System Control Engineering

The Gas, Combustion & Control Specialists

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System Control Engineering

A.B.N 61 815 305 496   A.C.N 006 491 881

Quality Products at Competitive Prices

- *Covering all of Australasia*

- *Australian owned and operated*

- *Representing over 30 supply companies*

- *Major supplier to the service industry for over 40 years*

- *Operating across Gas, Electrical, HVAC & R Industries*

- *Over 10,000 line items in our extensive range*

- *Sales offices in all states including WA, by All Controls (agent), and New Zealand (System Control NZ Ltd)*

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Blackburn	*Seven Hills*	*Loganholme*	*Stepney*
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CONTENTS

MAIN BURNERS -   COMMERCIAL - ATMOSPHERIC & INFRARED
INDUSTRIAL GAS, OIL & DUAL FUEL
PACKAGED GAS, OIL & DUAL FUEL
GAS BOOSTER

SECTION 1

BURNER - GAS	Atmospheric	
	Zip, Tube, Gas Log, Blade, Duck Bill	Polidoro
	Inshot	Beckett Gas
	Package Burner Complete	
	AZUR, BLU, MAX	Ecoflam
	40GS/GSD, GS/M, RS/RSD, RS/M, RS/M BLU, RS500/M	Riello
	BLU, RS/P BLU, P/M, MODUBLOC SE, GULLIVER BS/	
	BSD/BSM, RS/E - EV BLU, SP BLU, MODUBLOC SM	
	BLU, SE - SV BLU	
	Air Heat, In Duct & Fan Assisted	
		BVA
	4630, Zephyr	North American
	Aspirator Mixer	
	3065	North American
	Flame Retention Nozzle & Blast tips	
	462, 4682*	North American
	Flat Flame	
	4831, 4832, 4836	North American
	BIO, ZIO	Kromschroder
	Fuel Directed (Adjustable Flame Shape)	
	4384, 4482, 4808	North American
	High Pressure Inspirator	
	3070	North American
	High Velocity	
	Fire-all, Tempest, Hi-Vam, Hi-Ram	North American
	BIC, BICA	Kromschroder
	Immersion Tube	
	4762	North American
	BIOA, ZIOA	Kromschroder
	Line Burner - Premix	
	4630	North American
	Nozzle Mix	
	Fire-all, 4422, 4514, 4545, Magna-Flame	North American
	BIO, ZIO	Kromschroder
	Tunnel Burner - Premix	
	4659	North American
	Infra-Red - Radiant Tiles / Tubes	
	BIO	Kromschroder
	4724, Evenglow, 4726	North American
BURNER - OIL	Package Burner	
	Minor, Maior, Max	Ecoflam
	40G/GD, GULLIVER RG/RGD, RL, RL/1, RL/M	Riello
	MODUBLOC LE, RL BLU, RL/M BLU, RL/B MZ BLU	
	Nozzle Mix	
	5514	North American
BURNER - DUAL FUEL	Air Heat	
	Hi-Vam	North American
	High Velocity	
	Tempest (6435)	North American
	Immersion Tube	
	6758	North American
	Nozzle Mix	
	6422, 6425, Fireall, Magna Flame	North American
	Package Burner	
	RLS, RLS/M MX, RLS/M MZ, RLS/BP MX, RLS/E MX, LSE	Riello

BURNER - GAS

─────── ATMOSPHERIC ───────

ZIP TUBES - POLIDORO

P3*

- Used for cross lighting, centre or end entry
- c/w injectors & nuts
- Lengths available 200 - 1200 mm
- 1 - 7.3 MJ/h rating

INSHOT BURNER - BECKETT GAS

**W0115
W0117**

- Designed primarily for residential heating appliances utilising a forced or induced draught combustion system.
- Capacities: 10 - 70 MJ/h
- Typical applications:
  Residential heating furnaces
  Room heaters
  Hot water boilers
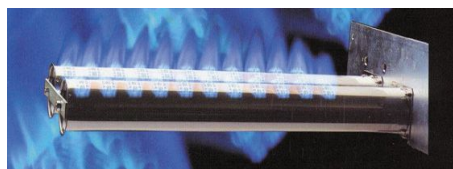
TUBE BURNERS - POLIDORO

P0*

- Designed for use with all types of boilers, space heaters & other thermal applications
- Burners are entirely stainless steel
- Design of the burner port provides flame stability for all types of gas
- Low noise level
- Suitable for all types of gas (change of injector)
- Lengths from 300 mm to 970 mm
- 50 - 60 mm in diameter
- 24 - 127 MJ/h ratings

GAS LOG FIRES - POLIDORO

P02*

- Suitable for gas operated log fires
- LPG and Natural Gas
- Maximum of 40 MJ/h

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BURNER - GAS cont....

BLADE BURNERS - POLIDORO

P0*

- Specifically designed for instantaneous water heaters and wall hung boilers where an even flame spread of low height is required
- Suitable for most gases including LPG (change of injector)
- Low noise
- Adaptable to any combustion chamber
- Available 7 piece to 20 piece
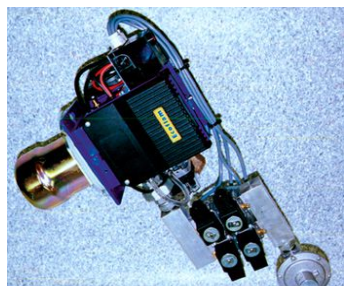- Rated 56 - 160 MJ/h

DUCK BILL / MONGOLIAN BURNERS - SCE

P34*

- Suitable for commercial wok applications
- Available with 18, 23 & 32 jets

PACKAGE BURNER COMPLETE

AZUR - ON / OFF - ECOFLAM
SMALL TO MEDIUM CAPACITY

EC4*

- AZUR 30   16 to 37 kW
- AZUR 60   35 to 72 kW
- AZUR 80   58 to 93 kW

BLU - ON / OFF - ECOFLAM
MEDIUM TO LARGE CAPACITY

EC4*

- BLU 120   60 to 117 kW
- BLU 170   75 to 179 kW
- BLU 250   98 to 240 kW
- BLU 350 118 to 350 kW
- BLU 500 190 to 500 kW
- BLU 700 250 to 700 kW

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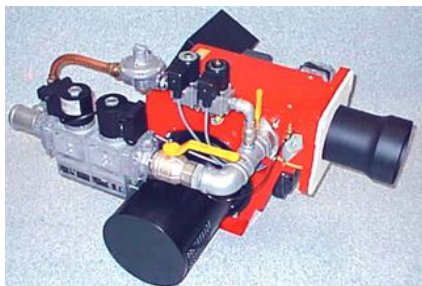
BLU PAB - HI / LOW AND MOD - ECOFLAM

EC4*

- BLU 120 PAB /R 60 to 117 kW
- BLU 170 PAB /R 75 to 179 kW
- BLU 250 PAB /R 98 to 240 kW
- BLU 350 PAB /R 118 to 350 kW
- BLU 500 PAB /R 190 to 500 kW
- BLU 700 PAB /R 250 to 700 kW
- BLU 1000 PAB /R 300 to 1000 kW
- BLU 1200 PAB /R 400 to 1200 kW
- BLU 1400 PAB /R 400 to 1300 kW

R = Air Gas Ratio Control

RIELLO - 40GS SERIES

R313*

- One stage package gas burner
- Heat Output 11 - 220 kW
- Easy to install & adjust
- Reduced noise output
- Safe working

RIELLO - 40GSD SERIES

R321*

- Two stage package gas burner
- Heat Output 29 - 220 kW
- Easy to install & adjust
- Reduced noise output
- Safe working

RIELLO - GS/M SERIES

R35*

- 2 Stage (Progressive or Modulating) gas burner
- Heat Output 22 - 194 kW
- Easy to install & adjust
- Reduced noise output
- Safe working

RIELLO - GULLIVER RS SERIES

R316*

- Single stage gas burner
- Heat Output 160 - 330 kW
- High combustion performance (for small size)
- Features Microprocessor based flame control panel (featuring diagnostic functions)
- Easy to install & adjust
- Reduced noise output

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BURNER - GAS cont....

RIELLO - GULLIVER RSD SERIES

R323*

- 2 Stage Gas Burner
- Heat Output 160 - 345 kW
- High combustion performance (for small size)
- Features Microprocessor based flame control panel (featuring diagnostic functions)
- Easy to install & adjust
- Reduced noise output

RIELLO - GULLIVER RS SERIES

R316*

- Heat Output 163 - 465 kW
- Single stage operation
- Fitted with microprocessor control panel (featuring operation & fault diagnosis indicators)
- Flexibility of use and excellent operation at all firing rates
- Designed for use in hot or superheater water boilers, hot air or steam generators & diathermic oil boilers
- Simple use and maintenance
- Reduced noise output

RIELLO - RS SERIES

R326*

- Heat Output 81 - 2290 kW
- 2 Stage Progressive operation
- Designed for use in hot water boilers or superheaters, hot air or steam generators or diathermic oil boilers
- Low sound emissions
- Reduced dimensions, simple use and maintenance
- Wide range of accessories available

RIELLO - RS/M SERIES

R354*

- Heat Output 52 - 2290 kW
- 2 Stage Progressive or Modulating (requires PID logic controller & respective probes) operation
- Designed for use in hot water boilers or superheaters, hot air or steam generators or diathermic oil boilers
- Low sound emissions
- Reduced dimensions, simple use and maintenance
- Wide range of accessories available

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BURNER - GAS cont....

RIELLO - RS/M BLU SERIES

R326*

- Heat Output 90 - 1860 kW
- 2 Stage Progressive or Modulating (requires PID logic controller & respective probes) operation
- Designed for use in hot water boilers or superheaters, hot air or steam generators or diathermic oil boilers
- Low sound emissions
- High efficiency levels (reduce fuel consumption & running costs)

RIELLO - RS500/M BLU GAS BURNER

R354*

- Heat Output 1000 - 5169 kW
- 2 Stage or Modulating (requires PID Logic Regulator or external 4 - 20mA Signal) operation
- Monoblock structure (all necessary components combined into a single unit)
- Designed for use in hot water boilers and industrial steam generators
- High modulation ratio on all firing rates
- Advanced combustion head guarentees reduced pollution emissions (NOx < 80 mmg/kWh)
- Easy installation & maintenance

RIELLO - RS/P BLU SERIES

R326*

- Heat Output 700 - 4500 kW
- 2 Stage or Modulating (requires PID) operation
- Designed for use in hot water boilers & industrial steam generators
- Modular monoblock structure (all necessary components can be combined in a single unit)
- High efficiency & stability
- Innovative combustion head ensures reduced noise & pollutants

RIELLO - GAS P/M SERIES

R355*

- Heat Output 80 - 4885 kW
- Progressive 2 Stage operation or full modulation
- Features an advanced modulation control system and probes
- Suited to applications requiring versatility of control (process, steam, refrigeration absorption) where a variable output is needed

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RIELLO - MODUBLOC SE SERIES

R35**

- Heat Ouptut 1070 - 9580 kW
- Modulating operation
- Innovative electronic module, provides control of the air / fuel ratio & PID control of the generator temperature or pressure
- Designed for use in hot water boilers & industrial steam generators
- Monoblock structure (all necessary components can be combined in a single unit)
- High modulation ratio on all firing rates
- High efficiency & stability (obtains fuel consumption & operating cost reductions)

═══ AIR HEAT - IN DUCT & FAN ASSISTED ═══
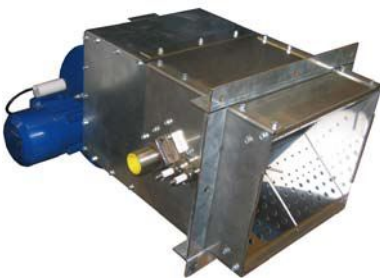
SERIES BVA ADB-LV - AIR HEAT BURNER

NBP10*

- High turn down
- Stainless steel

Capacities

- LD12 - 144Kw
- LD24 - 288Kw
- LD36 - 432Kw
- LD48 - 576Kw

═══════ PACKAGE BURNER LOW NOx ═══════

MAX - ON / OFF AND HI / LOW - ECOFLAM

EC4*

- MAX GAS   40   22kW to 45kW
- MAX GAS   70   25kW to 70kW
- MAX GAS   120   50kW to 110kW
- MAX GAS   170   56kW to 170kW
- MAX GAS   250   65kW to 230kW

4630 - REGEN - NORTH AMERICAN

N4630*

- Premix modular burner
- Clean, even combustion in air streams up to 205ºC
- Can be fired down
- 20 - 305 MJ/h at 1 kPa mixture pressure
- Stable up to 3 kPa mixture pressure

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RIELLO - GULLIVER BS SERIES

R314*

- Single Stage (Low Nox) Gas Burner
- Heat Output 16 - 246 kW
- Fitted with microprocessor based flame control panel (featuring diagnotic functions)
- Easy installation & maintenance
- Reduced noise output

RIELLO - GULLIVER BSD SERIES

R323*

- 2 Stage (Low Nox) Gas Burner
- Heat Output 16 - 246 kW
- Fitted with microprocessor based flame control panel (featuring diagnotic functions)
- Easy installation & maintenance
- Reduced noise output

RIELLO - GULLIVER BSM SERIES

R352*

- 2 Stage (Progressive or Modulating) Gas Burner
- Heat Output 26 - 250 kW
- Low NOx
- Easy installation & maintenance
- Reduced noise output

RIELLO - RS/E - EV BLU SERIES

R354*

- Heat Output 500 - 4500 kW
- Modulating operation
- Designed for use in hot water boilers & industrial steam generators
- Monoblock structure (all necessary components can be combined into a single unit)
- Fast & easy installation
- High modulation ratio at all firing rates
- Highly efficient & stable

RIELLO - SP BLU SERIES

R35**

- Heat Output 1634 - 10400 kW
- Fast & easy installation
- Designed for use in hot water boilers and industrial steam generators
- High efficiency & stability
- Advanced combustion head reduces pollution emissions
- Low sound emissions

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### RIELLO - MODUBLOC SM BLU SERIES

R35*

- Heat Output 1300 - 8300 kW
- 2 Stage or Modulating (requires installation of a PID logic controller or external 4 - 20 mA signal) operation
- Monoblock structure (all necessary components are combined into a single unit)
- Designed for use in hot water boilers and industrial steam generators
- High modulation ratio on all firing rate ranges
- High efficiency and stability (resulting in reduced operating costs)
- Advanced combustion head reduces pollution emissions

RIELLO - MODUBLOC SE - SV BLU SERIES

R35**

- Heat Output 1000 - 10050 kW
- Modulating operation
- Monoblock structure (all necessary components are combined into a single unit)
- Designed for use in hot water boilers and industrial steam generators
- High modulation ratio on all firing rate ranges
- Advanced combustion head reduces pollution emissions
- Low sound emissions (fan unit fitted on line with the combustion head)
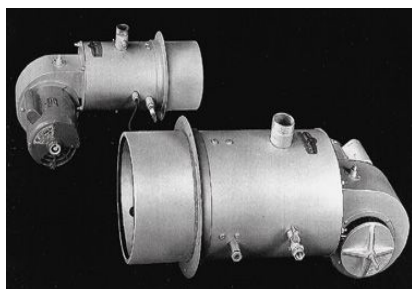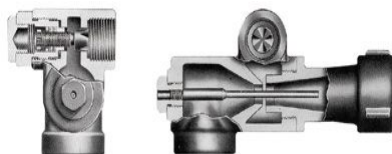
4988 - ZEPHYR BURNER - SCE

N4988*

- Low noise, low NO_x
- Versatile air heat burner for in-duct or fan assisted applications
- High turndown 50:1 or more
- Models for 500, 1000, 2500, 4000, 6000 & 9000 MJ/h.

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BURNER - GAS cont....

ASPIRATOR MIXER

3065 - NORTH AMERICAN

N3065*

- Low cost high accuracy Air/Gas mixer
- Simple gas adjuster built-in
- Mixer capacity can be altered by changing rods
- Easily accessible

FLAME RETENTION NOZZLE & BLAST TIPS

4622 & 4624 - NORTH AMERICAN

N462*

- Small, high output tips for premix systems
- 7 to 51 MJ/h models

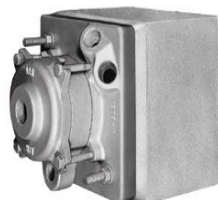### 4682 - NORTH AMERICAN

N4682*

- Robust burner nozzles for premix systems
- Well defined medium to high velocity flames
- 20 - 200 mm sizes

FLAT FLAME BURNERS

4831 - NORTH AMERICAN

N4831*

- No forward velocity, heats only the adjacent wall
- From 73 to 130 MJ/h

4832 - NORTH AMERICAN

N4832*

- Models from 247 to 2764 MJ/h
- Large uniform heating area
- UV or Flame Rod

4836 - NORTH AMERICAN

N4836*

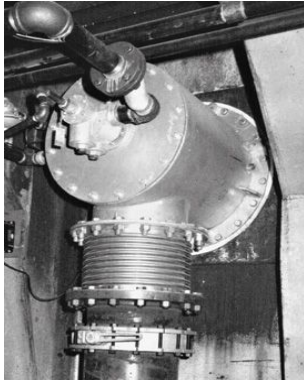- Models from 247 to 6963 MJ/h
- Roof section design
- UV or Flame Rod

BIO - K, ZIO - K - KROMSCHRODER

KR361*

- From 90 kW to 630 kW
- UV or Flame Rod
- Light weight design

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BURNER - GAS cont...

FUEL DIRECTED (ADJ FLAME SHAPE)

N4384*

4384 - NORTH AMERICAN
- Capacity range 4294 to 64144 MJ/h
- 3:1 Flame length adjustment on site
- Low NO$_X$
- Low noise, low air pressure

N4482*

4482 - NORTH AMERICAN
- High temperature version of 4384 for furnaces up to 1400°C
- Low NO$_X$, low noise

N4808*

4808 - NORTH AMERICAN
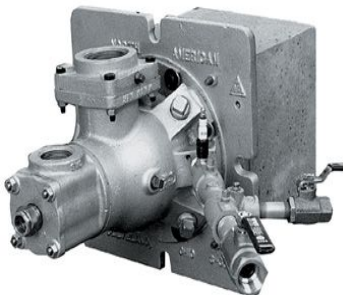- 11400 to 19728 MJ/hr
- Changes heat release pattern not just flame pattern
- Manual or automatic flame shaping

HIGH PRESSURE INSPIRATOR

N3070*

3070 - NORTH AMERICAN
- High output
- Excellent mixing
- Can be used with compressed air to develop low pressure air supply
- Range 18 to 8102 MJ/h

HIGH VELOCITY

N4425*MB
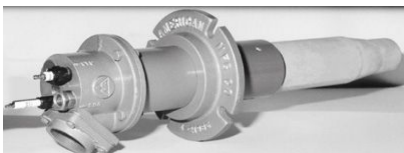
4425 MB FIRE-ALL - NORTH AMERICAN
- Medium to high velocity with reduced tile nozzle
- Low noise / low NO$_X$
- High excess air / excess fuel
- Range 222 to 3440 MJ/h
- High turndown

N444*

444* SERIES - TEMPEST- NORTH AMERICAN
- 76 to 2295 MJ/h models
- Direct spark ignited
- Ultra high velocity
- High turndown
- Suitable in furnaces up to 1600°C
- Available in various tile shapes & types including silicon carbide & composite ceramic

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N4570*

4570 - HI VAM - NORTH AMERICAN
- Gas & or Light Oil
- Ultra high velocity
- All metal lightweight burner
- Capacities from 8440 to 17830 MJ/h
- Direct spark or pilot ignition
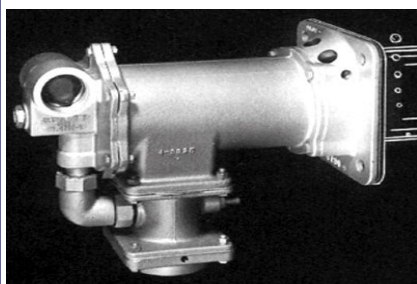
N4575*

4575 - HI RAM - NORTH AMERICAN
- Capacity up to 26375 MJ/h
- Ultra high velocity

KR362*

BIC, BICA - KROMSCHRODER
- Lightweight design
- Silicon carbide nozzle
- Burner lengths up to 8 metres for special applications
- Available with integral pilot burner
- Range 54 to 1296 MJ/h

───── IMMERSION TUBE ─────

N4762*

4762 - NORTH AMERICAN
- High heat release
- Comprehensive selection data
- 897 to 4430 MJ/h models
- Pilot or direct spark ignition

KR36*

BIOA-H, ZIOA - H - KROMSCHRODER
- Lightweight design
- From 20 to 1000 kW
- UV or Flame rod
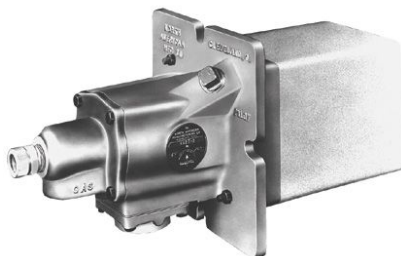- Direct spark ignited

───── LINE BURNER ─────

N4630*

4630 - REGEN - NORTH AMERICAN
- Stable premix burner delivering a line of flame over long distances
- 0.09 kPa to 3 kPa mixture pressure
- Capacities from 20 to 305 MJ/h per 300 mm (at 1 kPa)
- Expandable by adding sections

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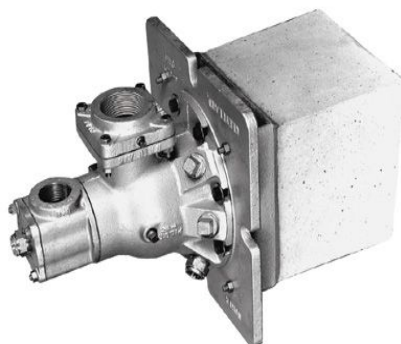www.systemcontrol.com.au

BURNER - GAS cont...

---------- NOZZLE MIX ----------

N4423*

4423 FIREALL - NORTH AMERICAN
- Versatile, robust, proven design
- Capacities from 66 to 456 MJ/h
- High turndown
- High temperature version 4424
- Pilot or spark ignited
- High excess air ability

N4422*

442* - NORTH AMERICAN
- Robust design
- Capacities 203 to 4832 MJ/h
- High turndown
- Stable at high excess air and excess fuel
- Pilot or spark ignited
- Short flame - fast mixing
- Low NO_X
- Options include swing away head, metal firing head, high back pressure, dual fuel

HIGH TEMPERATURE VERSION - 4425

N4514*

4514 - NORTH AMERICAN
- Rugged & versatile
- 1572 to 23000 MJ/h models
- High turndown
- Suitable for preheated air up to 350°C

N4545*

4545 - FLAME JET - NORTH AMERICAN
- Economical general purpose burner
- 1560 - 13080 MJ/h models

N4795*

4795 - MAGNA-FLAME - NORTH AMERICAN
- Long flame, high output burner
- 8200 to 56500 MJ/h
- Custom models available

N4796*

4796 - MAGNA-FLAME - NORTH AMERICAN
- Wide flame, high output burner
- Up to 74000 MJ/h
- Low NO_X
- Custom models available

KR361*

BIO - ZIO - KROMSCHRODER
- Compact / Lightweight design
- 20 to 1000 kW
- Direct spark ignited
- Low NO_X models available

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BURNER - GAS cont...

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──────── TUNNEL BURNER ────────

N4659*

4659 - NORTH AMERICAN
- High intensity premix nozzle & tile assembly

──────── INFRA-RED & RADIANT - TILES ────────

W0450

BURNER TILES - NORTON CERAMICS
To Suit
- Domestic Appliances
- Camping radiators
- Infra-red radiators
- Food service appliances
- Option of low NO_X

JA*

INFRA-RED BURNERS, CHICKEN BROODERS, CERAMIC TILES, BUNSEN BURNERS - JACKWAL
- Large range of sizes and ratings for almost every infra-red application

KR367*

BIO, ZIO - KROMSCHRODER
- Light weight modular design
- From 20 to 1000 kW

N4724*

4724 - RADIANT TUBE - NORTH AMERICAN
- High even heat release
- Suitable for preheated air up to 537°C
- Adjustable primary air for a wide range of tube applications
- 243 to 2574 MJ/h

N4725*

4725 - EVENGLOW - NORTH AMERICAN
- Even heat release from the start of the tube
- 3 ignition methods - Direct spark, Pilot (auto), Pilot (manual)

N4726*

4726 - RADIANT TUBE - NORTH AMERICAN
- Adjustable flame length for short tubes
- Simple & economical
- 147 to 1560 MJ/h

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BURNER - OIL

——————— PACKAGE BURNER ———————

EC3*

MINOR - LIGHT OIL BURNERS - ECOFLAM
ON/OFF OR HIGH/LOW OPERATION
- Minor UNO   20 - 39 kW
- Minor 4   20 - 53 kW
- Minor 8   45 -   93 kW
- Minor 12   70 - 140 kW
- Minor 20   110 - 230 kW
- Minor 30   175 - 326 kW

EC3*

MAIOR - LIGHT OIL BURNERS - ECOFLAM
ON/OFF OR HIGH/LOW OPERATION
- Maior 10 AB   59 - 118 kW
- Maior 15 AB 106 - 178 kW
- Maior 25 AB 142 - 296 kW

EC3*

MAIOR - LIGHT OIL BURNERS - ECOFLAM
HIGH/LOW OPERATION

- Maior 35 AB 237 - 415 kW
- Maior 45 AB 296 - 533 kW
- Maior 60 AB 415 - 711 kW
- Maior 80 AB 474 - 949 kW
- Maior 130 AB 830 - 1425 kW

R115*

RIELLO - 40G SERIES

- Light Oil Burners
- Single stage operation
- 11 Models available
- Heat Output: 12 - 240 kW (depending on model)
- Reduced noise output
- Easy to install & maintain

R12*

RIELLO - 40GD SERIES

- Light Oil Burners
- Two stage operation
- 4 Models available
- Heat Output: 19 - 240 kW (depending on model)
- Reduced noise output
- Easy to install & maintain

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BURNERS - OIL cont.....

RIELLO - GULLIVER RG SERIES

R1*

- Light Oil Burners
- Single stage operation
- 10 Models available
- Heat Output: 16.6 - 309.5 kW (depending on model)
- Reduced noise output
- Easy to install & maintain

RIELLO - GULLIVER RGD SERIES

R23**

- Light Oil Burners
- Two stage operation
- 5 Models available
- Heat Output: 14 - 296 kW (depending on model)
- Reduced noise output
- High level of thermal unit efficiency
- Easy to install & maintain

RIELLO - RL/1 SERIES

R118*

- Light Oil Burners
- Single stage operation
- Heat Output: 178 - 332 kW (depending on model)
- Reduced noise output
- Easy to install & maintain
- Suitable for use in hot water or super heated water boilers, hot air or steam generators, diathermic oil boilers

RIELLO - RL SERIES

R128*

- Light Oil Burners
- Two stage operation
- Heat Output: 95 - 2443 kW (depending on model)
- Reduced noise output
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators & diathermic oil boilers

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BURNERS - OIL cont.....

RIELLO - RL/M SERIES

R142*

- Light Oil Burners
- Two stage or Modulating (req. Regulator & Probes) operation
- Heat Output: 90 - 2431 kW (depending on model)
- Reduced noise output
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators & diathermic oil boilers

RIELLO - MODUBLOC LE SERIES

R14*

- Light Oil Burner
- Modulating Operation (operates through Electronic Module)
- Electronic Module controls air / fuel ration & PID control of generator temperature or pressure
- Heat Output: 1070 - 10000kW (depending on model)
- High modulation ratio at all firing rates
- Reduced noise emissions

═══ LOW NOx ═══

MAX - LIGHT OIL BURNER - ON / OFF ECOFLAM

EC3*

- MAX 4   20kW to 59kW
- MAX 8   47kW to 105kW
- MAX 12   60kW to 130kW
- MAX 15   73kW to 190kW
- MAX 20   86kW to 237kW
- MAX 30   110kW to 319kW
- MAX P15   77kW to 190kW
- MAX P25   102kW to 300kW

MAX - LIGHT OIL BURNER - HI / LOW ECOFLAM

- MAX P15AB   77kW   to 190kW
- MAX P25AB   102kW to 300kW

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BURNERS - OIL cont.....

RIELLO - RL BLU SERIES

R128*

- Light Oil Burners
- Two stage operation
- Heat Output: 95 - 356 kW (depending on model)
- 3 Position Servo Motor (for correct air output & air damper closing when the burner is off)
- Status Panel (hour meter, ignition meter & fault diagnosis)
- Reduced noise output
- Easy to install & maintain
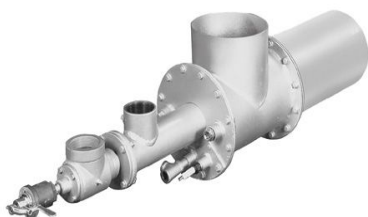- Designed for use in hot or superheater water boilers, hot air or steam generators & diathermic oil boilers

RIELLO - RL/M BLU SERIES

R142*

- Light Oil Burners
- Two stage or Modulating (req. Regulator & Probes) operation
- Heat Output: 188 - 1023 kW (depending on model)
- Reduced noise output
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators

RIELLO - RL/B MZ BLU SERIES

R14*

- Light Oil Burners
- Two stage operation
- Heat Output: 600 - 4450 kW (depending on model)
- Reduced noise output
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators

———— NOZZLE MIX ————

5514 - FIRE-ALL - NORTH AMERICAN

N5514*

- Suitable for light & heavy oils
- High turndown
- Ranges from 1888 to 26058 MJ/h
- Low pressure atomiser

| Victoria | New South Wales | Queensland | South Australia | New Zealand | **1 - 17** |
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BURNER - DUAL FUEL

━━━━━━━━ AIR HEAT ━━━━━━━━

6570 - HI VAM - NORTH AMERICAN

N6570*

- High velocity air heater
- All metal design
- Portable
- 8440 to 17830 MJ/h
- Gas and/or light oil

━━━━━━━━ HIGH VELOCITY ━━━━━━━━

6435 - TEMPEST - NORTH AMERICAN

N6435*

- High velocity
- Gas and/or light oil
- Wide range 137 to 1688 MJ/h
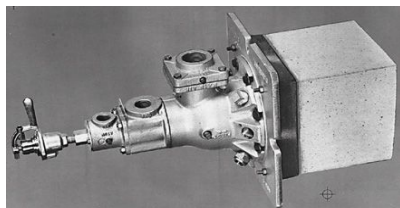- Suitable for preheated air to 425°C
- Low air pressure atomiser

━━━━━━━━ IMMERSION TUBE ━━━━━━━━

6758 - NORTH AMERICAN

N6758*

- Gas / Light oil immersion tube burner
- Simple, versatile
- Range 148 - 1560 MJ/h

━━━━━━━━ NOZZLE MIX ━━━━━━━━

6422, 6425 - NORTH AMERICAN

N642*

- Robust furnace burner for gas & / or light oil
- Low air pressure atomiser
- High turndown
- Fast mixing, compact flame
- 274 to 4726 MJ/h

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BURNER - DUAL FUEL cont....

6514 - FIREALL - NORTH AMERICAN

N6514*

- Gas and heavy or light oil firing
- High turndown
- 1888 to 26060 MJ/h
- Robust design
- Low air pressure atomiser

6795, 6796, 6819 - MAGNA FLAME - NORTH AMERICAN

N679*
N6819*

- Quiet, high capacity gas / light or heavy oil burner
- 14137 to 56608 MJ/h
- 6796 wide flame version
- 6819 refractory lined burner for preheated air to 593°C

———— PACKAGE BURNER ————-

RIELLO - RLS SERIES

R4*

- Dual Fuel Burner
- 2 Stage Operation
- Heat Output: 100 - 1395kW (depending on model)
- Status panel provides; hour meter, ignition meter & fault diagnosis information
- Wide range of accessories available
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators

RIELLO - RLS/M MX SERIES

R4*

- Dual Fuel Burner
- Low NOx
- 2 Stage Operation
- Heat Output: 200 - 1840kW (depending on model)
- Wide range of accessories available
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators

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BURNER - DUAL FUEL cont....

1 - 20

RIELLO - RLS/M MZ SERIES

R4*

- Dual Fuel Burner
- Low NOx
- 2 Stage Operation
- Heat Output: 550 - 2150 kW (depending on model)
- Wide range of accessories available
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot or superheater water boilers, hot air or steam generators

RIELLO - RLS/BP MX SERIES

R4*

- Dual Fuel Burner
- Low NOx (in both operating modes)
- 2 Stage Operation
- Heat Output: 600 - 4500 kW (depending on model)
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot water boilers, overheated water boilers & steam boilers

RIELLO - RLS/E MX SERIES

R4*

- Dual Fuel Burner
- Low NOx (in both operating modes)
- 2 Stage Operation
- Heat Output: 600 - 4500 kW (depending on model)
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot water boilers, overheated water boilers & steam boilers

RIELLO - MODUBLOC LSE SERIES

R4*

- Dual Fuel Burner
- Modulating Operation
- Heat Output: 1070 - 9580 kW (depending on model)
- Electronic Control Module (controls air/fuel ratio & PID control of generator pressure or temperature)
- High modulation ratio at all firing rates
- Reduced sound emissions
- Easy to install & maintain
- Designed for use in hot water boilers, overheated water boilers & steam boilers

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System Control Engineering

PILOT BURNER - COMMERCIAL	Robertshaw Pilots	
	RS1830-717, RS76510, RS2CHR6206,	Robertshaw
	RS5CHR7612, RS2CH6062, RSSHR-44,	
	RS1890-100, RS6CH24-1,	
	Pilot for use with Thermocouple	
	1,2 & 3 Way, Target 1723	Catoba
	525, 470, 509	Polidoro
	Q314 Series	Honeywell
	Pilot for use with Thermopile	
	701	White Rodgers
	Pilot for use with Electronic Ignition	
	E49	White Rodgers
	Pilot for Mercury Sensor	
	B Series	White Rodgers
PILOT BURNER - INDUSTRIAL		
	BP / 2	Brahma
	ZAI, ZMI, ZKIH, ZIO	Kromschroder
	4011, 4015, 4020, 5025	North American
THERMOCOUPLES	Robertshaw	
	Standard	
	Quick Response	
	Interruptor Blocks	
	Universal Kits	
THERMOPILES	Normal & Co-axial	
	G01A	White Rodgers
	1951	Robertshaw

ROBERTSHAW PILOTS

UNILINE PILOT

RS1830-717
- Uniline
- 3 way pilot

3CHA PILOT

RS76510
- 3CHA
- Natural gas pilot
- Available in LPG version

2CH PILOT

RS2CHR6206
- 2CH pilot
- LPG
- Right hand
- Available in left hand

2CH PILOT

RS2CH6062
- 2CH pilot - right hand
- Natural gas

5CH PILOT

RS5CHR7612
- 5CHR - 7612
- Natural gas

4SHR PILOT

R4SHR-44
- Pilot assembly
- Thermocouple, thermopile & electrode
- Available in Natural Gas
- Includes electrode, thermocouple & thermopile

FMEA PILOT

RS1890-100
- Pilot burner for FMEA valve
- Available in Natural Gas or LPG

6CH PILOT

RS6CH24-1
- 3 way pattern
- Alternative to Honeywell Q327 Pilot
- Available in Natural Gas or LPG

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PILOT BURNER - COMMERCIAL

**** Examples Only - Many Other Models Available ******

— PILOT FOR USE WITH THERMOCOUPLE —

CB1*

MULTI FLAME PATTERN - CATOBA
- 2 & 3 way flame pattern
- Flame adjustment
- Accepts standard thermocouple & electrode
- Option of Natural Gas or LPG
- Can be used for electronic ignition
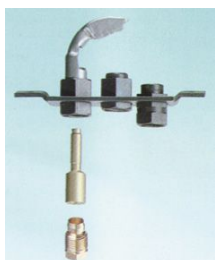
CB1723

TARGET 1723 - CATOBA
- Target pilot style
- Accepts standard electrode
- Can be used for thermocouple or flame sensor operation
- Option of Natural Gas or LPG

P1525M

525F - POLIDORO
- 3 way flame pattern
- Accepts a standard thermocouple
- Aerated flame resists draught
- Can be used for electronic ignition

P1470

470F - POLIDORO
- Vertical flame - 3 way
- Accepts standard electrode or thermocouple

P1509

509F - POLIDORO
- 509F Burner
- Supplied with NG injector
- Thermocouple & flame sensor
- Right bracket

HWQ314A*****

PILOTS - HONEYWELL
- Orifice type pilot burner
- Option of Natural Gas or LPG

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PILOT BURNER - COMMERCIAL cont...

═ PILOT FOR USE WITH ELECTRONIC IGNITION ═

W0129

E49 - WHITE RODGERS
- Long stable flame spray head (80°)
- Integral electrode, sensor and leads - 150 mm
- Designed for electronic ignition
- Option of Natural Gas or LPG

═══ PILOT FOR MERCURY SENSOR ═══

W013*

B SERIES - WHITE RODGERS
- Complete with mercury flame sensor, pilot burner and orifice fitting
- Options of port arrangement
- Option of Natural Gas or LPG

PILOT BURNER - INDUSTRIAL

B3*

BP/2 PILOT - BRAHMA
- Light industrial or commercial use
- Vertical flame, atmospheric
- Option of flame length 40 to 100 mm
- Fitted with electrode and flame sensor as standard
- Option of single or double probe
- Option of Natural Gas (2MC) or LPG (2PC)

KR340*

ZAI - KROMSCHRODER
- Light industrial or commercial use
- Vertical flame, atmospheric
- Option of flame length 40 to 100 mm
- Fitted with electrode and flame sensor as standard
- Option of Natural Gas or LPG
- Capacity - 3 kW

KR341*

ZMI - KROMSCHRODER
- Up to 3.4 kW capacity
- Available in 16 & 25 mm diameter
- Option of Natural Gas or LPG
- Lengths of 150 to 500 mm (others on request)
- Forced air supply

KR34*

ZKIH - KROMSCHRODER
- Up to 7.0 kW capacity
- For electronic ignition, ionization supervision, forced air supply
- Option of Natural Gas or LPG
- Lengths of 150 - 600 mm (others on request)
- Forced air supply

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PILOT BURNER - INDUSTRIAL cont..
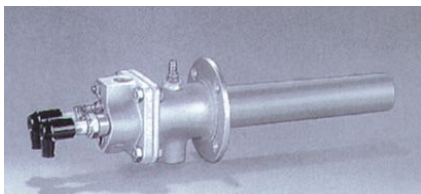
ZIO - KROMSCHRODER

KR361*

- Up to 20 kW capacity
- Pilot burner for specialized large burners, electric ignition and ionization supervision, forced air supply
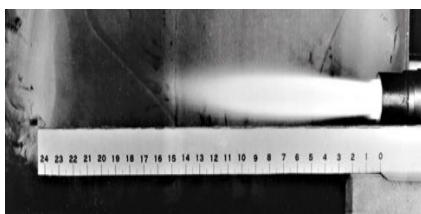- Option of Natural Gas or LPG

Lengths of 100 - 600 mm (others on request)
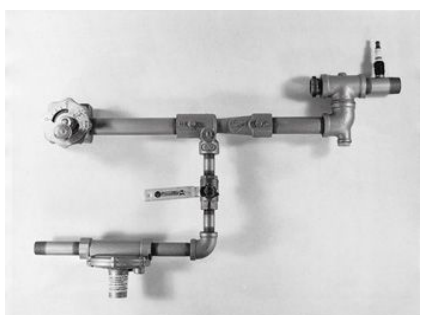
4011 PRE MIX GAS PILOT SETS - NORTH AMERICAN

N4011*

- Up to 32 MJ/h capacity
- Electrical ignition, forced air supply
- Option of Natural Gas or LPG
- Reliable lighting throughout the range
- Wide range of air and gas pressure conditions

4015 PRE MIX GAS PILOT SETS - NORTH AMERICAN

N4015*

- Up to 130 MJ/h capacity
- For electronic ignition, forced air supply
- Suitable for large capacity oil or gas fired industrial burners
- Reliable lighting throughout the range
- Wide range of air and gas pressure conditions

4020 NOZZLE MIX GAS PILOTS - NORTH AMERICAN

N4020*

- Up to a nominal 897 MJ/h
- For electronic ignition, forced air supply
- For large capacity oil or gas burners
- Sizes 20 to 80 mm

5025 LIGHT OIL PILOTS - NORTH AMERICAN

N5025

- Nominal out put - 122 MJ/h
- For electronic ignition, forced air supply
- Require an oil delivery pressure of 700 kPa and an air pressure of 3.5 kPa

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THERMOCOUPLES

══ ROBERTSHAW ══

THERMOCOUPLE - ROBERTSHAW

RST3318N
- Length 460mm
- 11 / 32 connection

Usable with Rheem hot water services

RSTS440N
- Length 440mm
- TS version available: includes safety switch

THERMOCOUPLE - ROBERTSHAW

RST33265
- Length 600mm
- 11 / 32 connection
- Commercial cooking

RSTS550N
- Length 550mm
- TS version available: includes safety switch

THERMOCOUPLE - ROBERTSHAW

RST3329AN
- Length 915mm
- 11 / 32 connection

══ STANDARD ══

THERMOCOUPLE - BRIVIS

HWQ309A1970B
- Length 24"
- Screw in Type

THERMOCOUPLE - BRIVIS

HWQ309A2135B
- Length 21"
- Clip in Type

EUROSIT (RHEEM) - SIT

Z01614
- Length 450 mm
- Overtemp Switch
- Silver Nut

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THERMOCOUPLES   cont....

SINGLE THERMOCOUPLE

CB21*

- Lengths stocked from 320 to 1200 mm
- Optional connections of 11/32", 8, 9 or 10 mm
- Option of plain or threaded head

QUICK RESPONSE

QUICK RESPONSE THERMOCOUPLE

CB21*

- Available in lengths 400 to 1200 mm
- Cold junction end connection 11/32", 8, 9 or 10 mm
- Option of plain or threaded head
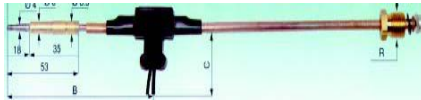
INTERRUPTOR BLOCKS

INTERRUPTOR BLOCK/WIRE THERMOCOUPLE

CB21*

- Available in lengths 400 to 1200 mm
- Cold junction end connections of 11/32", 8, 9 or 10 mm
- Option of plain or threaded head

INTERRUPTOR BLOCKS

CC10*

- Cold junction end connection 11/32", 8, 9 or 10 mm
- Brass construction
- Easily adaptable

SIT THERMOCOUPLE WITH INTERUPTOR

- 600 mm Length
- 9 mm Nut

Z01616

- Non Threaded Head

Z01617

- Threaded Head

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THERMOCOUPLES cont....

UNIVERSAL KITS

UNIVERSAL - INAMET

CC4*
CB22*

- Available in lengths 600, 900, 1200, 1500
- Fits all pilot burners
- Unique conical locking nuts
- Complete set of split nuts supplied
- Easy installation

UNIVERSAL - WHITE RODGERS

W0151

- Lengths - 18 to 72 Inch
- Fits Honeywell, Robertshaw & White Rodgers
- Easy installation
- Long life

HONEYWELL UNIVERSAL THERMOCOUPLE

- Universal Kit

HWQ340A1066
HWQ340A1074
HWQ340A1090
HWQ340A1108

- 450 mm (18")
- 600 mm (24")
- 900 mm (36")
- 1200 mm (48")

THERMOPILES

G01A - WHITE RODGERS

JD01204

- Thermopile / pilot generator
- 750 millivolt operation
- 900 mm length
- Long life
- Fibreglass cable lead with split spade terminal

1951 - ROBERTSHAW

RS1951/536

- Thermocouple / pilot generator
- 750 millivolts
- Length: 915 mm
- Coaxial

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| BALL / ISOLATING | | *ART 06*, 07*, 09*, 11*, 12*, 132, 144, 216, 26** | Itap |
| | | *Dura Valve* | SCE |

NON-RETURN			
		ART 103, 130, 100	Itap
		GRSF	Kromschroder

| ADJUSTABLE PORT | | *Needle Valves* | SCE |
| | | *1004, 1008, 1807, 1808* | North American |

BUTTERFLY	Manual		
		DK	Kromschroder
		1123	SCE
		1145, 1155	North American
	Motorised		
		070 + Motor	Itap/NEP
		1126	SCE
		LFC, DK, MK, BVA, BVG	Kromschroder
		1146, 1156	North American

OPTIONS: Standing Pilot, Electronic, Fast Open, Slow Open, Motorised, Valve Emergency Stop Buttons, Normally Open, Double Block, Hi / Low, Modulating / Combination

SOLENOID			
	Gas		
		501, MINISIT, EUROSIT, AC3, D3	S.I.T
		220 Series, UNITROL 7000 Series	Robertshaw
		6801	Negaban
		25M, 36C, 36E, 36G, 36H, 784	White Rodgers
		E8, E6, EG12, EG15, EG25, EG30, EG40, GVC	Brahma
		TK 25	Theobald
		VG, VGP, VAD, VAG, VAN, VAS, VAS/L, VAS/N, VCS, VS, VD, VK, CG, GVS, GVI, GVE, EG25*M, EG30*M	Kromschroder
		GB	Alcon
		1518, 1519	North American
		L0201, L0201K	Triflex
		V800 & VR8300	Honeywell
	Oil / Air / Steam		
		E7	Brahma
		MG, MA	Staiger
		VR	Kromschroder
		ACD	Alcon
		1008,1813, 1196	North American

SLAM SHUT	Gas		
		S100, S300	Jeavons
		JSAV	Kromschroder

VALVES

SECTION 3

PRESSURE RELIEF	Gas		
		J48K, J48KH	Jeavons
		VSBV25R40	Kromschroder
		SMVSS032510	Samtech
		RE7659, 3148, PRV9432, 8555, A3146 A8017	Rego
	Oil		
		7177	North American
	Water		
		RSHT55-1400	RMC
FILLER GUN			
		7659	Robertshaw

BALL VALVES

3 - 1
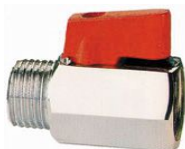
MINI BALL VALVES - ITAP

I007*

- ART 125   FxF
- ART 126   MxF
- Sizes available 8 - 20 mm
- Maximum working pressure 1540 kPa
- Suitable for cold water, hot water, oils and compressed air

* Not approved for use with potable water

VIENNA - GENERAL PURPOSE BALL VALVE

I024*
I025*
I026*
I027*

- ART 116   F x F   Lever Handle
- ART 117   M x F   Lever Handle
- Sizes available 8 - 50mm

- ART 118   F x F   T - Handle
- ART 119   M x F   T - Handle
- Sizes available 8 - 25mm
- Maximum working pressure 2000 - 4900kPa
- Suitable for water, steam, gasoline, oils and compressed air

* Not approved for use with potable water
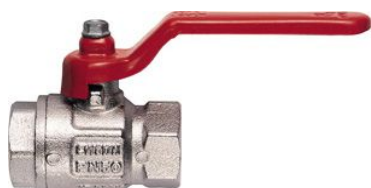
GENERAL PURPOSE BALL VALVES - ITAP

I028*
I033*
I034*
I036*

- ART 090   F x F   Lever Handle
- Sizes available 8 - 100mm

- ART 091   M x F   Lever Handle
- Sizes available 8 - 50mm

- ART 092   F x F   T Handle
- ART 093   M x F   T Handle
- Sizes available 8 - 32mm
- Maximum working pressure 1380kPa
- Suitable for water, steam, gasoline, oils and compressed air

* Not approved for use with potable water
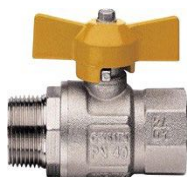
AGA GAS APPROVED LONDON BALL VALVES - ITAP

I046*
I047*
I048*
I049*

- ART 066 FxF Lever Handle 8 - 50mm
- ART 067 MxF Lever Handle 8 - 50mm
- Sizes available 8 - 50mm

- ART 068 FxF T Handle 8 - 25mm
- ART 069 MxF T Handle 8 - 25mm
- Sizes available 8 - 25mm

- Maximum working pressure 500kPa
- AGA Approval Number 6227
- Suitable for gas, dry steam, pneumatic and hydraulic installations

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BALL VALVES cont...

AGA GAS APPROVED BALL VALVES - ITAP

I04*

- ART 070 F x F Lever Handle
- ART 071 M x F Lever Handle
- Sizes available 15 - 50mm

- ART 072 F x F T Handle
- ART 073 M x F T Handle
- Sizes available 15 - 25mm

- Maximum working pressure 500kPa
- AGA Approval Number 5256
- Suitable for gas, dry steam, pneumatic and hydraulic installations

* Not approved for use with potable water

AGA GAS APPROVED FLAT HANDLE BALL VALVES - ITAP

I046*F
I047*F

- ART 266 FxF   Flat Handle
- ART 267 MxF   Flat Handle
- Sizes available 8 - 50mm
- Maximum working pressure 500 kPa
- AGA Approval Number 6227
- Suitable for gas

* Not approved for use with potable water

FLAT HANDLE BALL VALVE - ITAP

I030*
I031*

- ART 216 F x F   Flat Handle
- Sizes available 8 - 50mm
- Maximum working pressure 2000 kPa
- Suitable for water, oil and dry steam

* Not approved for use with potable water

3 WAY BALL VALVES - ITAP

I008*

- ART 128
- Sizes available 8 - 50mm
- Maximum working pressure 2480kPa
- T' Port & L' Port options
- Suitable for water, oil and compressed air

* Not approved for use with potable water

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BALL VALVES cont...

DURA VALVE - COPPER TO COPPER

I040*

- Sizes available 15 - 20mm
- AGA Approval Number 5592

* Not approved for use with potable water

BIBCOCK VALVE - ITAP

I010*

- ART 132 Lever Handle
- Sizes available 15 - 25mm
- Maximum working pressure 1500kPa
- Suitable for water, oil and compressed air

* Not approved for use with potable water

BIBCOCK LOCKABLE VALVE - ITAP

I011*

- ART 144 Lockable Handle
- Sizes available 15 - 20mm
- Maximum working pressure 1500kPa
- Suitable for water, oil and compressed air

* Not approved for use with potable water

VALVE - NON RETURN

YORK CHECK VALVE - ITAP

I012*

- ART 103
- Sizes available 10 - 100 mm
- Spare Filter ART 102 Stainless Steel
- Soft seat

SWING CHECK - ITAP

I015*

- ART 130
- Sizes available 10 - 100 mm
- Soft seat

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VALVE - NON RETURN cont...

I008*

EUROPA CHECK VALVE - ITAP
- ART 100
- Sizes available 20 & 25 mm
- Soft seat

KR480*

GRSF WITH FLAME ARRESTOR - KROMSCHRODER
- Stainless steel filter (GRS)
- Bronze Filter GRSF
- Sizes available 15 - 75 mm

ADJUSTABLE PORT VALVES

I018*

NEEDLE VALVES - SCE
- Precise Control
- Sizes available MxF - 6 mm FxF - 8 mm

N1807*

1807 - LIMITING ORIFICE VALVE - SCE
- V-Port for setting gas/air ratio
- Sensitive V-Port for fine settings
- Concealed screwdriver adjustment
- Sizes available 15 - 75 mm (NPT)

N1004*
N1008*

1004 / 1008 SERIES - ADJUSTABLE PORT VALVE - NORTH AMERICAN
- 1004 - Low pressure air model
- 1008 - High pressure air, gas, oil, steam & water models
- Low torque - sliding gate & rotary plug
- Sizes available 40 - 355 mm

N1808*

1808 - ADJUSTABLE PORT COCK - NORTH AMERICAN
- Size available 15 mm

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BUTTERFLY VALVE - MANUAL

KR**

DK SERIES - KROMSCHRODER

- For air and gas
- Temperature ranges 100 - 650°C
- Sizes 15 - 500 mm

N1123*

1123 MANUAL BUTTERFLY - SCE

- Position indicator with locking device
- Controls Air or Gas
- Maximum pressure dependant on size
- Maximum temperature of 200°C
- Minute pressure drop when fully open
- Sizes 20 - 150 mm

N1145*

1145 SERIES - WAFER VALVE - NORTH AMERICAN

- Sandwiched between flanges
- Sizes available 75 - 1050 mm
- For air temperatures up to 370°C
- Stainless steel shaft
- Minimal pressure drop when fully open
- Control low pressure air or gas flow
- Locking device on handle

N1155*

1155 SERIES WAFER VALVE - NORTH AMERICAN

- Sizes available 75 - 1050 mm
- Temperatures 120°C
- Minimal pressure drop when fully open
- Locking device on handle

BUTTERFLY VALVE - MOTORISED

N1126*

1126 SERIES - MOTOR OPERATED BUTTERFLY - SCE

- Swing through disc handle
- Movement by motor arm & linkage
- Sizes 20 - 150 mm (larger are flanged)
- Maximum pressure dependant on size
- Maximum temperature 200°C
- Optional high temperature "H" 370°C

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BALL VALVE WITH MOTOR - ITAP / NEP

I040*

- Available in sizes 20 & 50 mm
- NEP motor 24 / 240v AC
- Hi / Low or modulating models

AGA Approved Ball Valve - Number 5256

BVA, BVG - MOTORISED BUTTERFLY VALVES - KROMSCHRODER

Butterfly valves for continuous control of a gas flow rate in a ratio of 10:1. Directly mountable onto actuators IC20 & IC40.

G079080BVA   **BVA**

- Butterfly valve for air
- Nominal Diameter: 40 - 150 mm
- Pressure (max): 500 mbar

G079080BVG   **BVG**

- Butterfly valve for gas
- Nominal Diameter: 40 - 150 mm
- Pressure (max): 500 mbar

LFC - LINEAR FLOW CONTROL - KROMSCHRODER

G214*

- Regulating flow of gaseous media
- Large control ratio of 25:1
- Running times 7.5 to 60 seconds
- Optional electronic position feedback
- Motor drive GT31 Hi/Low or electronic
- 50 kPa pressure rating

DK SERIES - KROMSCHRODER

Motor Drive GT Hi/Low or Electronic
Fit between DIN Flanges

G079*

DKG - Control of gas in a ratio 10:1
- Maximum 30 kPa maximum of 60°C

DKL - Control of air
- Maximum 30 kPa, Temp -20 to 100°C

DKR - Control air and flue gas
- Maximum 30 kPa maximum of 650°C

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BUTTERFLY VALVE - MOTORISED   cont...

MK BUTTERFLY FOR AIR - KROMSCHRODER

KR144*

- For Hi/Low control of cold & hot air - max 550°C
- Solenoid operated
- Position indicator - CPI
- Fast or Slow opening
- Sizes 32 - 100 mm
- Suitable for pulse firing

1146 - WAFER VALVE - NORTH AMERICAN

N1146*

- Sandwiched between flanges
- Air temperature up to 370°C
- Stainless steel shaft
- Sizes 75 - 1050 mm

1156 - WAFER VALVE - NORTH AMERICAN

N1156*

- Sandwiched between flanges
- For clean air or gas up to 120°C
- Cast Iron body & disk
- pneumatic or electric actuator

THERMO ELECTRIC - VALVES

CTB / 0 - 501 - SIT

CB0125*

- Manual push button operation
- Thermo - electric operation
- Size - 8 mm MxM
- Two types - Low pressure   5 kPa maximum - High pressure 150 kPa maximum

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THERMO ELECTRIC - VALVES cont...

ROBERTSHAW GAS WATER HEATER CONTROL 220R SERIES

RS220RTSP595
RS220RTSP596
RS220RTSP676

- Pilot Valve
- Main Valve
- Pressure regulator pilot
- Pressure regulator main
- Built-in energy cut-off safety device
- Thermocouple
- LPG / NAT plus *NEW DUX Solar*
- AGA Approval number 5414

MINISIT VALVES

Temperature Ranges

Z0151
Z0149
Z0150
Z0152

- 0°C to 40°C
- 40°C to 110°C
- 100°C to 340°C
- 120°C to 200°C

Minisit replacement tube & bellows also available

EUROSIT VALVES

Temperature Ranges

Z014**

- Hot Water Rheem 630.151
- Rinnai 630.013 - 8°C to 33°C
- Hi Temp 630.336 - 100°C to 340°C
- Braemar 630.534 - 13°C to 38°C
- Fryer 630.340 - 120°C to 200°C

AC3 CONTROL VALVES

Z01633

- Temperature Range: 35°C to 75°C silver nut
- Multifunctional safety control with thermoelectric flame failure device
- Pressure adjuster with override device
- On / Off Thermostat
- Three position control knob: off, pilot, on
- Temperature selection knob
- Resettable safety thermostat
- Pilot outlet with gas flow preselection screw
- Aquamax version available
- Inlet & pilot filters
- Inlet & outlet pressure test points

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THERMO ELECTRIC - VALVES cont...

6801 - NEGABAN GAS HEATER CONTROL VALVE

NY06801

- Pilot Valve
- Hi / Low function
- Main Valve
- Igniter
- Thermocouple
- Gas control knob

D3 SERIES - S.I.T

Z014*

- Single valve
- Thermo - electric operation
- Manual control
- Sizes available 15 & 20 mm

AGA Approval Number   3530

784 SERIES - WHITE RODGERS

JD02601*

- Single valve
- Thermo - electric operation
- Manual control
- Extended handle available
- Sizes available 10 & 15 mm

AGA Approval Number   5004

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ROBERTSHAW - VALVES

UNITROL 7000 GAS VALVE - ROBERTSHAW

RSBMVRL57C5531

- Combination Control
- Millivolt Only
- Natural Gas
- Size 3/4 Inch
- Slow Opening
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

UNITROL 7000 GAS VALVE - ROBERTSHAW

RSBGORL6032

- Natural Gas
- Combination control
- Size 3/4 Inch
- 6040 Model available for LPG
- Pressure Rating 3.5 kPa
- Modulating Thermostat
- Controlled Gas Valve
- Gas operated
- AGA Approval Number 4985

UNITROL 7000 GAS VALVE - ROBERTSHAW

RSBMVRL5507

- Combination control
- Millivolt
- Thermopile only
- 20mm LPG
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

UNITROL 7000 GAS VALVE - ROBERTSHAW

RSBMVRLS7C5515

- Combination control
- Thermopile and Thermocouple
- Slow opening
- Size 3/4 Inch (Natural Gas)
- 5523 Model available for LPG
- Millivolt System Only
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

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ROBERTSHAW - VALVES cont...

RSBERL4512

UNITROL 7000 - ROBERTSHAW

- Natural Gas
- Combination gas control
- 120 or 240 Volt AC
- Size 3/4 Inch
- LPG Version 4520
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

RSBERL3501

UNITROL 7000 - ROBERTSHAW

- Combination gas valve
- Natural Gas
- 24 Volt AC / 12 Volt DC
- Size 3/4 Inch (Natural Gas)
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

RSDERHC-S7C

UNITROL 7000 - ROBERTSHAW

- D Series
- Combination gas valve
- 24 Volts AC
- Size 1 Inch (Natural Gas)
- Pressure Rating 3.5 kPa
- AGA Approval Number 4985

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WHITE RODGERS - VALVES

25M - WHITE RODGERS

W007*

- Combination / Double Block with regulator
- Inlet / Outlet size 15 mm
- Voltages 12v DC, 24 / 110 / 240v AC
- Pressure rating 5kPa
- Standard flow - 25M 42S (40MJ/h)
- High flow - 25M 82S (60MJ/h)

AGA Approval Number 5153

Types:

25M 22 - 001   25M 42S - 5

36C - WHITE RODGERS

W008*

- Regulator / combination
- Sizes available 20 mm
- Voltages - 750mv, 24v, 120v, 240v
- Pressure rating 3.5 kPa

AGA Approval Number   2784

Types:

36C03U-438
36C03U-439
36C03C-435
36D22H-401
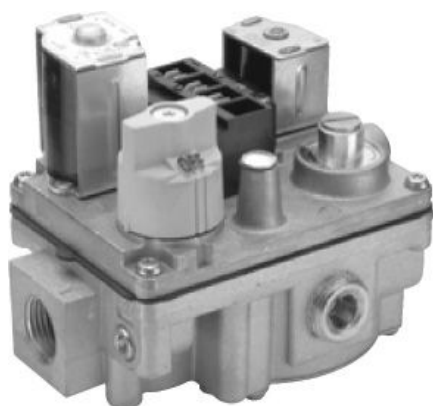
36E ON / OFF - WHITE RODGERS

W0102*

- ON / OFF operation
- Electronic control
- Redundant valve
- Capacities up to 140MJ/h
- Outlet / Inlet 15 or 20 mm
- Pressure rating 5 kPa
- Optional slow opening
- Optional pilot tap

AGA Approval Number 5099

Types:

36E06-301
36E06-302
36E16P-401
36E16P-510

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WHITE RODGERS - VALVES cont...

36E TWO STAGE - WHITE RODGERS

W0103*

- High / Low operation
- Electronic control
- Redundant valve
- Capacities up to 140MJ/h
- Outlet / Inlet 15 or 20 mm
- Pressure rating 5 kPa
- Optional slow opening
- Optional pilot tap

AGA Approval Number 5099
Types:
36E20-301
36E96-229
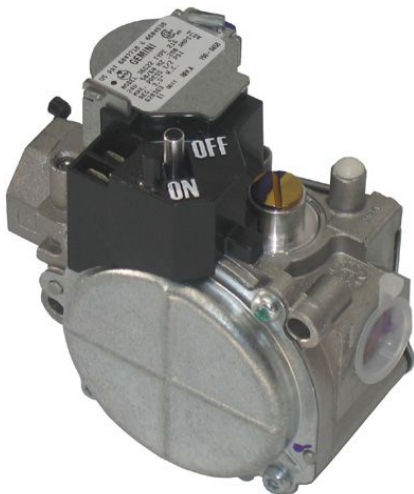
36G ON / OFF - WHITE RODGERS

W0103

- On / Off Operation
- Electronic Control
- Voltage 24VAC
- Redundant Valve
- Capacities up to 120MJ/h
- Outlet / Inlet 15mm
- Pressure Rating 5Kpa
- Optional Slow Opening (High / Low)
- AGA Approval Number 6770

Comes in 2 Stage or On / Off models

36H ON / OFF - WHITE RODGERS

W010*

- On / Off Operation
- Voltage 24 / 240 VAC
- Electronic Control
- Redundant Valve
- Capacities up to 400MJ/h
- Outlet / Inlet 20mm
- Pressure Rating 5Kpa
- Optional Slow Opening (High / Low)
- AGA Approval Number Awaiting

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HONEYWELL - VALVES

VR8300 - HONEYWELL

HWVR8301A4878

- Combination Gas Control
- Standing Pilot
- Dual Solenoid
- 3/4 x 3/4
- Natural Gas
- Slow Opening
- Reg setting 3.5" WC
- 24 VAC

AGA Approval Number: 5913

V800 - HONEYWELL

HWV800A1179

- Combination Gas Control
- Single Block
- Standing Pilot
- Natural Gas
- 3/4 x 3/4

AGA Approval Number: 2124

VR8300 - HONEYWELL

HWVR8300A4805

- Combination Gas Control
- Adjustable Pilot
- Standing Pilot
- Dual Solenoid
- Reg Setting 3.5" WC
- 3/4 x 3/4

AGA Approval Number: 5913

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SOLENOID VALVES - FAST OPEN

VGP SERIES - KROMSCHRODER

KR1401*   Solenoid Operated

FAST OPEN - FAST CLOSE
- VGP 10 to 25
- Maximum pressure 20 kPa
- 240 / 110 volt AC
- Sizes available 10 - 25 mm

AGA Approval Number: 5567
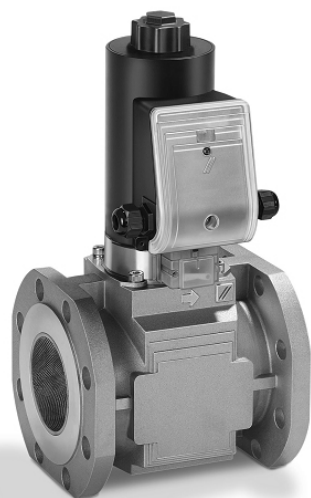
VAS KROMSCHRODER - FLANGED

KR159*   Solenoid Operated
Valvario Series
Voltages 120 / 230V AC and 24V DC

FAST OPEN - FAST CLOSE

- Adjustable flow
- Maximum Pressure 50kPa
- Sizes available 50 - 125mm
- Optional CPI switch
- Optional slow opening
- Body type: 7, 8, & 9 available

AGA Approval Number: 3968

VAS KROMSCHRODER - SCREWED

KR159*   Solenoid Operated
Valvario Series
Voltages 120 / 230V AC and 24V DC

FAST OPEN - FAST CLOSE

- Adjustable flow
- Maximum Pressure 50kPa
- Sizes available 10 - 125mm
- Optional CPI switch
- Body type: 1, 2 & 3 available

AGA Approval Number: 3968

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SOLENOID VALVES - FAST OPEN cont...

E / EG SERIES - BRAHMA

Solenoid Operated Valves
Compact Design - Full Gas Flow
Voltages 240 / 110 / 24 AC

B2218
B2222
B22331   **FAST OPEN - FAST CLOSE**
B22431   • 6 mm   E8/L   Cable Connection   200 kPa
B22411   • 6 mm   E8/S   GFD   10 kPa
B23431   • 10 mm   E6G S10   GFD   50 kPa
B24101   • 15 mm   E6G S10   GFD   50 kPa
B25101   • 15 mm   EGG S 08   100 kPa
B26101   • 15 mm   EG12 S   GFD   25 kPa
B267101 • 15 mm   EG15 S   GFD   25 kPa
             • 20 mm   EG25 S*   GFD   10/35 kPa
             • 25 mm   EG30 S*   GFD   20/30 kPa
             • 40 mm   EG40 S   GFD   20 kPa

OPTIONAL ELECTRICAL CONNECTION:
GMO - Permanent
CFD / DFD / GFD - DIN Plug
OPTIONAL "R" FLOW ADJUSTMENT
AGA Approval Number: 4314

VG SERIES - KROMSCHRODER

Voltages - 240/ 110 AC and 24v DC

FAST OPEN - FAST CLOSE
• VG ** R0* - ND 31
• Pressure Rating 20 to 36 kPa
KR140*   • Sizes available 10 - 100 mm
Optional
KR14222 • CPI Switch for VG & VS Series
KR14252 • Max flow adjustment
KR14254 • Slow Opening
KR14256 • 2 Step
KR14258
KR14260 **HIGH PRESSURE - FAST CLOSE**
             • 8 mm VG 8   R 18   180 kPa
             • 15 mm VG 15 / 12 R 18N31   180 kPa
             • 25 mm VG 25 / 15 R 18N31   180 kPa
             • 40 mm VG 40 / 33 R 10N33   100 kPa
             • 50 mm VG 50 / 39 R 10N35   100 kPa
             • 60 mm VG 65 / 49 R 10N33   100 kPa
AGA Approval Number: 3968

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SOLENOID VALVES - FAST OPEN cont...

GB SERIES - ALCON

Voltages - 240 / 110 / 24 volt AC

AC2008
AC2010
AC3050

FAST OPEN - FAST CLOSE
- 20 mm GB6B 10 kPa
- 25 mm GB7B 10 kPa

GAS EXPLOSION PROOF VALVES
- 15 mm GB4B EXM 14 kPa

◆ **VALVE NO LONGER AVAILABLE**
◆ **COIL REPLACEMENTS ONLY**

VS SERIES - KROMSCHRODER

Solenoid Operated
Moduline Series

KR160*

FAST OPEN - FAST CLOSE
- VS *** ML0* NT3
- Pressure Rating 20 to 36 kPa
- Sizes 15 to 50 mm
- Optional flow adjustment
- Optional CPI Switch for VG & VS Series
- Optional slow opening
- Double block (VD Series)
- Two stage On / Off

AGA Approval Number: 5320

SOLENOID VALVES - SLOW OPEN

VAS/L - KROMSCHRODER

KR159*

Solenoid Operated
Valvario Series
Voltages 120 / 230V AC and 24V DC

SLOW OPEN - FAST CLOSE

- VAS.../L
- Maximum Pressure 50kPa
- Sizes available 10 - 125mm
- Optional CSI switch

AGA Approval Number: 3968

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SOLENOID VALVES - SLOW OPEN cont...

EG SERIES - BRAHMA

SLOW OPEN - FAST CLOSE

B24301
B25301
B26301
B267301

Voltages 240 / 110 / 24v   AC

- 15 mm   EG15 L   GFD   25 kPa
- 20 mm   EG25 L   GFD   10 kPa
- 25 mm   EG30 L2 GFD   20 kPa
- 40 mm   EG40 L   GFD   20 kPa

AGA Approval Number 4314

VS & VG SERIES - KROMSCHRODER

Voltages 240 / 110v AC 24v DC

VS** - ** MLO* L

KR1610*
- Sizes 15 to 50 mm
- Pressure rating 10 to 36 kPa

AGA Approval Number 5320

VG ** R0* - LD31

KR141*
- Sizes available 15 to 100 mm
- Pressure rating 20 or 36 kPa

Optional CPI Swtiches for VG & VS Series]

AGA Approval Number 3968

SOLENOID VALVES - MOTORISED

VK SERIES - KROMSCHROEDER

Motorised - Hi - Flow / Hi Pressure

KR18*
- Explosion proof - optional
- Optional IP65 rating
- On / Off or two step
- Sizes available 40 - 200mm BSP &
  Flanged
- Voltage - 240 / 110v AC
- Pressure up to 800 kPa

AGA Approval Number: 3968

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N1518*

1518 SERIES MOTORISED MANUAL RESET - NORTH AMERICAN

- Open / Shut indicator
- Proof of open & closure switch
- Opening time 6 - 12 seconds
- Sizes available 20 - 150 mm
- Maximum pressure 860 kPa

B25*

EG25*M & EG30*M SERIES MOTORIZED SOLENOID VALVES - BRAHMA

- Power driven modulation (for two flame levels)
- Operating pressure up to 500mbar
- 20 mm & 25 mm connections
- Mesh strainer (prevents particles greater than 1 mm from getting into the valve)
- 230 VAC or 110 VAC supplies available
- IP40 rated
- Die-cast aluminium body

AGA Approval Number: Awaiting

N1519*

1519 SERIES - MOTORISED AUTO RESET - NORTH AMERICAN

- Auto shut-off
- Maximum pressure 860 kPa
- Voltage 240/110 AC
- Sizes 20 - 200 mm

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VALVE EMERGENCY STOP BUTTONS

EMERGENCY STOP SWITCH (KEYED)

L0201K

- Lockable
- Up to 6 contacts per button
- PLC inputs
- 'H' bridge contact
- Simple mounting
- Compact design

EMERGENCY STOP SWITCH (KEYLESS) - TWIST RESET

L0201

- Up to 6 contacts per button
- PLC inputs
- 'H' bridge contact
- Simple mounting
- Compact design

NORMALLY OPEN - VALVES

VAN SERIES - KROMSCHRODER

KR143*

- Vent valves
- VAN ** R0* - N31
- Voltage 240/110v AC, 24v DC
- Sizes 15 to 40 mm
- Maximum pressure 20 kPa

AGA Approval Number: 2725

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DOUBLE BLOCK - VALVES

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EG SERIES - BRAHMA

B2**

2 valves easily joined with 2 fixing brackets plus "O" ring

Voltages - 240 / 110 / 24v AC

- 15 mm   EG 15   x 2 + Kit   25 kPa
- 20 mm   EG 25   x 2 + Kit   10/35 kPa
- 25 mm   EG 30   x 2 + Kit   20/30 kPa
- 40 mm   EG 40   x 2 + Kit   20 kPa

AGA Approval Number: 4314

GVC SERIES - BRAHMA

B2450
B2550
B2650
B26750

Voltages 240 / 110 / 24v AC
Indication light On/Off
Electrical plug connection

- Optional slow opening
- 15 mm   GVC 15   25 kPa
- 20 mm   GVC 25   50 kPa
- 25 mm   GVC 30   50 kPa
- 40 mm   GVC 40   20 kPa

AGA Approval Number: 4314

VD SERIES - KROMSCHRODER
DOUBLE BLOCK FAST OPEN - FAST CLOSE

KR1615*

- VD*** ML0* NNT3
- Pressure rating 20 or 36 kPa
- Voltages 240 / 110v AC 24v DC
- Optional "D" Adjustable
- Optional "L" Slow opening

AGA Approval Number: 5320
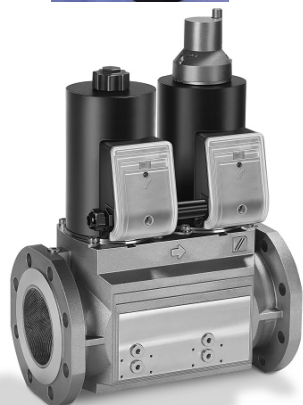
VCS SERIES - KROMSCHRODER

KR159*

Solenoid Operated
Valvario Series
Voltages 120 / 230V AC and 24V DC

- VCS
- Maximum Pressure 50kPa
- Sizes available 10 - 125mm
- Optional CPI switch

AGA Approval Number: 4496

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TWO STAGE - HI / LOW - VALVES

EG SERIES - BRAHMA

Voltages 240 / 110 / 24v AC

B24401	• EG 15 SRP - EB7 - SR - GFD8 10 kPa
B2542	• EG 25 SRP3 - EBP - SR - GFD8 10 kPa
B26401	• EG 30 SRP2 - EBP - SR - GFD8 10 kPa
B267*	• EG 40 SRP2 - EBP - SR - GFD8 10 kPa

AGA Approval Number: 4314

VS Z SERIES - KROMSCHRODER

KR1625* • VS *** ML0* ZN 3

Voltages - 240 / 110 AC 24v DC

Pressure rating 20 or 36 kPa

Optional "D" Flow Adjustment

Optional "L" Slow opening

AGA Approval Number: 5320

COMBINATION - VALVES

TK 25 SERIES - THEOBALD

TH02*

Double block 15 mm

Voltages 240 / 110/ 24 AC

Maximum pressure 6.5 kPa

Flanges & "O" ring supplied

◆ **VALVE NO LONGER AVAILABLE**

◆ **COIL REPLACEMENTS ONLY**

VAD / VAG - KROMSCHRODER

Valvario Series

Voltages 120 / 230V AC and 24V DC

KR159*
- VAD - Governor with solenoid valve
- VAG - Air/Gas control with solenoid valve
- Maximum Pressure 50kPa
- Sizes available 15 - 50mm

AGA Approval Number: 4496

GVS SERIES - ON / OFF & REGULATOR - KROMSCHRODER

KR1630* • GVS 1** ML02 T3 20 kPa

Voltages 240 / 110 AC 24v DC

Sizes 15 to 50 mm

AGA Approval Number: 5319

GVI SERIES-AIR/GAS RATIO -KROMSCHRODER

• GVI 1** ML02 TS 20 kPa

KR1634* Includes gas pressure regulator

Gas Regulator Included

Voltages 240 / 115 AC 24v DC

Sizes 15 - 50 mm

AGA Approval Number: 5319

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COMBINATION - VALVES cont...

CG SERIES - KROMSCHRODER

Combination Valves, Double Block Solenoid, Gas
Regulator, Filter, Pressure Switch

KR22070	CG 10 R70 - D1TA	15 mm	7 kPa
KR22022	CG 225 R01 - VT 2WF	25 mm	10 kPa
KR22012	CG 340 R01 - DT 2WF1	40 mm	10 kPa
KR22101	CG 35 R05 - DT 2	DN40 / 50	50 kPa
KR22106	CG 45 F05 - DT2	DN40 / 50	50 kPa

Types Available "D" On/Off Regulator
"V" Air/Gas Regulator
• Voltages - 240 /110 v AC 24v DC

AGA Approval Number: 4496

VS COMBINATION - KROMSCHRODER

Solenoid Operated

KR1640125
• Double block moduline
• Gas regulator
• CPI
• 15 - 50 mm
• Pressure rating up to 20kPa
• Voltage 240 / 110v AC, 24v DC
• Complete gas train

AGA Approval Number: 5319

RVS SERIES - KROMSCHRODER

Regulating / Electronic Control / Safety

KR16352*
• RVS *** / E ML02 T60 E3
• 20 - 50 mm with screwed flanges
• Pressure Rating up to 100kPa
• E Reference 0-10v DC, 0-20mA, 4-20mA, 0-135 OHM
• Voltage - 240 / 110 AC
• Pressure up to 100 kPa

VALVES - OIL - AIR - WATER - STEAM

1008 SERIES - ADJUSTABLE PORT VALVE - NORTH AMERICAN

N1008*
• Drive motor available
• Sizes available 10 - 150 mm
• Suitable for high pressure oil, air, water and steam

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VALVES - OIL - AIR - WATER - STEAM cont.

E7 / L AFD - BRAHMA

B2213

- Application - Light Oil
- Maximum pressure 20 Bar
- Flow 0.055 M³/hr
- 6 mm pipe size
- 240v - DIN plug connection

MA 321 - 005P   - STAIGER

ST20244P

- Application - Air bleed
- 3 Way body
- 6 mm connection
- Flow 0.06 M3/h
- 240 v AC

MG 232 E - STAIGER

ST01270

- Application - Oil / Water / Steam / Gas and compressed air
- Maximum pressure 10 Bar
- Sizes available 15 - 25 mm

MG 252 - 001 P - STAIGER

ST03252

- Application - Oil / Water / Steam / Gas and compressed air
- Maximum pressure 10 Bar
- Sizes available 15 - 25 mm

VR SERIES - KROMSCHRODER

Application: - Air (ideal for pulse firing)

KR144*

- Sizes available 40 - 100 mm
- Voltages - 240 / 110v AC 24v DC
- Maximum pressure 15 kPa

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VALVES - OIL - AIR - WATER - STEAM cont.

ACD SERIES - ALCON

AC30*

- Application - Light Oil / Air / Water / Gas
- Maximum pressure 4 - 14 bar
- Sizes 10 - 50 mm
- Voltage 12 / 24v DC 24 / 110 / 240v AC

1813 SENSITROL - NORTH AMERICAN

N1813*

- Fine adjustment valve for setting fuel - air ratio on oil burners
- Sizes 8 - 15mm

1196 - AIR CYCLING VALVE - NORTH AMERICAN

N1196*

- Application - Pulse firing burner systems
- Optional Electrical / Pneumatic Drive
- 24 / 110 / 240v AC

VALVES - SLAM SHUT

S100 - JEAVONS

J017*

- Low pressure 18 - 560 mbar
- Medium pressure 561 - 1400 mbar
- High pressure 1 - 6 bar
- Pressure rating 16 bar
- Sizes DN 50 - 100
- Manual reset

S300 - JEAVONS

J016*

- High pressure OPSO
- Maximum pressure: 20 bar
- Simple manual reset facility
- Adjustable tip-off pressure (gives wide range of set points)
- Internal or external impulse

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VALVES - SLAM SHUT cont...

JSAV - KROMSCHRODER - SCREWED

KR060*

- Pressure rating 4 bar
- Sizes 25 - 40 mm screwed
- Pressure ranges up to 550mbar
- Manual reset

JSAV - KROMSCHRODER - FLANGED

KR0602*

- Pressure rating 4 bar
- Sizes 50 - 80 mm
- Pressure ranges up to 550mbar
- Manual reset

VALVES - PRESSURE RELIEF

GAS

J48K - JEAVONS

J004*

- Diaphragm pressure relief
- Relief pressure up to 15 kPa
- Sizes available 20 - 50 mm

J48KH - JEAVONS

J005*

- High pressure spring loaded
- Relief pressure up to 76 kPa
- Sizes available 20 - 50 mm

VSBV25R40 - KROMSCHRODER

KR06072

- Inlet pressure: 4 bar (maximum)
- Adjustable opening pressure: 20 - 500 mbar
- Reduces temporary pressure surges in the controlled system
- Avoids sudden pressure surges in the case of gas leakages
- Free of non ferrous metals

SMVSS032510 - SAMTECH

SMVSS032510

- Size 25 mm (1 Inch)
- Pressure: 6 bar (maximum)
- 400 - 2100 mb

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VALVES - PRESSURE RELIEF cont...

RE3148D

3148 - REGO
- Automatic fill limiter valves (AFL)
- Suits Australian or Internationally produced tanks for automotive LP Gas conversion
- Incorporates a double check system to automatically stop filling at desired level

REPRV9432T150

PRV9432T150 - REGO
- Relief valve
- Cryogenic 1/2" 150 PSI
- Suitable for use with oxygen, carbon dioxide and non-corrosive gasses
- Pressure setting ranges up to 450 PSI

RE8555D11.6

8555D11.6 - REGO
- Dot multivalve for liquid withdraw
- Container connection 3/4" M.NGT
- Service connection CGA 555
- Filling connection 1 3/4" M.ACME
- Pressure relief 375 PSIG
- Vapor withdraw from DOT cylinders with up to 200 lbs propane capacity

REA3146

A3146 - REGO
- Back pressure valve for containers
- Excess flow valve to provide protection
- Inlet   3/4" NPT F
- Outlet 3/4" NPT M

REA8017DP

A8017DP - REGO
- Multipuropse valve for liquid withdraw for LP Gas and NH3 containers
- Inlet connection 1/4" NPT
- Outlet conncetion 1" NPT

═══ OIL ═══

N7177*

7177 DIAPHRAGM RELIEF VALVES - NORTH AMERICAN
- Cast iron body, stainless steel trim
- Nitrile seat
- Diaphragm - neoprene
- Maximum temperature 65.5°C

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VALVES - PRESSURE RELIEF cont...

═══ WATER ═══

RSHT55-1400

RMC - PRESSURE / TEMPERATURE RELIEF VALVE

- Inlet / Outlet 15 mm
- 10 Kilowatt Capacity
- Maximum Temperature 99°C
- Pressure 1400 kPa
- Size 68 mm (w) x 98 mm (h)
- High Quality Brand
- Auxiliary pressure relief device (prevents pressure building up in the event of a blockage in the drain line)
- Female BSP thread on the outlet
- Plastic coated temperature probe

FILLER GUN

RE7659xH2

7659 - ROBERTSHAW
- Filler gun & accessories for LPG
- Incorporates filler handle in locked closed position
- Fill & excess flow valve
- Suit safe filling of a wide range of LPG

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System Control Engineering

GAS DETECTOR - PORTABLE

	DGS 10	Digitron
	Gas Leak Detector Spray	Samtech
	Leakator Junior, Leakator 10, CD98 O_2 Sample Draw, CO_2 Diffusion, Sniffit CO Monitors	Bacharach
	HL7701 CO Detector	Mextech
	8108 O_2 Monitor	North American

GAS DETECTOR - FIXED

	Wall Mount	
	Continuous CO_2	Bacharach
	RGD Series, SGA	Seitron
	Stove Timer Switch	SCE
	SE192KG, SE301A, SE301B, PS175, PS180, PS185, SE148KM, SE149KM, CE400P, ES400, TC011, TC012, TS292KG, TS292KM, TS293KM, SE230KG, SE230KM, SE195KM, SE195KG, SE120KM, SE120KG, SE126KM, SE126KG, SE139K	Tecnocontrol

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COMBUSTION ANALYSER

Fixed

	O_2A	Albion

Portable

	Fyrite Tech 60 ,Fyrite -Pro, PCA, PCA2, Fyrite Insight	Bacharach

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ELECTRONIC RATIO CONTROLS

Industrial

	8000 Series Controllers	North American
	ERC + O_2 Monitor	Albion

GAS SAFETY PROTECTION SYSTEMS

	Gasguard GG* Series	SCE
	Gas Check	SCE
	LSV, K-LSV	Kromschroder

CONTROL PANELS

	Custom Designs	SCE

GAS DETECTOR - PORTABLE

DGS 10 - DIGITRON

DG-DGS-10

- Audible & visual indicators (adjustable)
- Long flexible goose neck (400 mm)
- Luminous sensing tip (LED Light)
- Small sensor head
- High accuracy & sensitivity
- Sensitivity 10 ppm Methane

Detects - Butane, LPG Gas, Methane, Natural Gas & Propane

LEAKATOR JUNIOR - BACHARACH

BA02010

- One button operation
- Visual & Audio Indicators / Alarms
- 30cm flexible probe
- 2 Sensitivity levels
- Long battery life
- Intrinsically safe

Detects - Propane, Natural Gas, Butane, Ethanol, Gasoline, Paint Thinners, Hexane, Hydrogen & Acetone

Sensitivity (Methane Based):
- 20ppm in high sensitivity mode
- 50ppm in low sensitivity mode

LEAKATOR 10 - BACHARACH

BA02009

- Simple to use
- Visual & audible alarms
- 30 hour battery life
- 20ppm usable sensitivity (methane)
- 50cm flexible probe

Detects the following gases: Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Methane, Paint Thinners, Propane and Natural Gas.

CO_2 MONITOR - BACHARACH

BA**

- Compact and lightweight
- Simple and safe to use
- Rapid detection of changing CO_2 levels
- Quick, intelligent charge in less than 2 hours
- Up to 8 hours use on full charge
- Easy calibration in fresh air
- Automatic data logging provides complete CO_2 exposure record

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GAS DETECTOR - PORTABLE cont...

HAND HELD C0 DETECTOR

HL7701

- Large 3 & 1/2" LCD Display
- Audible & Visual Alarms
- Display Backlight
- Ultra portable, user friendly, design
- 6 Operating modes
- Fast sampling rate
- Supplied with protective carry case

- Measuring Range 0 ~ 1000 ppm
- Measuring Resolution 1 ppm
- Precision 5% or 10 ppm
- Warm-up Time <2 seconds
- Operating Temperature $0^{\circ}C$ ~ $+50^{\circ}C$
- Operating Humidity 0 - 99% RH

GAS LEAK DETECTOR SPRAY - SAMTECH

SMRVS100401

- Detects gas leaks in pipes that are under pressure
- Practical and economical
- Suitable for all gases (flammable and nonflammable)
- Non - flammable
- Non - toxic
- 90% Biodegradable
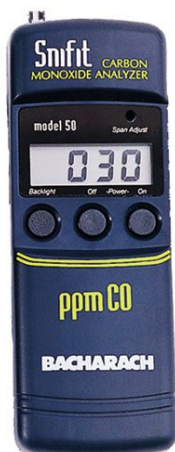
SNIFFIT 40 & 50 - BACHARACH

BA**

- CO_2 Analyser
- Range: 0 - 1, 999ppm
- Resolution: 1ppm
- Sensor Accuracy: +/- 5% of reading
- Operating Temperature: 0 - $40^{\circ}C$

The Sniffit analyser can be used to measure Carbon Monoxide levels in room air. Typical applications include: Hot water heaters, ovens, furnaces, fireplaces and anywhere high concentrations of CO may be detected.

8108 - NORTH AMERICAN

N8108-0

- Simple hand held O_2 monitor
- Low battery light
- Range: 0 - 25% Oxygen Volume
- Resolution: 0 - 1%
- Accuracy: +/- 0.2%
- Sample time: Approx 20 seconds
- Display time: 30 seconds

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GAS DETECTOR - FIXED

CD 98 - CO$_2$ ANALYZER - BACHARCH

BA2004

- Two sampling modes: sample draw or diffusion
- Two different measuring ranges: 0 - 5,000 ppm CO$_2$ or 0-50% CO$_2$
- Maintenance free dual wavelength infrared sensor
- Easy calibration in fresh ambient air
- Probe and hose assembly for sampling in hard to reach locations
- Internal pump provides continuos sampling with fast response and accurate readings
- Continuous or snapshot data logging with the push of a button

CONTINUOUS CO$_2$ - BACHARACH

BA**

- Simple & rapid continuous monitor
- Audible & visual alarms
- Maintenance free dual wavelength infrared sensor
- Rugged housing
- IrDA link for gas or air calibration

RGD - GAS LEAKAGE DETECTOR - SEITRON

SE0305

- Natural gas sensor
- Test button
- Function lamps
- Suitable for use with gas cut off valves when alarm is raised
- Push button resetable

RGD - GAS LEAKAGE DETECTOR - SEITRON

SE0306

- Natural gas
- Function Lamps
- Valves 230V AC or 12V DC
- Audible and visible alarm
- High reliability measurement precision
- Auto reset

RGD - GAS LEAKAGE DETECTOR - SEITRON

SE0310

- LPG gas sensor
- Test button
- Function lamps
- Suitable for use with Brahma valves
- Audible and visible alarm
- Push button reset

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GAS DETECTOR - FIXED cont...

RGD - GAS LEAKAGE DETECTOR - SEITRON

SE0315

- Carbon Monoxide detector (CO)
- Test button
- Function lamps
- 240v AC output relay
- Suitable for use with Brahma valves
- Audible and visible alarm

SGA - REMOTE SENSOR - SEITRON

SE03**

- MET natural gas
- GPL LPGas
- Carbon Monoxide (CO)
- Can be used as an extra sensor with the RGD models

Stove Timer Switch - SCE

L0012

- Timer Switch
- Changeable timer settings
- Suitable for home safety
- For use with gas safety valves
- Ideal for elderley people or any person who might leave their stove running

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SE192KG - GAS DETECTOR - TECNOCONTROL

TCSE192KG

- LPG gas detector
- Catalyst sensor
- Connects to Central Unit (see SE139K)
- Dimensions 110 x 75 x 70 mm
- Wall Mounted
- 12 VDC

Suitable for heating plants and industrial applications.

SE301A - ALARM - TECNOCONTROL

TCSE301A

- Audible and visible alarm
- Piezoelectric siren - 115 db Output
- Red signalling lamp
- Dimensions 160 x 115 x 80 mm
- Wall mounted
- IP43 rated
- 230 VAC

SE301B - ALARM - TECNOCONTROL

TCSE301B

- Audible and visible alarm
- Piezoelectric siren - 115 db Output
- Red signalling lamp
- Dimensions 160 x 115 x 80 mm
- Wall mounted
- IP43 rated
- 12 VDC

PS175 - AUXILIARY POWER SUPPLY TECNOCONTROL

TCPS175

- Parallel battery equipped (for continuous operation) - batteries are rechargeable
- Metal box
- 230 VAC operated
- Supplied current: 1.2 Amps
- Battery: 12 VDC 7 Ah
- Dimensions 285 x 220 x 95 mm

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GAS DETECTOR - FIXED cont...

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TCPS180

PS180 - AUXILIARY POWER SUPPLY TECNOCONTROL

- Parallel battery equipped (for continuous operation) - batteries are rechargeable
- Metal box
- 230 VAC operated
- Supplied current: 2.5 Amps
- Battery: 12 VDC 7 Ah
- Dimensions 285 x 220 x 95 mm

TCPS185

PS185 - AUXILIARY POWER SUPPLY TECNOCONTROL

- Parallel battery equipped (for continuous operation) - batteries are rechargeable
- Metal box
- 230 VAC operated
- Supplied current: 6 Amps
- Battery: 12 VDC 18 Ah
- Dimensions 455 x 260 x 220 mm

TCSE148KM

SE148KM - METHANE DETECTING CENTRAL UNIT - TECNOCONTROL

- Connects to remote sensor SE292KM or SE293KM
- LED gas concentration indicator bar
- Two alarm levels
- 30 second alarm delay (avoids false alarms due to negligible gas presence)
- 230 VAC
- Dimensions 160 x 115 x 80 mm
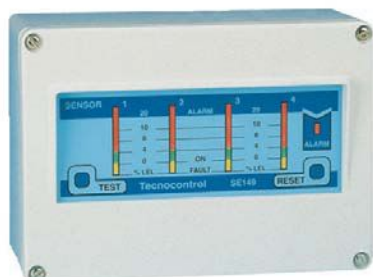
TCSE149KM

SE149KM - METHANE DETECTING CENTRAL UNIT FOR 4 ZONES - TECNOCONTROL

- Four remote sensors of type SE292KM or SE293KM
- Four LED gas concentration level bars (indicate each sensors gas concentration level in real time)
- Two alarm levels
- 30 second alarm delay (avoids false alarms due to negligible gas presence)
- 230 VAC - 12 VDC
- Dimensions 160 x 115 x 80 mm

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GAS DETECTOR - FIXED cont...

TCCE400P

CE400P - MICROPROCESSOR CENTRAL UNIT 4 TO 8 ZONES - TECNOCONTROL

- Menu driven (intuitive) programming
- Display backlight
- 4 relay inputs (for remote sensors)
- 4 relay outputs (for control applications)
- 5 commutation relays
- 3 programmable alarm levels
- Auxiliary power output 12 VDC 1 Amp max
- Dimensions 284 x 227.5 x 123 mm
- 230 VAC
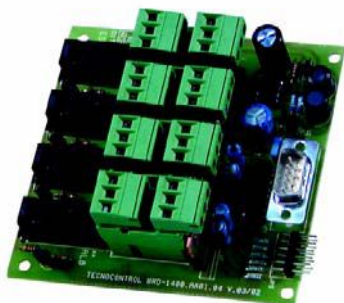
TCES400

ES400 - EXPANDER CARD FOR CE400P TECNOCONTROL

Expands input and output capabilities of Central Unit CE400P to a total of:

- 8 relay inputs (for sensors)
- 8 relay outputs (for control applications)
- 9 commutation relays
- Connection to PC / Connection to a printer
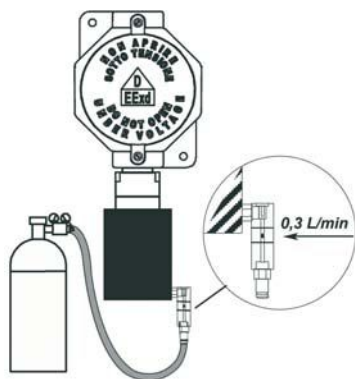
TCTC011

TC011 - SENSOR INSULATION INDUSTRIAL APPLICATIONS - TECNOCONTROL

- Insulates sensors element from atmospheric gases so it can only be struck by the calibration sampling gas
- Calibration set made up of a cylinder bell whose internal diameter perfectly fits to our sensors where the sensitive element is housed
- Sealing guaranteed by an internal O-ring and the proper flow rate is marked by a flow meter placed at the rim

TCTC012

TC012 - SENSOR INSULATION DOMESTIC APPLICATIONS - TECNOCONTROL

- Insulates sensors element from atmospheric gases, so it can only be struck by the calibrating gas

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TCTS292KG

TS292KG - LPG DETECTOR / TRANSMITTER IP 65 RATING - TECNOCONTROL

- LPG detector
- High IP rating making it suitable for difficult industrial premises where dust concentrations are high
- Labyrinth housing aids dust resistance
- Simplified connections due to coupling terminals
- 4 - 20 mA output signal

TCTS292KM

TS292KM - METHANE DETECTOR / TRANSMITTER - IP 65 RATING TECNOCONTROL

- Methane detector
- High IP rating making it suitable for difficult industrial premises where dust concentrations are high
- Labyrinth housing aids dust resistance
- Simplified connections due to coupling terminals

TCTS293KM

TS293KM - METHANE DETECTOR / TRANSMITTER - EXPLOSION PROOF TECNOCONTROL

- Methane detector
- Suitable for applications where there is a high risk of flammability
- Ideal for installation into areas which contain high dust concentrations
- Suitable for Zone 1 & Zone 2 areas

Available with explosion proof joints ZT163 (optional)

TCSE230KG

SE230KG - LPG DETECTOR - DOMESTIC TECNOCONTROL

- Visible and audible alarm
- Alarm stops when gas concentration drops to an acceptable level
- Power lamp (green LED)
- Fault condition lamp (yellow LED)
- Remote sensor connectable - see SE195KG
- Operates an electro valve through a relay
- IP 42 rating

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GAS DETECTOR - FIXED cont...

SE230KM - METHANE DETECTOR - DOMESTIC TECNOCONTROL

TCSE230KM

- Visible and audible alarm
- Alarm stops when gas concentration drops to an acceptable level
- Power lamp (green LED)
- Fault condition lamp (yellow LED)
- Remote sensor connectable - see SE195KG
- Operates an electro valve through a relay
- IP 42 rating

SE195KM - AUXILIARY METHANE GAS DETECTION SENSOR

TCSE195KM

- For use with Methane Detector - SE230KM
- Pre-set alarm threshold
- IP 44 rating
- Suitable for household applications, e.g.: boiler rooms, cellars
- Used where sensor is exposed to dust or moisture

SE195KG - AUXILIARY LPG GAS DETECTION SENSOR

TCSE195KG

- For use with LPG Detector - SE230KG
- Preset alarm threshold
- IP 44 rating
- Suitable for household applications, e.g.: boiler rooms, cellars
- Used where sensor is exposed to dust or moisture

SE120KM - METHANE DETECTOR TECNOCONTROL

TCSE120KM

- Visible and audible alarm
- Alarm stops when gas concentration drops to acceptable levels
- Power lamp (green LED)
- Fault condition lamp (yellow LED)
- Dimensions 105 x 65 x 43 mm
- 230 VAC

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GAS DETECTOR - FIXED cont...

SE120KG - LPG DETECTOR - TECNOCONTROL

TCSE120KG

- Visible and audible alarm
- Alarm stops when gas concentration drops to acceptable levels
- Power lamp (green LED)
- Fault condition lamp (yellow LED)
- Dimensions 105 x 65 x 43 mm
- 230 VAC

SE126KM - METHANE DETECTOR - 1 ZONE WITH RECESSED SENSOR - TECNOCONTROL

TCSE126KM

- LED gas concentration level indicator bar
- Two alarm levels
- 30 second alarm delay (avoids false alarms due to negligible gas presence)

SE126KG - LPG DETECTOR - 1 ZONE WITH RECESSED SENSOR - TECNOCONTROL

TCSE126KG

- LED gas concentration level indicator bar
- Two alarm levels
- 30 second alarm delay (avoids false alarms due to negligible gas presence)
- Dimensions 160 x 115 x 80 mm

SE139K - GAS DETECTION CENTRAL UNIT 1 ZONE WITH REMOTE SENSOR TECNOCONTROL

SE139K

- Detects either LPG or Methane (dependant upon connected sensor)
- LPG Detection: see LPG sensor SE192KG
- Methane Detection: see Methane sensor SE192KM

Unit Features

- LED gas concentration level indicator bar
- Two alarm levels
- 30 second alarm delay (avoids false alarms due to negligible gas presence)
- 230 VAC / 12 VAC / 12 VDC
- Dimensions 71 x 90 x 73 mm

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COMBUSTION ANALYSER

FIXED

O₂ MONITOR - ALBION

AL0203

- Simple sample draw monitor for accurate O₂ sampling
- Not affected by stack temperature.
- Alarm output
- mV output

PORTABLE

FYRITE TECH 60 - BACHARACH

BA0038

- Suitable for gas, oil & propane
- Automatic power off feature
- Carry pouch provided
- Accurate operation
- Easy to use
- Light weight
- Ergonomically designed
- Long battery life
- Flue Gas Temp: 0°C - 537°C

FYRITE PRO - BACHARACH

BA003**

- 6 optional models to choose from
- Hand held - all readings on one screen
- Models - O2, CO2, CO, Draft, Eff, XS air, Stack Temp
- Optional IR printer
- Portability - 24hrs of continual operation
- Comes with protective carry case
- A magnetic sleeve allows hands free operation

PCA SERIES - BACHARACH

BA001**

- Stores 10 readings
- Hand held
- All readings on one screen
- Models O₂, CO draft and NOₓ
- 2 year warranty on cells and unit
- Options for PC interface
- Infra-red printer output
- Comes with case

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PCA2 SERIES - BACHARACH

BA001

- *Smart Sensors,* pre-calibrated to eliminate calibration after replacement
- Measures six gases: CO, O_2, Low and High CO, NO, NO_2 (for true NOx) and SO_2
- Stores 100 readings
- Hand held
- All readings on one screen which features zoom capabilities
- Displays a graphical hot spot bar
- Flow fail and sensor life remaining display icons
- Visible and audible low battery alert
- Backlight and function keys
- Automatic CO purge with separate purge pump
- Field replaceable thermocouples
- Options for PC interface (Serial or IrDA)
- Supports ZIV protocol for PC data transfer
- Infrared printer output
- 10 fuel codes
- 2 year warranty on cells and unit

FYRITE INSIGHT - RESIDENTIAL COMBUSTION ANALYZER

Five Tools in ONE!

- Combustion & Efficiency analyzer
- 8 different fuels
- Room air CO test instrument
- Flue gas CO tester (CO air free)
- Dual channel digital thermometer
- Digital manometer (draft, gas, pressure, ESP, up to +100 INWC)

BA002   **Graphic LCD Display**

- Backlight, customizable readout and zoom feature

New B-Smart Technology

- Self calibration
- Easy access to sensors

User Diagnostics

- O_2 and sensor life
- Calibration reminders

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ELECTRONIC RATIO CONTROL

N8**

8000 SERIES - NORTH AMERICAN

- Programmable ratio control
- In built "out of ratio alarms"
- Dual fuel
- Inputs for other devices eg O_2 trim

Various Models Offer
- Characterised valves
- Flue gas re-circulation
- Compensated air flow
- Manual / Auto
- Process temperature control + P.I.D
- Oxygen / Fuel
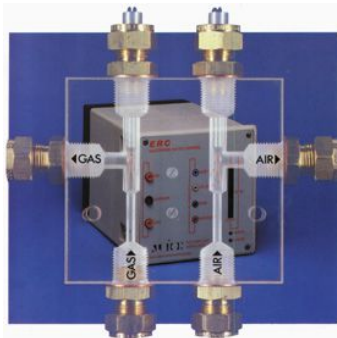
AL0200

ERC + O_2 MONITOR - ALBION

- Precise air/gas ratio control
- High turndown capability
- Compensates for changes in media temperature & pressure
- Saves energy, easy to install & commission

CONTROL PANELS

L**

SCE PROVIDES IN HOUSE
- Design
- PLC Software
- CAD Drawings and documentation
- Manufacture
- Factory testing

FOR
- Gas fired kilns and furnaces, including pulse fired applications
- Boilers and heaters
- Dryers
- Heating and airconditioning systems
- Powder coating lines
- Vacuum systems
- Material handling
- Equipment test modules

Contact us with your specialised requirements.

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GAS SAFETY PROTECTION SYSTEMS

4 - 14

L01***

GAS GUARD GG SERIES - SCE
- For laboratories and kitchens
- Key switch
- Fire alarm
- Provision for field emergency stop button
- Control panel integral with gas valves or remote
- Low gas pressure protection
- All valves AGA approved
- For any pipe size
- Widely used in N.S.W & QLD

L0040

GAS CHECK - SCE
- For multi-storey buildings, kitchens, boiler rooms, class rooms and laboratories
- A wide range of fire alarm, gas detection and emergency stop devices
- Low gas pressure protection
- All valves AGA approved
- Meets guidelines of the "Office of Gas Safety" - Victoria
- Pipe sizes 6 mm - 150 mm

KR3267

LSV, K-LSV - KROMSCHRODER
- Safety valve for laboratories
- EC type tested and certified design
- CE Approved
- Control panels SK32** and SK10 (sold separately)

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IGNITION ELECTRODES / SENSORS

Commercial

Z8038, Z8042, Z8050	
RS14060920, RS14061520	**Robertshaw**
Z8030, Z8032, Z8034	**Eurolec**
Z8020, Z8035	
B.30.2, B.90.4	**Polidoro**
Square	**Catoba**
Flame Sensors, Electrode	**PSE**
50067, 501/21/2	**Apco**
760 Series	**White Rodgers**

Industrial

	SCE
4051, 4055	**North American**

IGNITOR - PIEZO

Piezo Push-Button

AE-3630, P210015	**Ineco**
JU0020	**Junkers**
CC03555	**Electrolux**

IGNITORS - ELECTRONIC

Regesa, Ispra

IGNITION TRANSFORMER - WOUND

110V

T11M, T16M, T16MC	**Brahma**
TZI	**Kromschroder**

240v

T11M & MC, T13M & AN, T14L, T16M	
& MC, T17M, T18 B & D,	
T 18D	**Brahma**
TZI	**Kromschroder**

415v

T17M	**Brahma**

IGNITION TRANSFORMER - ELECTRONIC

110V

TSC1	**Brahma**

240v

TSC1, TC1L, TC2L	**Brahma**

TRANSFORMERS - STEP DOWN

240 / 24V

1.0AMP, 1.25AMP, 1.75AMP, 2AMP	**Miscellaneous**

IGNITION ELECTRODES / SENSORS

COMMERCIAL

UNIVERSAL ELECTRODE / EARTH ROD

Z8038

- Electrode
- Earth rod
- Length 36mm
- Supplied with diamond shaped bracket

IGNITOR

Z8042

- Electrode
- Suitable for ovens & grillers

FLAME SENSOR

Z8050

- Length 24cm
- Porcelain - 4cm
- Rod - 11cm
- Tear drop shaped bracket

ROBERTSHAW

RS14060920

- Spark plug & lead
- Length 1200mm

ROBERTSHAW

RS14061520

- Spark plug & lead
- Length 550mm

EUROLEC - ELECTRODE

Z8030

- Length 500mm
- Supplied with lead & spring

EUROLEC - ELECTRODE

Z8032

- Length 850mm
- Supplied with spring & clip

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IGNITION ELECTRODES / SENSORS cont...

ELECTRODE - EUROLEC

Z8034

- Right angle
- Sleeved lead

UNIVERSAL ELECTRODE

Z8020

- 45mm porcelain body
- 100mm flame rod

IGNITION ELECTRODE

Z8035

- 110mm porcelain body
- 120mm flame rod

IGNITION ELECTRODE - POLIDORO

P40*

- Suit Polidoro pilot
- Round shape
- Long reach spark

ELECTRODE / FLAME ROD - CATOBA

CB2058

- Ceramic 53mm x 7mm x 6mm
- Fits Catoba pilot
- Square shape

FLAME SENSOR - PSE

PS0042

- Diamond Bracket
- Rod length - 75 mm
- Ceramic - 38 mm
- Lead - 1000 mm
- Double Lock Stake
- Kanthal wire

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IGNITION ELECTRODES / SENSORS cont...

═══ COMMERCIAL ═══

ELECTRODE - PSE
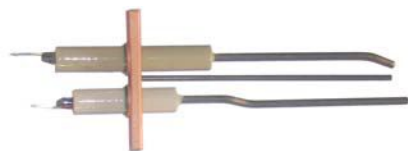
PS0070

- Combination Electrode / Sensor
- Earth rod with bracket
- 200 mm reach
- Small length version available (PS0060)

50067 - APCO

AP050067

- Electrode with integral lead
- Teardrop bracket

50121/2 - APCO

AP050121

- Flame sensor with integral lead
- Teardrop bracket

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760 SERIES - WHITE RODGERS

W0250

- Ignition electrode
- Earth electrode

═══ INDUSTRIAL ═══

FLAME ROD / IGNITOR - SCE

Z8000

- 300 mm x 6 mm
- Optional clip and rubber boot

4051 - AIR ASSISTED - NORTH AMERICAN

N4051*

- Improves ignition by increasing spark area
- Reduces gas pilot components
- Reduces pilot maintenance
- Long life - durable
- To suit a large range of burners

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IGNITION ELECTRODES / SENSORS cont..
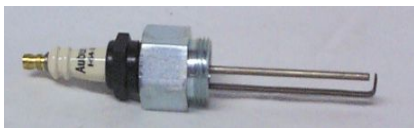
N4055*

4055 - DIRECT SPARK - NORTH AMERICAN
- For use with industrial burners, including North American burner models 4422, 4425, 4575, 4832 & 4836
- Available in various lengths

PIEZO IGNITORS

CC03630

AE - 3630 - INECO
- Suitable for atmospheric burners
- Spring kit version - 16 mm mounting
- Nut version - 18 mm mounting
- Up to 120°C

CC03500

P 210015 - INECO
- Lock nut version
- Suitable for atmospheric burners
- Large flange model

JU0020

PIEZO - JUNKERS
- Heavy duty large style
- Suitable for atmospheric burners

CC03555

PIEZO - ELECTROLUX
- Comes with Lock Nut

IGNITORS - ELECTRONIC

COMMERCIAL

ZE08020

ELECTRONIC IGNITOR - ISPRA CONTROLS
- 2 Point
- 240 Volt

ZE08040

ELECTRONIC IGNITOR - ISPRA CONTROLS
- 4 Point
- 240 Volt

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IGNITORS - ELECTRONIC cont...

ELECTRONIC IGNITOR - ISPRA CONTROLS

ZE08060
- 6 Point
- 240 Volts

ELECTRONIC IGNITOR - ISPRA CONTROLS

ZE08080
- 8 Point
- 240 Volt

ELECTRONIC IGNITOR - REGESA

RG01020
- 1.5 volt DC
- 2 Outlet

ELECTRONIC IGNITOR - REGESA

RG02020
- 9 volt DC
- 2 Outlet

ELECTRONIC IGNITOR - REGESA

RG030*
- 12 volt DC or 110 volt AC
- 2 Outlet + 6

ELECTRONIC IGNITOR - REGESA

RG080*
- 240 volt
- 2 or 4 Outlet
- Bottom or side mounting
- Available with push button in 4 outlet

ELECTRONIC IGNITOR - REGESA

RG08028
- 240 volt
- 1 Outlet
- Re - Ignitor

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IGNITION TRANSFORMERS - WOUND

5 - 6

110 VOLT

B0215

T11/M - 110 VOLT / 50Hz - BRAHMA
- Single high output (1x 9 kV)
- Intermittent ignition (33%)
- Longlife transformer
- Secondary current - 20 mA
- Shell shape

B0230
B0235

T16/M & MC - 110 VOLT / 50Hz - BRAHMA
- Dual output (2 x 5 kV)
- Intermittent ignition (33%)
- Longlife Transformer
- Secondary current - 20 mA
- Shell shape

(MC Model is **Bottom Entry**)

KR38016

TZI 5/15 - 110 VOLT / 50Hz - KROMSCHRODER
- Single output (1 x 5 kV)
- Intermittent ignition (15%)
- Secondary current - 11 mA
- Compact dimensions
- Can use single electrode for ignition & monitoring

240 VOLT

B0115
B0116

T11/M & MC - 240V / 50Hz - BRAHMA
- Single high output (1x9 kV)
- Intermittent ignition 33%
- Secondary current - 20 mA
- Longlife transformer
- Shell shape

(MC Model - **Bottom Entry**)

B0118
B0119

T13/M & AN - 240V / 50Hz - BRAHMA
- Continuous ignition (100%)
- Single output (1 x 8 kV)
- Longlife transformer
- Secondary current - 16 mA
- Top side entry

(AN Model - **Bottom Side Entry**)

B0120

T14/L - 240V / 50Hz - BRAHMA
- Intermittent ignition (25%)
- Double output (2 x 4.5 kV)
- Secondary current - 25 mA

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IGNITION TRANSFORMERS cont....

5 - 7

T16/M & MC - 240V / 50Hz - BRAHMA

B0130
B0135

- Dual output (2 x 5 kV)
- Intermittent ignition (33%)
- Longlife transformer
- Secondary current - 20 mA
- Side entry x 2

(MC Model has **Bottom Entry)**

T17/M - 240V / 50Hz - BRAHMA

B0140

- Dual output (2 x 5 kV)
- Continuous ignition (100%)
- Longlife transformer
- Side entry x 2
- Secondary current - 16 mA

T18B & D - 240V / 50Hz - BRAHMA

B0145
B0155
B0165

- Continuous ignition (100%)
- Double output (2 x 4.5 kV)
- End entry x 2
- Secondary current - 19 mA
- Large industrial type

(D Model has **Bottom Entry**)

TZI 5/15 - 240V / 50Hz - KROMSCHRODER

KR38002

- Single output (1 x 5 kV)
- Intermittent ignition (15%)
- Compact dimensions
- Can use single electrode for ignition and monitoring
- 110v option available
- Secondary current 11mA

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IGNITION TRANSFORMERS cont....

TZI 7.5/33 or 100-240v /50Hz - KROMSCHRODER

KR38010
KR30011

- Single output (1 x 7.5 kV)
- Option of Intermittent ignition (33%) or continious (100%)
- High operational reliability
- Ignition of gas/oil burners
- Can use single electrode for ignition and monitoring
- Secondary current - 12 mA
- Open - for cabinet mounting
- Compact dimensions

TZI 5/15 - 240V / 50Hz - KROMSCHRODER

Ignition transformer for high voltage spark ignition of gas or oil burners. Suitable for ignition and monitoring with one or two electrodes.

KR38036

- Single output (1 x 5 kV)
- Intermittent ignition (15%)
- IP65 enclosure
- Compact dimensions
- Can use single electrode for ignition and monitoring
- 110v option available
- Secondary current 11mA

═══ 415 VOLT ═══

T17/M - 415 VOLT - BRAHMA

B0310

- Double output (2 x 4 kV)
- Continuous ignition (100%)
- Secondary current - 16 mA
- Large industrial type

ELECTRONIC IGNITION TRANSFORMERS

═══ 110 VOLT ═══

TSCI - 110v - BRAHMA

B0604

- Single output (1 x 15000 v)
- Continuous Ignition 100%
- Top entry
- Compact design

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ELECTRONIC IGNITION TRANSFORMERS

240 VOLT

TSCI - 240V - BRAHMA

B0504

- Single output (1 x 15000 v)
- Continuous Ignition 100%
- Top entry
- Compact design

TC1L - 240V - BRAHMA

B0530

- Single output (1 x 13000 v)
- Intermittent ignition - 50%
- Secondary current 25mA
- Compact design
- Available with inbuilt anti emission filter

TC2L - BRAHMA

B0540

- Double output (2 x 10,000 v)
- Intermittent ignition - 50%
- Secondary current - 30 mA
- Compact design

TC2LVCS - BRAHMA

B0560

- Continuous Ignition 100%

STEP DOWN TRANSFORMERS

240 VAC / 24 VAC

Z030*

- Available in 1.0, 1.25, 1.75, 2 amp
- Compact size
- Solid structure

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System Control Engineering

BURNER CONTROL / SEMI AUTOMATIC

RE3	Brahma
84-510 Series	Crouzet
IFW	Kromschroder
LFE10	Landis & Stfa

BURNER CONTROL WITH INTEGRAL HSI IGNITOR / SENSOR

50 A 72, 768G	White Rodgers
H4M	Ram

BURNER CONTROL WITH INTEGRAL IGNITION

CE, CM, SM, MM, AT5	Brahma
3EM, 5 EM	Ram
S86 Universal Replacement	Honeywell
35 - 615300 - 113 Series	Fenwal

PROGRAMMING CONTROLS FOR GAS BURNERS

MPI	Brahma
85.207.103	Crouzet
BCU 370 / 440 / 460 / 480,	Kromschroder
IFS, MPT, PF	
DKG, TF832.3, DMG, MMI,	Satronic
MMG, TMG	Landis & Stfa

SENSOR - UV

UV1, FD1, FD2	Brahma
85.207 Series	Crouzet
UV Series	Kromschroder
QRA	Landis & Stfa
UV	Pactrol
UVZ, UVD	Satronic

SENSOR - IONIZATION

	PSE
	Cast

INDUSTRIAL UV CELL HOLDER

	SCE

BURNER CONTROL / SEMI AUTOMATIC

RE 3 CONTROL - BRAHMA

B1115

- Plug in Base
- UV Cell or Flame Rod Sensing
- Green Light - Power On
- Red Light - Flame On
- Two Electrical Change-over Contacts
- 240 or 110 volt AC
- AGA Approved Number 5367 Class 3D

B1190   **UV 1 BRAHMA UV Detector**

84-510-508 CONTROL - CROUZET

C33508

- Plug in Base
- UV Cell - Type 85.207.103 or Flame Rod Sensing
- Yellow Flashing Light - Flame On
- Two Electrical Change-over Contacts
- 240 volt AC
- AGA Approved Number 6324 Class 3D

IFW15 CONTROL - KROMSCHRODER

KR28162

- Plug in Base
- UV Cell - Series UVS* or Flame Rod Sensing
- Amber Light - Flame On
- Electrical Open Contact
- Electrical Closed Contact
- 240 or 110 volt AC
- AGA Approved Number 4131 Class 3D

LFE 10 CONTROL - LANDIS & STAEFA

Z3050

- Plug in Base
- UV Cell - Series QRA* or Flame Rod Sensing
- Electrical Open Contact
- Electrical Closed Contact
- 240 or 110 volt AC
- AGA Approved Number 5517 Class 3D

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BURNER CONTROL WITH INTEGRAL H.S.I

W02**

50A72-2** H.S.I CONTROL - WHITE RODGERS
- Plug in Connectors
- Re-Start Attempt
- Single Gas Valve
- Flame Sensor
- Hot Surface Ignitor
- LED Indicator
- 240 volt AC
- AGA Approved Number 5431 Class 2Cb

W04**

768G-214 WHITE RODGERS H.S.I IGNITOR/SENSOR
- Silicon Nitride
- 240 volt

RAM0210

H4M7-01 H.S.I CONTROL - RAM
- Plug in Electrical Connectors
- Re-Start Attempt
- Single Gas Valve
- Volatile Lock - Out
- Flame Sensor
- Hot Surface Ignitor
- Flame Failure Safety Time - 5 sec
- LED Diagnostics
- 24 volt AC
- AGA Approved Number 5522 Class 2Cb

RAM0255

H4M7-02 RAM H.S.I CONTROL
Same features and approval as the H4M7-01 but has
- Pilot & Main Gas Valves
- Air pressure circuit / lock out

RAM0215

H4M C9-01 RAM H.S.I CONTROL
All the same features as the H4M7-01 but has
- Air Pressure Proving / Fan
- AGA Approved Number 5522 Class 2Ca
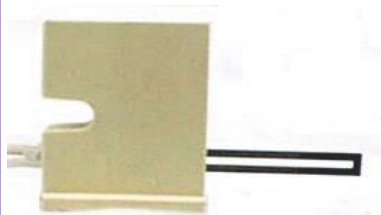
W0420

401 H.S.I IGNITOR - NORTON
- Silicon Carbide
- 24 volt AC

OTHER VERSIONS AVAILABLE

BURNER CONTROL WITH INTEGRAL IGNITION

B1150

CE11 U MICROFLAT - BRAHMA
- Restart Attempt
- Plug in Electrical Connections
- Single Gas Valve
- Volatile Lock-out
- Pre-Purge 1.5 sec
- Flame Failure Safety Time - 5 or 10 sec
- Ionization flame electrode control
- 240 or 110 volt AC
- AGA Approved Number 5391 Class 2 Cb

B1154

CE12 U MICROFLAT - BRAHMA
Same features and approval as CE11 U but has
- Pilot / Main Gas (2 Valves)

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BURNER CONTROL WITH INTEGRAL IGNITION cont..

B1156

CE31 U MICROFLAT - BRAHMA
Same features as CE11 U but has
- Air Pressure Proving / Fan
- AGA Approved Number 5391 Class 2Ca

B1152

CM11 U MICROFLAT - BRAHMA
Same feature and approval as CE11 U but has
- Remote Flame Failure Reset Push Button
- Non Volatile Lockout

B1154

CM12 U MICROFLAT - BRAHMA
Same features and approval CM11 U but has
- Pilot / Main Gas (2 Valves)
- Non volatile

B1156

CM31 U MICROFLAT - BRAHMA
Same features and approval as CE31 U but has
- Remote Flame Failure Reset Push Button
- Non Volatile Lockout

B1163R

CE32 EUROFLAT - BRAHMA
- Plug-in Electrical Connections
- Re-Start Attempt
- Pilot & Main Gas Valves
- Volatile Lock-out
- Pre-Purge - 5 sec or 30 sec
- Fan Control with Air Pressure Proving
- Flame Failure Safety Time - 5 sec
- Ionization Flame Electrode Control
- 240 or 110 volt AC
- AGA Approved   Number 5390 Class 2Ca

B1164

CM32 EUROFLAT - BRAHMA
Same features and approval the CE32 but has
- Non Volatile Lockout
- Remote Flame Failure Reset

B1181

SM192 EUROBOX - BRAHMA
- Plug-in Base
- Re-Start Attempt
- Pilot / Main Gas (2 Valves)
- Manual Reset
- Pre-Purge - 5 sec
- Flame Failure Safety Time - 5 sec
- Ionization Flame Electrode Control
- 240 or 110 volt AC
- AGA Approved Number 5380 Class 2Cb

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BURNER CONTROL WITH INTEGRAL IGNITION cont..

CM391 EUROBOX - BRAHMA

B1184   Same features as the SM192 but has

- Fan Control with Air Pressure Proving
- AGA Approval   Number 5380 Class 2Ca

B1188   ### MM192 EUROBOX - BRAHMA

Same features and approval as SM192 but has

- Single Flame Rod / Ignition Control
- Remote Reset

AT5/TR CONTROL - BRAHMA

B1120
- Plug in Base
- Pilot / 2 Main Gas Valves
- Manual Reset
- Pre-Purge 15 sec
- Flame Failure Safety Time - 10 sec
- Ionization Flame Electrode Control
- 240 or 110 volt AC
- AGA Approved Number 3195 Class 2Ca

RAM0112   ### 3EM 10 - 07 CONTROL - RAM

- Plug in Electrical Connectors
- Re-Start Attempt
- Single Valves
- Volatile Lock-out
- Single Sensor Ionization / Ignition
- Flame Failure Safety Time - 5 sec
- LED Operation Indication Diagnostics
- 24 volt AC
- AGA Approved Number 5522 Class 2Cb

Wiring Kit available - RAM0112KD

RAM0115   ### 3EM C10 -04 CONTROL - RAM

Same features as the 3EM 10 -04 but has

- Fan Control with Air Pressure Proving
- AGA Approved Number 5522 Class 2Ca

RAM0120   ### 3EM C7-04 CONTROL - RAM

Same features & approval as the 3EM C10-04 but has

- Double Sensor

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BURNER CONTROL WITH INTEGRAL IGNITION cont...

5EM 10 -01 CONTROL - RAM

RAM0155

- Plug in Electrical Connector
- Restart Attempt
- Pilot / Main Valves
- Volatile Lockout
- Single Sensor Ionization / Ignitor
- Flame Failure Safety Time - 5 sec
- L.E.D Operation
- 24 volt AC
- AGA Approved Number 5522 Class 2Cb

RAM0160 5EM 7 -01 CONTROL - RAM

Same features and approval as the 5EM 10 -01 but has

- Seperate Sensor

RAM0165 5EM C7 -01 CONTROL - RAM

Same features as the 5EM 7 -01 but has

- Fan Control with Air Pressure Proving
- AGA Approved Number 5522 Class 2Ca

Wiring kits available - RAM0160K

C31103 85.207.103 U.V Cell - CROUZET

BCU 370 - KROMSCHRODER

KR28258

- Plastic case
- Pilot / Main gas valve
- Remote reset
- UV cell or ionization control
- Restart or immediate lock-out
- Programmed by external computer
- Optional field bus interface

AGA Approval: Awaiting

HONEYWELL S86 UNIVERSAL REPLACEMENT BOX

HWS8610K

- Provides up to 1.0A pilot & 2.0A main valve current rating
- System uses rectification principle for flame sensing
- Can be used on natural or LPG gas
- Response time 0.8 sec at 1.0mA flame current
- Flame current 1µA (minimum)
- 24 volt AC

Replaces all Honeywell S86 Boxes

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BURNER CONTROL WITH INTEGRAL IGNITION cont...

FENWAL SERIES 35-615300-113 CONTROL

Z0398

- 24 VAC Microprocessor based DSI control
- Pressure switch monitoring
- System diagnostics LED
- Alarm output (normally closed contact)
- Automatic reset 1 hour after lockout (not allowed for CE approved models)
- Custom prepurge and interpurge timings (prepurge time cannot exceed interpurge time on CE models)
- Multiple tries for ignition
- Remote or local flame sensing
- Flame sense test pins

BCU 440 / 460 / 480 - KROMSCHRODER

KR2830

- Metal case
- Pilot / Main gas valve
- Remote reset
- UV cell or ionization control
- Restart or immediate lock-out
- Programmed by external computer
- Optional field bus interface
- Optional pressuring proving

AGA Approval: Awaiting

IFS 258 CONTROL - KROMSCHRODER

KR2801

- Plug in base
- 1 Valve connection
- Remote reset
- UV cell or ionization control
- Restart or immediate lock-out
- 110 / 240 volt AC
- Indicator lights
- AGA Approval Number 4230

MPI - BRAHMA

B130010

- Plug in base
- Pilot / Main gas valve
- Remote Reset
- UV cell or ionization control
- Restart or immediate lock-out
- Microprocessor based
- Optional pressuring proving

AGA Approval: 7168

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PROGRAMMING CONTROLS FOR GAS BURNERS cont..

KR28024

IFS135B CONTROL - KROMSCHRODER
- Plug in Base
- Pilot / Main Gas Valves
- Remote Reset / Flame Failure Indicator
- Pre-Purge 3 sec
- Flame Failure Safety Time 5 sec
- UV Cell or Ionization Control
- 240 volt AC
- AGA Approved Number 3949 Class 2B

KR4010   **UVS1 Heat Protective Housing - KROMSCHRODER**

KR4030   **UVS 6 Heat Protective Housing - KROMSCHRODER**

KR28084

IFS110 - IM CONTROL - KROMSCHRODER
- Plug in Base
- Pilot / Main Gas Valves
- Remote Reset / Flame Failure Indicator
- Pre-Purge 5 sec
- Flame Failure Safety Time 5 sec
- Single Electrode / UV Cell
- 240 or 110 volt AC
- AGA Approved   Number 4230 Class 2B

KR4020   **UV5 UV Cell**

MPT 700 - KROMSCHRODER
- Pulse firing controller
- 95 - 240v
- 1 or 2 zones
- 1 to 8 burners
- Multiple programs
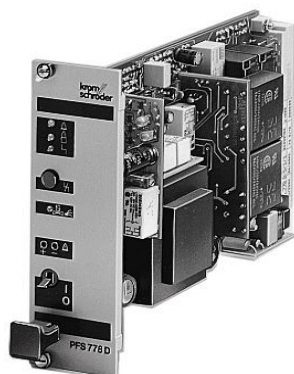
PFS KROMSCHRODER CONTROL
PFD KROMSCHRODER CONTINUOUS CONTROL
PFF FLAME DETECTION 4 BURNERS
PFR RELAY CONTROL 4 BURNERS
PFP POWER SUPPLY 24v DC
- 19" Rack System
- 240 or 110 volt AC
- AGA Approved Number 5597 Class 2A

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PROGRAMMING CONTROLS FOR GAS BURNERS cont..

TF832.3 - SATRONIC

Microprocessor Oil Burner Control

SA02431

- Suitable for the control & monitoring of oil
- Power burners up to 30kg/hr capacity
- 2 stage operation
- UV cell or ionization control
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

DKG 972   MOD 5 - SATRONIC

Microprocessor Atmospheric Control

SA0332005

- Plug in base
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- Flame failure safety time - 5 sec
- UV cell or ionization control
- 240 volt AC
- AGA Approved Number 6018 Class 2Ca

DMG 970-03 - SATRONIC

Microprocessor Gas Burner Control

SA0350003

- Plug in base
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- Pre-Purge - 40 sec
- Flame failure safety time - 3 sec
- UV cell or ionization control
- 240 volt AC
- AGA Approved Number 6039 Class 2A

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PROGRAMMING CONTROLS FOR GAS BURNERS cont..

SA0622520   MMI   810.1   MOD 45 - SATRONIC
SA0640320   MMG   810.1   MOD 45 - SATRONIC
SA0642120   MMG   870.1   MOD 65 - SATRONIC

Synchronous Motor Gas Burner Control

- Plug in base
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- Pre-Purge - 40 sec or 65 sec
- Flame failure safety time - 5 sec
- UV cell or ionization control
- 240 volt AC
- AGA Approved Number 3749 Class 2A

TMG   740-3   MOD 43-35 - SATRONIC

Synchronous Motor Programme Gas Burner Control

SA08218

- Plug in base
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- Pre-Purge - 32 sec or 60 sec
- Flame failure safety time - 5 sec
- UV cell or ionization control
- 240 volt AC
- AGA Approved Number 5428 Class 2A

FLAME DETECTORS - SATRONIC

SA18813   UVZ 780 - Red UV Cell

FLAME DETECTORS - SATRONIC

SA40001   FZ 711 S - Red Photoresistor

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PROGRAMMING CONTROLS FOR GAS BURNERS cont..

Z3060

LGB 21 350 A27 CONTROL - SIEMENS
- Plug in Base
- Pilot / Main Gas Valves
- Remote Reset / Flame Failure Indicator
- Pre-Purge 30 sec
- Ionization Control
- Add on Unit AEQI 1A27 (UV Cell)
- Air Pressure Proving / Fan
- Flame Failure Safety Time 5 sec
- Fault Indication
- 240 or 110 volt AC
- AGA Approved Number 4393 Class 2A

Z3010

LFL1 635 CONTROL - SIEMENS
- Plug in Base
- Pilot / Two Gas Valves
- Remote Reset / Flame Failure Indicator
- Pre-Purge 30 or 60 sec
- Ionization / UV Cell
- Air Pressure Proving / Fan
- Flame Failure Safety time 5 sec
- Fault Indication
- 240 or 110 volt AC
- AGA Approved Number 2734 Class 2A

Z3030   **QRA2 UV Detector - SIEMENS**

INDUSTRIAL HOLDER FOR UV CELLS

Z2500

INDUSTRIAL HOLDER FOR UV CELLS

- Simple, 2 part construction
- Suits most cylindrical type UV detector - Kromschroder - Crouzet - Brahma - Landis & Staefa etc
- Compact construction
- 3/4" BSP male connection to burners, no additional fittings required
- Provision for installation of Quartz barrier (Z2525)
- Provided with 1/4" gas connection for cooling air

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MANOMETERS		U Tube	
		3 kPa, 8 kPa	SCE
	Digital		
		MDZ - BI	Seitron
		PM - 80	Digitron
	Digital with Leak Detector		
		DG - 2081P	Digitron
PRESSURE TEST POINTS		*Test Points 6 mm, 8 mm*	
		Petes Plugs, Gauge Adaptors	Brahma
GAUGES	Dial Type		
		Low Pressure	Fimit
		Med-Hi Pressure	Rhomberg
METER - GAS	Turbine Type		
		DM , DU Series	Kromschroder
METERING ORIFICE SYSTEM - GAS	Orifice Plate Type		
		8697	North American
METER - OIL	Variable Area Type		
		8598	North American
METER - GAS	Diaphragm Type		
		G2.5AL, G4AL, G6AL, G10AL	Samtech

MANOMETERS

7 - 1

3 kPa MANOMETER - U TUBE - SCE

Comes with:

Z0103

- Hanging chain
- Protective plastic casing
- Quality silicon tubing
- Supply of coloured fluid
- Rear mounted

8 kPa MANOMETER - U TUBE - SCE

Comes with:

Z0107

- Hanging chain
- Plastic tubing 0.8 m
- Protective front cover
- Bottle red liquid

Z0122   **NEXT SPARE "U" TUBE TO SUIT 8 kPa MODEL**

PRESSURE TEST BLADDER KIT - NEXT

Comes with:

Z0130

- Hand pump
- 3 way tee
- Plastic tubing

Z0110   **SILICONE TUBING TO SUIT ALL MANOMETERS - SOLD PER METRE**

DIGITAL MANOMETER - MDZ BI - SEITRON

- Large LCD display (4 Digits)
- Auto Shut Off
- Dual Scales: LCD & Indexed
- Low Battery Function
- Very Affordable
- 9VDC Operation
- Choice of 5 units of measurement

SE0200N

- Range of 0 - 10 kPa
- Over range alarm
- Hold reading function

Comes With

- Synthetic leather case
- 2 - Plastic pipes
- 6 x 1.5VDC batteries
- Silicon tubing

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MANOMETERS cont...

PM-80 - DIGITAL MANOMETER

DG-PM80

- Differential Inputs
  (by 8 mm tube connectors)
- 0 - 130 mbar measurement range
- Large backlit LCD Display
- Push button *Hold* feature
- Push button *Zero* feature
- Water resistant (IP 67)
- Auto power off
- Rugged case
- Tilt stand

Units

- in / H_2O (Inches of Water)
- in / HG (Inches of Mercury)
- Kpa (Kilopascal)
- mbar (Millibar)
- mm / H_2O (Millimeters of Water)
- mm / HG (Millimeters of Mercury)

MANOMETER WITH LEAK DETECTOR

DG-2081P - DIGITAL MANOMETER with LEAK DETECTOR

DG-2081P

- Operating Pressure Range: 130 mbar
- Operating Temperature: 0^oC to 50^oC
- Power: 2 AA Batteries
- Overrange: 350 mbar
- Display backlight
- Out of range
- Zeroing
- Hold
- Smoothing
- Units of pressure
- Range lock
- Max / Min
- Averging
- Leak Testing
- Logging
- IP 67 Rated
- Auto switch off
- Dimensions: 155 x 67 40 mm
- Weight: 180 grams

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PRESSURE TEST POINTS

TEST POINT BRASS - 1/8" BSP & 1/4" BSP

G099*
- Screwed needle seal
- Orifice: 0.7 mm to meet AGA standards

Pete's Plugs will allow you to take pressure or temperature readings quickly and eliminate the need for leaving costly gauges or temperature indicators in the line.

PETE'S PLUG - 1/4" BSP

G0992
- Brass Bodied

PETE'S PLUG GAUGE ADAPTOR

G0993

N.B. the pressure gauge adaptor has a probe made of 304 stainless steel. The probe is 1/8" in diameter and extends two inches on the standard adaptor.

ADAPTOR 1/8" x 1/4" BSP BRASS

G0992A
- To suit G0993

GAUGES

Low pressure Dial Gauges with 63 mm diameter face. Gauges have a 1/4" bottom entry / male thread. - **FIMIT**

F010060	**0 - 60 mbar**
F010100	**0 - 100 mbar**
F010250	**0 - 250 mbar**
F010400	**0 - 400 mbar**
F010600	**0 - 600 mbar**
F020010	**0 - 1 Bar / PSI**
F0232025	**0 - 2.5 Bar / PSI**
F0231040	**0 - 4 Bar / PSI**
F0250006	**0 - 10 Bar**
F0250100	**0 - 100 Bar**

A range of low to medium pressure dial gauges with a variation of pressure and inlet sizes.

Z0505	**0 - 16 kPa Dial 63 mm x 8 mm Bottom entry**
Z0508	**0 - 100 kPa Dial 63 mm x 8 mm Bottom entry**
Z0511	**0 - 160 kPa Dial 63 mm x 8 mm Bottom entry**
Z0514	**0 - 200 kPa Dial 40 mm x 6 mm Rear entry**
Z0517	**0 - 250 kPa Dial 63 mm x 8 mm Bottom entry**
Z0523	**0 - 400 kPa Dial 40 mm x 8 mm Rear entry**
Z0520	**0 - 400 kPa Dial 63 mm x 8 mm Bottom entry**
Z0526	**0 - 600 kPa Dial 63 mm x 8 mm Bottom entry**
Z0529	**0 - 800 kPa Dial 63 mm x 8 mm Bottom entry**
Z0533	**0 - 1600 kPa Dial 63 mm x 8 mm Bottom entry**

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TURBINE METERS FOR GAS

DM SERIES - KROMSCHRODER

DM 10 R 25 1" - DM 40 R 25
- Suitable for flows up to 65 m^3/h - 25 mm connections
- Pulse Output
- Can communicate with BAS systems

KR66*

DM 40 R 40   DM 1000 - 2150
- Suitable for flows up to 1600 m3/h - wafer type for flange mounting
- Accurate to +/- 1% at maximum flow
- Suitable for air up to 1600 kPa and gas up to 400 kPa
- Integral high and low frequency transmitters for remote flow indication and totalising.
- Pulse Output
- Can communicate with BAS systems

DE SERIES - KROMSCHRODER
Generally same as above, with
- Electronic volume display

DU Series (Ultra Sonic Meter) - Kromschroder

- 16 Bar maximum pressure
- IP66 Protection
- 70 ^{O}C maximum temperature
- 4-20mA Flow proportional output (No converter required)
- Low frequency output

KR66606***
- LCD screen display
- Low (negligible) pressure loss
- Overload proof
- Not susceptible to pressure surges
- Virtually maintenance free
- Some hazardous area applications possible
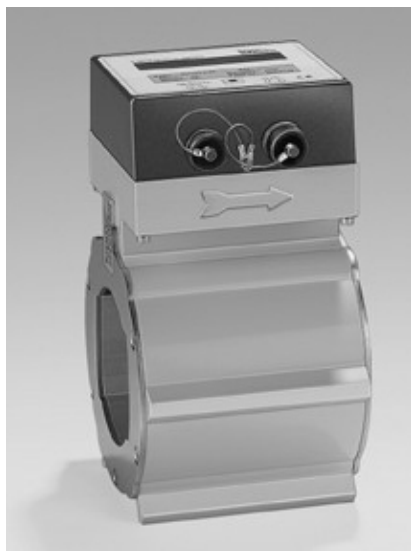
Additional features available mid 2007
- Remote readout panel
- Integral pressure temperature correction

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METERING ORIFICE SYSTEM FOR GAS

8697 SERIES - NORTH AMERICAN

Orifice metering device for use with gas or air.
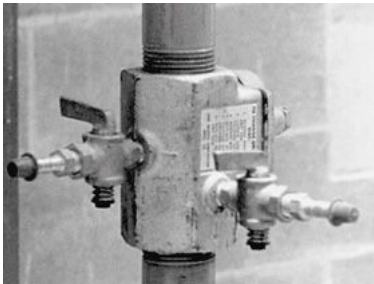
N8697*

- Suitable for total flow indication or individual burner flow indication on multiple burner systems
- Available in 15 - 100 mm pipe sizes with a wide range of orifice plates for each size
- Suitable for pressures up to 170 kPa
- Accuracy within 2% when correctly applied

VARIABLE AREA METERS FOR OIL

8598 SERIES - NORTH AMERICAN

Direct reading oil flow meters

N8598*

- Suitable for distillate oil
- Oil flows up to 40 litres/min
- Pressures up to 35000 kPa
- Available for downward flow lines in gravity fed systems
- Fluid temperatures up to 120°C
- Accuracy within +4% of full scale

DIAPHRAGM GAS METERS

SAMTECH G SERIES - ALUMINIUM CASE

- Low frequency pulse output (upon request)
- Maximum Pressure 150 kPa
- Steel case available
- Capacity 0 - 16 m^3 /h
- Low registration rate
- Suitable for LPG or Natural gas
- Meters supplied with couplings and gasket

SMCTMA000020
- G2,5 AL
- 0.006 - 4 m^3/h

SMCTMA000040
- G4 AL
- 0.010 - 6 m^3/h

SMCTMA000060
- G6 AL
- 0.015 - 10 m^3/h

SMCTMA000100
- G10 AL
- 0.025 - 16 m^3/h

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SERVO MOTORS

GT 31 *** Series, GT 50 ** Series	Kromschroder
IC20 Series, IC40 Series	

ACTUATORS

IC20 Series, IC40 Series	Kromschroder
SKP 15 Series, SKP 25 Series, SKP 75 Series	Siemens
BBT*** Series, BBM *** Series,	Neptronic
TBT*** Series, TBM*** Series	Neptronic
RH Series	Brahma

SERVO MOTOR

GT31 SERIES - KROMSCHRODER

G072**

- 240v, 110v, 24v - 50Hz - 4.8VA
- Torque 3 Nm
- Reversible
- Hi/Low or positioning
- 30 seconds / 90° rotation, alternative times available
- Position indicator
- Cast aluminium housing and cover to IP54
- 2 voltage free change over separately adjustable limit switches
- Optional feed back potentiometer 150, 1000, 2500 ohm

GT31E -MODULATING VERSION

G0722*

- 240, 110, 24v AC
- 4 - 20 mA, 1 - 10v signal
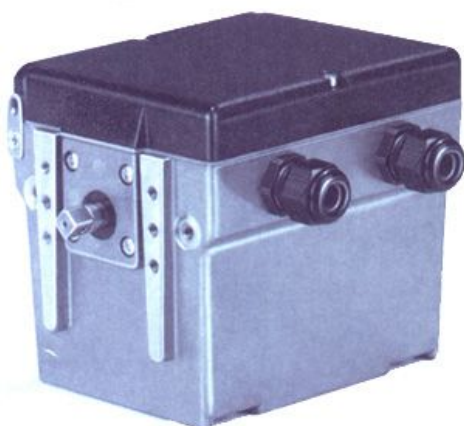
GT50 - SERIES T20 - KROMSCHRODER

- 240v, 110v, 24v - 50Hz - 11VA
- Torque 20 Nm
- Reversible
- Hi/Low or positioning
- 30 seconds / 90° rotation, alternative times available

G07234

- Position indicator
- Cast aluminium housing to IP54
- 3 voltage free change over separately adjustable limit switches
- Auto / manual selector switch for servicing and commissioning
- Optional feed back potentiometer - 150, 1000, 2500 ohm

G0726* ### GT 50E - MODULATING VERSION

- 240, 110, 24v AC
- 4 - 20 mA, 1 - 10v signal

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ACTUATORS

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IC20 SERIES - KROMSCHRODER

G071230P

- Movement 0-90º
- Torque 2.5 - 3Nm
- Voltage supply: 120 VAC or 230VAC
- Automatic or manual operation
- Three point step signal controlled
- IP65 enclosure
- Running time: 7.5 - 60 seconds
- Directly mountable onto butterfly valve models:
  - BVA
  - BVG
- Externally readable position indicator
- "E" model available with electronic card 4 - 20mA

IC40 SERIES - KROMSCHRODER

G07140A

- Movement 0-90º
- Torque 2.5 - 3Nm
- Voltage supply: 120 VAC or 230VAC
- Automatic or manual operation
- Three point step signal controlled
- IP65 enclosure
- Running time: 7.5 - 60 seconds
- Directly mountable onto butterfly valve models:
  - BVA
  - BVG
- Externally readable position indicator
- 5 Operating modes (two-point control, three-point step, continuous control, multiple levels)
- Integral error diagnostic system
- 2 Digital control inputs
- 2 Digital control outputs
- Safety closing function closes the valve if the voltage fails
- Modes of operation programmable by an infa-red interface (sold separately)
- "E" model available with electronic card 4 - 20mA

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ACTUATORS Cont...

SIEMENS GAS VALVE ACTUATORS & ACCESSORIES

SCE P/No.	Siemens P/No.	Old P/No.	Description
Z33015	SKP15.000E2	SKP10.110B27	Gas Valve Actuator On / Off, 240VAC
Z33015V	SKP15.001E1	SKP10.111B17	Gas Valve Actuator On / Off, with CPI, 110VAC
Z33015C	SKP15.001E2	SKP10.111B27	Gas Valve Actuator On / Off, with CPI, 240VAC
Z330250V	SKP25.001E1	SKP20.111B17	Gas Valve Actuator C / W Govenor & CPI, 110VAC
Z33025	SKP25.003E2	SKP20.110B27	Actuator C / W Press. Gov, 240VAC
Z330257	SKP25.703E2	SKP27.110C27	Actuator C / W Press. Gov. & Mod set-point, 240VAC
Z3308	SKP75.001E2	SKP70.111B27	Air / Gas Ratio Actuator C / W CPI Switch, 240VAC
Z33075	SKP75.003E2	SKP70.110B27	Air / Gas Ratio Actuator, 240VAC
Z330264	AGA64	Not Applicable	DIN Plug for SKPx5 power connection
Z330265	AGA65	Not Applicable	DIN Plug for CPI (with shroud)
Z3328	SQS37	SQS27.700A27	Drive Motor for SKP25 & SKP 27

- Actuators supplied with plug(s)
- Gas valves available

BBT220 - NEPTRONIC
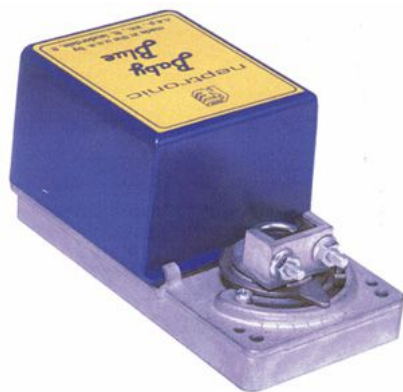
NE01**

- 240v, 24v - 50Hz - 2.5VA
- Torque 5.6Nm
- Reversible
- Hi/Low or positioning
- 110 seconds / 90° rotation - alternative times available
- Position indicator
- Die cast and steel body - plastic cover
- Optional 2 voltage free non adjustable limit switches
- Electronic modulating type "**BBM**" available for 4 - 20 mA or 2-10v 4 - 20 mA position feed back signal provided with modulating types

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ACTUATORS Cont...
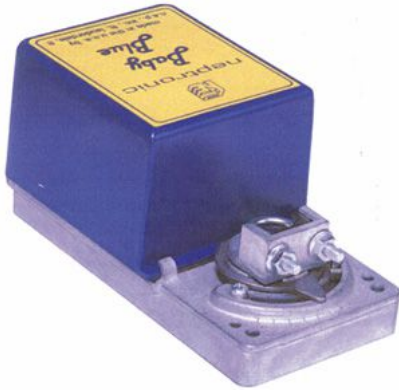
TBT HV 3220 - NEPTRONIC

NE01**

- 240v, 24v - 50Hz - 6vA
- Torque 20 Nm
- Reversible
- Hi/Low or positioning
- 60 seconds / 90° rotation
- Position indicator
- Die cast and steel body - plastic cover
- 2 voltage free non adjustable limit switches
- Electronic modulating type "**TBM**" available for 4 - 20 mA or 2-10v 4-20mA position feed back signal provided with modulating types

RH AIR DAMPER MOTOR - BRAHMA

B00410

- 230V AC
- Torque 2 Nm
- Reversible
- 7.5 / 15 Sec 90° rotation
- Manual / Automatic test switch

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System Control Engineering

PRESSURE SWITCHES FOR GAS & AIR			
		DG Series	Kromschroder
		RSS 495	Cleveland
PRESSURE SWITCHES FOR AIR & FLUE GAS			
		770-1	White Rodgers
		DL	Kromschroder
		TY 84	Campini
		RSS Series	Cleveland
PRESSURE PROVING SYSTEMS (LEAKAGE DETECTION)		*TC1, TC2, TC3, TC410*	Kromschroder
FLOW SWITCH	Air		
		AFS	Cemco
	Water		
		FLU	Watts
LEVEL SWITCHES		*(AKO) 53114, 53124, 53161*	AKO
PRESSURE CONTROL- FURNACE	Industrial		
		8350, 8351	North American
LOW PRESSURE CUT-OFF VALVE	Gas		
		J120	Jeavons

PRESSURE SWITCHES FOR GAS & AIR

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POSITIVE PRESSURE (Gas) KROMSCHRODER

Adjustable, max inlet 600 mbar

KR20305	• DG30 / VC 8D - 5S	8 - 30 mbar
KR20306	• DG45 / VC 8D - 5S	10 - 45 mbar

* Available as option IP65 rating
AGA Approval Number: 5484

DIFFERENTIAL, POSITIVE & NEGATIVE PRESSURE - KROMSCHRODER

KR20006	• DG 6U - 3	0.8 - 6 mbar
KR20008	• DG 10U - 3	1 - 10 mbar
KR20010	• DG 50U - 3	2.5 - 50 mbar
KR20012	• DG 150U - 3	30 - 150 mbar
KR20014	• DG 500U - 3	100 - 500 mbar

* Available as option IP65 rating
AGA Approval Number: 5484

HIGH PRESSURE SWITCH(Gas) KROMSCHRODER

KR20202	• DGM 06A	0.1 - 0.6 bar	Max 2 bar
KR20204	• DGM 1A	0.2 - 1.6 bar	Max 3 bar
KR20216	• DWR 3	0.2 - 2.5 bar	Max 10 bar
KR20218	• DWR 6	0.5 - 6.0 bar	Max 10 bar
KR20222	• DWR 16	3.0 - 16 bar	Max 10 bar
KR20224	• DWR 25	4.0 - 25 bar	Max 10 bar

* Available as option IP65 rating
AGA Approval Number: 5484 (DGM ONLY)

MANUAL RESET - H SERIES - KROMSCHRODER

Locks off with rising pressure

KR20068	• DG 10 H - 3	1 - 10 mbar
KR20070	• DG 50 H - 3	2.5 - 50 mbar
KR20072	• DG 150 H - 3	30 - 150 mbar
KR20074	• DG 500 H - 3	100 - 500 mbar

AGA Approval Number: 5484

MANUAL RESET - N SERIES - KROMSCHRODER

Locks off with falling pressure

KR20078	• DG 10 N - 3	1 - 10 mbar
KR20080	• DG 50 N - 3	2.5 - 50 mbar
KR20082	• DG 150 N - 3	30 - 150 mbar
KR20084	• DG 500 N - 3	100 - 500 mbar

AGA Approval Number: 5484

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PRESSURE SWITCHES FOR GAS & AIR cont...

ACCESSORIES

KR20526
- Operating Lamp DG / DL 240v

KR22152
- Connector Kit CG to DG

RSS 498 - CLEVELAND

W0204
- Customer specified fixed set point between 0.12 - 4 Inch W.C.
- Positive, Negative or Differential pressure
- Available in various sample line connections, terminal styles and mounting arrangements

PRESSURE SWITCHES FOR AIR & FLUE GAS

W0203   **RSS-49-091   2.5 - 10 mbar - CLEVELAND**
- SPDT switch that can be actuated by a positive, negative or a differential pressure with field adjustable operating range.

W0201   **770 - 1   0.175 - 30 mbar - WHITE RODGERS**
- SPDT switch that can be actuated by a positive, negative or a differential pressure with field adjustable operating range.

KR20138   **DL 3A - 3   0.4 - 3 mbar - KROMSCHRODER**
- Control of air and flue gas as low pressure cut off & as limiting switch. Adjustable for positive, negative & differential pressure. Max 150 mbar

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PRESSURE SWITCHES FOR AIR & FLUE GAS

TY84 - CAMPINI

CP5084

- Fixed set point 0.88 mbar or to customer requirements
- Control of low pressure air
- SPDT Switch
- Differential pressure/positive/negative connection

PRESSURE PROVING SYSTEMS (LEAKAGE DETECTION)

TC 116 W05 T 240/110v AC 24v DC - KROMSCHRODER

KR3202

- Inbuilt Pressure Sensor
- Direct fitting to Combination valves
- 50 kPa rating

AGA Approval Number: 4581

TC 218 R05 T 240/110v AC 24v DC - KROMSCHRODER

KR3212

- Inbuilt Pressure Sensor
- External Mounting
- 50 kPa rating

AGA Approval Number: 4581

TC 318 R05 T 240/110v AC 24v DC - KROMSCHRODER

KR3220

- Inbuilt Pressure Sensor
- Fitted with 2 Control Gas Valves
- External Mounting
- 50 kPa rating

AGA Approval Number: 4581

TC 410 IT 240/110v AC 24v DC- KROMSCHRODER

KR3205

- External Pressure Sensor eg DG Series
- Control Cabinet Mounting
- Unlimited pressure with external pressure switch

AGA Approval Number: 4581

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FLOW SWITCH

AIR

AIR FLOW SWITCH - CEMCO

CE0999

- AFS 100 AIR FLOW SWITCH

Can be used as an air flow or sail switch for measuring low temperature airflows. Can be supplied either with SPDT or SPST contacts.

WATER

FLOW SWITCH FOR WATER - WATTS

F20401126

- Water Flow Size 1 Inch
- Aluminium Body
- 6 AMP 230 Volts
- Maximum Operating Pressure 10 Bar
- Maximum Operating Temperature 110°C
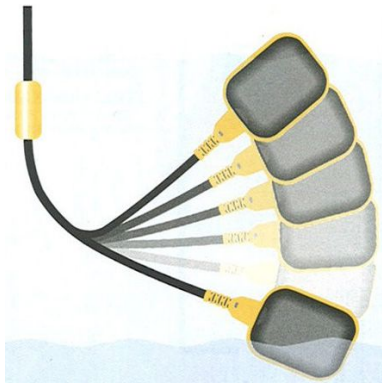
AKO53114 - LEVEL SWITCH - AKO

RSAKO53114

- Liquids level controller (suitable for clean water, drinking water, and general purpose applications)
- Cable length 10 m
- Nominal weight 1.48 kg
- Maximum operating temperature 60 °C
- Single pole microswitch (10 Amp, 250 VAC)
- Counterweight supplied
- Polypropylene float cover
- IP68 rated
- Dimensions 81 x 131 x 41.5 mm
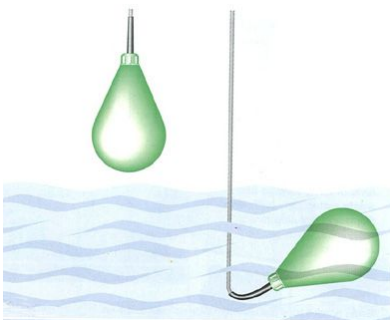
AKO53124 - LEVEL SWITCH - AKO

RSAKO53124

- Liquids level controller (suitable for clean water, sewage & waste water applications)
- Cable length 10 m
- Operating density range 0.9 to 1.1 kg / dm^3
- Maximum operating temperature 60 °C
- Single pole microswitch (10 Amp, 250 VAC)
- Polypropylene float cover
- IP68 rated
- Dimensions $\varnothing$ 103 x 163 mm

Shape and interior balance weight ensure that no impurities adhere to the surface of this switch

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LEVEL SWITCHES continued...

AKO53161 - LEVEL SWITCH - AKO
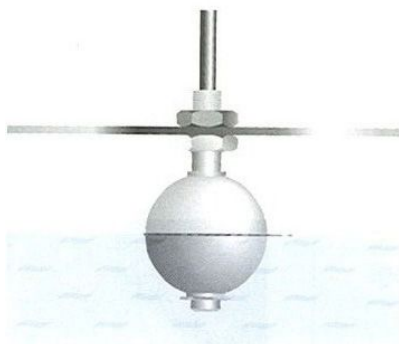
RSAKO53161

- Liquids level controller (suitable for high temperature applications)
- Operating temperature range -20 to 125 $^{\circ}$C
- Stainless steel construction
- Operating density equal to or less than 0.8 kg / dm^3
- Maximum operating pressure 40 bar
- Commutation power 60 VA
- Float dimensions $\varnothing$ 50 mm

This level switch is also ideal for use in corrosive liquids

PRESSURE CONTROL - FURNACE

N8350-01

8350-01 EPIC CONTROLLER - NORTH AMERICAN

Range: 0.125 - 0.375 mbar -   Other ranges on request. A robust pressure sensor and controller in one housing.

N8351-C-01

8351-C-01 EPIC CONTROLLER-NORTH AMERICAN
A panel mounted controller for use with the 8351-A-T-01 transmitter.

N8351A-T-01

8351 A-T-01 EPIC II TRANSMITTER- NORTH AMERICAN
A robust, stand-alone 4 - 20 mA transmitter.

J120   CUT OFF VALVE - JEAVONS

Available 15, 20, 25, 40, 50, 80 mm

J01**

- Cuts off gas supply when pressure is lost downstream. Must be manually reset.
- Ideal for science labs, fume cupboards and on unsupervised gas appliances.

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REGULATOR	Gas		
		Regulators RV	Maxitrol
		Pilot Regulator	Beckley
		J10, 60DJ, 80DJ,150DJ, J78, J48, J125, J123	Jeavons
		OPSO / UPSO Regulators	Madas
		GDJ, VGBF	Kromschroder
		FSDR/CE	Giuliana Anello
	LPG		
		Single Stage	Rego
		Dual Cylinder	Marshall
		First stage	Fisher
			Rego
			Sherwood
		Second stage	Fisher
			Rego
			Muller Gas
	Air / Gas Ratio Controls		
		GIK, GI	Kromschroder
		J48Z, J48P	Jeavons
		7218, 7216	North American
	Air		
		GDJ..L, GBF..L	Kromschroder
	Oil		
		7142, 7152	North American
REGULATOR - OPSO OVER PRESSURE SHUT OFF	Gas		
		J125..S10	Jeavons
	OPSO/UPSO		
		J125..S12	Jeavons
		Type 858..869	Muller Gas
		Type IPR, DKR, DSR	Samtech
	Gas-with Safety Diaphragm		
		J125..S13	Jeavons
FILTER - GAS			
		FM Series	Madas
		706, DN Series	Giuliani Anello
		GFK	Kromschroder
		J92	Jeavons
		ART 193, 388	Itap
FILTER OIL			
		8553, 8558	North American

REGULATORS FOR GAS
Natural Gas or LPG

REGULATORS RV - MAXITROL

Z02**

- Pilot regulators
- Natural Gas or LPG
- Inlet pressure 10kPa (maximum)

Available in sizes 1/8 to 3/4 Inch

PILOT REGULATOR - BECKLEY

Z0210

- Size 1/2 Inch
- Natural Gas
- Inlet pressure 5kPa (maximum)

PILOT REGULATORS (Domestic Appliances) - JEAVONS

J0081	60DJ	8mm	Thread Max Inlet	10 kPa
J0082	80DJ	10mm	Thread Max Inlet	10 kPa
J0083	150DJ	15mm	Thread Max Inlet	10 kPa

J78 R and RS - JEAVONS

J0001 - 3

- Inlet Pressure Maximum 35 kPa
- Outlet Pressure Max 4.2 kPa (15 - 20 mm)
  4.6 kPa (25 mm)
- 15, 20, 25 mm thread
- -20 to 70°C
- RS version with threaded vent

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REGULATORS FOR GAS cont...
Natural Gas or LPG

J48 - JEAVONS

J0005 - 12

- Inlet Pressure Maximum 35 kPa
- Outlet Pressure Maximum 10 kPa
- 20 - 75 mm Thread
- Higher outlet pressure available on 65 - 75 mm
- Aluminium alloy housing
- Mount horizontal or vertical

J125 - JEAVONS

J015*S*

- Inlet pressure maximum 860 kPa
- Outlet pressure maximum
  - 14 kPa   (20 & 25 mm)
  - 35 kPa   (40 & 50 mm)
- 20 - 50 mm thread (Flanged on request)
- Mount horizontal or vertical

J123 HIGH PRESSURE / FLANGED - JEAVONS

J014*

- Inlet pressure Max 400 kPa
- Outlet pressure Max 103 kPa
- 50 - 100 mm Flanged only
- Mount horizontal or vertical
- External impulse line
- -20 to 70°C
- High flows

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REGULATORS FOR GAS cont...

Natural Gas or LPG

MADAS - OPSO / UPSO REGULATORS

MDDF**

- Sizes: 1/2" to 2"
- Maximum working pressure: 1 or 2 Bar (model specific)
- Operating Temperature: -15°C to +60°C
- Shut closing time < 1 second
- Filtration: 50µm

MADAS - OPSO REGULATORS

MDDF**

- Suitable for LPG & Natural Gas
- Sizes: 1/2" to 2"
- Maximum working pressure: 5 Bar
- Operating Temperature: -20°C to +60°C
- Shut closing time < 1 second
- Filtration: 50µm

GDJ SERIES - KROMSCHRODER

Same specifications as GDJ Air Regulator, except for GAS only - c/w safety diaphragm

KR0402*

- 15 - 50 mm Thread

FSDR/CE - GIULIANA ANELLO

GA10**

- Inlet pressure 50kPa (maximum)
- Outlet pressure 15kPa (maximum)
- Mount horizontal or vertical
- Sizes 65, 80 & 100 mm

VGBF ** SERIES - KROMSCHRODER

KR041**

- Inlet pressure Max 100 - 400 kPa
- Outlet pressure Max .5 - 35 kPa (Depending on regulator size)
- 15 - 40 mm thread available - BSP
- 15 - 250 mm Flanged only
- External impulse line
- Aluminium housing
- -15 to 60oC

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REGULATORS FOR LPG cont...

-------------- **INTEGRATED 2 STAGE** --------------

REGO

RELV 404B23
- Model LV 404 B23
- Inlet connection 1/4" NPT
- Outlet connection 1/2" NPT
- Outlet pressure set 2.75 kPa
- Capacity 200 MJ/h
- Fitted with 8 mm gauge tapping

RELV404B4
- Model LV 404 B4
- Capacity 525 MJ/h
- All other features same as above

MARSHALL REGULATOR KIT

LP00180STD
- Twin Stage
- Manual Change Over Kit
- Capacity 160 MJ/h
- Size 8 mm x 10 mm

REGO - TWO STAGE - MANUAL CHANGEOVER

Model - 5404 B 23

RE**
- 200 MJ/h

Model - 5404 B 4

- 525 MJ/h

AUTO CHANGE OVER - REGO - TWO STAGE

RE57   Model - 5726B23

- Capacity 180 MJ/h

Model - 5754B4

- Capacity 500 MJ/h

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REGULATORS FOR LPG cont...

-------------- **FIRST STAGE** --------------

FIRST STAGE - SHERWOOD

LP10810

- Model SH800 HPSI
- Inlet connection POL
- Outlet connection 15 mm NPT
- Outlet pressure 35 - 105 kPa - preset 70 kPa
- Capacity 1000 MJ/hr

FIRST STAGE - FISHER

LP12500

- Model 522 HBGJ
- Inlet connection 15 mm NPT
- Outlet connection set at 1/2" NPT
- Outlet pressure 70 kPa
- Capacity 800 MJ/hr at 79 kPa

FIRST STAGE - REGO

RELV3403TR

- Model LV 3403 TR
- Inlet connection 1/4" NPT
- Outlet connection 1/2" NPT
- Outlet pressure 70 kPa
- Capacity 1500 MJ/h

FIRST STAGE - REGO

RELV4403 SR9
RELV4403 TR9

- Model LV 4403 SR or TR
- Inlet POL
- Outlet connection 1/2" NPT
- Outlet pressure 35 or 70 kPa
- Capacity 2500 MJ/h

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REGULATORS FOR LPG cont...

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-------------- **SECOND STAGE** --------------

SECOND STAGE - FISHER

LP22025

- Model R422 - DDF
- Inlet connection 20 mm NPT
- Outlet connection 20 mm NPT
- Outlet pressure 2.75 kPa
- Capacity 2000 MJ/hr

SECOND STAGE - REGO

RELV4403B4

- Model LV 4403 B
- Inlet connection 1/2" NPT
- Outlet connection 1/2" NPT
- Outlet pressure 2.75 kPa
- Capacity 935 MJ/h

SECOND STAGE - REGO

RELV4403B*

- Model LV 4403 B4 / B6
- Outlet pressure 2.75 kPa
- Capacity 1600 MJ/h

SECOND STAGE - REGO

RELV5503B8

- Model LV 5503 B8
- Outlet pressure 2.75 kPa
- Capacity 2300 MJ/h
- 3/4" x 1"

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REGULATORS FOR LPG cont...

Available LPG Regulators include (Alianca, Rego, Marshall, Muller, Sherwood & Fisher). These are only a few examples of the regulators that constitute our range.

Capacities range from 160 - 7560 MJ/hr.

A range of accessories are available:

- Manual Changover Valves
- Tee Pieces
- POL Fittings
- Pigtails
- Regulator Mounting Brackets

AIR / GAS RATIO CONTROLS

KR08*

GIK, GI SERIES - KROMSCHRODER

- Inlet pressure up to 40 kPa
- For maintaining constant air-gas mixture
- For continuous step by step burner control
- High regulating precision
- Sizes 15 to 150 mm flanged

J0020*

J48Z / J48P - JEAVONS

- Inlet pressure up to 35 kPa
- For zero outlet pressures (pre-mix burners)
- For balancing gas outlet pressures to variable air impulse pressure signals

N721*

7218 - NORTH AMERICAN

- Inlet pressure up to 14 kPa
- Precise control of air / fuel ratio

7216 - NORTH AMERICAN

- Inlet pressure up to 14 kPa
- Accurate control over air / fuel ratio with the ability to vary the ratio at low fire

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REGULATORS FOR AIR

GDJ - L - KROMSCHRODER

KR1200*

- Inlet pressure maximum 35 kPa
- Outlet pressure maximum 16 kPa
- 15 - 50 mm thread screwed BSP
- Aluminium housing
- Mount horizontal or vertical
- -20 to 60°C

GBF - KROMSCHRODER

KR1200*

- Inlet pressure maximum 20 kPa
- Outlet pressure maximum 16 kPa
- 40 - 150 mm flanged
- Aluminium housing
- Mount horizontal or vertical
- -15 to 60°C

REGULATORS FOR OIL

LIGHT OIL PRESSURE REGULATOR - NORTH AMERICAN

N7142**

- Inlet pressure Max 1750 kPa
- Outlet pressure Max 525 kPa

Cast iron body with brass trim
- Available in 15, 20, 25 mm screwed NPT

HEAVY OIL PRESSURE REGULATOR - NORTH AMERICAN

N7152**   All other features same as above

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OPSO REGULATORS

J125S10 OPSO REGULATOR - JEAVONS

J015*S10

Over pressure shut off device

- Inlet pressure Max 860 kPa (depending on orifice)
- Outlet range .5 - 35 kPa
- Sizes available 20, 25, 40, 50 mm
- Flanged version available on request
- High accuracy
- Vertical or horizontal installation

J125S12 OPSO / UPSO REGULATOR - JEAVONS

J015*S12

Over and Under pressure shut off device

J125S13 WITH SAFETY DIAPHRAGM - JEAVONS

J015*S13

- Sizes 20 & 25 mm screwed BSP
- Over pressure shut off device
- Safety diaphragm venting pipes not required

All other features are the same as J125S10

IPR600APA OPSO REGULATOR - SAMTECH

SMREG680503 OVER PRESSURE DEVICE

- Inlet Pressure 19 Bar
- Sizes available 25 - 50 mm
- Screwed or flanged available
- Outlet Pressure 10 - 4000 milli Bar
- Synthetic rubber diaphragms
- Stainless steel seats & springs
- Large flow capacity

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OPSO REGULATORS cont...

TYPE 858 (ADJUSTABLE) - MULLER GAS

M858H00**

- High Pressure 1800 kPa
- Capacity 10 Kg/h (LPG)
- Outlet Pressure 70 - 140 kPa
- Opso Setting 105 - 210 kPa
- Inlet / Outlet 15 mm x 15 mm

TYPE 869 / 554 - MULLER GAS

M554H01**

- High Pressure 1800 kPa
- Capacity 40 Kg/h (LPG)
- Outlet Pressurer 70 - 140 kPa
- Opso Setting 105 - 210 kPa
- Inlet / Outlet 15mm x 15mm

TYPE 865 / 160 - MULLER GAS

M865H00**

- High Pressure 1800 kPa
- Capacity 100 - 150 Kg/h
- Outlet Pressure 70 - 140 kPa
- Opso Setting 105 - 210 kPa
- Inlet / Outlet 25mm

DSR - DKR METER REGULATORS - SAMTECH

SMREG822239/30

- Inlet Pressure 5 Bar
- Outlet Pressure 10 - 150 milli Bar
- Double stage regulation
- Straight or angle connection
- Over-pressure shut-off
- Minimum-pressure shut-off
- Filter included
- Relief device

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GAS FILTERS

FM MODEL GAS FILTER - MADAS

MDFG**

- Sizes 1/2" - 5"
- Maximum working pressure: 2 to 6 Bar (model specific)
- Temperature -20 to 70°C
- Filter made of synthetic washable material
- Easily remove and clean filter

706 SERIES 6 BAR - GIULIANI ANELLO

GA02**

- Sizes 20 - 50 mm screwed BSP
- Rated to 6 bar
- Temperature -10 to 80°C
- Aluminium body
- Mount vertically or horizontally

DN SERIES 4 BAR - GIULIANI ANELLO

GA030**

- Fitted with connectors for inlet & outlet pressure taps
- Sizes 40 - 150 mm
- Rated to 4 bar
- Temperature -10 to 80°C
- Aluminium body & cover

J92 FILTERS - JEAVONS

J019*

- Maximum inlet pressure 10 bar
- 50 and 200 micron available
- 50 mm or DN 50 ANSI flange
- Threaded or flanged available
- Temperature range -20 to 70°C
- Elements in 50 and 200 micron available as spares

GFK FILTER - KROMSCHRODER

KR020**

- Available in 2, 4, 6 & 16 bar versions
- Operating temperature -15 to 80°C
- Horizontal or vertical installation
- 15 - 65 mm thread available BSP
- 40 - 250 mm flanged
- Test point fitted
- Filter element and "O" Rings available as spare parts

Petes plug fitted - optional extra

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GAS FILTERS cont...

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ART 193 GAS FILTER - ITAP

I05**

- 50 microns
- Sizes 8 - 50 mm
- Maximum working temperature 100°C
- Maximum 20 bar
- Stainless steel strainer

ART 388 GAS FILTER - ITAP

I050*

- 100 microns
- Sizes 20 - 50 mm
- Maximum working temperature 100°C
- Maximum 16 bar
- Stainless steel strainer

OIL FILTERS
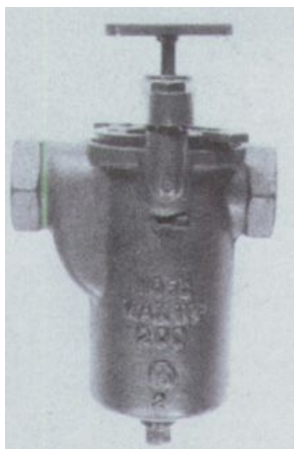
8553 MESH LINED OIL STRAINER - NORTH AMERICAN

N8553*

- Maximum temperature 204°C
- Maximum pressure 1400 kPa
- Cast body
- Standard in 20 mesh (optional 40 & 100 mesh)
- 10 - 50 mm

8558 Y - TYPE STRAINER - NORTH AMERICAN

N8558**

- Maximum temperature 204°C
- Maximum pressure 2100 kPa
- Cast body
- 40 or 100 mesh
- 8 - 75 mm

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THERMOSTAT			
	Surface Contact		
		TY60, TY60R, TY35	Campini
		BRC	Imit
	Room		
		TY90	Campini
		TA3	Imit
		IE36W, IF36W, IE78-140, IE78-144	White Rodgers
	Programmable		
		9600	Maple Chase
		(AKO) 80025, 13012, 14023, 14123, 14412	AKO
		IC901, IC912, IC915, IC917	Eliwell
		CTX, HTX	Campini
		IF80-261, IF90-371, IF78-144, BLUE 90	White Rodgers
		BLUE 80	
		RWF Series	Siemens
		3301P	Skytech
	Capillary & Bulb		
		TY95	Campini
		Fryer	EGO
		TC2. TR2, TLSC, LS, TRZ	Imit
		CP40140/CE, CP40150/CE, CP40151	Jumo
		2B61-994	White Rodgers
		TS9320	Campini
	Fan Limit		
		5D51	White Rodgers
		HW Series	Honeywell
	Heat Pump		
		IF92W-51	White Rodgers
	Accessories		
		Guards	White Rodgers
	Sensors		
			SCE
THERMOMETER	Capillary & Bulb		
		912 Series	Imit
		TB, TBR	Fimit
	Pipe Connection		
		TCM	Fimit
	Digital		
		VTX	Campini
		HL8859, HLRED - I- TEMP, HLT1326	HLP
PORTABLE MEASUREMENT INSTRUMENTS			
		POR TE1 BIK, POR AN2 BD	Seitron

![System Control Engineering logo]

SURFACE CONTACT THERMOSTATS

TY60 - CAMPINI

CP0*
(Auto Reset)

CP1*
(Manual Reset)

- Fixed set - point
- Single probe
- Bimetallic
- Snap action contact
- Range 40°C to 170°C

IM0545610

BRC PIPE CONTACT THERMOSTAT - IMIT

- Adjustable Range 10 - 90°C
- Spring Band 120mm Length
- SPST & SPDT Contacts

CP2070

TY35 - CAMPINI

- Control range - 6 - 45°C or 6 - 60°C
- Single Pole
- Snap-action Contact

ROOM THERMOSTATS

CP40903

TY90 M2 - CAMPINI

- Range 5 - 35°C
- 24 volt or 240 volt
- On / Off switch
- SPST contacts

IM0546070

TA3 ROOM THERMOSTAT - IMIT

- Range 5 - 30°C
- SPDT Contact
- On - Off Switch

W0014

IF36W ROOM THERMOSTAT- WHITE RODGERS

- Horizontal Mount
- Same Features as IE36W

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ROOM THERMOSTATS cont...

IE78-140 - SINGLE STAGE THERMOSTAT - WHITE RODGERS

W0005

- Single stage / Non programmable
- Heat only
- Accuracy + / - 1 °C of set point
- Screen backlight
- Millivolt operated
- 2 x AAA batteries included
- Wall mount with snap in design permits for easy thermostat upgrades
- Dimensions 83 x 28 x135 mm

IE78-144 - SINGLE STAGE THERMOSTAT - WHITE RODGERS

W0006

- Single stage / Non programmable
- Heat / Cool
- Accuracy + / - 1 °C of set point
- Screen backlight
- Battery powered
- 2 x AAA batteries included
- Wall mount with snap in design permits for easy thermostat upgrades
- Dimensions 83 x 28 x 135 mm
- 24 Volts AC
- Smart design covers the wall marks of many mechanical thermostats, including: White Rodgers, Robertshaw, Honeywell

PROGRAMMABLE THERMOSTATS

9600 - ROBERTSHAW

W00172

- 1 Heat / 1 Cool
- Weekly 5-2 day programming
- Automatic compressor short cycle protection
- User friendly
- Supplied in blister pack or box

IF80 - 261 24 VOLT- WHITE RODGERS

W0019-261

- Single Stage Heat/Cool
- Battery Powered
- 5 + 2 Day Programming
- 4 Separate Time/Temp Settings

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IF90-371 24 VOLT- WHITE RODGERS

W00205

- 4 Time/Temp Settings per 24 hrs
- 5 + 2 Weekday/Weekend Program
- Simultaneous Heat/Cool Program Store
- Back-lit Display
- Classic White Colour
- Manual Over-ride Key

IF78-151 - HORIZONTAL PROGRAMMABLE - WHITE RODGERS

W0004

- Single stage / Programmable
- 4 time and 4 temperature settings per program for heating and cooling
- Setpoint temperature range 7 ºC to 32 ºC
- Operating ambient temperature 0 ºC to 40 ºC
- Battery Powered or AC
- 2 x AAA batteries included
- Dimensions 95 (H) x 130 (W) x 28 (D) mm
- 24 Volt AC
- Smart design covers the wall marks of many mechanical thermostats.
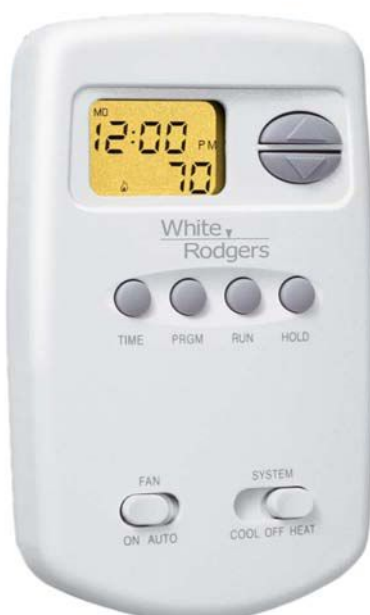
IF78-151 - VERTICAL PROGRAMMABLE - WHITE RODGERS

W0001

- Single stage / Programmable
- 4 time and 4 temperature settings per program for heating and cooling
- Setpoint temperature range 7 ºC to 32 ºC
- Operating ambient temperature 0 ºC to 40 ºC
- Battery Powered or AC
- 2 x AAA batteries included
- Dimensions 135 (H) x 83 (W) x 28 (D) mm
- 24 Volt AC
- Smart design covers the wall marks of many mechanical thermostats.

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PROGRAMMABLE THERMOSTATS cont...

BLUE 90 - WHITE RODGERS

W00172BLU

- Touchscreen
- Screen backlight
- Audible prompting
- Screen lockout feature
- Accurate temperature maintenance to + / - 1 degree of set point
- Programmable 7, 5/1/1, individual days or use as simple on / off operation
- Dimensions 117 x 30.5 x 150mm

W00172BMS   **MULTI - STAGE / HEAT PUMP MODEL**

- Features as above, plus Multi-stage / Heat Pump support

BLUE 80 - WHITE RODGERS

W0019-07

- Programmable 5/1/1, 5/2 or 0 Day & Non-Programmable
- 4 time and 4 temperature settings per program (heat & cool)
- Large (4" Square) LCD with improved contrast for easy reading
- Lighted display for easier low-light viewing
- Battery Power Monitor
- Soft-touch keypad
- Choice of battery powered or hard wired (2AA batteries included)

24V or 240V - SEITRON TCP CD1B1

SE052010

- Programmable (daily or weekly)
- 24V or 240V control switching
- Comfort & Reduced Temperature: 10°C to 30°C
- Working Difference: 0.2^{o}C
- Time Cycles up to 4 / per day - for a 7 Day Period
- Dimensions: 132 x 87 x 28 mm

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PROGRAMMABLE THERMOSTATS cont...

AKO80025 - 1.5V - AKO

RSAKO80025

- Thermometer
- Range -50 °C to +70 °C
- Resolution 0.1 °C
- Accuracy +/- 1 °C
- Dimensions 48 x 28.6 x 14 mm
- Sensor Type NTC
- Sensor Length 3 m
- Supply 1.5 Volts

AKO13012 - 12 VAC / VDC - AKO

RSAKO13012

- Thermometer
- Range -50 °C to +99 °C
- Accuracy +/- 1°C
- Temperature unit selectable °C or °F
- Password protectable set point
- Sensor Type NTC
- Sensor Length 1.5 m
- Operating ambient temperature 5 °C to 50 °C
- Supply 12 VAC / VDC

AKO14023 - 230 VAC - AKO

RSAKO14023

- Thermometer
- Range -50 °C to +99 °C
- Accuracy +/- 1°C
- Sensor Type NTC
- Sensor Length 1.5 m
- Operating ambient temperature 5 °C to 50 °C
- Supply 230 VAC

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AKO14123 - 230 VAC - AKO

RSAKO14123

- Thermometer
- Range -50 °C to +99 °C
- Accuracy +/- 1°C
- Adjustable defrost, differential and protection compressor delay time
- Sensor Type NTC
- Sensor Length 1.5 m
- Operating ambient temperature 5 °C to 50 °C
- Supply 230 VAC

AKO14412 - 12 VAC / VDC - AKO

RSAKO14112

- Temperature Controller
- 4 relay outputs (compressor, defrost, fans & alarm)
- Range -50 °C to +99 °C
- Accuracy +/- 1°C
- Sensor Type NTC
- Sensor Length 1.5 m
- Operating ambient temperature 5 °C to 50 °C
- Real time clock
- Supply 12 VAC / VDC

IC901 - 12 VAC / VDC - ELIWELL

ELIC901

- Temperature Controller (single stage)
- Range -50 °C to +99 °C
- Accuracy +/- 1 °C
- Output relay (8 Amp)
- Sensor Type PTC (NTC selectable)
- TTL input for Copy Card
- Dimensions 74 x 32 x 60 mm
- Available Supply Voltages: 12 VAC / VDC or 230 VAC

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PROGRAMMABLE THERMOSTATS cont...

IC912 - ELIWELL

ELIC912

- Temperature Controller (single stage)
- Sensor is model dependant
- Range is sensor dependant
  NTC -50 ^{o}C to +110 ^{o}C
  PTC -50 ^{o}C to +140 ^{o}C
- Accuracy: better than 0.5% of full scale + 1 digit
- TTL input for Copy Card
- Dimensions 74 x 32 x 59mm
- Available Supply Voltages:
  12 VAC / VDC or
  12...24 VAC switching or
  12...36 VDC switching or
  110 / 115 VAC or
  220 / 230 VAC

IC917 - ELIWELL

ELIC917

- Temperature Controller (double stage), ON - OFF, PD or PID action.
- Soft Start and autotuning function
- Sensor is model dependant:
  PTC thermostatic probe (NTC set by parameter) or
  Pt100 probes (Tcj/Tck set by parameter)
- Temperature range is model & sensor dependant:
  PTC / NTC Model:
  > NTC -50 ^{o}C to +110 ^{o}C
  > PTC -50 ^{o}C to +140 ^{o}C
  Pt100 / Tck / Tcj Model:
  > Pt100 -150 ^{o}C to 650 ^{o}C
  > Tck -40 ^{o}C to 750 ^{o}C
  > Tcj - 40 ^{o}C to 1350 ^{o}C
- Accuracy is sensor and temperature range dependant
- TTL input for Copy Card
- Dimensions 74 x 32 x 59mm
- Available Supply Voltages:
  12 VAC / VDC or
  12...24 VAC switching or
  12...36 VAC switching or
  110 / 115 VAC or
  220 / 230 VAC

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PROGRAMMABLE THERMOSTATS cont...

IC915 - ELIWELL

ELIC915

- Temperature Controller (double stage), ON - OFF operation
- Range is sensor dependant:
  NTC -50 $^{\circ}$C to +110 $^{\circ}$C
  PTC -50 $^{\circ}$C to +140 $^{\circ}$C
- Accuracy: better than 0.5% of full scale + 1 digit
- TTL input for Copy Card
- Dimensions 74 x 32 x 59mm
- Available Supply Voltages:
  12 VAC / VDC or
  12...24 VAC switching or
  12...36 VDC switching or
  110 / 115 VAC or
  230 VAC

ERWC Series - Eliwell

RSELERWC

- Temperature & Humidity Controller
- Protection rating IP67
- 5 Relay Outputs
- 3 NTC Analogue inputs
- 2 Configurable digital inputs
- Real Time Clock
- 8-Key user interface (for navigation & direct functions)
- Double LCD display
- Buzzer
- Direct control of compressors (up to 2hp)
- On board RS-485 serial interface (for TelevisSystem and MODBUS)
- Switching power supply 90...240V
- Dimensions 21 x 24 x 8 cm
- Wall mounted or recessed electrical box

CTX 240 VOLT AC - CAMPINI

CP3131*

- 1 or 2 Set-points
- Range -45 to 130°C
- Alarm Output (Cooling only)
- Defrost Function (Cooling only)
- PTC Sensor (-50 - 130°C)
- Waterproofing gasket, CP3131G, sold seperately

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HTX 240 VOLT AC - CAMPINI

CP3135

- 1 Set-point
- Range 0 - 450°C
- Alarm Output
- Accurate to 1%
- "J" Type Thermocouple (0 - 450°C)

RWF - TEMPERATURE CONTROLLER

- PID with auto tune function
- Analogue input - scaleable
- Large bright duel LED display
- Alarm Relay Configurable
- Supply 110 - 240 VAC
- Burner On / Off
- Input: T/C, RTD, DC Volt, 4 - 20mA

Z3094

- Universal temperature controller RWF40.000A97
- 3 Position Output

Z3096

- Universal temperature controller RWF40.001A97
- Various Output Selections

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PROGRAMMABLE THERMOSTATS cont...

3301P - SKYTECH

W0016-*

- Programmable - 7 days (four periods for each day)
- Remote control (radio frequency)
- Battery operated
- Security code lockable
- Displays both room and set temperatures
- Selectable temperature units (^{o}C & ^{o}F)
- 9 hr count down timer
- 'C' Tick approved

CAPILLARY & BULB THERMOSTATS

TY95 FRYER TYPE - CAMPINI
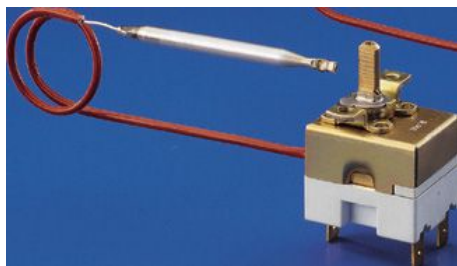
CP40100
CP40100A
CP40101

- SPST Contact
- Range 95 - 205°C
- Gold or Silver contacts
- Positive "OFF" position
- Stainless steel capillary
- Failsafe

TY95Z OVERTEMP FRYER TYPE - CAMPINI

CP40110
CP40111

- SPST Contact
- Over temp setting 235°C
- Fail safe capillary
- Gold or Silver contacts
- Stainless steel capillary

OVERTEMP FRYER TYPE - EGO

Z3800

- Manual Reset
- Set Point - 230°C
- Gold contacts
- Fail safe capillary

EGO CONTROL THERMOSTAT

Z3801

- Range 95 - 205°C
- Gold Contacts

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CAPILLARY & BULB THERMOSTATS cont..

2B61-994 FRYER TYPE - WHITE RODGERS

W0063

- Single Pole
- Range: 145 - 200°C
- Quick Response Bulb

FRYER TYPE - ROBERTSHAW

RSEA177007

- Range: 95°C - 205°C
- Millivolt operated
- Gold contacts

FRYER TYPE - ROBERTSHAW

RSGS7005K

- Range: 95°C - 205°C
- Snap action hydraulic thermostat
- Services up to 30,000 BTUs
- Thermostats can be purchased separately, without bezel & knob (as RSGS7005)

OVERTEMP TYPE - ROBERTSHAW

RSLCCM0017

- Set Point: 235°C
- Overtemp cut out
- Millivolt operated
- Auto reset
- Gold contacts

OVERTEMP TYPE - ROBERTSHAW

RSLCH0025

- Set Point: 235°C
- Overtemp cut out
- Manual reset
- Suitable for Commercial Catering

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CAPILLARY & BULB THERMOSTATS cont..

THERMOSTAT UNI KIT - ROBERTSHAW

RSBJ0100

- Range: 95°C - 290°C
- Plugs provided for 4 outlets
- Suitable replacement for most field oven thermostats

COMMERCIAL GAS THERMOSTAT - ROBERTSHAW

RS4200-025

- Range: 65°C - 290°C
- FDO thermostat
- Universal replacement
- Snap throttle using dual internal valve

TC2 IMMERSION ADJUSTABLE - IMIT

IM0542*

- SPDT contact
- Range -30 to 210°C
- Bulb or Capillary Sensing
- C/W protection pockets 15 mm

Suitable for Boilers, Pumps etc
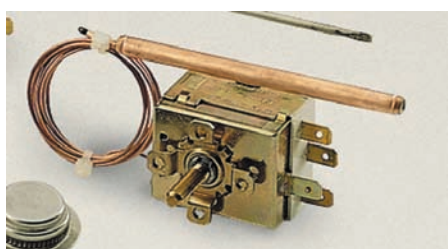
TR2 ADJUSTABLE TYPE   - IMIT

IM0540*

- Adjustable Settings
- Ranges -30 to 300°C
- Copper Capillary + Bulb
- SPST or SPDT Contacts

Suitable for Boilers, Radiators, Ovens, Dishwashers etc.

TLSC BOILER TYPE - IMIT

IM05427*

- Range 0 - 90°C Adjustable
- Adjustable Hi-limit Range 90 - 110°C
- Manual Reset
- SPST or SPDT Contacts
- c/w protection pocket 15 mm

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CAPILLARY & BULB THERMOSTATS cont...

KMF70U CAPILLARY THERMOSTAT - JUMO

CP40140

- Manual Reset
- Failsafe
- Range -20°C to 150°C
- Panel mountable
- Units adjustable
- 1 meter capillary

CP40150

- Manual Reset
- Failsafe
- Range -50°C to 300°C
- Panel mountable
- Units adjustable
- 1 meter capillary

KMF70U ENCLOSED CAPILLARY THERMOSTAT - JUMO

CP40140CE

- Manual Reset
- Failsafe
- Range -20°C to 150°C
- Fully enclosed
- Units adjustable
- 1 meter capillary

CP40150CE

- Manual Reset
- Failsafe
- Range -50°C to 300°C
- Fully enclosed
- Units adjustable
- 1 meter capillary

ATHF 700 CAPILLARY THERMOSTAT - JUMO

CP40151

- Manual Reset
- Range -20°C to 500°C
- Fully enclosed
- Units adjustable
- 150 mm probe 15 mm diameter

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CAPILLARY & BULB THERMOSTAT cont..

LS HI-LIMIT THERMOSTAT - IMIT

IM0541*

- Range 90 - 110 / 230°C
- Manual or Auto Reset
- SPST Contacts
- Fail safe capillary
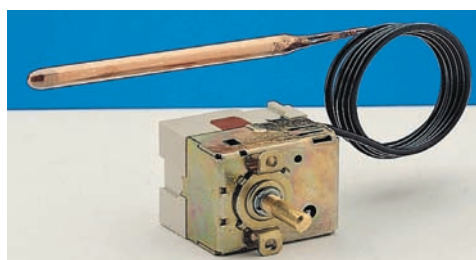
TRZ CAPILLARY THERMOSTAT - IMIT

IM0544024

- 2 Stage On / Off
- 1st Stage: 40°C to 78°C
- 2nd Stage: 47°C to 85°C
- Set-point 40 - 85°C

TS9320 -   CAMPINI

CP4293203
CP4293212

- Range -35 - 35oC
- Range 30 - 120oC
- Capillary length - 1 metre
- Plastic enclosure
- Contacts SPDT
- Ratings - 240 10 AMP

FAN LIMIT THERMOSTAT

FAN LIMIT   5D51 - * - WHITE RODGERS

W003*

- Single Element Type
- Regulates Fan or Blower Operation
- High Limit Safety Control
- Range - Fan 10 - 129°C
          Limit 38 - 149°C
- Available - 127, 203 & 280 mm Lengths
- 5, 8, 11 inch Probe

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FAN LIMIT THERMOSTAT cont....

FAN LIMIT - HONEYWELL

- Regulates Fan or Blower Operation
- Automatic or Manual Reset

HW4064B3051B	• 8' Auto Reset
HW4064N1066B	• 8' Manual Reset
HW4064B3044B	• 11' Auto Reset
HW4064N1074B	• 11' Manual Reset

HEAT PUMP THERMOSTATS

W0027

IF92W-51 - WHITE RODGERS
- 5 + 2 Day Programming
- 3 Stages Heat
- 2 Stages Cool
- Classic White Colour
- Unique "Back-lit" Display

THERMOSTAT ACCESSORIES

W0028
W0029

GUARDS - WHITE RODGERS
- Clear Plastic
- Suits all W/R Thermostats
- Lockable - 2 Keys Supplied
- Prevents Unwanted Adjustment

TEMPERATURE SENSORS
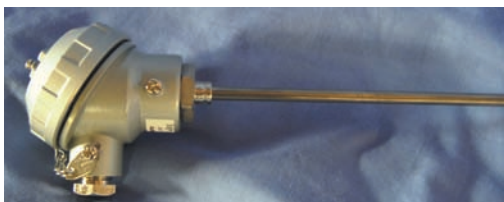
SENSORS - SCE
Thermocouples available in

SC3814	**RTD**
SC3303	**"J" TYPE**
SC3306	**"K" TYPE**
	"R" TYPE Upon Request

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THERMOMETERS

IM13*

912 SERIES ANALOGUE DISPLAY - IMIT
- Range -40 to 350°C
- Suit Heating & Refrigeration
- Available - Round, Square & Rectangular
- Capillary and Bulb

F130100

TB - 63 - FIMIT
Pyrometer
- 63 mm diameter
- Ring: Chromed steel
- Window: Glass
- Stem: brass, centre back
- Accuracy: CI. 1.6
- Scale Range: 0 - 500°C

F110120

TBR - 80   -   FIMIT
Bimetal Thermometer - Bottom Entry
- 80 mm diameter
- Ring: Chromed steel
- Case: Chromed steel
- Window: Kostil
- Stem: brass bottom
- Pocket: 1/2 BSP, brass
- Amplifying Movement: Brass for precision clockwork
- Accuracy: CI. 1.6

F120120

TCM - 63 - FIMIT
Thermometer for pipe connection
- 63 mm diameter
- Ring: Chromed steel
- Case: Steel black enamel
- Window: Kostil
- Stem: brass, centre back without pocket
- Accuracy: CI. 1.6
- Scale Range: 0 - 120°C

CP3158

VTX 020N 240v - CAMPINI
- Indicator only
- Range -40 to 99°C

CP3160

VTX 030 Y00 240v AC - CAMPINI
- Indicator only
- Range -45 to 130°C

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THERMOMETERS cont....

HL8859 INFRA - RED THERMOMETER

HL8859

- Measures -20ºC to 420ºC
- Accuracy 2ºC
- Resolution 1ºC
- Size 45mm x 40mm x 170mm
- Auto Power Off
- Soft carry case & battery (9V) included

HLRED - I - TEMP WATERPROOF THERMOMETER

HLRED - I - TEMP

- Measures -50ºC to 200ºC
- Accuracy 0.5ºC
- Handy, pocket sized, thermometer
- 125mm Stainless Steel probe on a one meter cable
- Displays temperature to 0.1ºC
- Audible alarm when activated

HLT1326 INFRA-RED THERMOMETER

HLT1326

- Measures -35ºC to 500ºC
- Accuracy ± 2%
- Inbuilt Laser Light
- Large LCD Display
- Celcius or Fahrenheit units selectable
- Lens Ratio: 10:1 (measures 10mm at 100mm ragne)
- Soft carry case & battery included

PORTABLE MEASUREMENT INSTRUMENTS

POR - TE1 - BIK - SEITRON
Portable Digital Thermometer

SE0210

- 31/2 Digit display
- Supplied with a "k" thermocouple probe
- Range: -50 to 1300ºC
- 1 x 9v battery supplied

POR - AN2 - BD - SEITRON
Portable Microprossor Based Anemometer

SE0220

- 1/2" LCD display and data hold
- Battery supplied with fan sensor on bearing
- Range: 0.4 to 25m/s
- 1 x 9v battery supplied

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GAS CONNECTORS	Connector Kits for Food Services		
		*16** Kit*	Dormont
	Stationary Gas Connector Kits		
		1650 NPFS	Dormont
	Stainless Steel Connectors		
	Series, 10, 20, 30, 40, 50, 60		Dormont
	Stainless Steel Flex Tube		
		T Series	Dormont
	Quick Connect Devices		
		A Series	Dormont
	Cimfast Quick Connect Valve		
		CF	Dormont
	Super Swivel		
		Super Swivel	Dormont
HOSE KITS - WATER	Power Force		
		K50, 9850*	Dormont
THREAD SEALANTS			
		Gas Approved	Threebond
SMOKE ITEMS			
		Smoke Matches	
		Smoke Pellets	
BOOKS	Combustion Handbooks		
			North American
	Thermoprocessing Handbook		
			Kromschroder

GAS CONNECTORS

DR034*

16 GAS CONNECTOR KITS - DORMONT
- FOR FOOD SERVICE INDUSTRY**
- Specifically for Castored Appliances AG601
- Stainless corrugated
- Braided
- PVC coating for health dept requirements

Kit Contents
- PVC coated flexible hose
- Quick connect device
- Restraining cable kit incl. : Bracket & Screws

Kits Available in:
- 15 to 32 mm I.D Diameters
- Lengths from 305 to 1830 mm

AGA Approved   Number 5306   / MWP 7 kPa

DR20*

1650 NPFS STATIONARY GAS CONNECTOR KITS - DORMONT
- Coated with PVC for Food Service Industry

Kits Available in:
- 15 to 32 mm Diameters
- Lengths from 305 to 1830 mm

AGA Approved Number 5531 / MWP 7 kPa

DR2**

**SERIES 10 - 60 - DORMONT
- STAINLESS GAS APPLIANCE CONNECTORS**
- Ideal for gas appliance connection in lieu of using copper tube
- Supplied with end fittings M x F

Connectors Available in:
- 8 to 32 mm Diameters
- Lengths from 152 to 1830 mm

AGA Approved Number 5531 / MWP 500 kPa

DR1**

T SERIES STAINLESS STEEL FLEXTUBE - DORMONT
- Ideal for use as pilot gas tubes or connection pipes inside appliances. MWP 7 kPa
- Supplied with a 1" smooth neck on the ends for easy slip on of nuts and olives.
- Bends around sharp angles with ease.

Flextube Available in:
- 8 to 15 mm
- T4 = 8 mm, T6 = 10 mm, T8 = 15 mm
- Lengths from 152 to 1830 mm

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GAS CONNECTORS cont.....

DR01*

"A" SERIES QUICK CONNECT DEVICES — DORMONT
- Quick Disconnect Gas Coupling
- One hand action / self sealing
- Thermal fuse protection incorporated

Available in:
- 15 to 32 mm   -   MWP 7 kPa

AGA Approved Number 5306

CF - CIMFAST QUICK CONNECT VALVE - DORMONT
- Incorporates Quick Disconnect and ball valve as one complete unit. World patented.
- Incorporates thermal shut off
- Safety feature - Safety sleeve only allows disconnection if ball valve is in off position
- Quick connect is self sealing
- MWP 7 kPa

DR02*

SUPER SWIVEL - WORLD PATENTED - DORMONT
- Provides range of motion in 3 places
- Increase useable aisle work space by decreasing space behind equipment.
- Enhances flow performance
- MWP   7 kPa

HOSE KITS - WATER
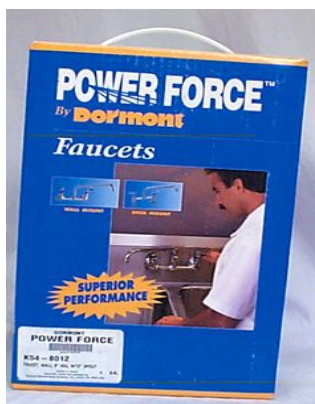
K50 PRE-RINSE ASSEMBLIES - FOR RESTAURANTS - DORMONT
- The strongest pre-rinse hose available
- 3 ply, stress resistant hose assembly with coil relief spring

DR061000
- **K50-1000 PRE RINSE, DECK MOUNT 101.6 mm CENTRE**

DR061010
- **K50-1000 BR PRE RINSE, DECK MOUNT**

DR066044
  101.6 mm CENTRE W/B
- **K50-Y004-44 HOSE ASSY 44" LONG**

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HOSE KITS - WATER cont.......

9850 - QUICK CONNECT COUPLING - WATER - DORMONT

DR215102   •   **SW/H QUICK CONNECT 9850-1212 8 mm**

DR215104   •   **SW/H QUICK CONNECT 9850-2222 10 mm**

THREAD SEALANTS

Z1110

THREEBOND 110B ANAEROBIC PIPE SEALANT
- Application - Sealing Pipe Threads
- Maximum working pressure 1050 kPa
- Temperature rating (-40 to 150°C)
- AGA Approval Number 4219

Z1115

GAS SEAL TAPE (YELLOW)
- Maximum density
- AGA / ALPGA Approved Number 3228

Z1104

THREEBOND LIQUID GASKET
- Semi drying elastomer
- Temperature rating (-50 to 150°C)

SMOKE ITEMS

Z0135

SMOKE MATCHES

- 12 matches per packet

Useful for testing:

- Flue ways
- Flue draughts
- Drains
- Gas log fires

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SMOKE ITEMS cont...

SMOKE PELLETS

Z0137
- Packet of 10

Useful for testing:

- Flue draught
- Gas log fire flue ways
- Storm water drains

TECHNICAL HAND BOOKS
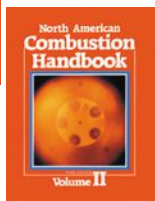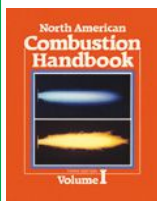
COMBUSTION HANDBOOKS

NXHB-1   **N.A. COMBUSTION HANDBOOK VOL.1**
NXHB-2   **N.A. COMBUSTION HANDBOOK VOL.2**
Includes principles, explanations, data and sample problems on combustion basics, fuels, combustion chemistry, heat transfer, fluid flows etc.

NXHB-IN   **N.A. WASTE INCINERATION HANDBOOK**

HANDBOOK OF THERMOPROCESSING TECHNOLOGIES - KROMSCHRODER

KR90010
- Fundamentals
- Processes
- Components
- Safety

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For Blown Burner - Gas, Oil & Dual Fuel

GT / GTE SERIES   De Dietrich

BOILERS - CAST IRON - SECTIONAL

BLOWN GAS OR OIL BOILERS - DE DIETRICH

GT series are high efficency, large output, low temperature, pressurised cast iron boilers. Designed for both oil and gas operation they can be assembled on site or factory and therefore have the ability to replace boilers in difficult access areas. Features: high efficiency 3-pass flue ways, hinged boiler door and cleaning door, high resistance long life cast iron body, 8 bar rated, reinforced fibreglass wool insulation.
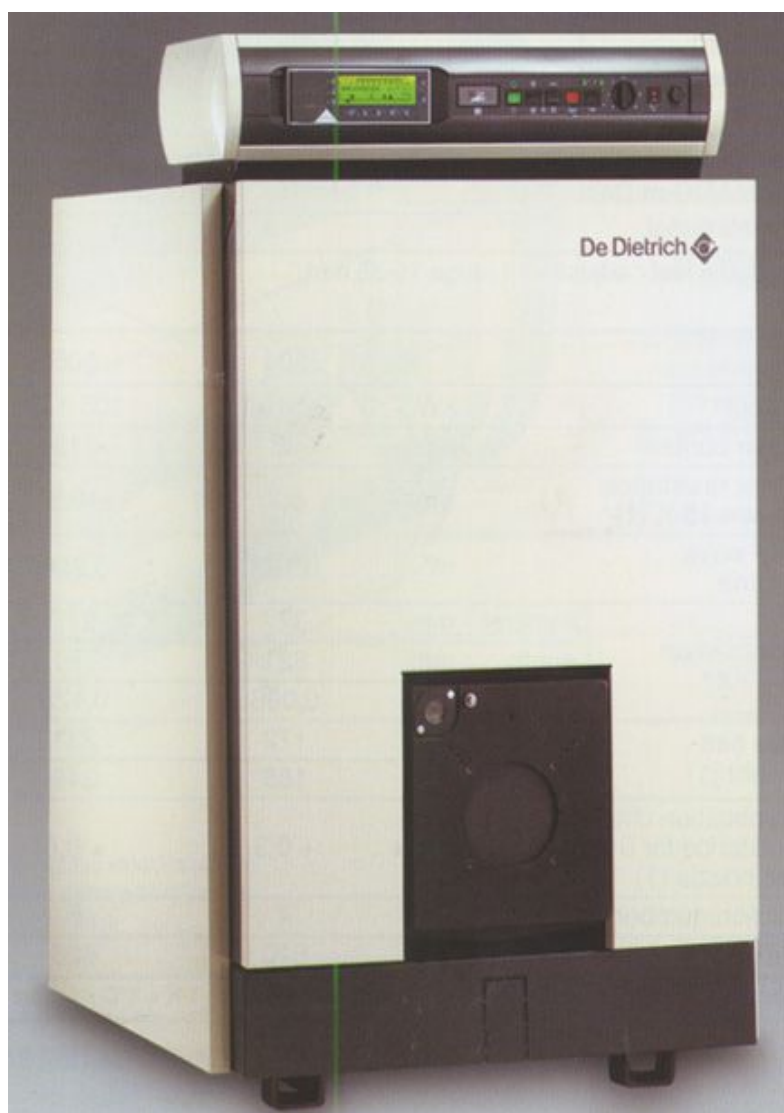
GT	304	70	-	105	kW
GT	305	105	-	140	kW
GT	306	140	-	180	kW
GT	307	180	-	230	kW
GT	308	230	-	280	kW
GT	309	280	-	330	kW
GT	408	300	-	390	kW
GT	409	390	-	450	kW
GT	410	450	-	540	kW
GT	411	540	-	600	kW
GT	412	600	-	670	kW
GT	413	670	-	720	kW
GT	414	720	-	780	kW
GTE	507	348	-	406	kW
GTE	508	406	-	464	kW
GTE	509	464	-	522	kW
GTE	510	522	-	580	kW
GTE	511	580	-	638	kW
GTE	512	638	-	696	kW
GTE	513	696	-	754	kW
GTE	514	754	-	812	kW
GTE	515	812	-	870	kW
GTE	516	870	-	928	kW
GTE	517	928	-	986	kW
GTE	518	986	-	1044	kW

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APPENDIX 1 - UNIT CONVERSION

1 in	=	25.40	mm
1 ft	=	0.3048	m
1 yd	=	0.9144	m
1 in^2	=	645.2	mm^2
1 ft^2	=	0.092290	m^2
1 in^3	=	16.39	cm^3
1 ft^3	=	0.02832	m^3
1 lbf/in^2	=	6.895	kPa
1 in H$_2$0	=	249.1	Pa
1 mb	=	100.0	Pa
1 gal	=	4.546	L
1 lb	=	0.4536	kg
1 Btu	=	1.055	kJ
1 therm	=	105.5	MJ
1 hp	=	746.0	W
1 kW	=	3.600	MJ
1 kcal	=	4.187	kJ
1 Btu/ft^3	=	0.037	MJ/m^3
1 osi	=	0.4375	kPa

Natural Gas R.D = 0.6 (Air = 1)
H.V. 38.7 MJ/m^3 /1050 Btu/ft^3

L..P. Gas R.D. = 1.55 (Air = 1)
H.V. 95.5 mJ/m^{3}2500/Btu/ft^3
50.4 MJ/kg/21,500 Btu/lb

SI Pressure FX G+F VICTORIA	Pressure Correction Factor (including super - compressibility) 1.1 kPa Base
1.1 kPa	1.000
2.5 kPa	1.014
4 kPa	1.028
7 kPa	1.058
10 kPa	1.087
15 kPa	1.136
30 kPa	1.283
40 kPa	1.381
70 kPa	1.674
100 kPa	1.970
140 kPa	2.363
170 kPa	2.657
200 kPa	2.954
250 kPa	3.447
300 kPa	3.946
350 kPa	4.442
400 kPa	4.939

APPENDIX 2 - **APPROXIMATE HEATING VALUES OF FUELS**

FUEL	FOR GASES (MJ/M^3)	FOR LIQUIDS	MJ/KG
Natural Gas (NG)	38	-	49.36
Processed Natural Gas (PNG)	19.6	-	31.1
Synthesised Natural Gas (SNG)	50.5	-	-
Tempered Liquefied Petroleum Gas (TLP)	25.4	-	-
Liquefied Petroleum Gas (LPG)			
- LPG (Propane) RD 0.508*	94.0	25.4	50.1
- LPG (Propylene) RD 0.584*	87.0	25.6	49.0
- LPG (Butane) RD 0.584*	122.0	28.9	49.5
Naphtha RD 0.610*	-	31.6	47.2
Petrol RD 0.730*	-	34.4	47.1
Automotive Distillate	-	38.4	45.7
Power Kerosene	-	36.7	46.4
Heating Oil	-	36.9	46.2
Ethanol	-	21.2	27.0
Light Distillate	-	37.9	45.8
Industrial Diesel Fuel	-	38.4	45.6
Fuel Oil	-	40.8	43.8
Tar Fuel	-	41.0	38.9
Brown Coal	-	-	21.0
Black Coal	-	-	27.9
Bituminous Coal	-	-	30.0
Coke	-	-	29.1
Wood	-	-	16.0 - 20.0

*Relative to Water = 1

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APPENDIX 3

FACTS ABOUT LIQUEFIED PETROLEUM GAS (LPG) AN AVERAGE BLEND COMMERCIAL PROPANE

ITEM	UNIT	VALUE
Boiling point at pa = 101.325 kPa	^{o}C	-45
Relative Density of gas (air = 1) at 15°C and 101.325 kPa		1.52
Relative density of liquid (water = 1) at 15°C		0.508
Mass per litre of liquid at 15°C	kg/L	0.508
Volume of gas per kilogram of liquid at 15°C and 101.325 kPa	m^3/kg	0.541
Volume of gas per litre of liquid at 15°C and 101.325 kPa	m^3/L	0.275
Gross heating value (GJ/t)* when vaporised	MJ/kg	50.05
Gross heating value per liquid volume when vaporised	MJ/L	25.42
Gross heating value of gas per standard cubic metre	MJ/m^3	95.5

Vapour pressure pe at various temperatures		
^{o}C = -45	kPa =	0
-40	gauge	28
-30	gauge	90
-20	gauge	175
-10	gauge	285
0	gauge	425
15	gauge	600
10	gauge	700
20	gauge	800
30	gauge	1060
40	gauge	1370
50	gauge	1700

* The value of GJ/t equals the value of MJ/kg

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APPENDIX 5 - CONDITIONS OF SALE

1.0   GENERAL:

1.1   The following are the terms and conditions of sale for the goods specified on the face hereof unless the sale results from a written quotation in which case the terms and conditions appearing on our quotation form shall prevail PROVIDED HOWEVER that any condition here in after contained which may be deemed to be in contravention of the Trade Practices Act 1974 or the Consumer Protection Act 1975 shall not apply to the contract and without in any way limiting the generality of the forgoing such condition shall not apply to a Purchaser who is or may be deemed to be a consumer within the meaning of the said Acts.

2.0   TERM OF PAYMENT:

2.1   Net cash within 30 days from the end of the month in which the goods are purchased, unless otherwise stated.

3.0   CLAIMS, RETURNS AND ALLOWANCES

3.1   Any claim against the Company must be made in writing within 7 days of delivery of goods except claims for non delivery which must be made in writing within 14 days from the date if the invoice. All claims must refer to the official invoice number and date and state the reason for claim.

2.2   No freight charges for return of goods under the purchaser's volition shall be acceptable by the Company unless authorised by the Company

2.3   Goods Returned for credit will only be acceptable if received in original condition and may be subject to restocking charges. The following goods cannot be returned for credit under any circumstances:-

        (a)   Any merchandise specially cut to length

        (b)   Any goods specially made, plated or otherwise treated or purchased for the customer

        (c)   Any goods damaged or altered in any way by the Customer.

2.2   Acceptance of delivery of goods returned for credit does not signify agreement to issue a credit note. A credit note will be issued only after the goods have been inspected and found to be satisfactory in the opinion of the company. In the event that a credit note is not issued, the Customer will be advised and the goods are made available to him.

2.3   No responsibility will be accepted for any delays in passing credit caused by goods being incorrectly branded.

4.0   LIABILTY:

4.1   Unless expressly agreed to the contrary, the provisions and tolerances contained in the standard specification to which the goods are manufactured by the company or its suppliers will apply to all orders accepted.

2.2   Property in the goods shall remain with the Company until all monies payable by the Purchaser in respect of the goods have been paid notwithstanding any variation made in the terms of payment.

        The risk of any loss or damage to or deterioration of the goods from whatever cause arising shall pass to the Purchaser a the point of ex stores delivery.

2.3   All goods supplied are covered by such warranty as is specified by the manufacture.

        No warranty is given or implied as to the fitness of the goods for any particular purpose whether such purpose is known to the Company or not. It is the responsibility of the purchaser to satisfy himself that the goods supplied are of the description, quality and character ordered, suitable for the purpose for which they are required. The Company shall not be liable for any loss or damage direct or consequently howsoever arising from the sale or from failure of the purchaser to so satisfy himself.

        No conditions or warranties expressed or implied by law and no representations or statements are binding on the company unless set out by contract.

2.4   The Company's liability (if any) in respect to claims under this contract shall be limited to the value of the goods the subject of the contract.

5.0   LEGAL CONSTRUCTION:

5.1   The construction, validity and performance of this Contract shall be governed by the laws in force in the state in which the contract is made.

5.2   The signing of a manifest or delivery docket for goods received, notwithstanding anything that may be stated to the contrary by the Purchaser, shall constitute acceptance of these Conditions of sale.

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NOTES

System Control Engineering

1 lb L.P.G.	= 21,500 Btu Vapourised	
1 lb L.P.G.	= 6.3 kW Hrs	
100 lb L.P.G.	= 630 kW Hrs	
1 lb L.P.G.	= 22.6 MJ	
100 lb L.P.G.	= 2,267 MJ	

1 MJ	= 948.213 Btu	
96 MJ	= 1 cb Metre	
3.6 MJ	= 1 Kw Hr	
105.5 MJ	= 100,000 Btu	
50.4 MJ	= 1 kg	
105.5 MJ	= 1 Therm	

100,000 Btu	= 105.5 MJ
100,000 Btu	= 1 Therm
21.5 Therm	= 630 kW Hrs
1 Btu	= 1.055 Kj
3,412 Btu	= 1 kW
1000 Btu	= 1.055 MJ / Hr
24,350 Btu	= 1.1 lb
948.123 Btu	= 1 MJ

1 kPa	= .145 psi
1 BAR	= 100 kPa
1 mpa	= 145 psi
1 kPa	= 4" W.G.
2.75 kPa	= 11" W.G.
6.89 kPa	= 1 psi
2.5 M.BAR	= 1" W.G.

= 14.5 psi

1 Litre	= 24,350 Btu	= 1.1 lb
1 Litre	= 25.4 MJ	
1 Litre	= 6.93 kW Hrs	
2 Litre	= 1 kg. Wt. Approx	
1 Kg	= 50.4 MJ	
1 Kg	= 47,000 Btu Vapourised	

$1ft^3$	= 2,500 Btu
1 Btu ft^3	= .037 $MJ.M^3$
1KCAL	= 4.187 Kj
3.14 LUMENS	= 1 CANDLE POWER
2100 LUMENS	= 130 Watts

1 MPa = 10 BAR = 1000 kPa = 145.03 psi = 10.19 kg / cm^2
1 BAR = 100 kpa = 14.5 psi = 1.02 kg / cm^2 = .1 MPa

100 psi = 690 kPa = .69 MPa = 6.9 BAR = 7.03 kg / cm^2
1 kg / cm^2 = 14.2 psi = .98 BAR = 98 kPa = .098 MPa

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