125/11-PLC-DN125	•	•	•			•	500mbar（50kPa）

CTV - 检漏 Leakage control
F - 过滤器 Filter
LDU - LDU 检漏 LDU leakage control
Pct/DW - 检漏压力开关 Leakage pressure switch
PM - 最大压力开关 Max.pressure switch
Pm - 最小压力开关 Min.pressure switch
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RF - 带过滤器的调压器 Regulator with filterring
RFP - 点火阀组用带过滤器的调压器 For ignition valve use ,the regulator with filterring
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VPS/DSLC - VPS/DSLC 检漏 VPS/DSLC leakage control
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- 阀组进口直径 Gas train input diameter
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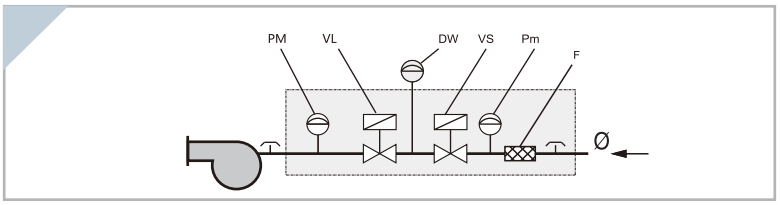
The Structure And Elements Of Gas Train



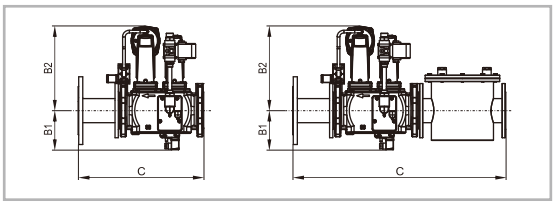


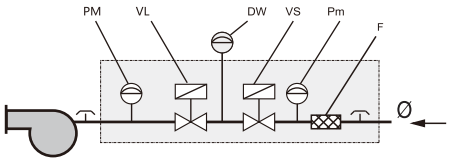
图 QF6

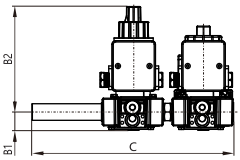
阀组编号 Gas Train Code	阀组型号 Gas Train Model	PM	Pm	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 264	QF-VGD40.065-DW-DN65	•	•	•			•	700mbar(70kPa)
222 25 265	QF-VGD40.065-DW-DN80	•	•	•			•	700mbar(70kPa)
222 25 266	QF-VGD40.065-DW-DN100	•	•	•			•	700mbar(70kPa)
222 25 267	QF-VGD40.080-DW-DN65	•	•	•			•	700mbar(70kPa)
222 25 268	QF-VGD40.080-DW-DN80	•	•	•			•	700mbar(70kPa)
222 25 269	QF-VGD40.080-DW-DN100	•	•	•			•	700mbar(70kPa)
222 25 270	QF-VGD40.080-DW-DN125	•	•	•			•	700mbar(70kPa)
222 25 271	QF-VGD40.100-DW-DN80	•	•	•			•	700mbar(70kPa)
222 25 272	QF-VGD40.100-DW-DN100	•	•	•			•	700mbar(70kPa)
222 25 273	QF-VGD40.100-DW-DN125	•	•	•			•	700mbar(70kPa)
222 25 274	QF-VGD40.125-DW-DN100	•	•	•			•	700mbar(70kPa)
222 25 275	QF-VGD40.125-DW-DN125	•	•	•			•	700mbar(70kPa)
222 25 276	QF-VGD40.150-DW-DN125	•	•	•			•	700mbar(70kPa)
222 25 277	QF-VGD40.150-DW-DN150	•	•	•			•	700mbar(70kPa)
222 25 278	QF-VGD40.065-PLC-DN65	•	•	•			•	700mbar(70kPa)
222 25 279	QF-VGD40.065-PLC-DN80	•	•	•			•	700mbar(70kPa)
222 25 280	QF-VGD40.065-PLC-DN100	•	•	•			•	700mbar(70kPa)
222 25 281	QF-VGD40.080-PLC-DN65	•	•	•			•	700mbar(70kPa)
222 25 282	QF-VGD40.080-PLC-DN80	•	•	•			•	700mbar(70kPa)
222 25 283	QF-VGD40.080-PLC-DN100	•	•	•			•	700mbar(70kPa)
222 25 284	QF-VGD40.080-PLC-DN125	•	•	•			•	700mbar(70kPa)
222 25 285	QF-VGD40.100-PLC-DN80	•	•	•			•	700mbar(70kPa)
222 25 286	QF-VGD40.100-PLC-DN100	•	•	•			•	700mbar(70kPa)
222 25 287	QF-VGD40.100-PLC-DN125	•	•	•			•	700mbar(70kPa)
222 25 288	QF-VGD40.125-PLC-DN100	•	•	•			•	700mbar(70kPa)
222 25 289	QF-VGD40.125-PLC-DN125	•	•	•			•	700mbar(70kPa)
222 25 290	QF-VGD40.150-PLC-DN125	•	•	•			•	700mbar(70kPa)
222 25 291	QF-VGD40.150-PLC-DN150	•	•	•			•	700mbar(70kPa)

CTV - 检漏 Leakage control
F - 过滤器 Filter
LDU - LDU 检漏 LDU leakage control
Pct/DW - 检漏压力开关 Leakage pressure switch
PM - 最大压力开关 Max.pressure switch
Pm - 最小压力开关 Min.pressure switch
Pmc - 最小压力开关和检漏压力开关 min.pressure switch and leakage pressure switch
R - 调压器 Regulator
RF - 带过滤器的调压器 Regulator with filterring
RFP - 点火阀组用带过滤器的调压器 For ignition valve use ,the regulator with filterring
RP - 气动式调压器 Pheumatic regulator
VF - 蝶阀 Butterfly valve
VL - 操作阀 Operation valve
VL2 - 两段操作阀 Two stage operation valve
VLP - 点火操作阀 Igintion operation valve
VP - 点火阀 Igintion operation valve
VPS/DSLC - VPS/DSLC 检漏 VPS/DSLC leakage control
VS - 安全阀 Safety valve
VSP - 点火安全阀 Ignition safety valve
- 阀组进口直径 Gas train input diameter
1 - 主阀组直径 Main gas train diameter
2 - 点火阀组直径 Ignition gas train diameter

燃气阀组结构及组成
The Structure And Elements Of Gas Train

图 QF7





阀组编号 Gas Train Code	阀组型号 Gas Train Model	Pm	PM	DW	LDU	VPS/DSLC	压力表 Gas Train Code	最大压力 Gas Train Model
222 25 471	QF-MVD210+MVDLE210-DW-RC1 1/2"	•	•	•			•	360mbar (36kPa)
222 25 360	QF-MVD215+MVDLE215-DW-RC1 1/2"	•	•	•			•	200mbar (20kPa)
222 25 456	QF-MVD215+MVDLE215-DW-RC2"	•	•	•			•	200mbar (20kPa)
222 25 463	QF-MVD215+MVDLE215-DW-DN65	•	•	•			•	200mbar (20kPa)
222 25 487	QF-MVD220+MVDLE220-DW-RC1 1/2"	•	•	•			•	200mbar (20kPa)
222 25 457	QF-MVD220+MVDLE220-DW-RC2"	•	•	•			•	200mbar (20kPa)
222 25 461	QF-MVD220+MVDLE220-DW-DN65	•	•	•			•	200mbar (20kPa)
222 25 465	QF-MVD220+MVDLE220-DW-DN80	•	•	•			•	200mbar (20kPa)
222 25 735	QF-MVD2065/5-DW-DN65	•	•	•			•	200mbar (20kPa)
222 25 727	QF-MVD2065/5-DW-DN80	•	•	•			•	200mbar (20kPa)
222 25 790	QF-MVD2065/5-DW-DN100	•	•	•			•	200mbar (20kPa)
222 25 791	QF-MVD2080/5-DW-DN65	•	•	•			•	200mbar (20kPa)
222 25 792	QF-MVD2080/5-DW-DN80	•	•	•			•	200mbar (20kPa)
222 25 775	QF-MVD2080/5-DW-DN100	•	•	•			•	200mbar (20kPa)
222 25 776	QF-MVD2080/5-DW-DN125	•	•	•			•	200mbar (20kPa)
222 25 480	QF-MVD210+MVDLE210-PLC-RC1 1/2"	•	•	•			•	360mbar (36kPa)
222 25 481	QF-MVD215+MVDLE215-PLC-RC1 1/2"	•	•	•			•	200mbar (20kPa)
222 25 482	QF-MVD215+MVDLE215-PLC-RC2"	•	•	•			•	200mbar (20kPa)
222 25 483	QF-MVD215+MVDLE215-PLC-DN65	•	•	•			•	200mbar (20kPa)
222 25 484	QF-MVD220+MVDLE220-PLC-RC1 1/2"	•	•	•			•	200mbar (20kPa)
222 25 485	QF-MVD220+MVDLE220-PLC-RC2"	•	•	•			•	200mbar (20kPa)
222 25 486	QF-MVD220+MVDLE220-PLC-DN65	•	•	•			•	200mbar (20kPa)
222 25 490	QF-MVD220+MVDLE220-PLC-DN80	•	•	•			•	200mbar (20kPa)
222 25 491	QF-MVD2065/5+MVD2065/5-PLC-DN65	•	•	•			•	200mbar (20kPa)
222 25 492	QF-MVD2065/5+MVD2065/5-PLC-DN80	•	•	•			•	200mbar (20kPa)
222 25 495	QF-MVD2065/5+MVD2065/5-PLC-DN100	•	•	•			•	200mbar (20kPa)
222 25 497	QF-MVD2080/5+MVD2080/5-PLC-DN65	•	•	•			•	200mbar (20kPa)
222 25 498	QF-MVD2080/5+MVD2080/5-PLC-DN80	•	•	•			•	200mbar (20kPa)
222 25 499	QF-MVD2080/5+MVD2080/5-PLC-DN100	•	•	•			•	200mbar (20kPa)
222 25 430	QF-MVD2080/5+MVD2080/5-PLC-DN125	•	•	•			•	200mbar (20kPa)

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超低氮1吨烟气外循环
1Ton FGR gas burner

超低氮4吨全预混燃气燃烧器
4Ton full premix gas burner

超低氮2吨烟气外循环
2Ton FGR gas burner

超低氮6吨烟气外循环
6Ton FGR gas burner

超低氮12吨烟气外循环
12Ton FGR gas burner

热风型超低氮4吨烟气外循环
4Ton hot air FGR gas burner

超低氮4吨全预混燃气燃烧器
4Ton full premix gas burner

超低氮2吨烟气外循环
2Ton FGR gas burner

超低氮4吨烟气外循环
4Ton FGR gas burner

超低氮2吨烟气外循环
2Ton FGR gas burner

超低氮2吨烟气外循环
2Ton FGR gas burner

超低氮10吨烟气外循环
10Ton FGR gas burner

超低氮6吨烟气外循环
6Ton FGR gas burner

超低氮4吨全预混燃气燃烧器
4Ton full premix gas burner

超低氮2吨全预混燃气燃烧器
2Ton full premix gas burner

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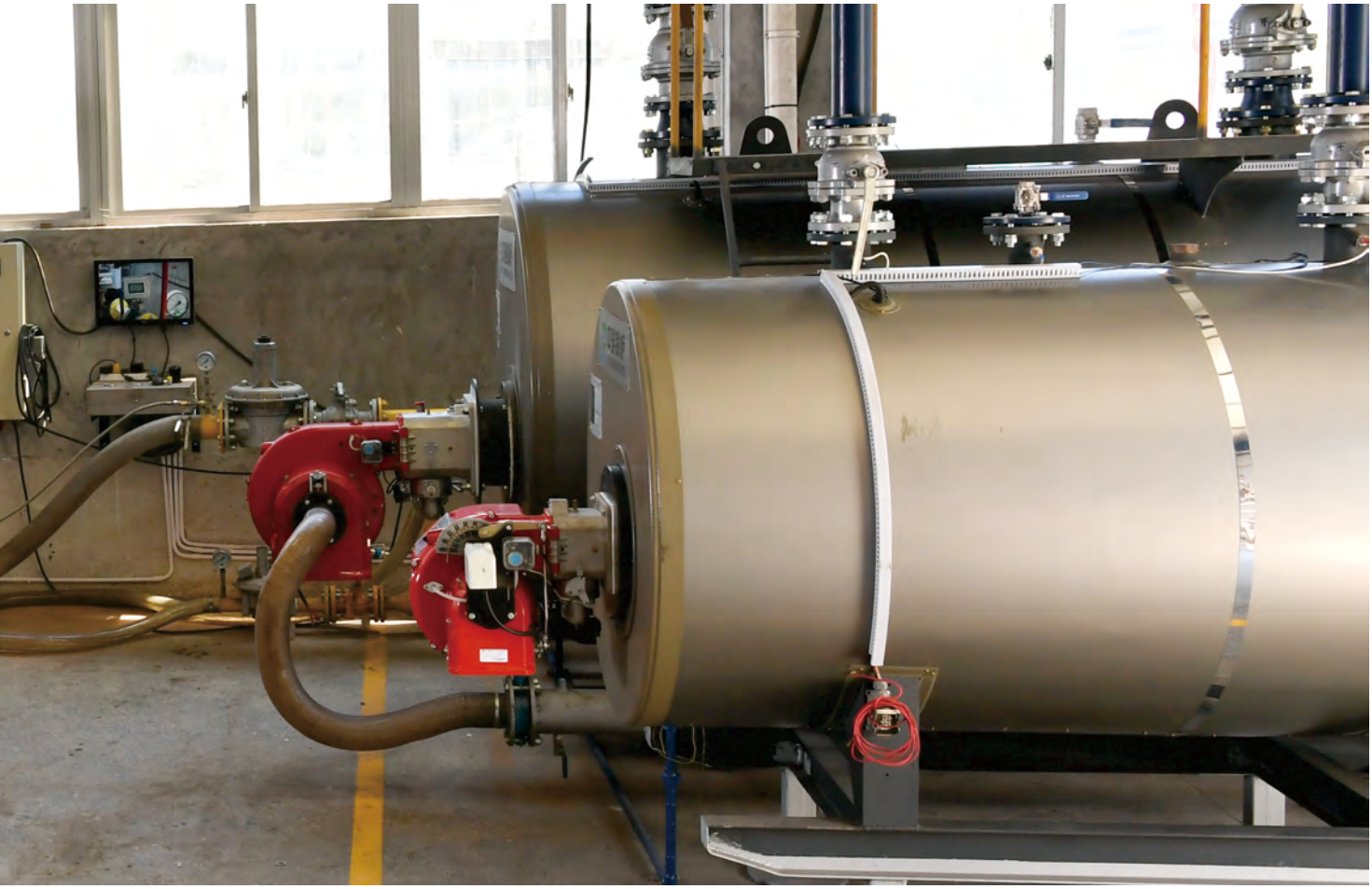
Boiler Testing Centre

服务于全球的热能技术
Serving The Global Heat
Energy Technology

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加工中心车间一角
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服务于全球的热能技术
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