SYSTEMCONTROL ENGINEERING NZ

THE GAS, COMBUSTION AND CONTROL SPECIALISTS

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www.systemcontrol.co.nz

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Auckland

September 2017

SYSTEM CONTROL ENGINEERING

Are proud suppliers of the following manufacturers products.

Dormont
A Watts Water Technologies Company

Honeywell

REGO PRODUCTS

IMIT

itap

DUNGS
Combustion Controls

BACHARACH
The Measurable Difference

digitron

Robertshaw

BRAHMA

BROMIC
effective solutions

RIELLO

CAMPIN GORE

Pietro Fiorentini

satronic

Negaban

Honeywell
ECLIPSE

seitron

krom schroder

elster

SIEMENS

North American
Manufacturing Company, Ltd.

staiger

Ecoflam

POLIDORO
COMBUSTION TECHNOLOGY

Tecno Control

ELSTER Jeavons

geca

FAM
RANCO

White Rodgers

Information Requirements

GAS HOSES	THERMOCOUPLES	MANOMETERS	DETECTION
Length? Coated? Pressure? Application? Connections? **PIGTAILS ONLY** Length? BSP or Inverted Flare?	Length? Universal? Interrupted? High Temperature? Hot Water Cylinder c/w Cut Out? **THERMOPILES** 2-wire? Co-axial?	Digital? U-Tube? Dial Gauge? Pressure Range?	Fixed? Portable? Relay Output? NG / LPG? Carbon Monoxide?

REGULATORS	VALVES	CONTROLLERS	BURNERS	PILOTS
Gas Type? Flow Rate? Inlet Pressure? Outlet Pressure? **LPG ONLY** 1st or 2nd-Stage? Auto-Change Over? **ACCESSORIES** Filter? Test Points? Test Nipples?	Ball? Solenoid? Gas Control? Size? Voltage? Pressure Rating? Hot Water Control?	Voltage? Fuel Type? Flame Sensor? Igniter Included? Burner Operation? Number of valves? Air Pressure Switch?	kW /Mj? Fuel Type? Integral Fan? Atmospheric? Gas Pressure? On/Off, Hi/Lo? Type of control? Include Gas Train?	Gas Type? Flame Rod? 1, 2, or 3-way? Thermocouple? Ignition Electrode?

Where possible try and obtain BRAND NAMES

SCE NZ OFFERS YOU SOLUTIONS!

Tel: 09-636-1401 *Email: sales@systemcontrol.co.nz* *Fax: 09-636-1525*

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System Control Engineering NZ Ltd reserves the right to change any of this information without prior notice. Ver 1.0.2017

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 1

PACKAGE BURNERS - GAS & OIL

RIELLO

INDUSTRIAL DUAL FUEL BURNERS

RIELLO

ATMOSPHERIC TUBE BURNERS

POLIDORO

DUCKBILL & MONGOLIAN

POLIDORO

INSPIRATORS & NOZZLES

AUSTRALIAN COMBUSTION, NAMCO

AIR HEAT BURNERS

ECLIPSE, NBP, NAMCO

IMMERSION TUBE BURNERS

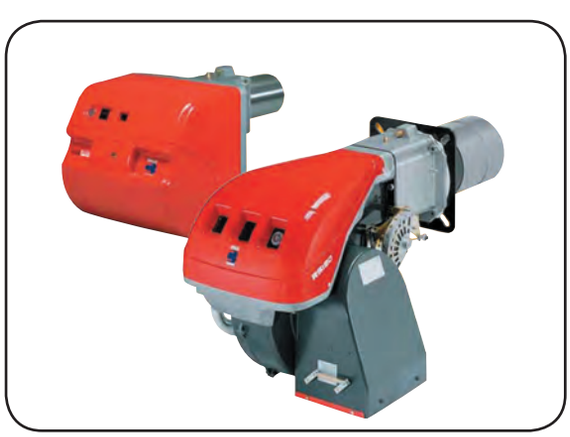
NAMCO

PACKAGE BURNERS - GAS

With over 90 years of experience Riello are a global manufacturer of gas and oil-burners and hold a major place in the process burner and heating markets.
As New Zealand Distributor SCE can offer a complete range of burners and support to suit your requirements. Contact SCE to discuss your specifications.

Riello 40 GS Series

- On/Off
- Two Stage and Modulating versions available
- 11-220 kW



Riello RS Series

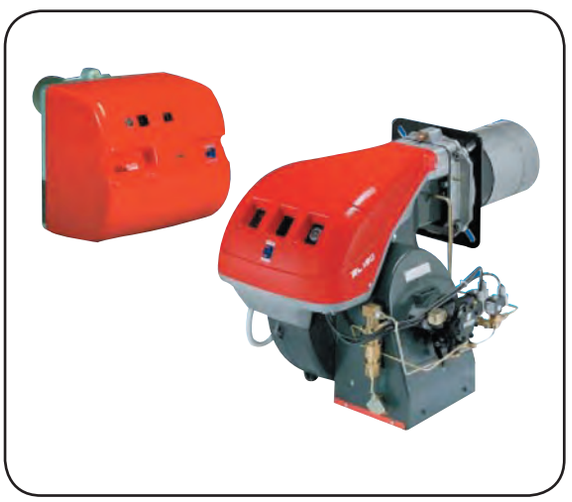
- On/Off
- Two Stage & Modulating versions available
- 80 - 11,100 kW

PACKAGE BURNERS - OIL

Riello 40 G Series Light Oil Burners

- On/Off
- 40 G5 RK 12-60 kW

- Also available Two Stage
- 40 G10S 54-120 kW
- 40 G 20S 95-240 kW

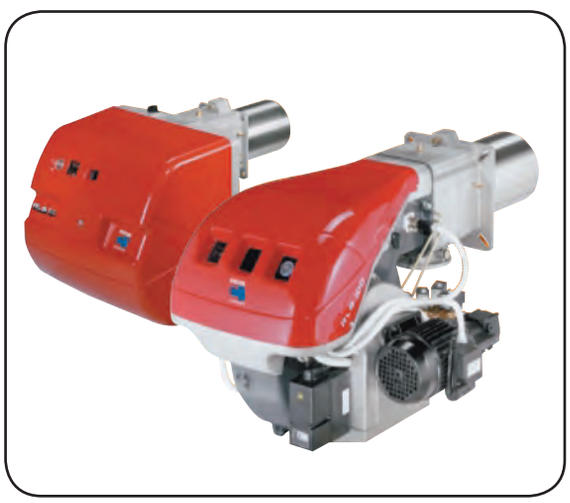


Riello RL Series Light Oil Burners

- On/Off
- Two Stage
- Progressive two stage and modulating versions available

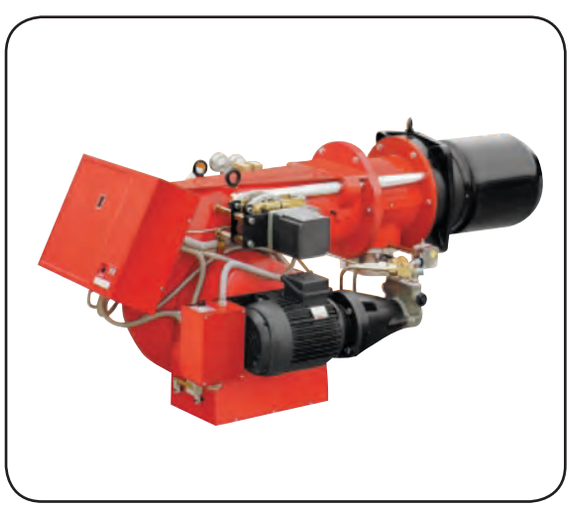
- 95 - 4,410 kW
-

PACKAGE BURNERS - DUAL FUEL



Riello RLS Series

- On/Off
- Two Stage Dual Fuel Burners
- 100 - 11,500 kW



Riello GI/EMME Series

- Modulating Dual Fuel Burners
- 407 - 4650 kW

ATMOSPHERIC BURNERS

Tube Burners

- Designed for use with all types of boilers, space heaters and other thermal applications
- Burners are entirely stainless steel
- Design of the burner port provides flame stability for all types of gas
- Low noise level
- Natural gas or LPG

#P0029	- 970x50mm, 30MJ/h
#P0100	- 350x50mm, 100MJ/h
#P0101	- 952x52mm, 100MJ/h
#P0127	- 600x60mm, 127MJ/h

Blade Burners

- Natural gas or LPG
- Suitable for most gases including LPG (change of injector)
- Low noise level
- Adaptable to any combustion chamber
- 56-160 MJ/h ratings

#P0089	- 8 blade
#P00115	- 15 blade

SUBJECT TO AVAILABILITY

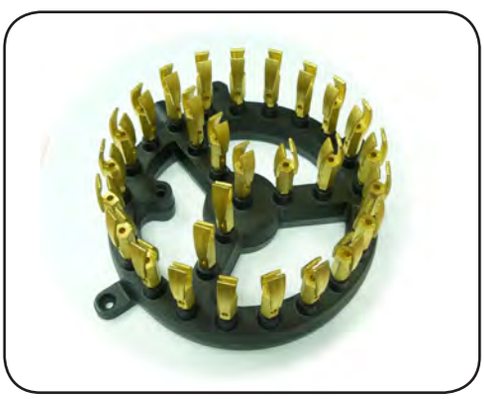
ATMOSPHERIC BURNERS

Duckbill / Mongolian Burners

- Suitable for commercial wok applications
- Available with 18, 28, 23 and 32 jets
- Natural gas or LPG

18 jet Duckbill Burner 200mm Diameter
1/2" BSP inlet
120 mJ/h @ 1kPa NG 1.2mm Jet
120 mJ/h @ 2.75 kPa LPG 0.7mm Jet

#P34018



28 jet Duckbill Burner 280mm Diameter
3/4" BSP inlet
180mJ/h @ 1kPa NG 1.2mm Jet
180mJ/h @ 2.75 kPa LPG 0.7mm Jet

#P34018-7

Replacement Individual Burner
#P34097 LPG

23 jet Mongolian Burner 150mJ/h
1/2" BSP inlet
150mJ/h @1 kPa NG 1.2mm Jet
150mJ/h @2.75 kPa LPG 0.6mm Jet

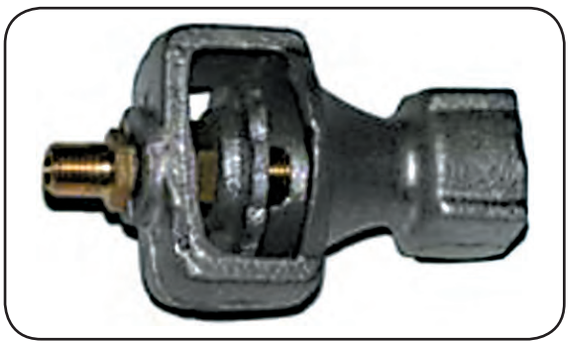
#P34023

Replacement Individual Burner
#P34095 LPG

32 jet Mongolian Burner 200 mJ/h
3/4" BSP inlet
200mJ/h @1 kPa NG 1.2mm Jet
200mJ/h @2.75 kPa LPG 0.6mm Jet

#P34032

INSPIRATORS & NOZZLES

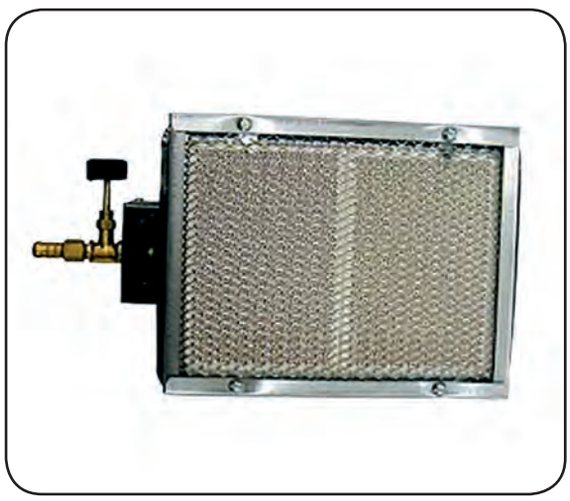


#BR3215	- SPI 15
#BR3220	- SPI 20
#BR3225	- SPI 25
#BR3232	- SPI 32
#BR3240	- SPI 40
#BR3250	- SPI 50
#BR3265	- SPI 65
#BR3280	- SPI 80

#BR1415	FR 15
#BR1420	FR 20
#BR1425	FR 25
#BR1432	FR 32
#BR1440	FR 40
#BR1450	FR 50
#BR1465	FR 65
#BR1480	FR 80
#BR1500	FR100

Available on Indent Only

INFRA-RED BURNERS



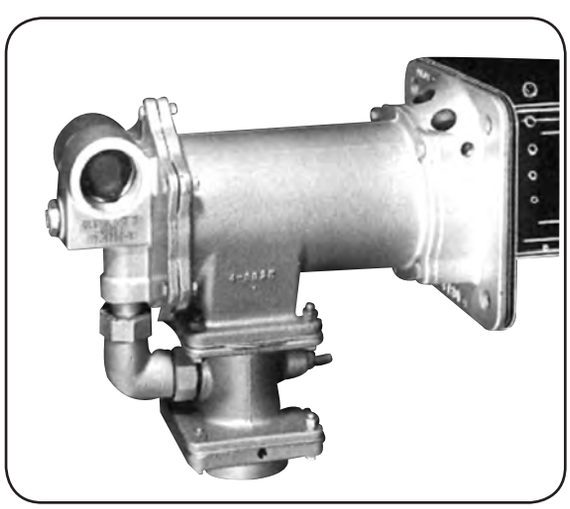
Jackwal Infrared Burner Plaque

- 3.3 kW output
- 215mm x 165mm

#JA65108311

SUBJECT TO AVAILABILITY

IMMERSION BURNERS



Namco 4762 Immersion Tube Burners

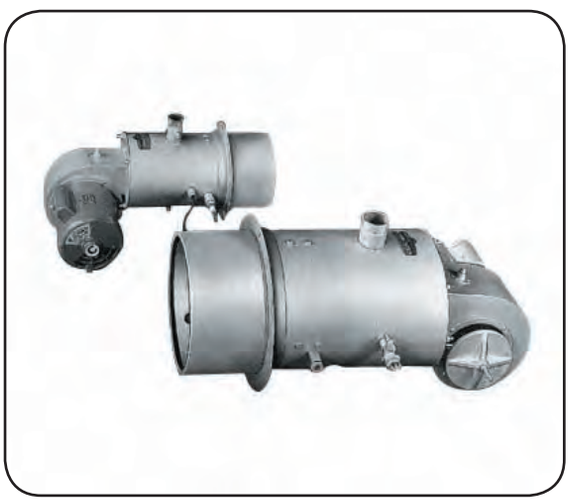
- High Heat Release
- High Turndown
- UV or Flame Rod
- Reliable Premix Pilot
- 200mJ - 4,200mJ Models Available

Please Contact SCE for further technical information

AIR HEAT BURNERS

ECLIPSE™
Innovative Thermal Solutions

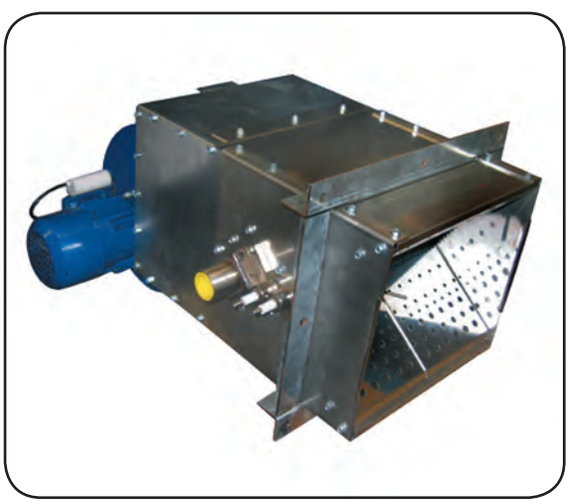
A full range of Eclipse burners is now available for all process and heating applications.
Contact SCE to discuss your requirements.



Namco Zephyr Burners

- Versatile Air Heat Burners for duct or fan assisted applications
- 50:1 Turndown
- 500 - 9000mJ Models available
- Gastrain & Burner controls available

Please Contact SCE
for further technical information



NBP Series BVA ADB-LV Burner

- Duct burner
- High turn down
- Stainless steel
  *Available with gas train and burner control if required

Capacities:

#NBP10120	- 12” 500mJ/h
#NBP10250	- 24” 1050mJ/h
#NBP10360	- 36” 1500mJ/h
#NBP10480	- 48” 2010mJ/h

Please Contact SCE
for further technical information

Section 2

PILOT BURNERS, COMMERCIAL

CATOBA, POLIDORO, ROBERTSHAW, WHITE-RODGERS

PILOT BURNERS, INDUSTRIAL

BRAHMA, KROMSCHRODER

PILOT MIXERS

AUSTRALIAN COMBUSTION, NAMCO

THERMOCOUPLES

ROBERTSHAW, WHITE-RODGERS

THERMOPILES

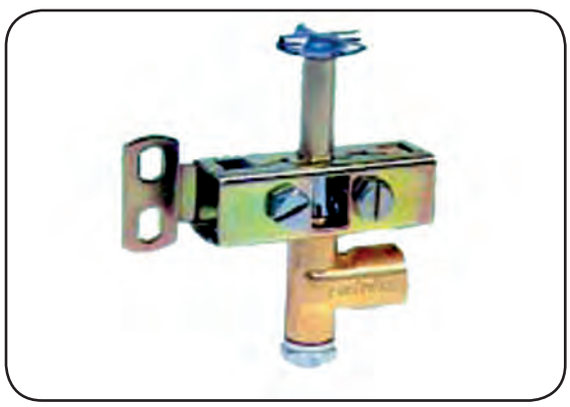
JADE, ROBERTSHAW, WHITE-RODGERS

MERCURY SENSORS

WHITE-RODGERS

COMMERCIAL PILOT BURNERS

CATOBA



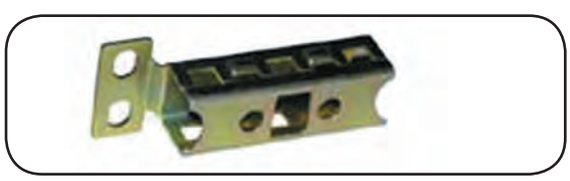
Catoba Multi Flame Pattern Pilot

- 2 or 3-way flame pattern
- Flame adjustment
- Accepts standard thermocouple and electrode
- Available in Natural Gas or LPG

#CB1334 - 3-way Natural Gas
#CB1335 - 3-way LPG

#SI0915036 - Ignition Electrode
To suit Catoba Pilots

#CG161418 - Flame Rod
To suit Catoba Pilots



#CB 65002 - 3 Position Bracket

ROBERTSHAW

#RS2CH6062
Natural Gas

#RS2CH6185
LPG

#RS3CHA-1
Natural Gas

#RS2CH6185
LPG

#RS5CHL760
Natural Gas

#RS5CHL768
LPG

#RS6CH24
Natural Gas
& LPG Kit

#RS5CHR761
Natural Gas

#RS5CHR769
LPG

#RS76510
Natural Gas
& LPG Kit

#RS2BLC5021
Natural Gas

#RS1830 - 006
Natural Gas
& LPG Kit

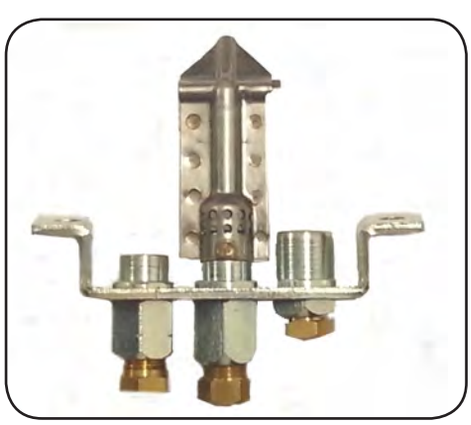
#RS2CHR629A
Natural Gas

Pilot Studs
Natural Gas
#RS76377 0.0011”
#RS76360 0.0016”
#RS76361 0.0018”
LPG
#RS76370 0.0010”

POLIDORO

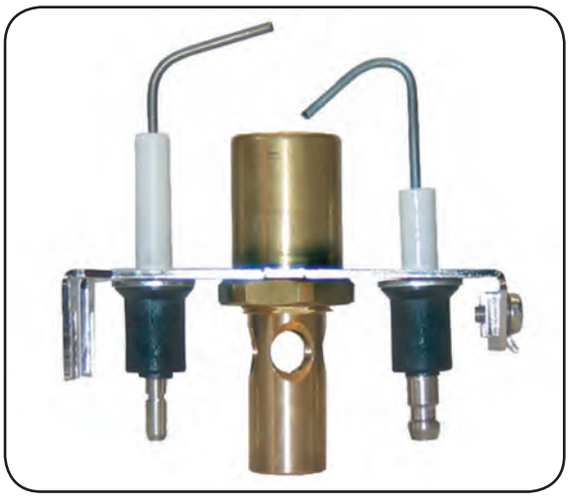
#P4030
Ignition Electrode
To suit
Polidoro Pilots

#SI0915015
Flame Rod
To suit
Polidoro Pilots



#P1524
LPG

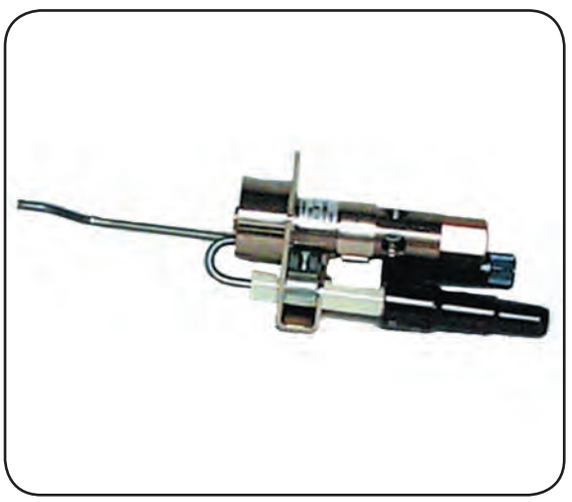
INDUSTRIAL PILOT BURNERS



Brahma BP/2 Pilot

- Light industrial or commercial use
- Vertical flame, atmospheric
- Option of flame length 40-100mm
- Fitted with electrode and flame sensor as standard
- Available in Natural Gas or LPG

#B3270 - Natural Gas
#B3450 - LPG



Kromschroder ZAI

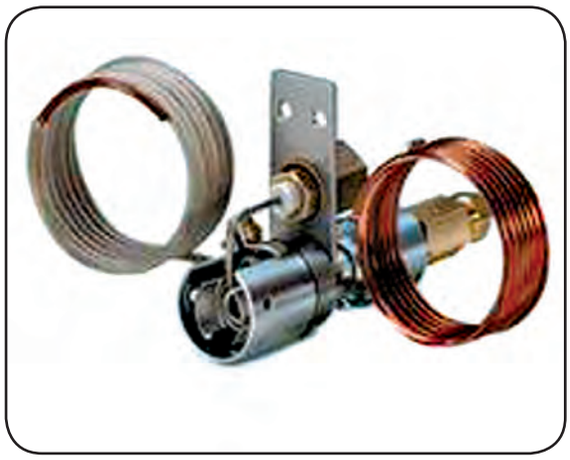
- Light industrial or commerical use
- Vertical flame, atmospheric
- Option of flame length 40-100mm
- Fitted with electrode and flame sensor as standard
- Available in Natural Gas or LPG
- 3 kW capacity

#KR3404

Kromschroder ZKIH

- Up to 7 kW capacity
- For electronic ignition, ionization supervision,
- Available in Natural Gas or LPG
- Lengths of 200-500mm available
- Forced air supply

#KR3454 - 200/100
#KR3456 - 300/100
#KR3458 - 400/100
#KR3460 - 500/100
INDENT ONLY



Kromschroder Z T 13M - I
Natural Gas & LPG
- Use with KR01803, S11T FFD

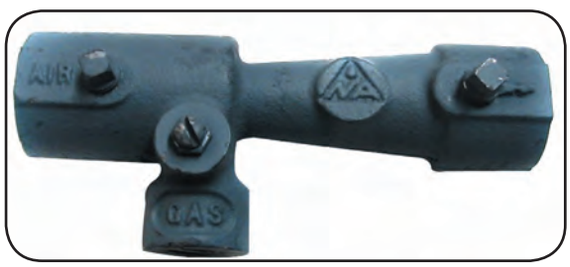
#KR34075

JM Pilot Burner Assembly
Produces larger flames than normal and have greater flame stability for arduous conditions.

#BR2002 - Brass Inspirator
#BR2004 - Pilot Burner
Other sizes available on request

Namco Pilot Assembly
Industrial Pilot assembly suitable for furnace type burners

Pilot Tip C/W Spark Plug
#N4021-12



Pilot mixer 3/4
#N4031.

THERMOCOUPLES

Universal Kits

- Available in lengths 600, 900, 1200, 1500 & 1800mm
- Fits all pilot burners
- Unique conical locking nuts
- Complete set of split nuts supplied
- Easy installation
- Now with thicker long life tip 600,900 and 1200 mm sizes

#CC40600Z	- 600mm
#CC40900	- 900mm
#CC41200	- 1200mm
#CC41500	- 1500mm
#CC41800	- 1800mm
#W0154	- 1800mm

Robertshaw 1970 Series Universal Thermocouples

#RS1970-018	- 18”
#RS1970-024	- 24”
#RS1970-036	- 36”
#RS1970-048	- 48”

Robertshaw 1980 Series Snap Fit Thermocouples

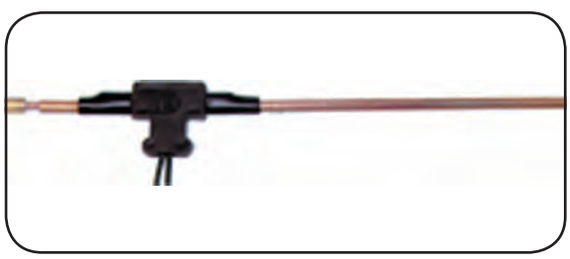
#RS1980-018	- 18”
#RS1980-024	- 24”
#RS1980-036	- 32”
#RS1980-048	- 48”
#RS1980-072	- 72”

THERMOCOUPLES

Robertshaw Hot Water Cylinder Thermocouple

- Length 530mm
- 102°C safety cut out
- Ideal for Rheem Hot Water Cylinders

#RSTS550UN



Interruptor Thermocouple

- Use with overtemp switch or safety device
- 600mm

#SI0270436

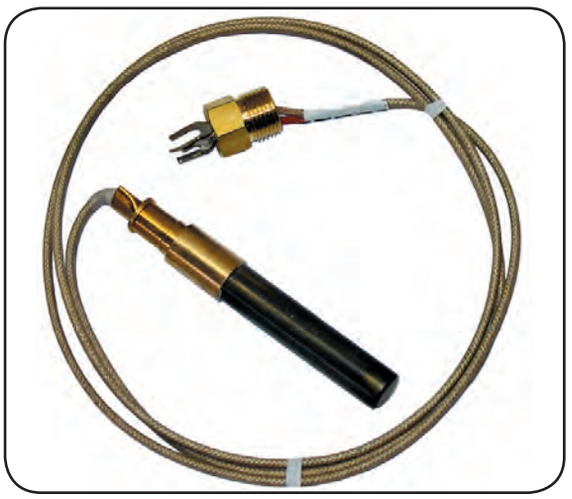
INTERRUPTOR BLOCKS

Interruptor Blocks

- Cold junction end connection $^{11}/_{32}$, 8, 9 or 10mm
- Brass construction
- Easily adaptable

#CC1008 - 8mm
#CC1009 - 9mm
#CC1010 - 10mm
#CC11011 - $^{11}/_{32}$ mm

THERMOPILES



White Rodgers

- Thermopile / pilot generator
- 750 millivolt operation
- 600mm and 900mm lengths
- Long life
- Fibreglass cable lead with split spade terminal

#JD01202 600mm
#JD01204 900mm

Robertshaw

- Thermopile / pilot generator
- 750 millivolt operation
- 900mm length
- Long life
- Coaxial

#RS1951-536

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 3

THERMO ELECTRIC VALVES

BASO, CATOBA, JADE, SIT, WHITE-RODGERS

GAS CONTROL VALVES & SPARES

ROBERTSHAW, SIT, WHITE-RODGERS

SOLENOID VALVES - GAS

BRAHMA, KROMSCHRODER, STAIGER

MOTORISED VALVES

KROMSCHRODER

EMERGENCY STOP BUTTONS

MANUAL BALL VALVES

ITAP

ADJUSTABLE PORT VALVES

ITAP, NAMCO

BUTTERFLY VALVES

KROMSCHRODER, NAMCO

SEISMIC VALVES

CALIFORNIA VALVE, VIBCON

COMBINATION VALVES

BRAHMA, DUNGS, KROMSCHRODER

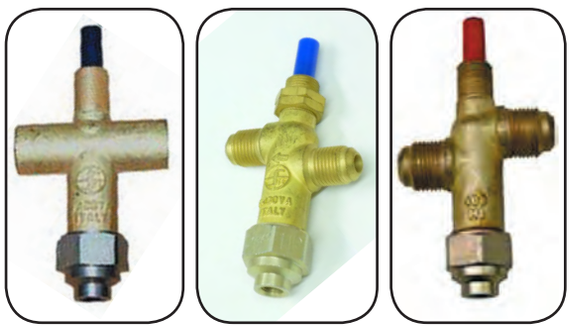
OIL VALVES

BRAHMA

FIRE VALVES

ANGLO NORDIC

THERMO ELECTRIC VALVES



SIT M1 Series
- Manual push button operation
- Thermocouple operation
- 500 kPa maximum

#SI0008 - 1/4" FxF
#SI0009 - 1/4" MxM Flare
#SI0011 - 3/8" MxM Flare

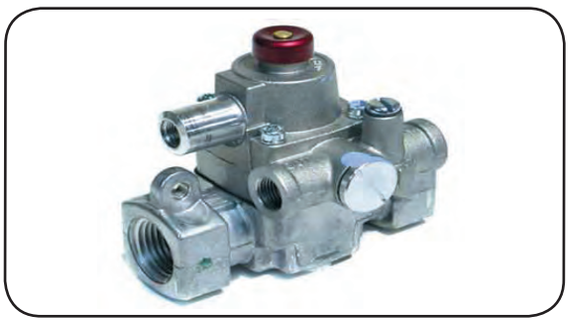
SIT D3 Series
- Single valve
- Thermocouple operation
- Manual control
- 15 and 20mm sizes available
- Pilot take off

#SI0440034 - 15mm FxF
#SI0440033 - 20mm FxF

White Rodgers 784 Series
- Single valve
- Thermocouple operation
- Manual control
- Pilot take off

#JD026013 - 15mm

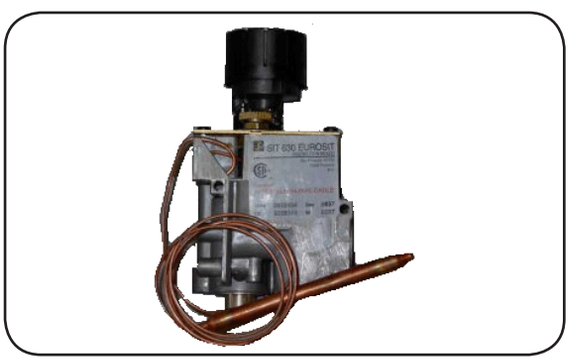
THERMO ELECTRIC VALVES



Robertshaw 1720 Series
- Pilot & main flame operation
- Thermocouple operation
- 3/8” bsp connections
- 1/2 PSI rated

#RSTS11J

GAS CONTROL VALVES



SIT Eurosit Valve
- Thermo Electric Flame Failure
- Adjustable Gas Flow
- Thermostat with On/Off
- Adjustable Pilot Flow
- Inlet and Pilot Filters
-

#SI006..X

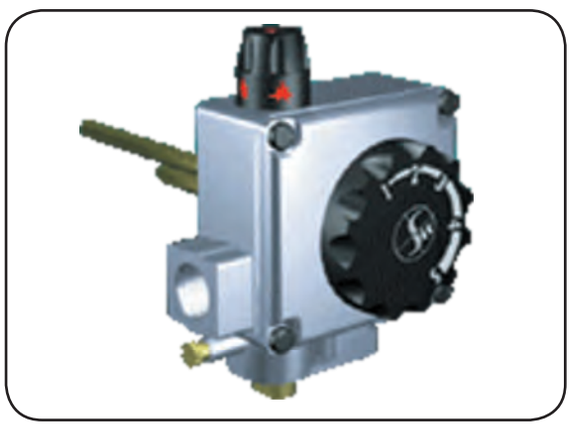
Gas Heater Control Valve
- Pilot valve
- Main valve
- Igniter
- Thermocouple operation
- Gas control knob

#NY06801
Replaces Dungs BM733 Valve

GAS CONTROL VALVES

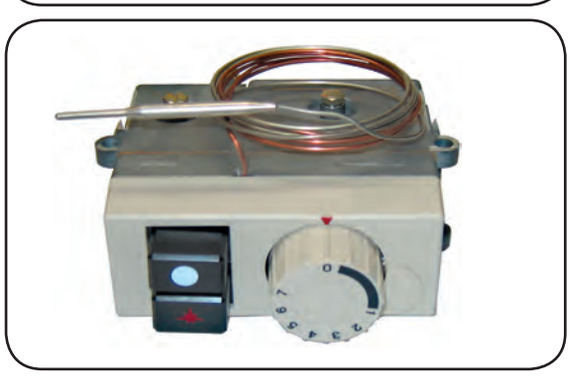
Robertshaw Gas Hot Water Control Valve
- Pilot valve
- Main valve
- Pressure regulator pilot
- Pressure regulator main
- Built-in energy cut-off safety device
- Thermocouple
- Natural Gas or LPG
- AGA approval number 5414

#RS220RTSP595 - Natural Gas
#RS220RTSP596 - LPG



SIT AC Gas Hot Water Control Valve
- Pilot valve
- Main valve
- Pressure regulator pilot
- Pressure regulator main
- Built-in energy cut-off safety device
- Thermocouple
- Natural Gas
- AGA approval number 5414

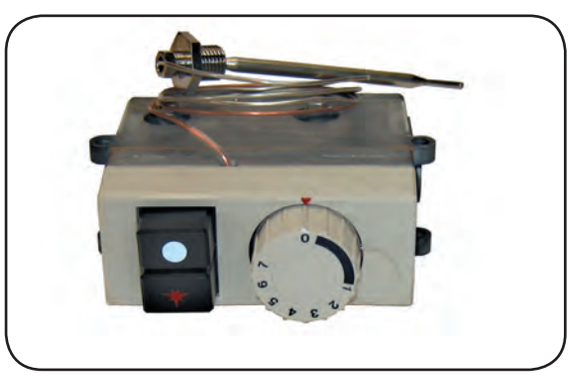
#SI0070



SIT Oven Mini-Sit
- 100-340°C
- $^{3}/_{8}$ Connections

#SI0020

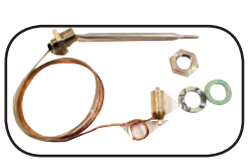
Bulb and Capillary
#SI1015



SIT Fryer Mini-Sit
- 120-200°C
- $^{3}/_{8}$ Connections

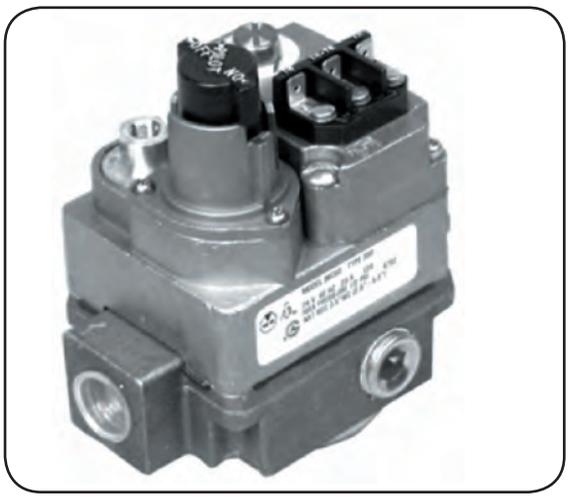
#SI0022

Bulb and Capillary
#SI1018



Mini-Sit is also available in 13-38°C version for ambient heating applications #SI710133

WHITE RODGERS GAS CONTROL VALVES



White Rodgers 36C

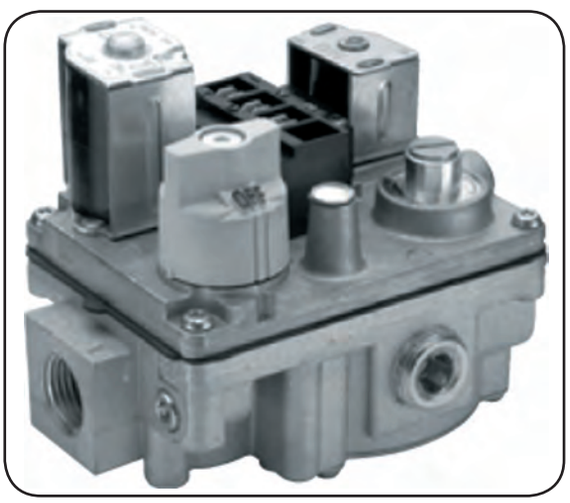
- Regulator / combination valve
- 20mm
- Voltages 750mv,
  24 / 120 / 240 volt AC
- 3.5 kPa pressure rating
- AGA approval number 2784

Thermocouple pilot versions

#W0085	24v main
#W0086	240v main
#W0088	millivolt main

Wired pilot versions

#W0087	millivolt main
#W0093	120v main
#W0094	24v main
#W0095	240v main

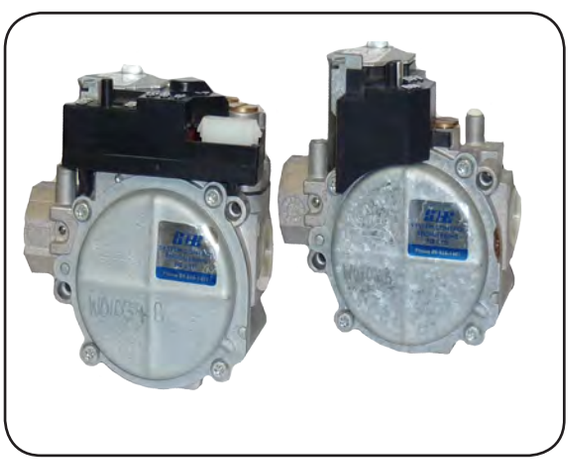


White Rodgers 36E

- On / Off operation
- Electronic control
- Redundant valve
- 140MJ/h
- 24volt AC
- Outlet / Inlet 15mm
- 5 kPa pressure rating
- AGA approval number 5099

Obsolete

Replaced with 36G series see below

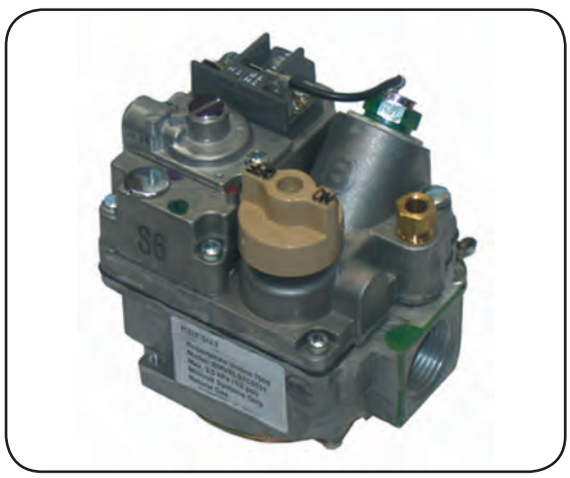


White Rodgers 36G

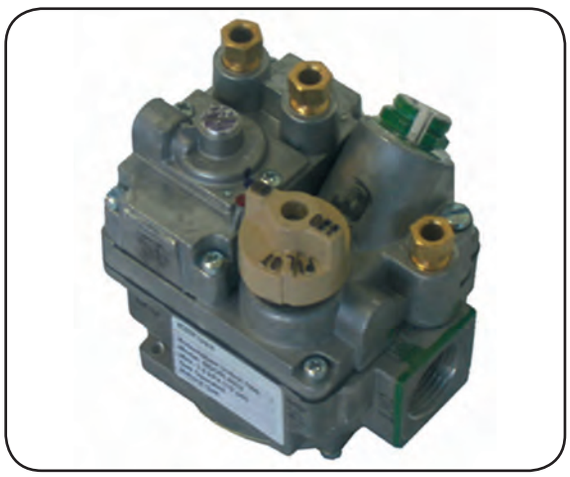
- On/Off Operation
- Slow Or Fast Open Models
- Single or Two Stage Models
- 140mJ/h Natural Gas
- 1/2” Inlet/Outlet
- 3.5 kPa Max inlet pressure
- 24 VAC

#W00XX

ROBERTSHAW UNITROL 7000 COMBINATION GAS VALVES



Millivolt main and wired pilot
#RSBMVRLS7C5531 Natural Gas
#RSBMVRLS75507 LPG



Gas controlled and thermocouple pilot
#RSBGORL6032 Natural Gas
#RSBGORL6040 LPG

Millivolt main and thermocouple pilot
#RSBMVRLS7C5515 Natural Gas
#RSBMVRLS7C5523 LPG

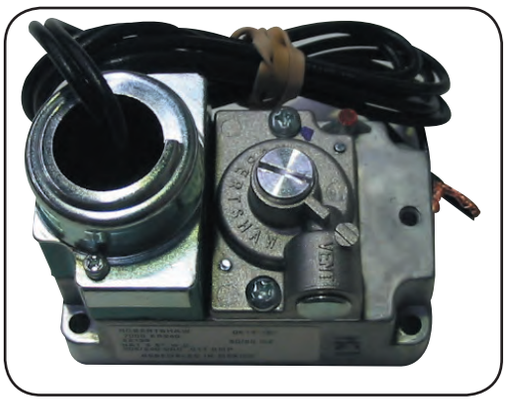
No Longer Available
See White Rodgers
Page 3.4

24 volt AC main, thermocouple pilot
#RSBERL3501 Natural Gas

240 volt AC main, thermocouple pilot
#RSBERL4512 Natural Gas
#RSBERL4520 LPG

Robertshaw Log Fire Control
Millivolt main and wired pilot
Hi-Lo control
#RS710-503
Subject to Availability

SPARES

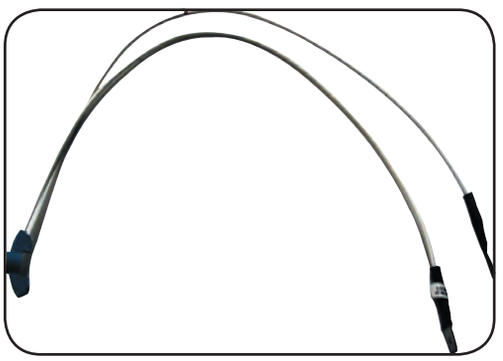


Actuators for Robertshaw Gas Control Valves

 # RS82123 - 240volt AC
 # RS82252 - Gas operated
 # RS82435 - Millivolt

Knob for Robertshaw Gas Control Valves

 # RS82220



Electrical Cut Out (ECO) Lead for Robertshaw Gas Control Valves

 # RSB21895

GAS SOLENOID VALVES
BRAHMA

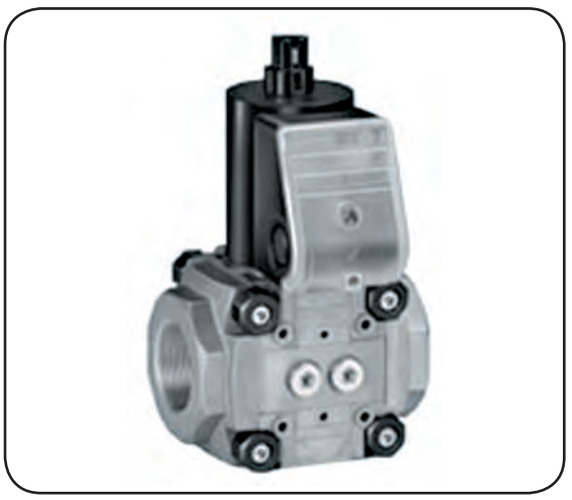
Part Number	Size	Body	Max Press.	Flow Adj.	Fast Open	Slow Open	By Pass	Coil No. 240 Vac
B2213 (oil)	1/8"	Brass	20 Bar	No	Yes			B70216
B2216	1/8"	Brass	500 mB	No	Yes			B70216
B22221	1/4"	Brass	100mB	No	Yes			B70216
B22261	1/4"	Brass	1000 mB	Yes	Yes			B702431
B22361	3/8"	Brass	500 mB	Yes	Yes			B702431
B22461	1/2"	Brass	500 mB	Yes	Yes			B702431
B24201	1/2"	Alum.	500 mB	Yes	Yes			B702431
B24301	1/2"	Alum.	250 mB	Yes		Yes		B702431
B24401	1/2"	Alum.	100 mB	Yes	Yes		Yes	B702431
B25201	3/4"	Alum.	100 mB	Yes	Yes			B702501
B25301	3/4"	Alum.	100 mB	Yes		Yes		B702701
B25421	3/4"	Alum.	500 mB	Yes	Yes		Yes	B702701
B26201	1"	Alum.	350 mB	Yes	Yes			B702701
B26301	1"	Alum.	100 mB	Yes		Yes		B702801
B26401	1"	Alum.	100 mB	Yes	Yes		Yes	B702801
B26710	11/2"	Alum.	200 mB	Yes	Yes			B7029501
B267101	11/2"	Alum.	200 mB	Yes	Yes			B7029501
B267301	11/2"	Alum.	200 mB	Yes		Yes		B7029501

NOTE: 110 volt AC & 24 volt AC COILS AVAILABLE

DIN Plug electrical connector must be ordered separately # B71216
Connections kits available to couple two valves together,
#B2490 15mm, #B2590 20mm and #B2690 25mm

KROMSCHRODER

VAS VALVARIO SERIES SOLENOID VALVE INFORMATION



Kromschroder VAS Series

- Fast open fast close
- Slow open fast close
- Combination valve
- 50 kPa maximum pressure
- 15-125mm sizes available
- Various voltages
- C/W screwed flanges
- Closed Position Indicator option
- Bypass kit available
- Regulator and air/gas ratio versions available
- Normally open vent valve available
- Can be fitted together.

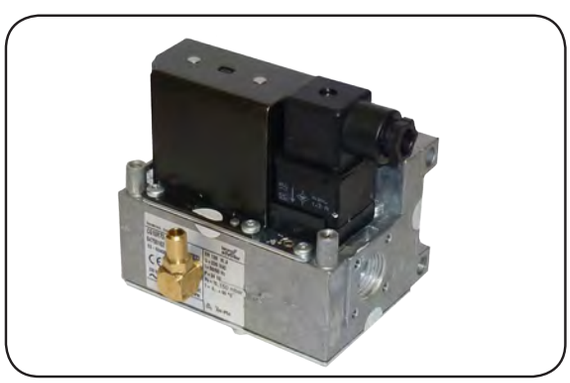
Part Number	Size BSP	Fast Open	Slow Open
KR151110F0	3/8”	Yes	
KR151110S0	3/8”		Yes
KR151115F0	1/2”	Yes	
KR151115S0	1/2”		Yes
KR151120F0	3/4”	Yes	
KR151120S0	3/4”		Yes
KR151125F0	1.0”	Yes	
KR151125S0	1.0”		Yes
KR151232F0	1.1/4”	Yes	
KR151232S0	1.1/4”		Yes
KR151240F0	1.1/2”	Yes	
KR151240S0	1.1/2”		Yes
KR151250F0	2.0”	Yes	
KR151250S0	2.0”		Yes
KR151365F0	2.1/2”	Yes	

KROMSCHRODER

Kromschroder VAN Series Vent Valve
Normally open

Check current availability, Use VAS series Vent Valve
 # KR15611250

COMBINATION VALVES



Kromschroder CG Series
- On / Off,
- 15mm
- Built in Regulator
- 15 kPa Max Inlet Pressure

*#KR22070K**

Kromschroder VAS Series
Combination set
- Pilot and Main gas combination
- Integrated Regulator
- Modular System
- Configured to your requirements

 # KR 155....as selected

MOTORISED VALVES

Kromschroder VK Series
- Slow open, fast close actuated
- 40-250mm sizes available
- Screwed or flanged
- 1 Bar standard pressure rating
  4 Bar available
- CPI position switch available
- Explosion proof actuator available
- 240 / 110volt AC

#KR18..... specify details
Contact SCE for technical information.

- **Staiger compact solenoid valves**
- *1/4" BSP -1/2" BSP*
- *12 -24 VDC or*
- *240VAC*
- **SUBJECT TO AVAILABILITY**

OIL VALVES

Brahma E7
- Application: Light Oil
- Maximum 20 Bar
- Flow 0.055 M^3/h
- 6mm pipe size
- 240 volt AC

#B2213

Fire Valve Kit
- Kit Complete

- 3/8" #Z90005
- 1/2" #Z90001
- 3/4" #Z90006

VALVE EMERGENCY STOP BUTTONS AND SAFETY CONTROLS

Manual Reset Module

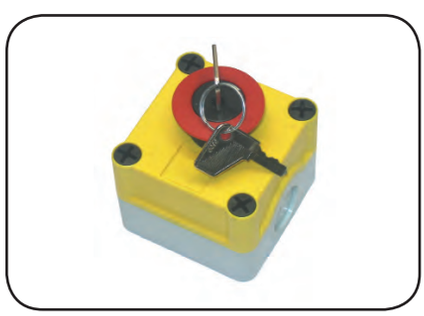
- Provides manual reset control for emergency shut off valves
- Simple mounting
- Compact design
- Illuminated push button operation gives visual indication of valve control state

#L0020R

Keyless Emergency Stop Switch Twist Reset

- Simple mounting
- Compact design
- C/W “Emergency Stop” Label

#L0201



Keyed Emergency Stop Switch

- Lockable
- Simple mounting
- Compact design
- C/W “Emergency Stop” Label

#L0205

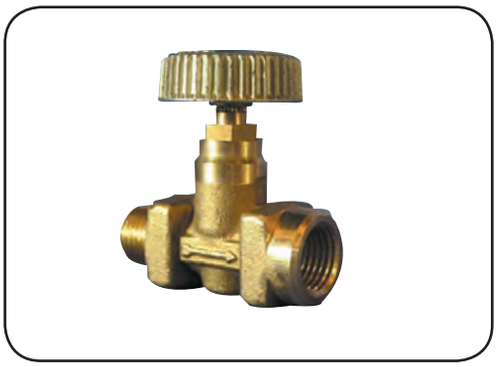
Gas Emergency Stop Label

- Sturdy Construction
- Engraved Lettering
- Large Size 200 x125 mm
- Self Adhesive

#L0201L-TRAF

See Gasguard Safety System Section 4 page 7

ADJUSTABLE PORT VALVES



Needle Valves
- Precise control
- MxF 1/4”

#I0181

1807 Limiting Orifice Valve
- V-Port for setting gas/air ratio
- Sensitive V-Port for fine settings
- Concealed Screwdriver adjustment
- Sizes available 15-75mm

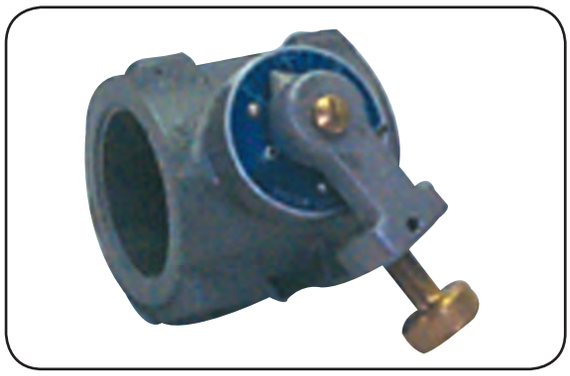
#N1807-0 - 3/4”
#N1807-01 - 1/2”
#N1807-1 - 1”
#N1807-2 - 1 1/4”
#N1807-3 - 1 1/2”
#N1807-4 - 2”
#N1807-5 - 2 1/2”
#N1807-6 - 3”

MANUAL BUTTERFLY VALVES

- **Bray Butterfly Valves**
- For air and gas
- 15-500mm sizes available

Contact SCE for technical information.

MANUAL BUTTERFLY VALVES



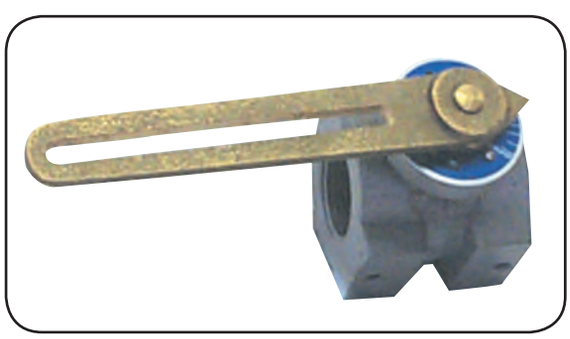
Manual Butterfly Valve

Available on request, contact SCE to discuss your requirements

See Kromschroder
DK butterfly valves also available in manual configuration.

AGA Approved ball valves are available
Please contact SCE to discuss your requirements.

MOTORISED BUTTERFLY VALVES



1126 Series Motor Operated Butterfly Valves

- Swing through disc handle
- Movement by motor arm and linkage
- Sizes 20-150mm available (larger are flanged)
- Maximum pressure dependant on size
- Maximum temperature 200°C
-

Available on request, contact SCE to discuss your requirements

See Kromschroder
DK butterfly valves Page 3.14

MOTORISED BUTTERFLY VALVES

(IC 20 Motor Not Included)

Kromschroder DK Series
DKG: Control of gas
- Maximum of 30kPa
- Maximum of 60°C

DKL: Control of air
- Maximum of 30kPa
- Temperature range -20°C to 100°C

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

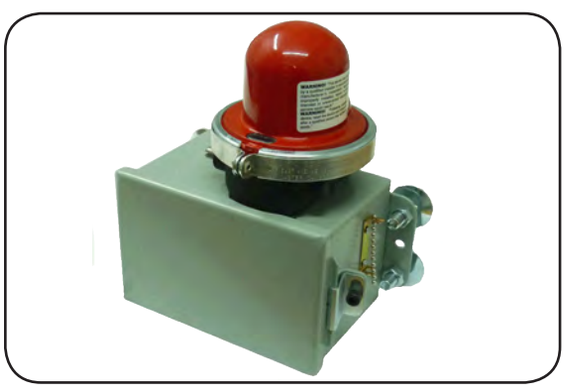
IC20 Motor
KR1952130
Mounting Kit
#KR1956715

See Section 8.3 for Kromschroder Modulation Motor specifications

SEISMIC VALVES

California Seismic Mechanical Gas Shut off Valves
- $^{3}/_{4}$" - 8" Available
- 4 Bar (60PSI)
- UL Listed
- Screwed and Flanged available
- Horizontal, vertical top inlet, vertical bottom inlet available
- Optional micro switch monitoring (Factory fitted only at time of order)

#CV 3.....specify size
Contact SCE for technical information.



Electrical Seismic Sensor
- UL Listed
- Wall mount
- Switch output for Solenoid Valve, Alarm, or BMS connection.
- Manual reset

#CV 510

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 4

COMBUSTION ANALYSERS

BACHARACH

PORTABLE GAS DETECTORS

BACHARACH, DIGITRON, GECA

FIXED GAS DETECTORS

DOMESTIC & COMMERCIAL

ARCTIC, GECA, SEITRON

FIXED GAS DETECTORS - INDUSTRIAL

GECA,

GAS SAFETY PROTECTION SYSTEMS

SCE

GAS FITTERS TEST KIT

SCE

COMBUSTION ANALYSERS

Bacharach Fyrite Intech

- Measured values: oxygen, flue gas temperature and carbon monoxide (0-2000ppm)
- Calculated values: combustion efficiency and carbon dioxide content
- New hi contrast LCD display
- 2 year warranty
- Choose from 6 Selectable fuels
- Powered by four “AA” batteries
- Up to 20 hours continuous operation
- IR Printer Compatible
- Can use ‘B-Smart’ CO sensor

#BA0039

Now Available

Bacharach Reporting App

All new Intech analysers can now convert combustion readings to a QR code displayed on the screen with the touch of a button

Install the reporting app on your smartphone (Apple or Android) and use it to scan the QR code which transfers the data to your phone. Up to 100 records can be stored and emailed.

Older model Intechs can be upgraded to use this feature.

Contact SCE for full details of this great new feature

IR Printer

- Wireless infrared printer to suit Bacharach Flue Gas Analysers

#BA0018 DA

All analysers come complete with combined sampling hose and temperature probe, with water trap and filter.

COMBUSTION ANALYSIS

Bacharach Insight Plus
Residential Combustion Analyser

- 9 User selectable Fuels
- Stores up to 100 readings internally
- Uses 4 'AA' Batteries
- Manual or Auto CO zero feature
- Full colour LCD screen with backlight
- Programmable calibration reminder
- 2 year warranty on analyser
- 5 tools in one
- Room Air CO tester
- Flue Gas CO tester
- Digital Thermometer
- Digital Manometer
- Connects to PC with Fyrite software
- Can use B-Smart CO sensor

BA001XXXX

Bacharach True Spot Smoke Detector

The Bacharach True Spot Smoke Test Kit determines efficient combustion and is internationally recognised as the standard method for evaluating smoke density in the flue gases from distillate fuels. Too much smoke is one of the most common icauses of excessive fuel usage and expensive service requirements

#BA0505

PORTABLE GAS DETECTORS

Digitron

- Rubber protective boot as standard
- 45cm flexible probe
- Led illumination on sensing tip
- Audible, adjustable Tick rate with LED display
- 9 volt battery
- 10 ppm Methane sensitivity
- Solid Sate sensor
- Detects large range of gases

#DG-DGS-10

Tel : 09-636-1401 • Fax: 09-636-1525 • sales@systemcontrol.co.nz • www.systemcontrol.co.nz

PORTABLE GAS DETECTORS

Hand Held Carbon Monoxide Detector

- 0-999 ppm measuring range
- Resolution 1 ppm
- Auto Power off
- Back Light
- Uses 3 AAA batteries
- Low Battery Indicator
- Adjustable alarm level
- Calibration Mode

#HL7701

GAS FITTERS TEST KIT

Gas Fitters Test Kit

- Contains our three most popular instruments in a super strong carry case
- Digitron DGS-10 Gas Detector
- Hand Held CO detector
- Digitron PM-80 Manometer
- Water resistant, crush proof, dust proof, lockable case.
- Lifetime guarantee on case
- Case available separately

 # DG-TestKit

Digital Manometer Not Included

Instrument Carry Case

A smaller version of the above case for one or two instruments

- *Virtually indestructable case with a lifetime guarantee.*
- *Customisable Foam Interior*

 # DG-1200Y

FIXED GAS DETECTORS

DOMESTIC / COMMERCIAL

Seitron BEAGLE
Gas Leakage Detector

- Natural Gas
- LPG Gas
- Relay output for Solenoid Valve, Alarm, or BMS connection.

#SE0303 - Natural Gas
#SE0308 - LPG

Geca Carbon Monoxide Detector

- Carbon Monoxide Detector (CO)
- Test button
- Function lamps
- 240 VAC/ 12 VDC
- Relay Output
- Audible and visible alarm
- Calibrated to 50ppm
- Domestic or commercial

#GEC-752-CO

Sleep Safe Carbon Monoxide Alarm

- Sealed for life Battery
- Portable, free standing or mountable
- 6 year Guarantee
- 85 Decibel Alarm
- 3 colour visual display
- Test Function
- Certified to EN50291-1:2010
- Ideal for Homes / Boats / Caravans

#ARC-COA2

FIXED GAS DETECTORS

INDUSTRIAL

GECA CTR Gas Detector

- Natural Gas or LPG
- 3 Alarm Conditions
  4%, 10%, 20% LEL
- 2 Relay Outputs 10% & 20% LEL
- 4 Level LED Indication
- Requires GE.SE301 audible alarm

#GEC-CTR21-M Natural Gas
#GEC-CTR21-G LPG

GECA Gas Central Control Unit

- Up to 3 Independent Remote
  Sensors (Natural Gas or LPG)
- 230VAC or 12 Volt External Supply
- 4 Alarm Conditions
  4%, 8%, 10% & 20% LEL
- 2 Relay Outputs 10% & 20% LEL
- 6 Level LED Indication
- Requires GE.SE301 audible alarm

#GEC-CTP21

Remote Sensor for CTP 21

#GEC-ST441-M Natural Gas
#GEC-ST441-G LPG

FIXED GAS DETECTORS

INDUSTRIAL

City 408P Multi Gas Central Control

- Up to 4 remote sensors
- Mix and match sensors for different gases
- Programmable alarm levels
- 240VAC or 12VDC
- 4-20 mA outputs
- Can be retrofitted for up to 8 sensors
- Requires GEC-SE301 Audible alarm unit
-

#GE.CE408P

Remote Sensor for City 408P
#GEC-SI651KM Natural Gas
#GEC-SI651KG LPG
#GEC-SI652-CO Carbon Monoxide

GECA Audible Alarm

- Siren & Red Light Indication
- 115 Decibel Alarm
- 230volt AC Electrical Power
- Suitable For All GECA Gas detection equipment

#GEC-SE301

GAS SAFETY PROTECTION SYSTEMS

LH View

RH View

Gas Guard For multi-storey buildings, kitchens, boiler rooms, classrooms and laboratories

- Can be integrated with a wide range of fire alarm, gas detection and emergency stop devices
- Low gas pressure protection
- All valves AGA approved
- Available in pipe sizes 6-150mm
- Now with integral Estop
-

#L00400XX-KIT

Control Panel

See also:
Section 3 page 11 for
Emergency Stop buttons.

Manual Reset Module

- Provides manual reset control for emergency shut off valves
- Simple mounting
- Compact design
- Illuminated push button operation gives visual indication of valve control state

#L0020R

THERMAL PROTECTION SYSTEMS

Power Link Thermal Fuse

- Thermally operated
- 70°C fusing temperature
- Non resetting fuse
- Vented metal housing
- SPST contacts

#Z90004

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 5

IGNITION ELECTRODES / SENSORS

BRAHMA, CAST, CATOBA, NAMCO, POLIDORO, PSE, ROBERTSHAW, SIT, WHITE-RODGERS

IGNITION LEADS

ADVANCED WIRE & CABLE, PSE, ROBERTSHAW

PIEZOS

CONCENTRIC, JADE

IGNITION TRANSFORMERS

BRAHMA, SATRONIC

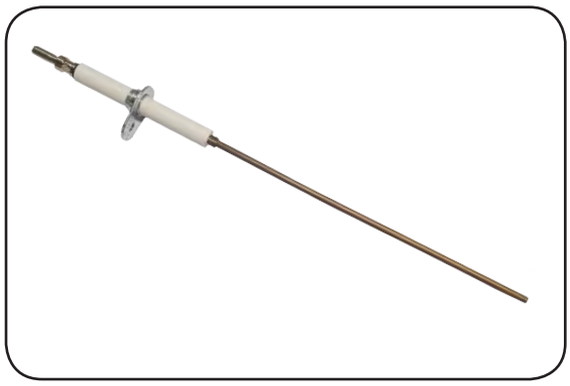
STEP DOWN TRANSFORMERS

FABTRONICS

MULTIPOINT IGNITORS

REGESSA, ZEC GROUP

IGNITION ELECTRODES / SENSORS



- Teardrop Bracket
- 50mm Porcelian
- 140mm Flame-Rod

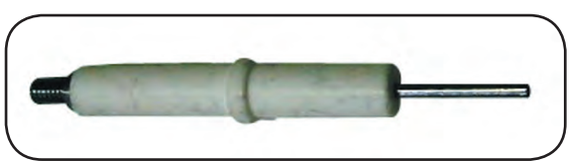
#B83450

Namco Direct Spark
- $^{1}/_{2}$" BSP
- 75mm Electrode
- Earth Electrode

#NR240-3203

- UY6
- For Namco 4021-12 Pilot Tip

#NR240-2465



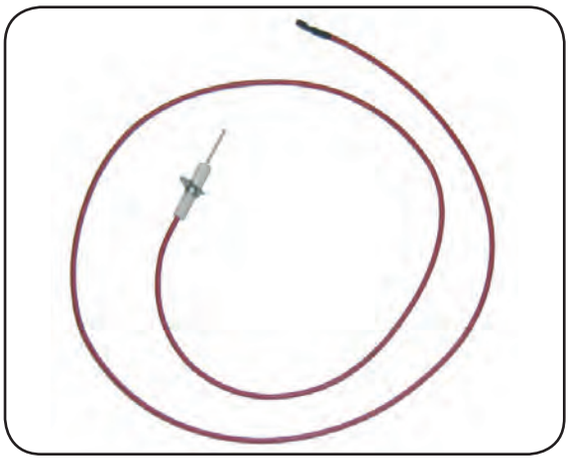
Flame Rod for Polidoro 525 Pilot

#P4016

- Ignition Electrode
  for Polidoro 525 Pilot

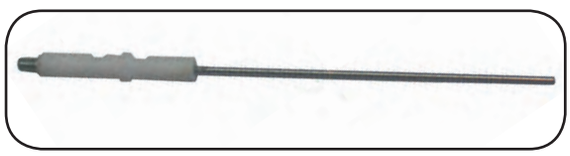
#P4030

IGNITION ELECTRODES / SENSORS



Robertshaw
- Spark plug and lead
- Length 550mm

#RS14060920



Universal Electrode
- 45mm porcelain body
- 100mm flame rod
- *Fits Catoba 3 way pilot & bracket*

#Z8020

Flame Rod / Ignitor
- 300mm x 6mm
- Optional clip and rubber boot
- 1/4" BSP,
  (M14 & M18 adapters available)

#Z8000

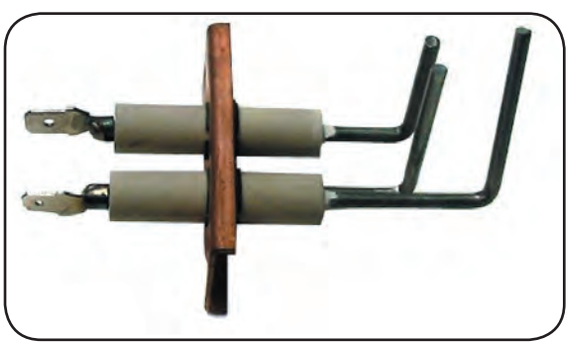
HT Connectors

Male

#DV 64070

Female

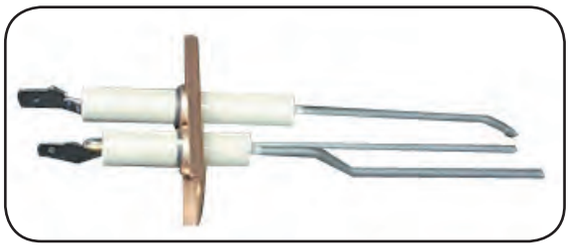
#DV 64055



PSE Electrode
- Combination Electrode / Sensor
- Earth Rod with Bracket
- 50mm Reach

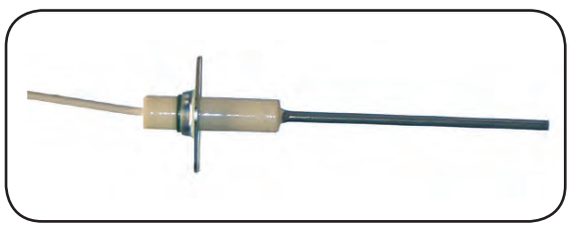
#PS0060

IGNITION ELECTRODES / SENSORS



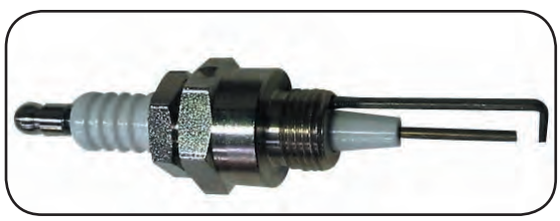
PSE Electrode
- Combination Electrode / Sensor
- Earth Rod with Bracket
- 100mm Reach

#PS0070



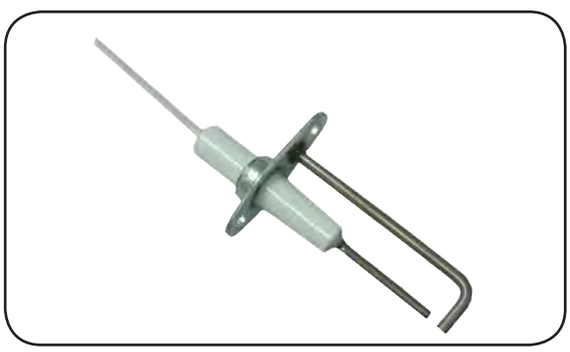
PSE Flame Sensor
- Diamond Bracket
- 40mm Porcelain
- 75mm Flame Rod
- 1m Lead with spade connector

#PS0042



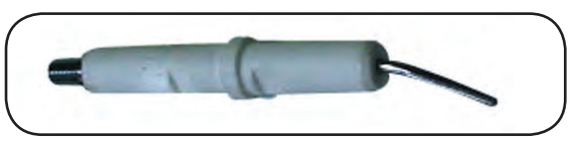
- M14 Thread
- 40mm Electrode
- Earth Electrode

#Z8008



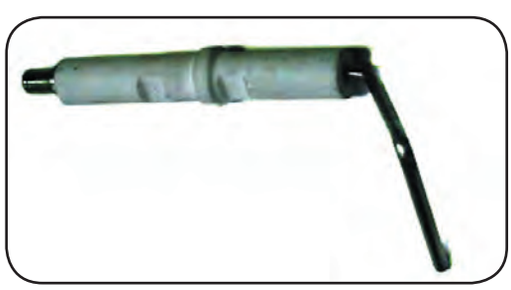
Universal Electrode c/w earth rod
- One assembly electrode and earth rod combined
- 36mm Long
- Mounting bracket
- Lead with spade connector

#Z8038



- Ignition Electrode For Catoba Pilot

#SI0915036



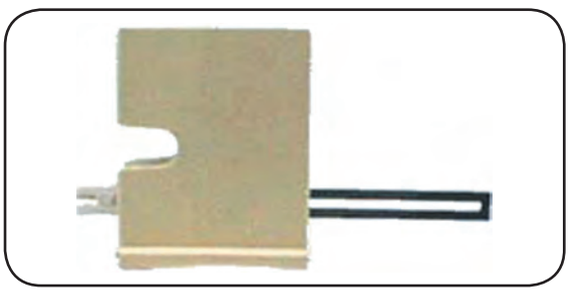
- Flame Rod For Catoba Pilot

#CG161418

HSI ELECTRODES

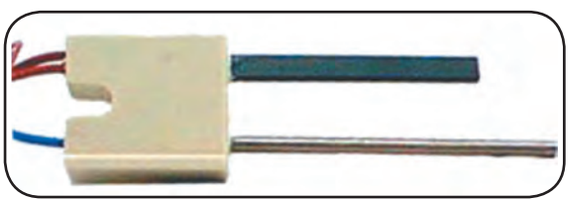
- Silicon Carbide Igniter
- Metal Shield
- 24 volt AC

#W0419



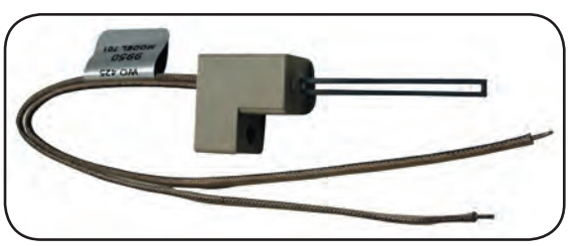
- Silicon Carbide Igniter
- Metal Shield
- 240 volt AC

#W0420



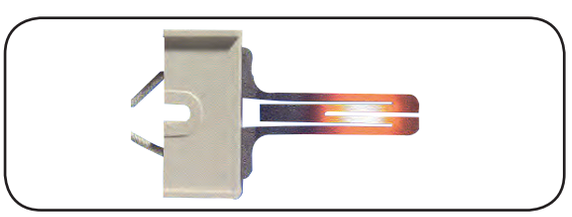
- Silicon Carbide Igniter
- Flame Rod
- 240 volt AC

#W0423



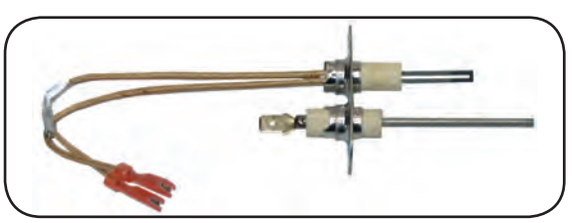
- *Silicon Carbide Ignitor*
- *240 volt AC*

#W0425



- Silicon Carbide Igniter
- 110 volt AC

#W0426



- Silicon Carbide Igniter & Flame Rod
- 24volt AC

#W2014

IGNITION LEADS

- Various Lengths
- 1 x Female Connector for Piezo
- 1 x Female Connector for Ignition Electrode

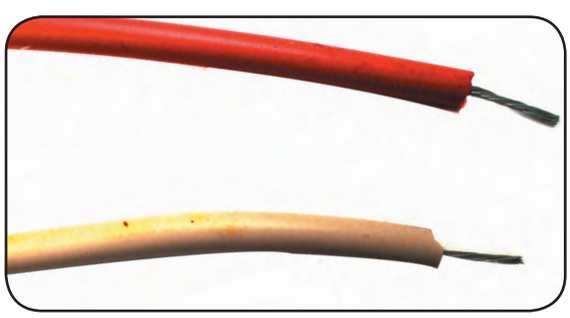
#L6005 - 650mm
#L6006 - 1000mm
#L6007 - 1500mm

- M x F
- 400mm

#L6046

H.T Cable
- 7mm Silicone HT Cable
- Wire Conductor
- 150°C Rated
- By the metre

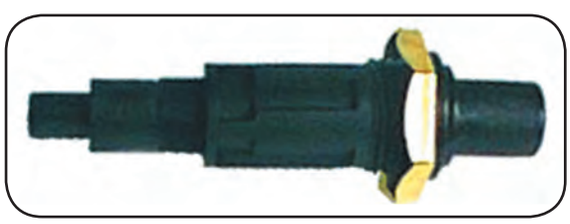
#Z2205



- 3.5mm
- Wire Conductor
- 150°C Rated
- By the metre

#Z2195 (Red)
#Z2195W (White)

PIEZOS



#CC03500

IGNITION TRANSFORMERS

Brahma T13M
- 100% Rating
- Wire Wound
- 240 volt AC
- 1 X 8Kv Output
- Side Entry

#B0118

Brahma T17M
- 100% Rating
- Wire Wound
- 240 volt AC
- 2 X 5Kv Output
- Side Entry

#B0140

Brahma T11M
- 33% Rating
- Wire Wound
- 110 volt AC
- 1x9Kv Output
- Side Entry

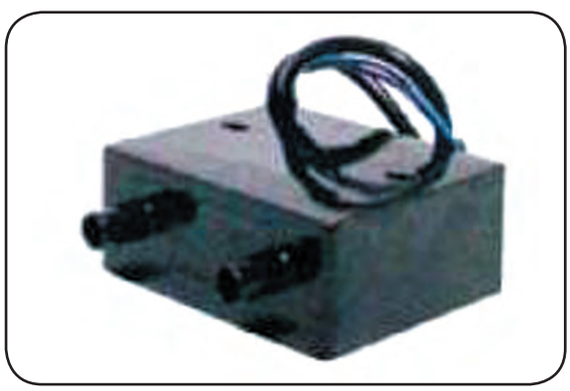
#B0215

Brahma TSC1
- 100% Rating
- Electronic
- 240 volt AC
- 1x15Kv Output
- Top Entry
- Push on Spade Terminals

#B0504

Brahma TC1
- 100% Rating
- Electronic
- 240 volt AC
- 1X15Kv Output
- Side Entry

#B0531



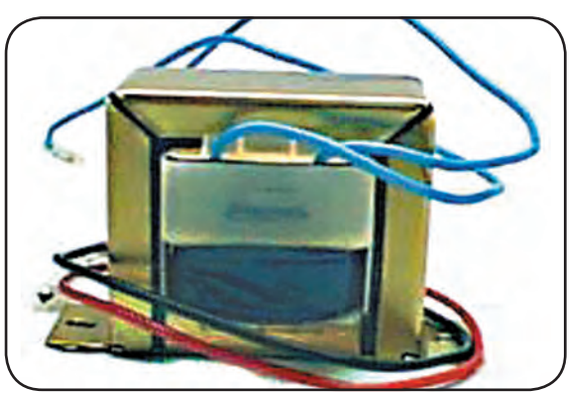
Brahma TC2
- 100% Rating
- Electronic
- 240 volt AC
- 2x12Kv Output
- Side Entry

#B0560

Satronic ZT0812
- 25% Rating
- 240 volt AC
- 1x10Kv Output
- Side Entry
- Complete with 1m HT Cable

#SA1260001

STEP DOWN TRANSFORMERS



24 to 240 volt AC
- 1.75 amp
- Compact size
- Solid structure

#Z0305

MULTIPOINT IGNITORS

- 1.5 volt DC
- Push Button Operation
- Battery Enclosure
- Single/Double point outlet

#S9-RG01010

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 6

BURNER CONTROLS - INTEGRAL IGNITION

BRAHMA, RAM, FENWAL

BURNER CONTROLS - PROGRAMMED

BRAHMA, KROMSCHRODER, SIEMENS, SATRONIC,

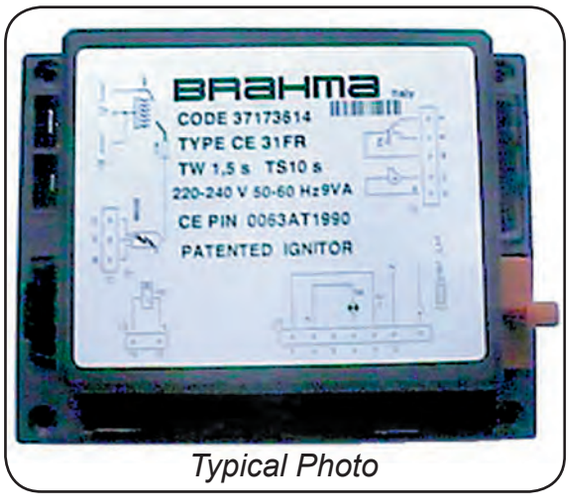
BURNER CONTROL - SEMI AUTOMATIC

BRAHMA, KROMSCHRODER, PACTROL, SATRONIC

FLAME DETECTORS

BRAHMA,KROMSCHRODER, SIEMENS, SATRONIC

BURNER CONTROLS WITH INTEGRAL IGNITION



Typical Photo

Brahma CE11 U MICROFLAT

- Restart attempt
- Plug in electrical connections
- Single gas valve
- Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Ionization flame electrode control
- 240 or 110 volt AC

#B1150

Complete with connecting pins and plugs for you to wire.

Wiring kits available, pre wired, no crimping needed Inquire for details

Brahma CM11 U MICROFLAT

- Restart attempt
- Plug in electrical connections
- Single gas valve
- Non Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Ionization flame electrode control
- 240 or 110 volt AC

#B1152

Brahma CE12 U MICROFLAT

- Restart attempt
- Plug in electrical connections
- Pilot / Main Gas (2 valves)
- Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Ionization flame electrode control
- 240 or 110 volt AC

#B1154X

Brahma CM12 U MICROFLAT

- Restart attempt
- Plug in electrical connections
- Pilot / Main Gas (2 valve)
- Non Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Ionization flame electrode control
- 240 or 110 volt AC

#B1154

Brahma CE31 U MICROFLAT

- Restart attempt
- Plug in electrical connections
- Single gas valve
- Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Ionization flame electrode control
- 240 or 110 volt AC
- Air pressure Proving / Fan

#B1156

Non Volatile Lock out versions require an external re set button to reset.

Brahma CM31 U MICROFLAT
- Restart attempt
- Plug in electrical connections
- Single gas valve
- Non Volatile lock-out
- Pre-purge 1.5 seconds
- Flame failure safety time 10 seconds
- Remote flame failure reset push button
- Ionization flame electrode control
- 240 or 110 volt AC

#B1156

Brahma CM32 EUROFLAT
- Restart attempt
- Plug in electrical connections
- Pilot and Main gas valves
- Non Volatile lock-out
- Pre-purge - 5 or 30 seconds
- Flame failure safety time - 5 seconds
- Remote flame failure reset
- Ionization flame electrode control
- 240 or 110 volt AC
- Fan control with air pressure proving

#B1164

Note: Plugs and pins as standard on all Brahma Microflat controllers. Wiring kits available for all Brahma Microflat controllers

White-Rodgers 50A72 HSI Control
- Plug in connectors
- Re-start attempt
- Single gas valve
- Flame sensor
- Hot surface ignitor
- LED Indicator
- 240 volt AC
- Suitable for Rheems hot water cylinders

#W0212

RAM 3EM 10-07 CONTROL
- Plug in electrical connectors
- Single valves
- Re- Start attempt
- Volatile lock-out
- Flame failure safety time - 5 sec
- Single sensor Ionization / Ignition
- LED operation indication diagnostics
- 24 volt AC
- Fan control with Air Pressure Proving
- Wiring kit available (#RAM0110K)

#RAM0112

RAM 5EM 7-01 CONTROL
- Plug in electrical connectors
- Pilot / Main valves
- Re- Start attempt
- Volatile lock-out
- Flame failure safety time - 5 sec
- Separate sensors for Ionization / Ignition
- LED operation indication diagnostics
- 24 volt AC
- Wiring kit available (#RAM0160K)

#RAM0160

FENWALL BURNER CONTROL C/W WIRING LOOM

- 12 VDC
- Integral Ignition transformer
- Inter purge time 25 seconds
- Trial for ignition time (TFI) 10 seconds

FW-35-53056-035

PROGRAMMED OIL & GAS BURNER CONTROLS

RIELLO

System Control carry a full range of burner controls to suit the Riello brand of burners.
We endeavour to have most brands of commonly used burner controls available.
Special requirements are availble on indent.
Riello Siemens
RMO88.53A1 LMO88.530A1RL
RMO88.53A2 LMO88.530A2RL
RMG88.62A1 LMO88.620A1RL
RMG88.62A2 LMO88.620A2RL
RMG/M88.62A2 LMO88.621A2RL

SIEMENS

elster Kromschröder

satronic

PROGRAMMED OIL & GAS BURNER CONTROLS SIEMENS

A full range of available Siemens controllers can be supplied by SCE contact us to discuss your requirements.

Siemens LFL1.635 CONTROL
Forced draught modulating
gas burner control

- Plug in base (Z3013)
- Pilot / Main gas valves
- Remote reset / Flame failure indicator
- Pre-purge 60 seconds, (30 seconds LFL1.335)
- QRA UV cell / ionization control
- Flame failure safety time - 5 seconds
- Air pressure proving / Fan control
- Fault indication
- 240 or 110 volt AC

#SBLFL1.635 (#SBLFL1.335)

Siemens LOA 24.171B27

- Atmospheric Gas burner control
- Plug in base (Z3061)
- Remote reset / Flame failure indicator
- 2 Stage operation
- Post ignition time 10 seconds
- QRB flame detector
- 240 volt AC

#SBLOA24.171B27

Siemens LMO/LMG series control
Microcontrol based burner controls for single or multistage burners forced draft gas and oil burners in intermittent operation
Suitable for burners firing above 30 kg/h Oil (LMO) and 120kW Gas (LMG)

Riello	Siemens
RMO88.53A1	LMO88.530A1RL
RMO88.53A2	LMO88.530A2RL
RMG88.62A1	LMO88.620A1RL
RMG88.62A2	LMO88.620A2RL
RMG/M88.62A2	LMO88.621A2RL

Siemens LGB 21 350 A27 CONTROL

- Forced draught / atmospheric gas / oil burner control
- Plug in base (C16800)
- Pilot / Main gas valves
- Single or two stage operation
- Remote reset / Flame failure indicator
- Pre-purge 30 seconds
- QRA UV cell / ionization control
- Air pressure proving / Fan control
- Fault indication
- 240 volt AC

#SBLGB21.350A27

If used in atmospheric application then AGK 25 (Z3064) PTC resistor must be fitted across terminal 3 and neutral

PROGRAMMED OIL & GAS BURNER CONTROLS SATRONIC/HONEYWELL

Satronic TF801- OIL BURNER CONTROLLER

- Oil burner control
- Plug in base (SA7531001)
- Single stage operation
- FZ 771 / IRD 1010 / UVD 970 Flame detector
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

#SA02001

Satronic TF802- OIL BURNER CONTROLLER

- Oil burner control
- Plug in base (SA7531001)
- 2 stage operation
- FZ 771 / IRD 1010 / UVD 970 Flame detector
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

#SA02404

PROGRAMMED OIL & GAS BURNER CONTROLS

Satronic TF830.3 - OIL BURNER CONTROLLER

- Oil burner control
- Plug in base (SA7531001)
- Single stage operation
- MZ 770S / UVD 970 Flame detector
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

#SA02231

Satronic TF832.3 - OIL BURNER CONTROLLER

- Oil burner control
- Plug in base (SA7531001)
- 2 stage operation
- MZ770S / UVD 970 Flame detector
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

#SA02431

OBSOLETE USE *#SA0312005*

DKO 972 MOD.5 OIL BURNER CONTROLLER

- Plug in Base (SA7531001)
- 2 Stage Operation
- MZ 770/UVD 970 flame detectors
- Pre- Purge 15 seconds
- Safety Time 5 seconds
- Post Ignition time (afterV1) 7 seconds
- Delay time to V2 20 seconds.
- Pre Purge 15 seconds

#SA0312005

Satronic TF834.3 - OIL BURNER CONTROLLER

- Oil burner control
- Plug in base (SA7531001)
- 2 stage operation
- MZ 770S / UVD 970 Flame detector
- Pre - purge 12 seconds
- Post ignition time 2 - 5 seconds
- Manual reset from lockout
- 240 volt AC

#SA02234

Satronic DKG 972 MOD 5

- Atmospheric Gas burner control
- Plug in base (SA7531001)
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- 2 Stage operation
- Flame failure safety time - 5 seconds
- UV Cell or ionization control
- 240 volt AC

#SA0332005

Satronic DMG 970.MOD03

- Forced draught gas burner control
- Plug in base (SA7531001)
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- 2 Stage operation
- Pre-purge - 40 seconds
- Flame failure safety time - 3 seconds
- UV Cell or ionization control
- 240 volt AC

#SA0350003

Satronic MMI 810.1 MOD 43

- Forced draught gas burner control
- Plug in base (SA7531001)
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- 2 Stage operation
- Pre-purge - 40 seconds
- Flame failure safety time - 3 seconds
- UV Cell or ionization control
- 240 volt AC

#SA0622520

Satronic MMI 962.1 MOD 43

- Forced draught gas burner control
- Plug in base (SA7531001)
- Pilot / Main gas valve
- Air damper motor terminals
- Remote reset / Flame failure indicator
- Pre-purge - 40 seconds
- Flame failure safety time - 5 seconds
- UV Cell or ionization control
- 240 volt AC

#SA06256

Satronic MMG 810.1 MOD 45

- Forced draught gas burner control
- Plug in base (SA7531001)
- Pilot / Main gas valve
- Remote reset / Flame failure indicator
- 2 Stage operation
- Pre-purge - 40 seconds
- Flame failure safety time - 5 seconds
- UV Cell or ionization control
- 240 volt AC

#SA0642620

Satronic MMG 870.1 MOD 65

- Forced draught gas burner control
- Plug in base (SA7531001)
- Pilot / main gas valve
- Remote reset / Flame failure indicator
- Pre-purge 65 seconds
- Flame failure safety time - 5 seconds
- UV cell or ionization control
- 240 volt AC

#SA0642120

Satronic TMG 740-3 MOD 43-35

- Forced draught modulating gas burner control
- Plug in base (SA70205)
- Pilot / Main gas valve
- Air damper motor terminals
- Remote reset / Flame failure indicator
- Pre-purge - 32 seconds (60 seconds Mod 63-55)
- Flame failure safety time - 5 seconds
- UVZ 780 Cell / ionization control
- 240 volt AC

#SA08218
(#SA08213, TMG 740-3 Mod 63-55)

Satronic TMO 720-4 Mod 35

- Oil burner control
- Plug in base (SA70201)
- Remote reset / Flame failure indicator
- Pre-purge - 32 seconds
- Post ignition time - 7.5 seconds
- FZ 771 / IRD 1010 infra red flame detector
- 240 volt AC

#SA08001

Satronic Small Control Base

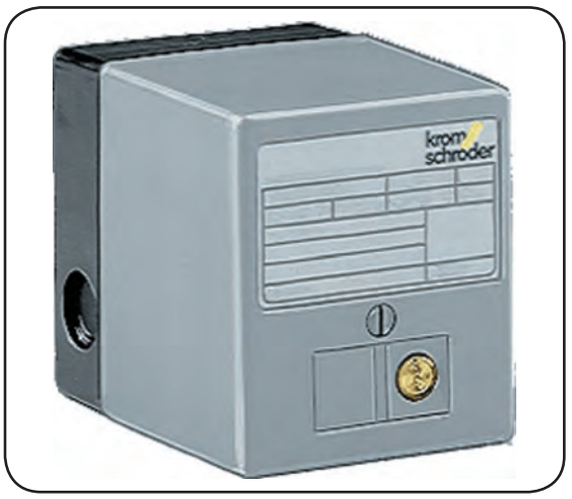
#SA7531001

Cable Style cable insert

#SA70503

Gland Style cable insert

#SA70502



Kromschroder IFW 15 CONTROL

- 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
- Use in conjunction with KR28086, IFS 110-IM control

#KR28162

Kromschroder IFS 110-IM CONTROL

- Forced draught gas burner control
- Plug in base
- Pilot / Main Gas Valves
- Remote reset / Flame Failure Indicator
- Pre-Purge 5 seconds
- Flame Failure Safety Time - 5 seconds
- Single electrode / UV Cell
- 110/240 volt AC

#KR28086

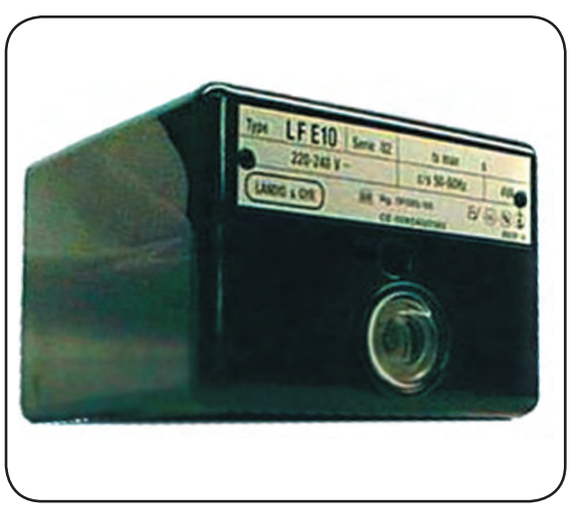
SEMI AUTOMATIC BURNER CONTROLS

Brahma RE3 CONTROL
- Plug in base
- UV Cell or Flame Rod sensing
- Green light - Power on
- Red light - Flame on
- Two electrical change-over contacts
- 240 volt AC

#B1115

Satronic FFW 930.1 CONTROL
- Plug in base
- UV Cell or Flame Rod sensing
- Flame on indication
- Two electrical change-over contacts
- 240 volt AC

#SA0690320



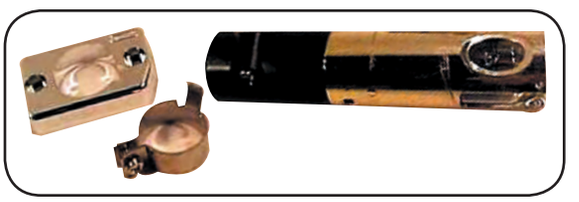
Siemens LFE 10 CONTROL
- Plug in base
- UV Cell - Series QRA*
  or Flame Rod sensing
- Electrical open contact
- Electrical closed contact
- 240 volt AC

#Z3050

FLAME DETECTORS

Siemens QRA4U
- Flame detector (Oil & Gas)

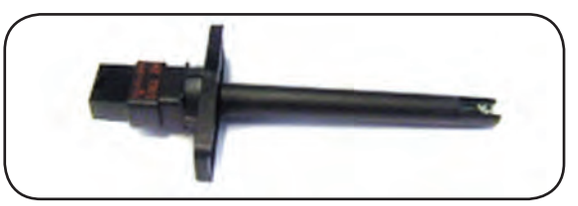
#SBQRA4.U



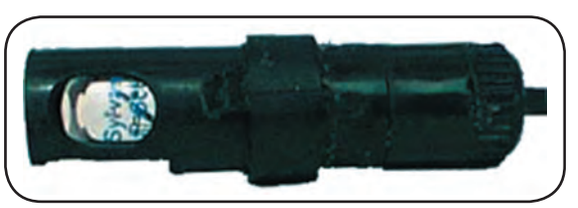
Siemens QRA2
UV Detector (for gas)
#SBQRA2[1]

Siemens RAR9
Photo cell (for oil)
#SBRAR9[1]

Siemens QRB 1
Photo cell (for oil)
#SBQRB1....specify full code



Satronic MZ 770 S
Photo cell (for oil) Requires SA59101, mounting flange & SA7225001, two wire cable
#SA50001



Brahma UV1
UV Detector (for gas)
#B1190

System Control Engineering NZ Ltd

For Gas Combustion & Control Equipment

Section 7

DIGITAL MANOMETERS

DIGITRON

“U” TUBE MANOMETERS

SCE

PRESSURE TEST BLADDERS

SCE

PRESSURE GAUGES

TELTHERM

PRESSURE TEST POINTS

BRAHMA, LINKS

PRESSURE TEST NIPPLES

SCE

GAS FLOW METERS

ELSTER, LANDIS+GYR

GAS FITTERS TEST KIT

SEE ALSO SECTION 4

MANOMETERS

DIGITAL

Digitron PM-80
13kPa Digital Manometer
- Differential input - 8mm hosetails
- Water resistant (IP67 rated)
- Rugged case with protective rubber boot
- Magnetic attachment or tilt stand
- Auto power off after 12 minutes
- 0-13kPa measurement
- Selectable measurement unit options: kPa, mBar, PSI, “WG, etc
- C/W 1m silicon tube

#DG-PM80KIT

Digitron 2022P
2 Bar Digital Manometer
- 0-200kPa
- Differential input - high pressure connectors
- Selectable measurement unit options: kPa, mBar, PSI, “WG, etc
- Protective rubber boot c/w tilt stand and connection kit available.

#DG-2022P - Manometer only
#DG-2022PKIT - Includes manometer, boot, high pressure hose and connections
*Other pressure ranges available on request.

U-TUBE

U-Tube Manometer
Comes with:
- Hanging chain
- Plastic tubing 0.8m
- Protective front cover
- Bottle of coloured liquid

#Z0103 - 3kPa
#Z0107 - 8kPa

U-TUBE

Pressure Test Bladder Kit
Comes with:
- Hand pump
- 3-way tee
- Plastic tubing

#Z0131

GAUGES

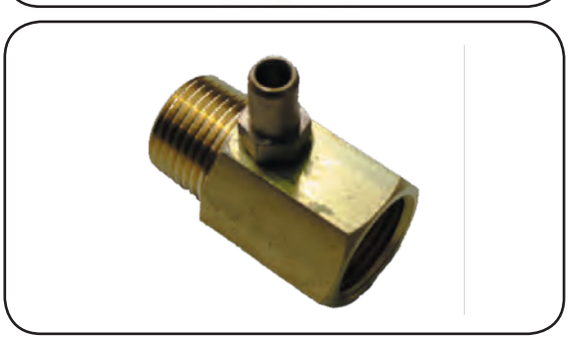
- 63mm Dial
- Oil Filled
- Stainless Steel Case
- Brass Movement
- 1/4 BSP Bottom Entry
- Dual Scale PSI & kPa

#Q2541	*0-6 kPa*
#Q2542	*0-10 kPa*
#Q2544	*0-25 kPa*
#Q2545	*0-40 kPa*
#Q2510	*0-100 kPa*
#Q2500	*0-250 kPa*
#Q2514	*0-600 kPa*
#Q2515	*0-1600 kPa*

PRESSURE TEST POINTS

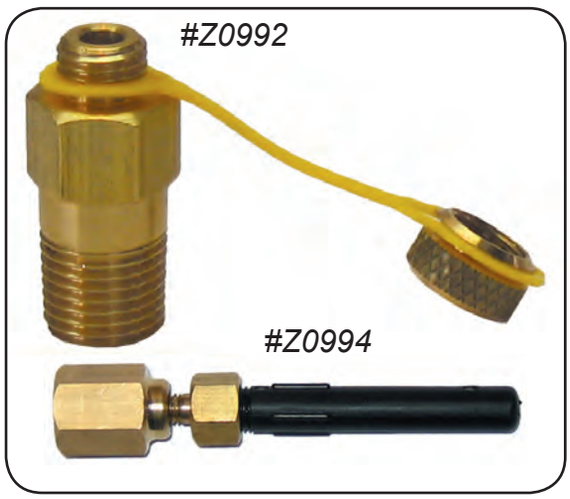
Brass Test Point
- Screwed needle seal
- Orifice: 0.7mm to meet AGA standards
- 1/8" and 1/4" BSP sizes available

#B0990 - 1/8" BSP
#B0991 - 1/4" BSP



Test Nipples
Ideal for testing regulator outlet pressure
- 1/2 & 3/4" available
- Male / female
- Complete with test point

#Z0997, 1/2"
#Z0998, 3/4"



Pete's Plug

- 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
- Brass bodied
- 1/4" BSP

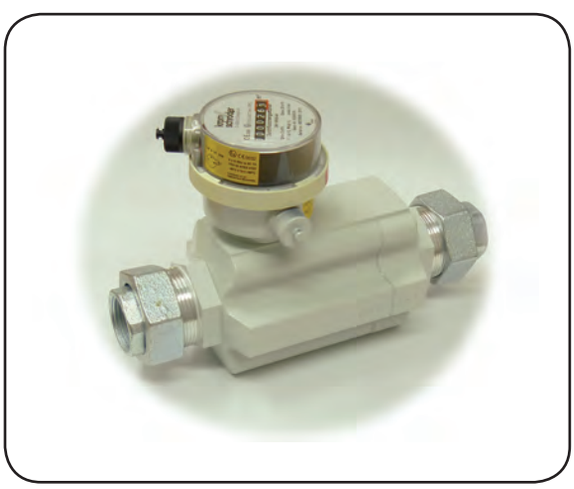
#Z0992

Pete's Plug Gauge Adaptor

- The pressure gauge adaptor has a probe made of 304 stainless steel
- The probe is 1.6mm in diameter and extends 2" on the standard adaptor

#Z0994

GAS METERS



#KR6606Q - 1-16m³/h
#KR6608Q - 1.6-25m³/h
#KR6610Q - 2.5-40m³/h
#KR6612Q - 4-65m³/h
#KR6614Q - 5-65m³/h
#KR6620Q - 6-100m³/h
#KR6622Q - 10-160m³/h
#KR6624Q - 13-250m³/h
#KR6626Q - 25-400m³/h
#KR6628Q - 32-650m³/h
#KR6630Q - 32-650m³/h
#KR6632Q - 50-1000m³/h

Elster Turbine Meters QA or DM series

25mm to 40mm
Threaded connection
16m3/h to 65m3/h

50mm-150mm
Flanged connection
(PN16 wafer)
100m3/h to 1600m3/h

- Accurate to +/- 1.5% at max flow
- Suitable for air up to 1600kPa and gas up to 400kPa
- Integral high and low frequency pulse transmitters for remote flow indication and totalising
- Can link with BMS systems
- IP 54 rated, may require some weather protection.
- Pulse Output Converters available to allow live consumption monitoring. Converts pulse output to m3/h.
- Contact SCE for sizing and technical information.

GAS METERS

- **Landis + Gyr Model 750 Meter**
- Aluminium case
- Low frequency pulse output available. (Can be retrofitted)
- Maximum pressure 50 kPa
- Capacity 7.5m³/h or 10.0m³/h
- Suitable for LPG or Natural Gas

#KR6602 7.5m³/h
#KR6602-610 10.0m³/h

Brackets and Connection Sets

Wall Bracket c/w 20mm tails
#KR6602BAR - 20mm

Tail Set 20mm
#*KR6602N*

Pulse Generator
#KR6602P

Test Plug to suit 750 Meter
#KR6602Plug

- **AMCO Meters**
- AL 425-10
- Capacity12 m3/h @ 2kPa
- Model with low frequency pulse output index available to order
- Maximum Pressure 70 kPa
- AL 425-25 170kPa model available
- Suitable for LPG or Natural Gas
- C/W 32mm outlet connection set

#KR6603

add #KR6603P for pulse output

Meter Cover
- To suit 750 Meter
- Powder Coated Steel (White)
- Galvanised wall bracket

#KR6602COVER

PIETRO FIORENTINI GAS METERS

Pietro Fiorentini
- G4 Gas Meter
- C/W Pulse output
- CE approval 2004/22/CE
- Conforms to EN1359:1998/A1:2006
- Powder Coat finish
- Natural Gas or LPG#
- 6 m3/h Capacity
- 50 kPa maximum pressure.

 # PF-RS2001LA-G4P

Pietro Fiorentini
- G6 Gas Meter
- C/W Pulse output
- CE approval 2004/22/CE
- Conforms to EN1359:1998/A1:2006
- Powder Coat finish
- Natural Gas or LPG#
- 10 m3/h Capacity
- 50 kPa maximum pressure.

#PF-RS2.4-G6P

DIGITAL THERMOMETERS

LCD Multi Thermometer

- Max/Min Function
- 125mm Stainless Steel probe
- Hold Function
- Auto Power Off
- Range -50°C to +300°C
- Accuracy +/-1.0°C
- 1 x AAA Battery
- Alarm Mode

#VTCDPT

Digital Alarm Thermometer

- Max/Min Memory
- 125mm Stainless Steel probe
- Data Hold Function
- Auto Power Off
- Range -50°C to +200°C
- Accuracy +/-2.0°C
- 1 x AAA Battery
- High/Low Alarm Mode
- Fold away stand

#PRRT-905A

Section 8

SERVO MOTORS

BRAHMA, SIEMENS,

ACTUATORS

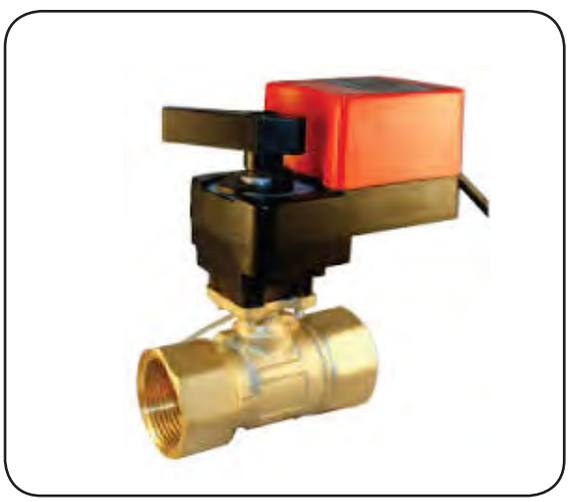
BELIMO, KROMSCHRODER

ACTUATORS AND SERVO MOTORS

Belimo HVAC damper actuators

Various voltages and control options

Please contact SCE
for specifications & availability



Nenutec Disc Ball Valves

- Used in HVAC systems for water or steam flow control
- 2 way 3 way
- Forged brass body
- High close off pressure

Please contact SCE
for specifications & availability

Landis & GYR SQN Motors

Please contact SCE
for specifications & availability

KROMSCHRODER GT31 AND GT50 SERIES ARE NO LONGER AVAILABLE USE KROMSCHRODER IC20 OR IC40 SERIES SEE BELOW

Kromschroder IC 20 Series

- 0 - 90^{O} Movement
- 240 or 120 volt AC Supply
- Automatic or manual operation
- Three point step signal control
- IP 65 enclosure
- 7.5 - 60 seconds running time
- Directly mountable to BVA & BVG model butterfly valves
- External readable position indicator
- “E” model available with electronic 4 - 20mA card

#KR1952130

Kromschroder IC 40 Series

- 0 - 90^{O} Movement
- 240 or 120 volt AC Supply
- Automatic or manual operation
- Three point step signal control
- IP 65 enclosure
- 7.5 - 60 seconds running time
- Directly mountable to BVA & BVG model butterfly valves
- External 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 4 - 20mA card

#KR1954320

Section 9

PRESSURE SWITCHES - GAS

KROMSCHRODER, ANZ

PRESSURE SWITCHES - AIR

KROMSCHRODER, WHITE-RODGERS

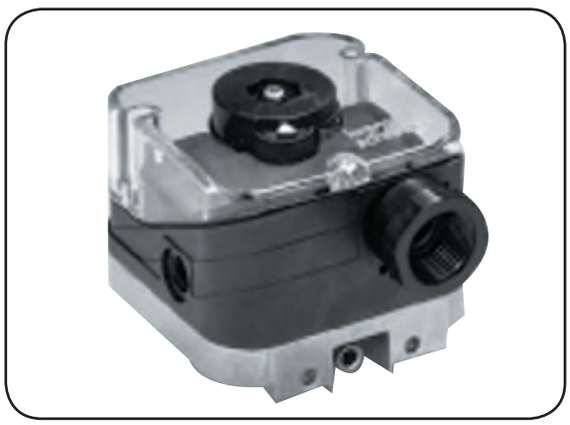
PRESSURE SWITCHES -DUCT

WHITE-RODGERS

LEAKAGE DETECTION SYSTEMS

, KROMSCHRODER

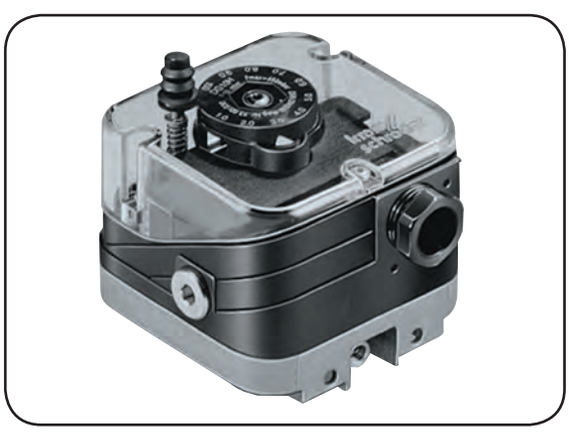
AIR, GAS & DUCT PRESSURE SWITCHES



Kromschroder U Series (Gas & Air)

- Differential, Positive and Negative Pressure

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



Kromschroder H Series (Gas & Air)

- Manual Reset
- Locks off with rising pressure
- AGA approval number 5484

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

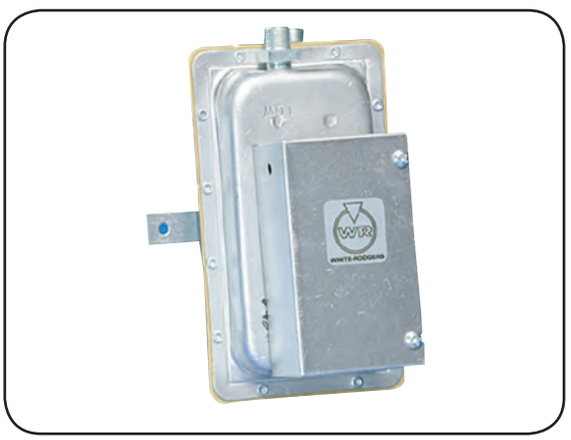
Kromschroder N Series (Gas & Air)

- Manual Reset
- Locks off with falling pressure
- AGA approval number 5484

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

Kromschroder DL3A-3 (Air)
- Control of air as low pressure cut of and as limiting switch
- Adjustable for postive, negative and differential pressure
- 0.2-3mbar
- Max 150mbar

#KR20138



White Rodgers 770-1 (Air)
- SPDT switch that can be actuated by a positive, negative or a differential pressure with a field adjustable operating range
- 0.175-30mbar

#W0202

ANZ Controls (Gas)
- 10-100Kpa Adjustable pressure switch
- Ideal for LPG change over Systems
- 1/8 BSP
- Includes protective cap
- N.C Contact

#AN0167

LEAKAGE DETECTION SYSTEMS

Kromschroder TC 318 R05 T
- Inbuilt pressure sensor
- Fitted with 2 control gas valves
- External mounting
- 50kPa rating
- 240 / 110v AC, 24v DC
- AGA approval number 4581

#KR3220

LEAKAGE DETECTION SYSTEMS

Smoke Matches
- Pack of 25
- 25 second burn time
- 0.75 m3 of smoke per match

#Z0135

Smoke Pellets
- Tube of 6
- 40 Second burn time.
- 18 Cubic Metres of Non-Toxic Smoke

#ARC-PH001

Gas Leak Detector Spray
- Practical & economical
- Suitable for all gasses (flammable & non-flammable)
- Non flammable
- Non toxic
- Complies with strict environmental standards.

#SMRVS100401

See Section 4 Page 7 for Details of our 'Gas Guard ' System

Section 10

REGULATORS - NATURAL & LP GAS

BROMIC, JEAVONS, PIETRO FIORENTINI

OVER PRESSURE PROTECTION SYSTEMS

PIETRO FIORENTINI, JEAVONS, KROMSCHRODER,

REGULATORS - LP GAS

1ST STAGE

FISHER, REGO

2ND STAGE

PIETRO FIORENTINI, COMAP, FISHER, REGO

TWIN STAGE

CAVAGNA, FISHER, REGO

1ST STAGE AUTO CHANGEOVER

HWA YOUNG

TWIN STAGE AUTO CHANGEOVER

BROMIC, HWA YOUNG

AIR/GAS RATIO CONTROLS

KROMSCHRODER, NAMCO

GAS FILTERS

PIETRO FIORENTINI, KROMSCHRODER

ACCESSORIES

BROMIC, KEEFER

NATURAL GAS REGULATORS

APPLIANCE REGULATORS

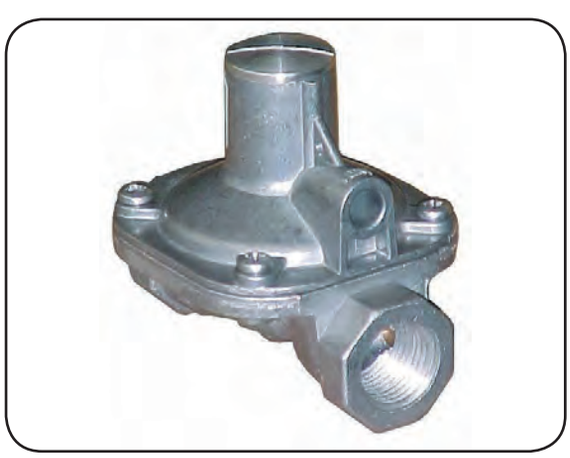
Bromic Appliance Regulators
- 5kPa maximum inlet pressure
- 0.75 - 1.5 kPa adjustable outlet
- Test point
- 75 mJ/hr
- 3/8 & 1/2” bsp available

#BM6160593, 3/8”
#BM6160595, 1/2”

Available with optional 2 kPa outlet spring *#BE-2341-00,1/2”*

Bromic 980L Appliance Regulator
- 5kPa maximum inlet pressure
- 0.75 - 1.5 kPa adjustable outlet
- 250 mJ/hr
- 3/4” bsp

#BM6160788



Jeavons Appliance Regulators
- 10 kPa maximum inlet pressure
- 0. 5 - 1.7 kPa adjustable outlet
- 1/4, 3/8 & 1/2” bsp available
- 85 mJ/hr - 1/4”
- 90 mJ/hr - 3/8”
- 160 mJ/hr - 1/2”

#J0081, 1/4”
#J0082, 3/8”
#J0083, 1/2”

STEP DOWN REGULATORS

Pietro Fiorentini

Pietro Fiorentini 300 Series

- Stepdown Regulator for general applications
- Safety Diaphragm
- Balance shutter
- High flow rates
- Powder coat finish
- 50 kPa maximum inlet pressure
- Range of outlet springs available up to 70mbar
- 3/4 - 2" bsp available

Jeavons J78 Equivalent
#PF-30051, 1/2"
#PF-30052, 3/4"
#PF-30053, 1"

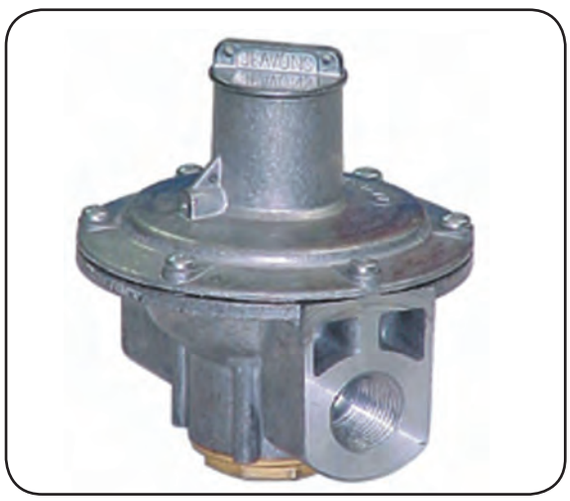
Jeavons J48 Equivalent
#PF-30151, 3/4"
#PF-30152, 1"
#PF-30154, 1 1/2"
#PF-30155, 2"

While regulators are robustly made and finished all manufactuers recomend that some degree of weather protection is fitted.
In particular vent ports should not be installed in such a way that moisture can enter the inside of the regulator

NOTE: For inlet pressures over 7kPa downstream overpressure protection may be required

STEP DOWN REGULATORS

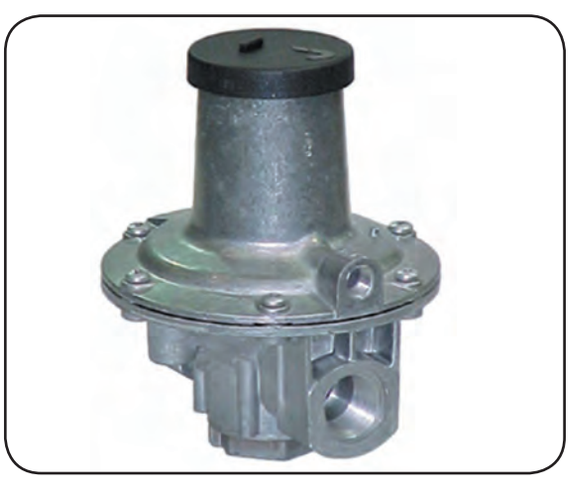
ELSTER Jeavons



Jeavons J78 Regulators
For large domestic / small commercial applications

- 10 kPa recomended maximum inlet pressure
- Range of outlet springs available from 6mbar to 42mbar
- 1/2, 3/4 & 1” bsp available
- Up to 1200mJ/hr

#J0001, 1/2”
#J0002, 3/4”
#J0003, 1”



Jeavons J48 Regulators
For large commercial applications

- 35 kPa maximum inlet pressure
- Range of outlet springs available from 6mbar to 100mbar
- 3/4 - 2” bsp available
- Up to 18,500mJ/hr

#J0005, 3/4”
#J0006, 1”
#J0007, 11/4”
#J0008, 11/2”
#J0009, 2”
21/2 & 3” available flanged, indent only

NOTE: For inlet pressures over 7kPa downstream overpressure protection may be required

OVER PRESSURE PROTECTION SYSTEMS

Pietro Fiorentini

Pietro Fiorentini FE/FES series

- Balanced Double stage
- low- medium pressure
- internal relief
- Maximum inlet pressure 8.6 bar
- Outlet pressure range 1.3-18 kPa
- OPSO range 3.5-30 kPa
- FE25 Flow rate up to 25m3/h @ 30 kPa inlet pressure
- FES Flow rate up to 50m3/h @ 50 kPa inlet pressure
- Inlet 1/2" Outlet 1"

#PF-FE25BP-(specify outlet pressure)
#PF-FESBP- (specify outlet pressure)

Pietro Fiorentini FEX/FEXS Series

- Balanced Double stage
- low- medium pressure
- internal relief
- Maximum inlet pressure 8.6 bar
- Outlet pressure range 1.3-10 kPa
- OPSO range 3.2-16 kPa
- FEX Flow rate up to 75m3/h @ 45 kPa inlet pressure
- FEXS Flow rate up to 100m3/h @ 50 kPa inlet pressure
- Inlet 1" Outlet 1 1/2"

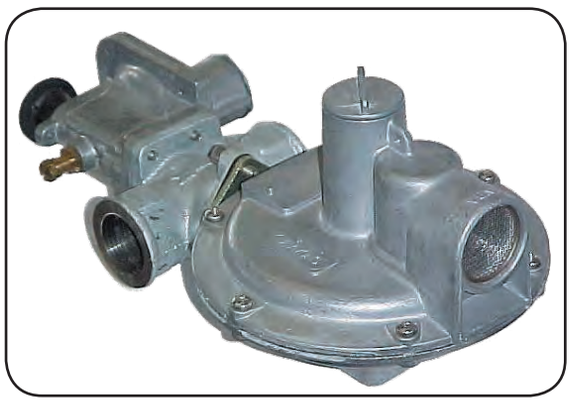
#PF-FEXBP-(specify outlet pressure)
#PF-FEXSBP-(specify outlet pressure)

Pietro Fiorentini 300 Series with OPSO

- Balanced shutter
- Safety Diaphragm
- Outlet springs from 5mbar-40mbar
- OPSO up to 70mbar

 # PF-32051 1/2"
 # PF-32052 3/4"
 # PF-32053 1"

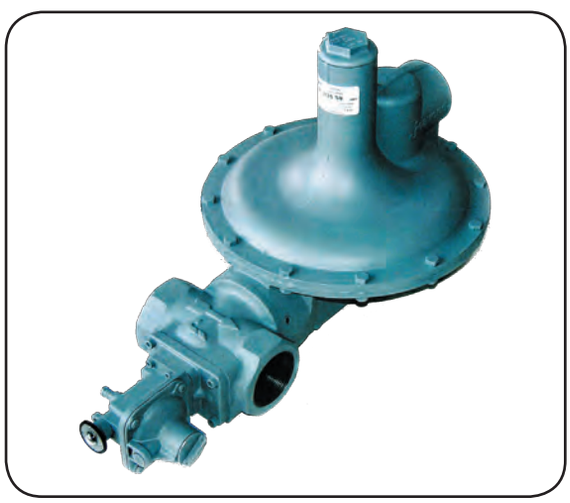
ELSTER Jeavons



Jeavons J125 Regulators, 3/4 & 1”

- Step down regulator with integral overpressure device
- 860 kPa maximum inlet pressure (depending upon orifice)
- A range of outlet pressure and OPSO springs is available
- 25 kPa maximum outlet pressure
- OPSO up to 50 kPa

#J0150S10, 3/4”
#J0151S10, 1”



Jeavons J125 Regulators, 11/2 & 2”

- Step down regulator with integral overpressure device
- 800 kPa maximum inlet pressure (depending upon orifice)
- A range of outlet pressure and OPSO springs is available
- 35 kPa maximum outlet pressure
- OPSO up to 50 kPa

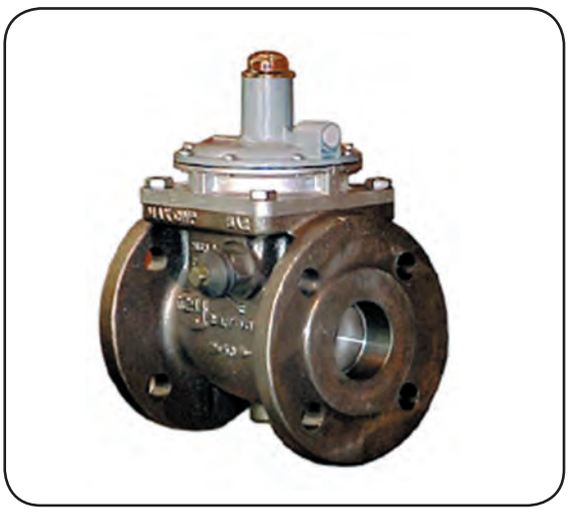
#J0154S10, 11/2”
#J0155S10, 2”

While regulators are robustly made and finished all manufactuers recomend that some degree of weather protection is fitted.
In particular vent ports should not be installed in such a way that moisture can enter the inside of the regulator

OVER PRESSURE SLAM SHUT VALVES

NOTE: NZ5261:2003, Clause 2.5.2.2b states that:
"A gas filter that will prevent the passage of foreign particles greater than 1mm SHALL be located upstream and within 5m of the device that shuts off the gas supply".

See later in this section for gas filter information

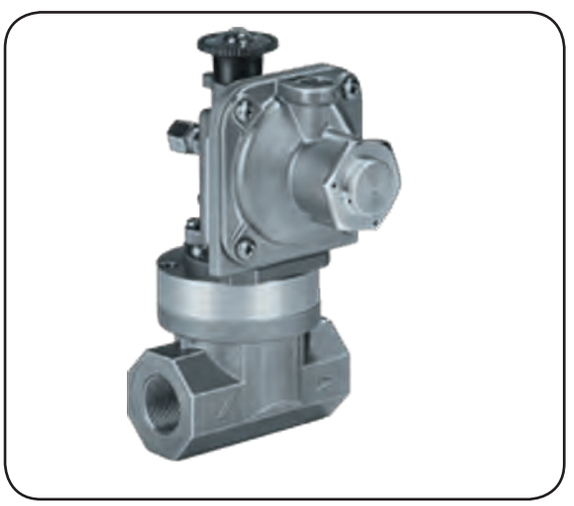


Jeavons S100 OPSO Device
- Low pressure 18-560 mbar
- Medium pressure 561-1400 mbar
- High pressure 1-6 bar
- Pressure rating 16 bar
- Sizes DN 50-100
- Manual reset

#J017xxx

Jeavons S300 OPSO Device
- 2 bar inlet for low pressure unit
- 20 bar inlet for high pressure unit
- Up to 50 kPa setting pressure for LP unit
- Up to 4 bar setting pressure for HP unit
- Internal sensing on LP unit
- External sensing on HP unit
- 1" bsp
- Manual reset

#J0167, LP Unit
#J0168X, HP Unit
Ideal for use on bulk LPG systems to protect downstream components.

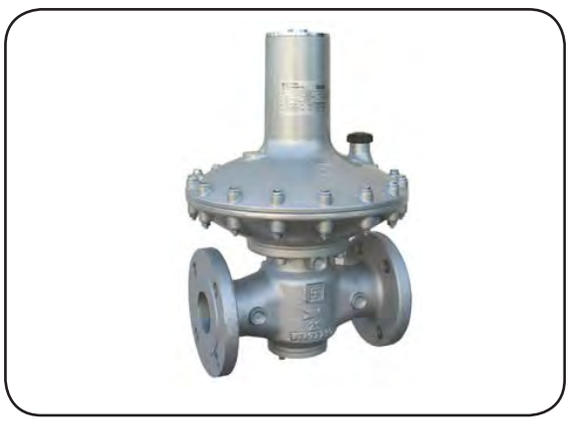


Kromschroder JSAV OPSO Device
- 4 bar inlet for pressure rating
- Up to 55 kPa outlet trip pressure
- 25 - 40mm screwed
- 50, 65, & 80mm flanged
- Manual reset

*#KR06*****

HIGH CAPACITY REGULATORS

Pietro Fiorentini



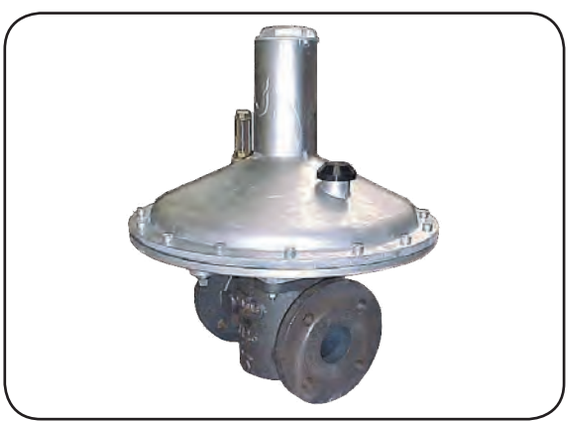
Pietro Fiorentini Dival 600 Regulator
High capacity industrial regulator
- Modular Design
- Slam shut or monitor applications
- 20 bar maximum inlet pressure
- Up to 420 kPa maximum outlet pressure
- External impulse line

Contact SCE for further information

Pietro Fiorentini Norval Regulator
High capacity industrial regulator
- Modular Design
- Slam shut or monitor applications
- 16 bar maximum inlet pressure up to 3”
- 8 bar maximum inlet pressure 4” to 8”
- 440 kPa maximum outlet pressure
- External impulse line

Contact SCE for further information

ELSTER Jeavons



Jeavons J123 Regulators
High capacity industrial regulators
- 400 kPa maximum inlet pressure
- 34 kPa maximum outlet pressure
- External impulse line
- 2, 3 & 4” fanged available

Contact SCE for further information

AIR / GAS RATIO CONTROLS

North American 7218 Series

- Inlet pressure up to 14 kPa
- Precise control of air / fuel ratio
- 3/4" - 4" npt available

#N7218-0, 3/4"
#N7218-1, 1"
#N7218-2, 11/4"
#N7218-3, 11/2
#N7218-4, 2"
#N7218-6, 3"
#N7218-7, 4"

Kromschroder GIK Series

- Inlet pressure up to 20 kPa
- Maintains constant air / gas ratio
- 1/2" - 2" bsp available

#KR08***

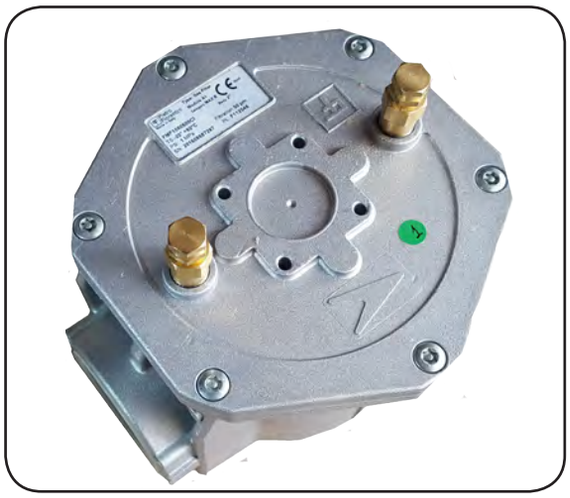
PRESSURE RELIEF VALVES

Jeavons J48K Relief Valves

- Diaphragm pressure relief
- Range of pressure relief springs up to 15 kPa
- 1" bsp

#J0042, 1"

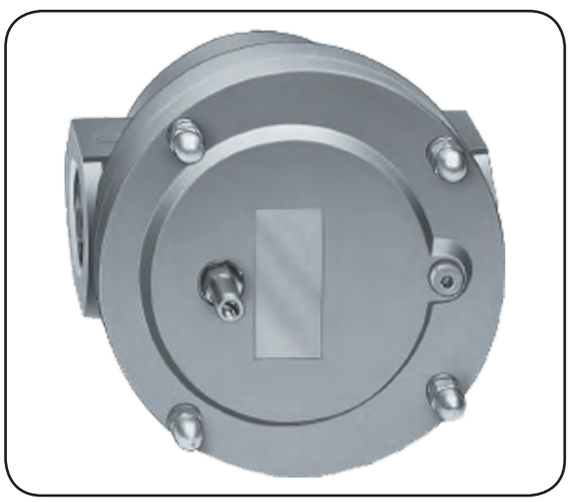
GAS FILTERS



Pietro Fiorentini 106 series

- 1 MPa maximum pressure
- High pressure test points
- 50 micron filter element
- 15mm to 50mm

- #PF-FIL-106.....specify size



Kromschroder GFK series

- 200 & 400 kPa versions available
- 1/2” - 21/2” bsp screwed available
- 11/2 - 10” flanged available
- Single test point
- Filter & “O” rings available as spares

#KR02.....specify size

Available on request, subject to availability.

LP GAS REGULATORS

SEE QUICK REFERENCE CHART AT END OF SECTION

FIRST STAGE REGULATORS

REGO 597FA Series
- 1750 mJ/hr (35 kG/hr)
- 1/4" npt inlet & outlet
- 1 - 15 psi adjustable outlet range
- Outlet gauge tapping
- "T" bar adjustment

#RE597FA

REGO LV4403 Series
- 2,500 mJ/hr (50 kG/hr)
- 1/2" npt inlet & outlet
- 5 - 10 psi adjustable outlet range
- Integral relief

#RELV4403TR4

REGO 1584 Series
- 7000 mJ/hr (40 kG/hr)
- 1/2" npt inlet & outlet
- 3 - 30 psi adjustable outlet range

#RE1584MN

Pietro Fiorentini HP100/B
OPSO (Slam Shut) Regulator
- 5000-14000 mJ/hr,
- 35-80kPa outlet pressure (MP)
- 80-150kPa outlet pressure (TR)
- Maximum inlet pressure 20 bar
- Integral relief
- Balanced diaphragm
- Conforms to 97/23 CE PED Directive

#PF-HP100MP
#PF-HP100TR

SECOND STAGE REGULATORS

COMAP BP Series
- 350 mJ/hr (7 kG/hr)
- 1/4” inlet & 3/8”outlet
- 2.5-4.5 kPa outlet pressure
- Integral relief

#AQ-BP2202

REGO LV4403 B Series
- 950 mJ/hr (19 kG/hr)
- 1/2” npt inlet & outlet
- 2.75 kPa outlet pressure
- Integral relief

#RELV4403B4

REGO LV5503 B Series
- 1,600 mJ/hr (32 kG/hr)
- 3/4” npt inlet & outlet
- 2.75 kPa outlet pressure
- Integral relief

#RELV5503B6

TWIN STAGE REGULATORS

Cavagna 524A Series
- 250 mJ/hr (5 kG/hr)
- 1/4” bsp inlet x 3/8” bsp outlet
- 2.75 kPa outlet pressure

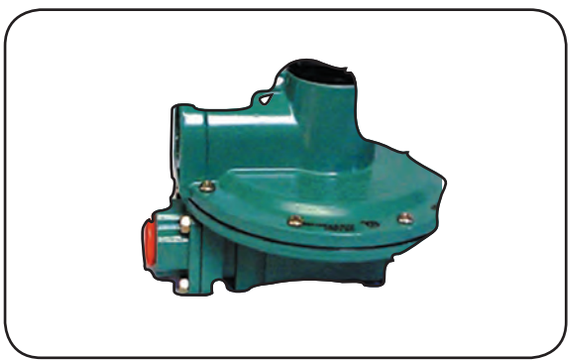
#BM6060522

BBQ/ Small Appliance Regulator
- 175 mJ/hr (3.5 kG/hr)
- 1/4” bsp inlet x 3/8” bsp outlet
- 2.75 kPa outlet pressure

#BM6060491

REGO LV404B Series
- 525 mJ/hr (10.5 kG/hr)
- 1/4” npt inlet x 1/2” npt outlet
- 2.75 kPa outlet pressure
- Integral relief

#RELV404B4



Fisher R632 Series
- 700 mJ/hr (14 kG/hr)
- 1/4” npt inlet x 3/8” npt outlet
- 2.75 kPa outlet pressure
- Integral relief

#FS-R632-BCF

FIRST STAGE AUTO CHANGEOVER REGULATORS

HAX Series
- 600 - 1750 mJ/hr (12-35 kG/hr)
- 2 x 5/16" inverted flare inlet x 1/2" bsp outlet

#HAX-...(specify capacity)

TWO STAGE AUTO CHANGEOVER REGULATORS

Cavagna 528B Series
- 400 mJ/HR (8 kG/HR)
- 2 x 1/4" inverted flare inlet x 1/2" bsp outlet
- 2.75 kPa outlet pressure
- Complete with pigtails,weather cover,bracket,chain,and clips

#BM6060553

- **HAC Series**
- 600-1750 mJ/hr (12-35kG/hr)
- 2.5 - 3.3kPa adjustable outlet pressure
- Internal relief set at 7.0 kPa
- 1" BSPF outlet
- Includes 2 x S/S pigtails

#HAC-.....KIT (specify range)

LPG HOSES

POL with 3.5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 1/4" FBSP fitting

#BMR1POL1/4HOSE

POL with 3.5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 3/8" FBSP fitting

#BMR1POL3/8HOSE

QCC with 3.5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 1/4" FBSP fitting

#BMR1QCC1/4HOSE

QCC with 3.5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 3/8" FBSP fitting

#BMR1QCC3/8HOSE

POL with 5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 1/4" FBSP fitting

#BMR2POL1/4HOSE

POL with 5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 3/8" FBSP fitting

#BMR2POL3/8HOSE

QCC with 5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 1/4" FBSP fitting

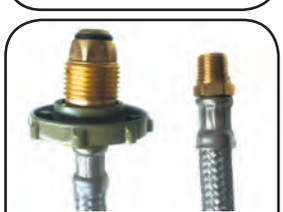
#BMR2QCC1/4HOSE

QCC with 5kG 2 Stage Regulator and 1 metre Stainless Steel hose with 3/8" FBSP fitting

#BMR2QCC3/8HOSE

#BM6SCH1000

#AQ-FPT1452/400



#BM6SCH0600

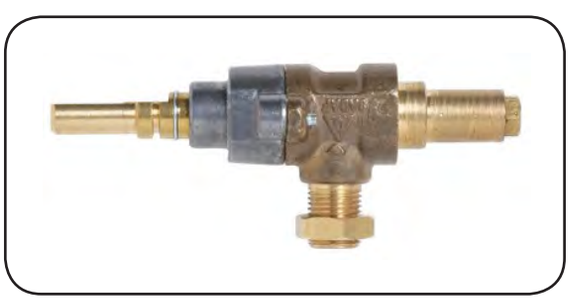
#BM6SHW0600

Flexible Pigtails

- Stainless steel
- Fully braided
- Handwheel

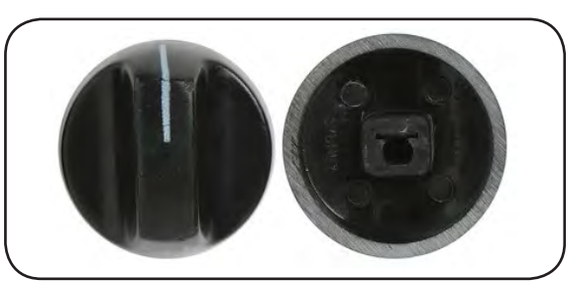
#BM6SCH0600,
POL x 1/4" npt x 600mm
#BM6SCH1000,
POL x 1/4" npt x 1000mm
#BM6SHW0600,
POL x 5/16" inverted flare x 600mm
BM6SHW1000,
POL x 5/16" inverted flare x 1000mm
#AQ-FPT1452/400,
POL x POL x 900mm

LPG ACCESSORIES



BBQ gas cock C/W 1.27mm injector

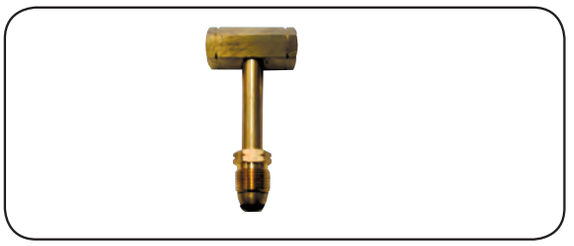
#BM4040007



Knob for BBQ gas cock

#BM9099900

LPG MANIFOLDS



Brass Tee Manifold
- Female POL x Female POL x Male POL
- Extended “Tee”
- Use in place of manifold

#RE1350EY

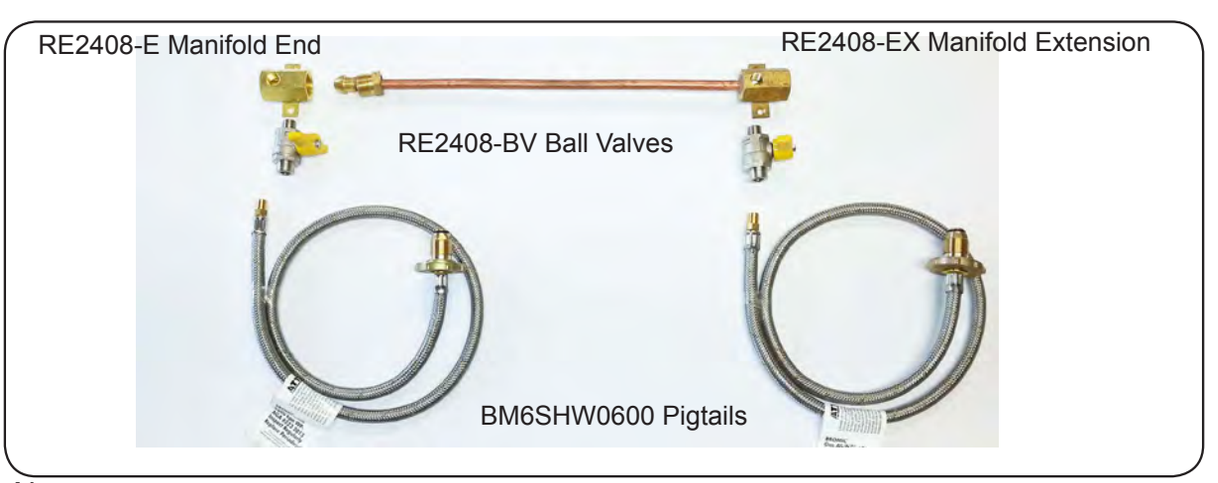
Manifold Ends
- Female POL
- 1 x 1/4’ BSPT fitting
- Mounting bracket
- Now C/W 1/4” Inverted flare Ball Valve

#RE2408-EKIT

1/4” Ball Valve
Inverted flare female x 1/4” BSPT male connections

Manifold Extensions
- Female POL x Male POL X 400mm
- 1 x 1/4” BSPT fitting
- Mounting bracket
- Now C/W 1/4” Inverted flare Ball Valve

#RE2408-EXKIT

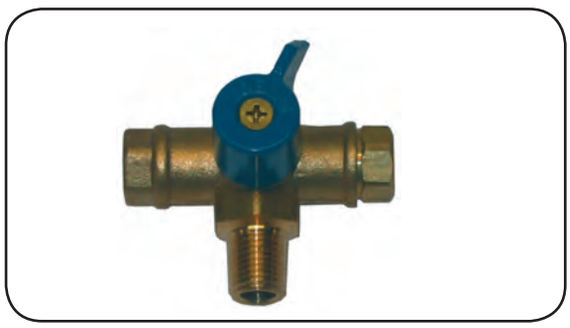


Above:

An example layout of the above manifold parts used to connect two gas bottles to one side of an auto changeover regulator. The same set up would be used for the other side of the regulator, giving a total of 4 bottles for gas supply.

Tee Check Manifold
- 1/4 x 1/4” inverted flare x 1/4” npt
- For use in systems that require uninterrupted gas service during cylinder exchange.

#FS-P414



Manual Changeover Tee
- Cylinder manual changeover valve.
- 2 x 1/4” Inverted flare inlet
- 1/4” MBSP outlet

#AI76503-69VB

QCC Bottle Connector
- 1/4” bsp male connection

#BM6060971

POL Fittings
- 1/4” bsp x 50mm stem, soft nose (“O” ring)

#BM9999900

- POL nut

#BM9999002

- Handwheel for pol nut

#BM6060980

Tel : 09-636-1401 • Fax: 09-636-1525 • sales@systemcontrol.co.nz • www.systemcontrol.co.nz

LPG Regulator Selection Information

Make	Code	mJ/hr	Kg/hr	Adjustment Range	Connections	COMMENTS
FIRST STAGE REGULATORS						
REGO	RE597FA	1,750	35.0	10 - 100 kPa (1 - 15 PSI)	1/4" x 1/4" FNPT	
FISHER	FS-R622-H-BGJ	2,000	40.0	30 - 70 kPa (5 - 10 PSI)	1/2" x 1/2" FNPT	
REGO	RE597FB	3,150	63.0	70 - 200 kPa (10 - 35 PSI)	1/4" x 1/4" FNPT	
REGO	RE597FC	3,650	73.0	140 - 300 kPa (20 - 45 PSI)	1/4" x 1/4" FNPT	
REGO	RE597FD	4,700	94.0	280 - 700 kPa Bar (40 - 105 PSI)	1/4" x 1/4" FNPT	
REGO	RE1584MN	7,000	140.0	20 - 200 kPa (3 - 30 PSI)	1/2" x 1/2" FNPT	
REGO	RE1588MN	11,000	220.0	20 - 200 kPa (3 - 30 PSI)	1.0" x 1.0" FNPT	
PIETRO FIORENTINI	PF-HP100MP-70kPa	5000 - 14000	320.0	20 - 80 kPa (3 - 12 PSI)	1.0" x 1.0" FNPT	C/W OPSO, Factory Set At: 70kPa Outlet, 90kPa Relief, 110kPa OPSO
PIETRO FIORENTINI	PF-HP100TR-140kPa	5000 - 14000	480.0	80 - 450 kPa (12 - 65 PSI)	1.0" x 1.0" FNPT	C/W OSPO, Factory Set At: 140kPa Outlet, 180kPa Relief, 200kPa OPSO
SECOND STAGE REGULATORS						
RECA	BM6160796	250	5.0	2.75 kPa	1/2" x 1/2" FBSP	Appliance Regulator
COMAP	AQ-BP2202	350	7.0	2.5 - 4.5 Kpa (10.0 - 18.0" WG)	1/2" x 1/2" FBSP	
COMAP	AQ-BP2205	500	10.0	2.7 - 3.6 kPa (10.8 - 14.5" WG)	1/2" x 1/2" FBSP	
COMAP	AQ-BP2303	1500	30.0	2.7 - 3.6 kPa (10.8 - 14.5" WG)	1/2" x 3/4" FBSP	
REGO	RELV4403B4	950	19.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/2" x 1/2" FNPT	Includes Bracket
REGO	RELV5503B4	1,600	32.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/2" x 3/4" FNPT	Includes Bracket
REGO	RELV5503B6	1,600	32.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	3/4" x 3/4" FNPT	Includes Bracket
TWIN STAGE REGULATORS						
RECA	BM6060522	250	5.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/4" FBSP x 3/8" FBSP	Includes Bracket
REGO	RELV404B4	525	10.5	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/4" FNTP x 1/2" FNPT	Includes Bracket
FISHER	FS-R632-BCF	700	14.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/4" FNPT x 1/2" FNPT	Indent Only
SINGLE STAGE REGULATORS						
RECA	BM6060491	175	3.5	10 - 13" WG (20 - 32 mBar)	1/4" x 3/8" FNPT	
FISHER	FS-912/101	220	4.4	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/4" x 3/8" FNPT	
AUTO CHANGE OVER REGULATOR KITS, FIRST STAGE						
HWA YOUNG	HAX-10KIT	500	10.0	32 - 83 kPa (4.5 PSI - 11.8 PSI)	2 x 1/2" FBSP x 1/2" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
HWA YOUNG	HAX-15KIT	750	15.0	32 - 83 kPa (4.5 PSI - 11.8 PSI)	2 x 1/2" FBSP x 1/2" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
HWA YOUNG	HAX-20KIT	1000	20.0	32 - 83 kPa (4.5 PSI - 11.8 PSI)	2 x 1/2" FBSP x 1/2" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
HWA YOUNG	HAX-35KIT	1750	35.0	32 - 83 kPa (4.5 PSI - 11.8 PSI)	2 x 1/2" FBSP x 1/2" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
AUTO CHANGE OVER REGULATOR KITS, TWO STAGE						
RECA	BM6060553	400	8.0	2.0 - 3.2 kPa (9.0 - 13.0" WG)	1/4" Inv. Fl. x 1/2" FBSP	2 x 1/4" Inv. Fl. X POL x 600mm Pigtails, Mtg. Bracket, Chain & Clips, Rain Cover
HWA YOUNG	HAC-12-KIT	600	12.0	2.55kPa - 3.3 kPa (10.0 - 13.2"WG)	2 x 1/2" FBSP x 3/4" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
HWA YOUNG	HAC-20-KIT	1000	20.0	2.55kPa - 3.3 kPa (10.0 - 13.2"WG)	2 x 1/2" FBSP x 1.0" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails
HWA YOUNG	HAC-35-KIT	1750	35.0	2.55kPa - 3.3 kPa (10.0 - 13.2"WG)	2 x 1/2" FBSP x 1.0" FBSP	2 x 1/4" x 1/2" Reducing Bushes, 2 x POL x 1/4" BSP x 600mm Pigtails

Section 11

SURFACE CONTACT THERMOSTAT

CAMPINI

HOT WATER THERMOSTATS

CAMPINI, IMIT

CAPILLARY & BULB THERMOSTATS

CAMPINI

FAN LIMIT THERMOSTATS

HONEYWELL, WHITE-RODGERS

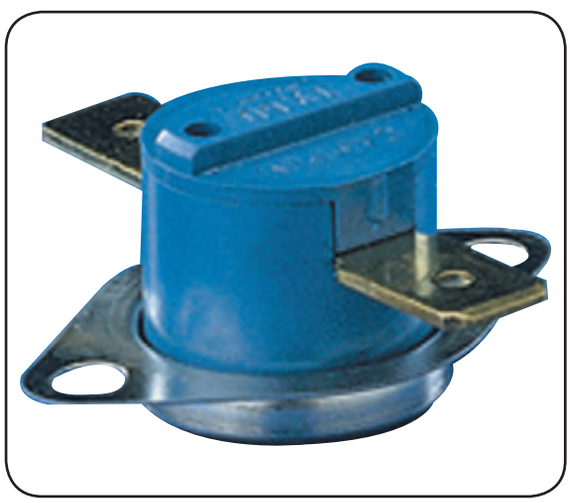
PROGRAMABLE THERMOSTATS

WHITE-RODGERS

THERMOMETERS

AKO

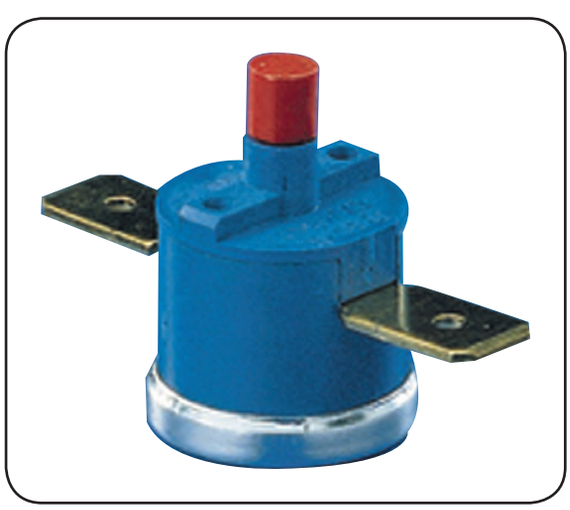
SURFACE CONTACT THERMOSTATS



Campini TY60 Control Thermostat

- Fixed set point
- Auto reset
- Bimetal
- Single pole
- Snap action contact
- Range 60 - 150°C

#CP0060, 60°C
#CP0080, 80°C
#CP0100, 100°C
#CP0130, 130°C



Campini TY60R Limit Thermostat

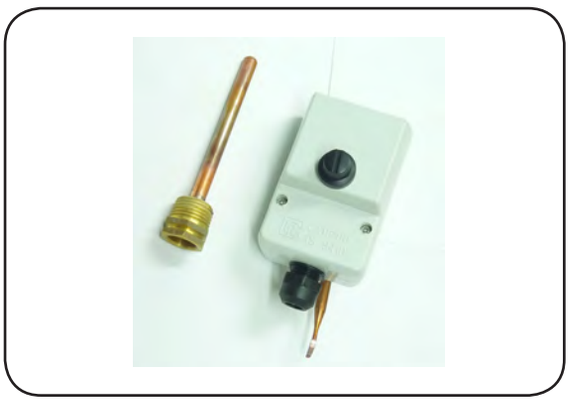
- Fixed set point
- Manual reset
- Bimetallic
- Single pole
- Snap action contact
- Range 45 - 130°C

#CP1045, 45°C
#CP1090, 90°C
#CP1099, 100°C
#CP1130, 130°C

HOT WATER THERMOSTATS

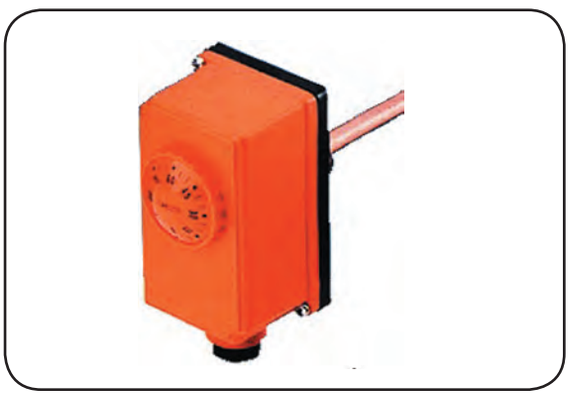
IMIT BRC Contact Thermostat
- Mounts on pipe with spring clip
- Adjustable from 10-90 ^{0} C
- SPDT and SPDT Contacts

#IM0545610



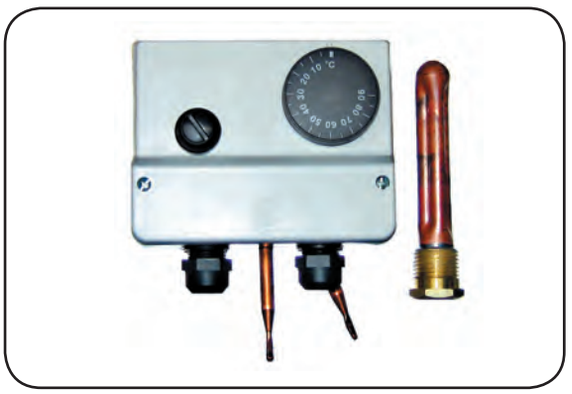
Campini TS9410 Immersion Thermostat
- Preset at 100 °C, ((Manual reset)
- Complete with 1/2” bsp pocket
- SPDT contacts

#CP40944



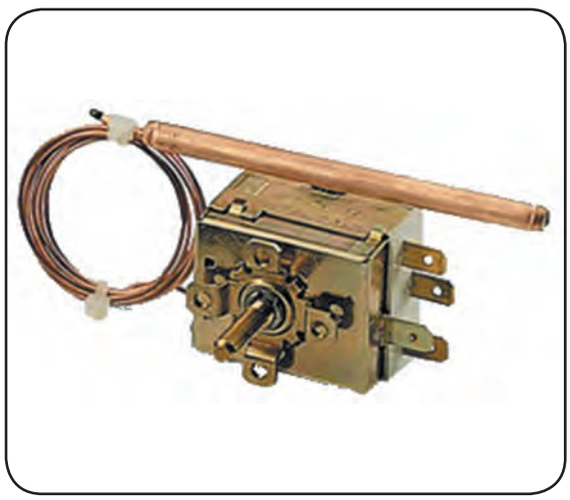
Campini TS95 Immersion Thermostat
- Adjustable 6 - 90°C control
- Auto reset
- Complete with 1/2” bsp pocket
- SPDT contacts

#CP409310



Campini TS95H Immersion Thermostat
- Adjustable 6 - 90°C control, (Auto reset)
- Adjustable 90 - 110°C Hi limit (Manual reset)
- Complete with 1/2” bsp pocket
- SPDT contacts

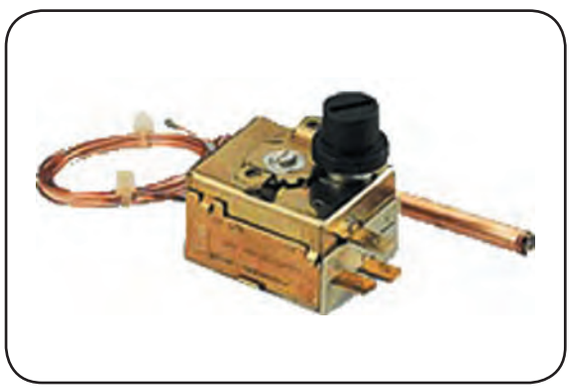
#CP40943



IMIT TR2 Control Thermostat

- Adjustable 10 - 90°C
- Auto reset
- SPDT contacts
- 1.5M capillary

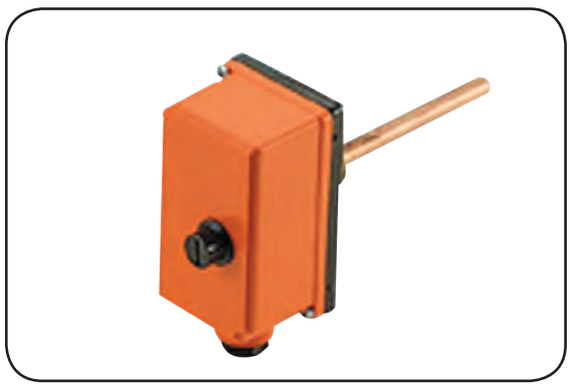
#IM0540355
#IM556301, Dial 0 - 90°C
#IM556503, Bezel to suit



IMIT LS1 Limit Thermostat

- Adjustable 90 - 110°C
- Manual reset
- SPST contacts
- 1M capillary

#IM0541510



IMIT LSC1 Limit Thermostat

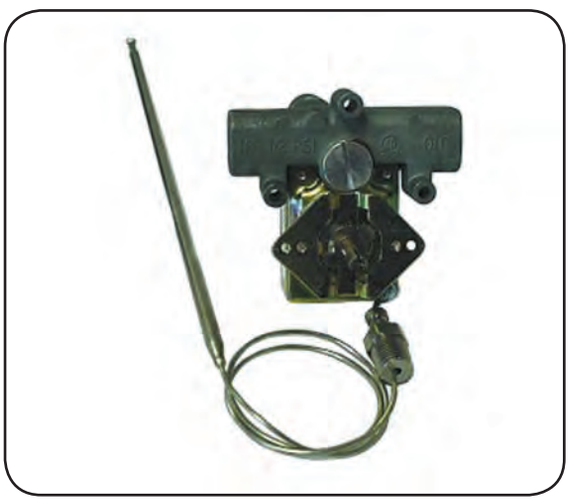
- Adjustable 40 - 60°C
- Manual reset
- Complete with 1/2” bsp pocket
- SPST contact

#IM0543071

ROBERTSHAW THERMOSTATS

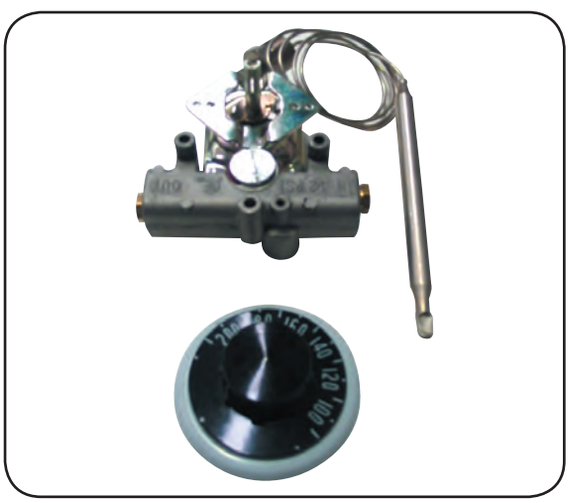
BJWA Oven Thermostat
- Range 90°C -290°C
- Outlet options
- Complete kit

 # RSBJ0100



Commercial Gas Oven Thermostat
- Range 70°C -290°C
- Gas Operated
- For use in conjunction with Robertshaw BGORL Gas Control Valve

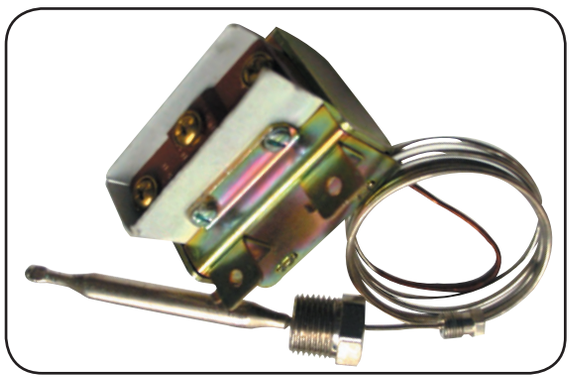
 # RSGS4007



Commercial Gas Fryer Thermostat
- Range 95°C -205°C
- Gas Operated
- For use in conjunction with Robertshaw BGORL Gas Control Valve

 # RSGS7005K

CAPILLARY & BULB THERMOSTATS



Robertshaw Electric Fryer Thermostat (Auto reset)

- Set point 232°C
- Millivolt operated
- Auto reset
- Gold contacts

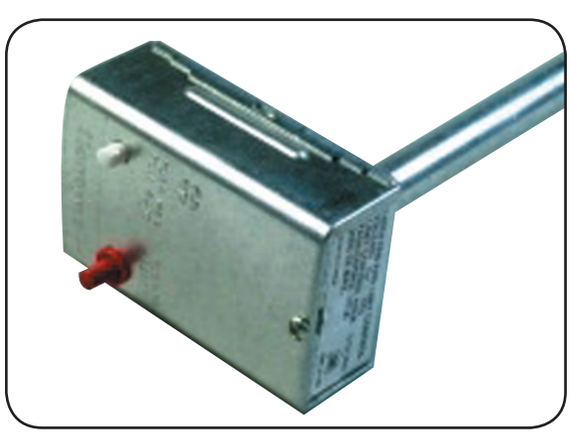
#RSLSLCCM0017

Robertshaw Electric Fryer Over Temperature Thermostat (Manual reset)

- Set point 232°C
- Manual Reset

#RSLCH0025

FAN LIMIT THERMOSTATS



Honeywell L4064N Fan & Limit Thermostat

- 50°C fan off control (auto reset)
- 93°C hi limit (manual reset)
- 290mm probe
- Fan switch makes & hi limit breaks on temperature rise
- Swivel fitting

#HW-L4064N

PROGRAMMABLE THERMOSTATS

White-Rodgers BLUE 90 Series

- Programmable thermostat
- Heat & Cool
- Touch screen
- Screen backlight
- Audible prompting
- Screen lockout feature
- Accurate temperature maintenance to +/- 1°C of set point
- Programmable 7, 5/1/1, individual days or use as simple on / off operation
- Dimensions 117 x 30.5 x 150 mm

#W00172BLUR

WALL THERMOSTAT

Campini TY92 Room Thermostat

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

#IM0546070

Section 12

STAINLESS STEEL COOKER HOSES C/W BAYONET CONNECTOR

BROMIC

APPLIANCE HOSES - STATIONARY

DORMONT YELLOW COATED

APPLIANCE HOSES - CASTOR MOUNTED

DORMONT BLUE COATED

STAINLESS STEEL CORRUGATED HOSES

DORMONT "SUPR-SAFE"

STAINLESS STEEL FLEXTUBES

DORMONT "T" SERIES

QUICK DISCONNECT DEVICES

KEEFER"

APPLIANCE RESTRAINT KITS

DORMONT

GAS CONNECTORS

Bayonet Gas Cooker Socket

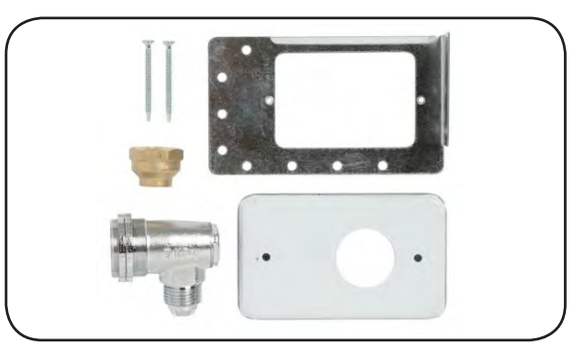
1/2” BSPF Chromed Floor Bayonet Socket

#BM1510151

Bayonet Gas Cooker Socket

1/2” BSPM x 90° Plain Brass

#BM1510158



Bayonet Gas Cooker Socket

Stainless Steel Bayonet Wall Socket

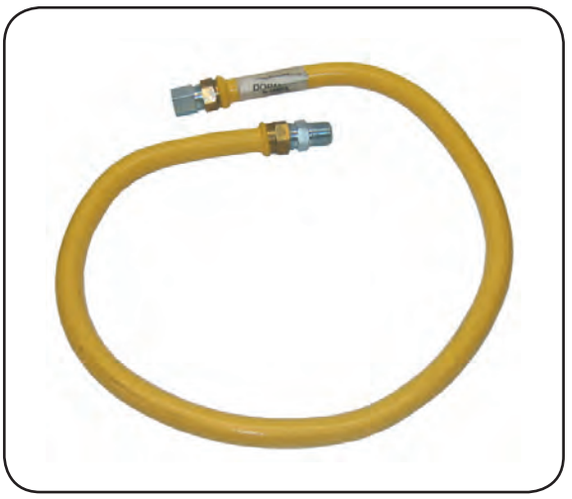
#BM1510920

Bayonet Connector Hose Kit

1/2” BSPM x 90° plain brass bayonet socket and 1/2” x 1200mm 10mm stainless braided hose

#BM1510158KIT

Bayonet Connector Hose
10mm stainless braided hose
1/2” BSP x Male Bayonet x 1.2m
#BM10HCS1200
3/8” SAEFF x Male Bayonet x 2.0m
#BM10HAS2000
1/4” BSPFF x Male Bayonet x 1.5m
#BM10HBS1500



Dormont Stationary Appliance Gas Connectors

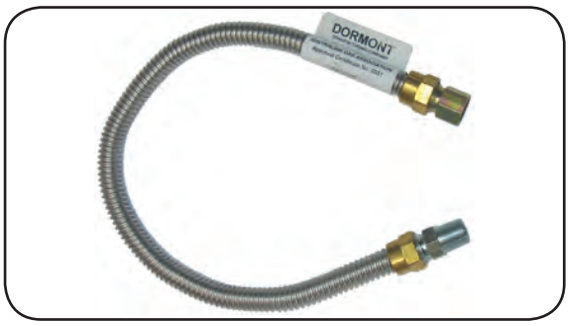
- Corrugated stainless steel
- PVC coated for food industry service
- 1/2, 3/4 & 1" diameter available
- 900 & 1200mm long available
- Male / female end fittings
- Male end fitting internally threaded

#DR20054, 1/2" x 900mm
#DR20055, 1/2" x 1200mm
#DR20074, 3/4" x 900mm
#DR20075, 3/4" x 1200mm
#DR20105, 1" x 1200mm

Dormont Castor Mounted Appliance "Blue Hose" Connectors

- Heavy duty corrugated 304 stainless steel
- Tight weave outer braid prevents overstretching
- PVC coated for food industry service
- 3/4 & 1" diameter available
- 1200mm long
- Male / female end fittings
- Male end fitting internally threaded

#DR036248, 3/4" x 1200mm
 # DR036348, 1" x 1200mm



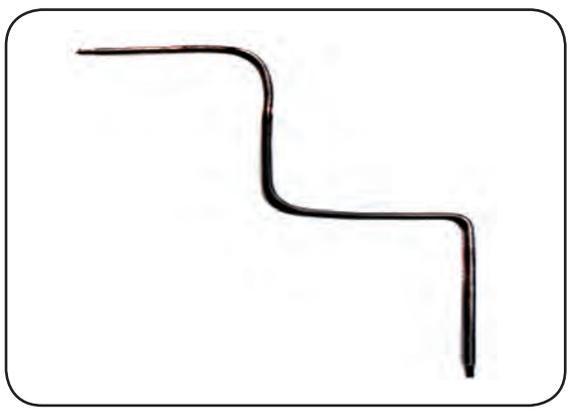
Dormont "Supr-Safe" Stainless Steel Gas Connectors

- Ideal for final connection in lieu of solid pipe
- 1/2, 3/4/ 1 & 11/4" diameter available
- Various lengths available
- Male / female end fittings
- Male end fitting internally threaded
- Intended for permanent installation

#DR22012, 1/2" x 300mm
#DR22018, 1/2" x 450mm
#DR22024, 1/2" x 600mm
#DR22030, 1/2" x 750mm
#DR22036, 1/2" x 900mm
#DR22048, 1/2" x 1200mm
#DR24012, 3/4" x 300mm
#DR24024, 3/4" x 600mm
#DR24036, 3/4" x 900mm
#DR24048, 3/4" x 1200mm
#DR25024, 1" x 600mm
#DR25036, 1" x 900mm
#DR26030, 11/4" x 750mm

NOTE: Other lengths available on indent only

Dormont®



- Ideal for pilot tubes in lieu of copper pipe
- 25mm smooth neck for nut and olive
- Bends easily around sharp corners
- 1/4",3/8" and 1/2" diameters available
- Various lengths available

Dormont Stainless Steel Flextubes

#DR1012, 1/4" x 300mm
#DR1018, 1/4" x 450mm
#DR1024, 1/4" x 600mm
#DR1106, 3/8" x 150mm
#DR1110, 3/8" x 200mm
#DR1112, 3/8" x 300mm
#DR1116, 3/8" x 400mm
#DR1118, 3/8" x 450mm
#DR1124, 3/8" x 600mm
#DR1126, 3/8" x 900mm
#DR1128, 3/8" x 700mm
#DR1148, 3/8" x 1200mm
#DR1212, 1/2" x 300mm
#DR1224, 1/2" x 600mm
#DR1236, 1/2" x 900mm

Quick Disconnect Device

- Quick disconnect gas coupling
- One hand action
- Quick connect is self sealing
- Thermal fuse protection incorporated @ 175^{O}C
- rated up to 140 kPa pressure

#DR01052 1/2"
#DR01077, 3/4"
#DR01102, 1"

Dormont Appliance Restraint Kit

- As required by the Building code
- 300mm shorter than corresponding hose length
- Prevents stress on connector when appliance pulled out
- Complete fitting kit

#DR6148, 1200mm Restraint Kit

NOTE: Dormont will design and manufacture specific connectors to suit individual requirements. (Minimum quantity applies).
Please contact SCE for further information and pricing