

Chapter 13

Black Teknigas
Combustion Range

Series 2000 Solenoid Operated Valves



Class A Safety Shut Off Valves, Normally Closed.
Gas Families 1, 2 & 3.
Cast Aluminium Bodies.
Closure within 1 sec. of power being removed.

WATTS®

SOLENOID GAS SAFETY SHUT-OFF VALVES

Cooksafe & Labsafe Automatic Gas Proving and Isolation System

A range of gas proving systems for use on schools, laboratories & kitchens. Used in conjunction with Gas Safety Shut-off Valves approved to BS EN 161. Essential for use in all locations where manual gas controls can cause the possibility of leakage and/or explosion, etc. See BS EN 6715 for requirements in catering establishments.



| PRODUCT CODE | DESCRIPTION | UNIT |
|--------------|-------------------------------------|------|
| PGCS003 | Provengas 'Cooksafe' Proving System | each |
| PGLS001 | Provengas 'Labsafe' Proving System | each |

Cooksafe & Labsafe Automatic Gas Proving System - Spare Part

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| PGLSPAN | Labsafe Control Panel | each |
| PGCSPAN | Cooksafe Control Panel | each |
| PGLS/CSTRAN | Pressure Transducer for Labsafe/Cooksafe | each |
| KEYPGSMED | Spare Key for Labsafe/Cooksafe | each |

Series 2000 Solenoid Operated Valves

Series 2000 - Class A Safety Shut Off Valves, Normally Closed. Gas Families 1, 2 & 3. Cast Aluminium Bodies. Closure within 1 sec. of power being removed.



Fast Opening - Full Wave Rectified, with Flow Adjustment

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2005 230V | 3/4" BSP | each |
| 2006 230V | 1" BSP | each |
| 2007 230V | 1 1/4" BSP | each |
| 2008 230V | 1 1/2" BSP | each |
| 2009 230V | 2" BSP | each |

Fast Opening - Full Wave Rectified, with Flow Adjustment and CPI

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2005 230VC | 3/4" BSP | each |
| 2006 230VC | 1" BSP | each |
| 2007 230VC | 1 1/4" BSP | each |
| 2008 230VC | 1 1/2" BSP | each |
| 2009 230VC | 2" BSP | each |

Other Voltages and Accessories

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|---|------|
| 110V 50Hz | Change 230V to 110V - extra | each |
| 24V 50Hz | Change 230V to 24V - extra | each |
| N101717100 | PG11 Cable Gland for all Series 2000 Valves | each |

SOLENOID GAS SAFETY SHUT-OFF VALVES**Solenoid Operated Valves - Spare Parts**

New Series 2000.

Fast Opening.

| PRODUCT CODE | SIZE/STYLE | VOLTAGE | UNIT |
|--------------|------------------------|--------------|------|
| 20056S 230V | 2005/2006 + 'C' models | 230V 50Hz AC | each |
| 20056S 110V | 2005/2006 + 'C' models | 110V 50Hz AC | each |
| 20056S 24V | 2005/2006 + 'C' models | 24V 50Hz AC | each |
| 20078S 230V | 2007/2008 + 'C' models | 230V 50Hz AC | each |
| 20078S 110V | 2007/2008 + 'C' models | 110V 50Hz AC | each |
| 20078S 24V | 2007/2008 + 'C' models | 24V 50Hz AC | each |
| 2009S 230V | 2009 + 'C' models | 230V 50Hz AC | each |
| 2009S 110V | 2009 + 'C' models | 110V 50Hz AC | each |
| 2009S 24V | 2009 + 'C' models | 24V 50Hz AC | each |

**Tekni Solenoid Operated Valves**

Series 24 to 29 - Gas Safety Shut-off Valves, Normally Closed.

Gas Families 1, 2 & 3.

Brass Bodies - 1/8" & 1/4".

Aluminium Bodies - Remainder.

Series 24 - Class "B", Half Wave Rectified (*Class "A") - Single Bodied Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2411001-00 | 1/8" BSP * | each |
| 2421001-00 | 1/4" BSP * | each |
| 2431211-00 | 3/8" BSP | each |
| 2441211-00 | 1/2" BSP | each |

Series 28 - Class 'A' - Single Bodied Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2811001-00 | 1/8" BSP * | each |
| 2821001-00 | 1/4" BSP * | each |
| 2831211-00 | 3/8" BSP | each |
| 2841211-00 | 1/2" BSP | each |

Series 29 - Class 'A' - Single Bodied Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2911001-00 | 1/8" BSP * | each |
| 2921001-00 | 1/4" BSP * | each |
| 2931211-00 | 3/8" BSP | each |
| 2941211-00 | 1/2" BSP | each |



SOLENOID GAS SAFETY SHUT-OFF VALVES

Tekni Solenoid Operated Valves

Series 24 to 29 - Gas Safety Shut-off Valves, Normally Closed.

Gas Families 1, 2 & 3.

Brass Bodies - 1/8" & 1/4".

Aluminium Bodies - Remainder.



Double Bodied "Multifunctional" Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| 2442112-00 | 1/2" BSP - 2 Safety Shut-off Valves | each |
| 2443112-00 | 1/2" BSP - 2 Safety Shut-off Valves and Governor | each |
| 2445112-00 | 1/2" BSP - 1 Safety Shut-off Valve and Governor | each |

Series 25 - Class "B", Full Wave Rectified (* Class "A") - Single Bodied Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 2511001-00 | 1/8" BSP * | each |
| 2521001-00 | 1/4" BSP * | each |
| 2531211-00 | 3/8" BSP | each |
| 2541211-00 | 1/2" BSP | each |

Double Bodied "Multifunctional" Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| 2542000-00 | 1/2" BSP - 2 Safety Shut-off Valves | each |
| 2543112-00 | 1/2" BSP - 2 Safety Shut-off Valves and Governor | each |

Double Bodied 'Multifunctional' Valves

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| 2842112-00 | 1/2" BSP - 2 Safety Shut-off Valves | each |
| 2843112-00 | 1/2" BSP - 2 Safety Shut-off Valves and Governor | each |

Automatic Gas Solenoid Valve N.C. GSAV-R

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| GSAV20R | 3/4" Voltage. 230 Vac. Press. max 0.5bar | each |

GENERAL PURPOSE SOLENOID VALVES**Series 3000 Valves**

Series 3000 - General Purpose Valves, normally closed. (Energise to open).

For Water, Hot Water, Air, Oil, etc. Fast opening and closing.

Brass body with a choice of diaphragm material, Nitrile, EPDM or Viton.

Electrical connection by DIN socket.

**Nitrile Diaphragm**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 3001 230V-N | 3/8" BSP | each |
| 3002 230V-N | 1/2" BSP | each |
| 3003 230V-N | 3/4" BSP | each |
| 3004 230V-N | 1" BSP | each |
| 3005 230V-N | 1 1/4" BSP | each |
| 3006 230V-N | 1 1/2" BSP | each |
| 3007 230V-N | 2" BSP | each |

EPDM Diaphragm

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 3001 230V-E | 3/8" BSP | each |
| 3002 230V-E | 1/2" BSP | each |
| 3003 230V-E | 3/4" BSP | each |
| 3004 230V-E | 1" BSP | each |
| 3005 230V-E | 1 1/4" BSP | each |
| 3006 230V-E | 1 1/2" BSP | each |
| 3007 230V-E | 2" BSP | each |

Viton Diaphragm

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 3001 230V-V | 3/8" BSP | each |
| 3002 230V-V | 1/2" BSP | each |
| 3003 230V-V | 3/4" BSP | each |
| 3004 230V-V | 1" BSP | each |
| 3005 230V-V | 1 1/4" BSP | each |
| 3006 230V-V | 1 1/2" BSP | each |
| 3007 230V-V | 2" BSP | each |

Coil Only

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|-------------|------|
| 3000 A 230V | 230 V 50 Hz | each |
| 3000 A 110V | 110 V 50 Hz | each |
| 3000 A 24V | 24 V 50 Hz | each |

THERMO-ELECTRIC VALVES AND ANCILLARY PRODUCTS

Thermocouples

High Quality Universal, specific duty and replacement type thermocouples.
 Normal working temp. range 400 to 600°C. Max. operating temp. 1000°C.
 Drop out time typically 30 to 40 seconds.

Additional Adaptor Packs for Universal Thermocouples

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| 7000/04 | Perl, Black 5503 | each |
| 7000/05 | Perl A, B, C, D & E | each |
| 7000/12 | Evered 9189, White Rodgers, Robertshaw | each |
| 7000/13 | Teddington TJ | each |
| 7000/15 | Sperryn T582 | each |
| 7000/26 | Junkers, S.I.T. | each |
| 7000/304 | M10 Split Nut | each |
| 7000/305 | M9 Split Nut | each |
| 7000/306 | 11/32" Split Nut | each |
| 7000/307 | M8 Split Nut | each |

Customer Specific Series Thermocouples

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|----------------------------|------|
| 701062 | 36" (900mm) 9mm Fixed Nut | each |
| 701082 | 48" (1200mm) 9mm Fixed Nut | each |
| 701092 | 60" (1500mm) 9mm Fixed Nut | each |

Sperryn Series T2066

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------|------|
| 710022 | 320mm | each |
| 710042 | 600mm | each |
| 710072 | 1000mm | each |
| 710092 | 1500mm | each |

THERMO-ELECTRIC VALVES AND ANCILLARY PRODUCTS**Thermocouples**

High Quality Universal, specific duty and replacement type thermocouples.

Normal working temp. range 400 to 600°C. Max. operating temp. 1000°C.

Drop out time typically 30 to 40 seconds.

Replacement Type Thermocouples

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|-------------------------|------|
| 7/S38 | Thorn Apollo | each |
| 7S/39A | Burco 54561 | each |
| 703044 | 24" (600mm) Q309A Type | each |
| 703064 | 36" (900mm) Q309A Type | each |
| 703084 | 48" (1200mm) Q309A Type | each |
| 705060 | 36" (900)mm ITT Type | each |
| 705080 | 48" (1200mm) ITT Type | each |
| 712044 | Thorn Olympic | each |
| 717033 | Robinson Willey Bantam | each |
| 717052 | Ideal Mexico | each |
| 721202A | Potterton 8929547 | each |
| 7220212A | Main Medway Super | each |
| 722213 | Main Medway | each |
| 724223 | Valor Dream | each |
| 725171 | Glowworm Fireblaze | each |
| 726041 | Valor Heartbeat | each |
| 727064 | Thorn M | each |
| 728143 | Cannon Carress | each |
| 728214 | Vokera Flowmatic | each |

THERMO-ELECTRIC VALVES**Thermo-Electric Valves****Series 37 and G840**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|---|------|
| 3701/110 | Push Button Assembly - 3701/3703/3705 | each |
| 3702/127 | Push Button Assembly - 3702/3706 | each |
| T3622 | Push Button Assembly - G840/880 1/2" | each |
| T1941 | Push Button Assembly - G840/880 3/4" | each |
| MB1/FS | Electro-mag.hood assy. - 3701/3703 and G840/880 1/2" | each |
| 3702/140 | Pilot Assembly - 3702 | each |
| 3705/100 | Pilot Assembly - 3705 | each |
| 3706/104 | Pilot Assembly - 3706 | each |

BURNERS, PILOTS, INJECTORS, BURNER CONTROLLERS, ACCESSORIES, ETC

Electronic Burner Sequence Controllers

Atmospheric and Forced Draught Burners.

Series 'Microflat' - Fully Automatic Control.

Integral Spark, Flame Rectification (Ionisation) only

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|--|------|
| DEN12230V | 2 valve, 2 probe control for atmos. burners | each |
| SM 11 KIT | Electrical Termination kit for above | each |

Accessories for above

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|------------------------|------|
| 1201/230V | Spark Generator - 230V | each |
| 1201/110V | Spark Generator - 110V | each |
| ME39/FS | Electrode (probe) - 6" | each |

Pilot Burners

Various models and Styles for Domestic, Commercial and Industrial applications.

Industrial Pilot Assemblies for Natural Gas and LPG.

Series 1300 - for use with Flame Rectification Units, includes 2 Probes

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|-------------------------|------|
| 1300/N | Natural Gas | each |
| 1300/LPG | Liquified Petroleum Gas | each |

Series 1101 - for use with Tekni 7000 series Thermocouples in arduous conditions

| PRODUCT CODE | SIZE/STYLE | UNIT |
|--------------|-------------------------|------|
| 1300/N | Natural Gas | each |
| 1300/LPG | Liquified Petroleum Gas | each |

Series CTB Monogas and Universal Pilot Burners 1, 2, & 3 Flame Models

PRODUCT CODEs consist of four elements, as follows:

First Element - 'CTB/' - i.e. series.

Second Element - either 'MV/' (Monogas or 'U' (Universal).

Third Element - '1/', '2/' or '3/' - i.e. No. of flames required".

Fourth Element - Bracket type 'STD' (Standard) or 'EXT' (Extended).

In addition orders for Monogas Pilots should indicate if pilot is for "/LPG".

| PRODUCT CODE | SIZE/STYLE | UNIT |
|---|------------|------|
| See above | See above | each |
| Standard connection is 6mm comp. But 4mm can be supplied to special order | | |

BURNERS, PILOTS, INJECTORS, BURNER CONTROLLERS, ACCESSORIES, ETC**Accessories**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|---------------------|-------------------|-------------|
| MG18 | CTB Electrode | each |
| MG20 | Piezo Ignitor | each |
| MG21 | H.T. Cable | metre |
| MG22 | Flat Connector | each |
| MG25 | Ring Connector | each |

PRESSURE, FLOW, LEVEL AND PHOTO-ELECTRIC CONTROLS**Pressure Switches - High Pressure****Series Supermin - Miniature Positive and Negative Pressure Switches**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|---------------------|--------------------------------|-------------|
| 5600001 | SM1 - 0.1 to 1.0 bar | each |
| 5600002 | SM2 - 0.4 to 2.5 bar | each |
| 5600003 | SM3 - 1.0 to 10 bar | each |
| 5600004 | SM4 - 4.0 to 25 bar | each |
| | Degreased Version of any above | extra |

Londex Air Flow Controls**Air and Liquid Flow Switches and Controllers**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|---------------------|---------------------------------|-------------|
| 4831001 | EAF 110, 24v, 0.6-15m/s | each |
| 4832001 | EAF 180, 24v, 0.6-15m/s, t/o | each |
| 4880001 | EAF 250, 24v, 0.3min to 2-15max | each |
| 4880004 | EAF 250 Sensor Only | each |
| 4880006 | EAF 250 Control Unit Only | each |
| 4880003 | EAF 260, 24v, 0-20m/s | each |

Londex Photo-Electric Devices**Series Minilux - Night/Day Photo Switches**

| PRODUCT CODE | SIZE/STYLE | UNIT |
|---------------------|--------------------------------|-------------|
| 7400003 | 41018, 240v, 2-2000lux | each |
| 7400004 | 41047, 240v, on 45, off 90lux | each |
| 7430003 | 36096, 200/240v, 2 - 20,000lux | each |

GENERAL CONDITIONS

GENERAL TERMS AND CONDITIONS

1. Sales conditions applicable here included are meant to be automatically fully accepted by the customer upon submission of the order.
2. An order only constitutes a booking and does not commit the company to make total or partial delivery. The order shall only be accepted when Watts Industries Italia S.r.l. send to the client a copy of the proposed order confirmation, containing the general conditions applicable.
3. Orders for a net amount of less than 500,00 Euro cannot be fulfilled. Any delivery costs will be charged to the client for an amount of at least 15,00 Euro
4. Any amendment to the contract (Orders and Orders confirmations) shall be made in writing, dated and signed by both parties.
5. Product description and pictures included in the present document are for information purposes only. Watts Industries Italia S.r.l. reserves the right to change or modify product design, construction, specifications, or material without prior notice or without incurring in any obligation.
6. All contracts (Orders and Orders confirmations) shall be governed by the Italian law.
7. The prices shown in the trade list below are quoted net of VAT.

DELIVERY TERMS

8. The delivery dates are purely indicative; any delay in delivery after the specified date shall not entitle the customer to any compensation. Deliveries, even if in partial, cannot be rejected by the customer and cannot give any right to cancel the order.
9. In case of Force Majeure, strikes or lock-outs, total lack or reduced supply of raw materials, transport problems, wars, riots, interruptions in communications for any reason, malfunctions of plant or any other unforeseeable event, Watts Industries Italia S.r.l. reserves the right to suspend deliveries or to cancel duly accepted orders, in which case the customer shall not be entitled to compensation.
10. The goods will normally be delivered ex works, unless otherwise agreed and expressly stated in the order. Euro 15,00 will be charge to the client as packaging cost.
Our liability ceases on delivery to the customer or the carrier. The goods travel at the customer's risk, even if carriage is paid to the place of destination, and no claims for any breakage or interference can therefore be accepted. Any agreements with shipping agents, including the amount and payment of the cost of transport, shall always be deemed to be entered into on behalf of the customer, which hereby accepts and ratifies our actions. Any delivery costs will be charged to the client for an amount of at least 15,00 Euro
11. No claims are accepted for any shortage, damage or tampering in case of:
 - orders for quantities different from standard box
 - transport done directly by the customer or by a carrier appointed himself.

PAYMENTS

12. All payments shall be disposed at our offices within the agreed period. In the event of any delay in payment Watts Industries Italia S.r.l. is entitled to take any legal action to obtain the outstanding payments.
The customer shall pay interest from the due date according to Italian Law 231/2002. If the prices are expressed in a foreign currency invoices shall be paid in the currency indicated in the invoice. If the currency indicated in the invoice should cease to exist, payment shall be made in the currency which replaced the one indicated in the invoice.
13. In the event of failure to comply with the terms of payment, Watts Industries Italia S.r.l. shall be entitled to suspend all or part of the delivery of the goods, even if it relates to proposed order confirmations duly accepted under the terms of these general conditions of sale.

CLAIMS AND DAMAGES

14. Any claim for defected material should be received in written within eight (8) days from the receiving of the material. The customer could return the defected material to Watts Industries Italia S.r.l. at his own cost and only after written authorization.
15. Any damage or injury caused by incorrect operation of the product shall be notified within 24 hours, giving the name of the claimant and the approximate amount of the claim. Photographs of the damage or injury, together with the product allegedly responsible, shall subsequently be sent for laboratory examination. All evidence demonstrating the extent of the damage or injury (goods, etc.) shall be held at the disposal of Watts Industries Italia until the claim has been settled.
16. Watts Industries Italia S.r.l. declines all liability for injury to persons or animals or damage to property deriving from use of equipment without observing the safety instructions, or the use of equipment installed incorrectly and/or without performing the usual checks.
17. Any claims or disputes shall not entitle the customer to refuse to pay for the goods or to delay payment thereof.

WARRANTY

18. All Watts Industries Italia S.r.l. products are thoroughly tested; they are consequently guaranteed for two years from the date of issue of the invoice. The said guarantee covers replacement or repair, free of charge, of those components of the goods supplied which present manufacturing defects. I.I.P. brand products may be collected by I.I.P. for the conduct of tests, either directly from the market or from users, customers, retailers, sites, etc. The customer shall allow I.I.P.'s representatives access to perform tests and inspections to establish whether the products conform to the applicable standards. The warranty exclude any damage due to normal product usage or friction and do not include any modified or not authorized repairing. Excluding with this any responsibility from Watts Industries Italia S.r.l. in particular we will not accept any request for damage compensation. Any claims or disputes shall not entitle the customer to refuse to pay for the goods or to delay payment thereof

COMPLIANCE WITH U.S. EXPORT CONTROLS AND SANCTIONS LAWS

19. Both Watts Industries Italia S.r.l. and the client shall comply with applicable export controls and sanctions laws of the United States of America, including, but not limited to, the Export Administration Regulations administered by the Department of Commerce, Bureau of Industry and Security, and the various economic sanctions programs administered by the Department of the Treasury, Office of Foreign Assets Control. The client may not undertake any activity, or cause or require Watts Industries Italia S.r.l. to undertake any activity that would be reasonably likely to result in Watts Industries Italia S.r.l. or any of its representatives as a United States person, violating U.S. export controls and/or sanction laws.

PRIVACY

20. INFORMATION NOTICE REQUIRED BY THE LAW. For the purpose of entering into and performing contracts with you, we hold data relating to you, acquired in writing or verbally, directly or through third parties, which will be treated by us in accordance with the applicable law. Please make reference to our website www.wattsindustries.com for more information.

APPLICABLE LAW AND JURISDICTION

21. All disputes arising out of or in connection with this Agreement, including but not limited to disputes over interpretation, enforcement, termination or breach of the Agreement, shall be submitted to the exclusive jurisdiction of Italian Courts, in Milan .

