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# **BLACK TEKNIGAS**

# POWERING THE UK'S GAS CONTROL NEEDS

Black Teknigas is the UK's leading manufacturer of combustion, industrial, medical and laboratory gas control equipment.





With the most comprehensive range of gas control solutions available, we serve a wide range of market sectors and customers from large multi-national companies to small end users.

As a division of Watts Industries, one of the world's leading manufacturers of valves and controls, we offer an in-depth service to our customers across a wide range of industries, supplying products in volume either directly, or through our extensive distribution network across the UK and the rest of the world.

Where safety and reliability are absolutely critical, and where you need solutions that meet the highest production and quality standards possible, it's good to know you can rely on Black Teknigas.

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# **SECTION A – VALVES & ACCESSORIES**

# **GAS SAFETY SHUT-OFF VALVES**

#### ELECTRO-HYDRAULIC 'POWERSEAT' VALVES

Series 668 - Class "A" Safety Shut-off Valves, Normally closed

Gas families 1, 2 & 3

Screwed bodies - Cast Aluminium

Flanged bodies - Cast Iron



Part No.	Size/Style	
BC6683	1.1/2" Screwed	
BC6684	2" Screwed	
BC6685	2.1/2" Screwed	
BC6686	3" Screwed	
BC6685FL4	2.1/2" Flanged	
BC6686FL4	3" Flanged	
BC6687FL4	4" Flanged	
BC6689FL4	6" Flanged	
BC66810FL4	8" Flanged	
BC66811FL4	10" Flanged	

Optional extras	Description
BC668*/SW	Open Position Switch
Also available	110V 50Hz AC version +

Accessories	Description
BC66RS	PowerSet Manual reset switch (integral)
BC66RSR	PowerSet Manual reset switch (remote)
BC66ETF	PowerLink Thermal fuse
BC66MRF	PowerLink Resettable Thermal fuse
BC66ESB	PowerSev Emergency switch (Die-cast)
BC66ESB/P	PowerSev Emergency switch (Plastic)
BC66ESB/K	PowerSev Emergency switch – Key op,

With the exception of BC66RS all of the above are also suitable for use with all Solenoid Valves and with Electro-hydraulic valves of other manufacture, however installers should ensure that such products are approved to BS EN 161.

# PROVENGAS AUTOMATIC GAS PROVING AND ISOLATION SYSTEM



Comprises Control Panel and Isolation Unit.

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

ì	Dord No.	0:101.1.	
	Part No.	Size/Style	
	PG001	Provengas Gas Proving System	

# **GAS SAFETY SHUT-OFF VALVES**

# SERIES 2000 SOLENOID OPERATED VALVES

Series 2000 - Class "A" Safety Shut-off Valves, Normally closed

Gas Families 1, 2 & 3

Cast Aluminium bodies

# Fast Opening - Full Wave Rectified

Part No.	Size/Style	
2000 230V	3/4" BSP	
2001 230V	1" BSP	
2002 230V	1.1/4" BSP	
2003 230V	1.1/2" BSP	
2004 230V	2" BSP	

#### Fast Opening with Flow Adjuster

Part No.	Size/Style
2000 230V R	3/4" BSP
2001 230V R	1" BSP
2002 230V R	1.1/4" BSP
2003 230V R	1.1/2" BSP
2004 230V R	2" BSP

#### Fast Opening with Closed Position Indicator switch

Part No.	Size/Style	
2000 230V C	3/4" BSP	
2001 230V C	1" BSP	
2002 230V C	1.1/4" BSP	
2003 230V C	1.1/2" BSP	
2004 230V C	2" BSP	

# Slow Opening, Full Wave Rectified

Part No.	Size/Style	
2000 230V S	3/4" BSP	
2001 230V S	1" BSP	
2002 230V S	1.1/4" BSP	
2003 230V S	1.1/2" BSP	
2004 230V S	2" BSP	

# Slow Opening with Flow Adjuster

Part No.	Size/Style
2000 230V S R	3/4" BSP
2001 230V S R	1" BSP
2002 230V S R	1.1/4" BSP
2003 230V S R	1.1/2" BSP
2004 230V S R	2" BSP

#### Slow Opening with Closed Position Indicator switch

Part No.	Size/Style	
2000 230V S C	3/4" BSP	
2001 230V S C	1" BSP	
2002 230V S C	1.1/4" BSP	
2003 230V S C	1.1/2" BSP	
2004 230V S C	2" BSP	

#### Other Voltages and Accessories

Part No.	Size/Style
110V 50Hz	Change 230V to 110V
24V 50Hz	Change 230V to 24V
N101717100	PG11 Cable Gland for all Series 2000 Valves





# **GAS SAFETY SHUT-OFF VALVES**

#### TEKNI SOLENOID OPERATED VALVES



Series 22 - Vent Valve, Normally Open (i.e. not a Safety Shut-off Valve)

Gas Families 1, 2 & 3 Cast Aluminium Bodies

Closure within 1 sec. of power being applied

Part No.	Size/Style	
2231001-00	3/8" Single Body	
2241001-00	1/2" Single Body	

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

Gas Families 1, 2 & 3

Brass Bodies - 1/8" and 1/4" Aluminium Bodies - remainder

Series 24 – Class "B", Half Wave rectified (\* Class "A") Single Bodied Valves

Part No.	Size/Style	
2411001-00	1/8" BSP *	
2421001-00	1/4" BSP *	
2431211-00	3/8" BSP	
2441211-00	1/2" BSP	

#### Double Bodied "Multifunctional" Valves

Part No.	Size/Style
2432112-00	3/8" BSP – 2 Safety Shut-off Valves
2442112-00	1/2" BSP – 2 Safety Shut-off Valves
2433112-00	3/8" BSP - 2 Safety Shut-off Valves and Governor
2443112-00	1/2" BSP – 2 Safety Shut-off Valves and Governor
2435112-00	3/8" BSP – 1 Safety Shut-off Valve and Governor
2445112-00	1/2" BSP – 1 Safety Shut-off Valve and Governor

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

Part No.	Size/Style	
2511001-00	1/8" BSP *	
2521001-00	1/4" BSP *	
2531211-00	3/8" BSP	
2541211-00	1/2" BSP	

#### Double Bodied "Multifunctional" Valves

Part No.	Size/Style
2532000-00	3/8" BSP – 2 Safety Shut-off Valves
2542000-00	1/2" BSP – 2 Safety Shut-off Valves
2533112-00	3/8" BSP – 2 Safety Shut-off Valves and Governor
2543112-00	1/2" BSP – 2 Safety Shut-off Valves and Governor

Series 28 – Class "A" Single Bodied Valves

Part No.	Size/Style	
2811001-00	1/8" BSP	
2821001-00	1/4" BSP	
2831211-00	3/8" BSP	
2841211-00	1/2" BSP	
2851211-00	3/4" BSP	



# **GAS SAFETY SHUT-OFF VALVES**

#### TEKNI SOLENOID OPERATED VALVES



Series 28 – Class "A" – cont'd Double Bodied "Multifunctional" Valves

Part No.	Size/Style
2832112-00	3/8" BSP – 2 Safety Shut-off Valves
2842112-00	1/2" BSP – 2 Safety Shut-off Valves
2833112-00	3/8" BSP – 2 Safety Shut-off Valves and Governor
2843112-00	1/2" BSP – 2 Safety Shut-off Valves and Governor

Series 29 - Class "A" Single Bodied Valves

Part No.	Size/Style	
2911001-00	1/8" BSP	
2921001-00	1/4" BSP	
2931211-00	3/8" BSP	
2941211-00	1/2" BSP	

Double Bodied "Multifunctional" Valves

Part No.	Size/Style	
2932000-00	3/8" BSP - 2 Safety Shut-off Valves	
2942000-00	1/2" BSP - 2 Safety Shut-off Valves	

# THERMO-ELECTRIC VALVES AND ANCILLARY PRODUCTS

#### THERMO-ELECTRIC VALVES

# Series 37 and G840 Thermo-electric Valves

For use with Black Teknigas Thermocouples

Single burner applications, integral pilot fitted upstream of any governor or pilot



Part No.	Size/Style	
3703/3/8IN	3/8" BSP	
3703/1/2IN	1/2" BSP	
3702/3/4IN	3/4" BSP	
3702/1IN	1" BSP	
G840 HA	1/2" BSP	

Multi burner application, independent pilot supply

Part No.	Size/Style	
3705/3/8IN	3/8" BSP	
3705/1/2IN	1/2" BSP	
3706/3/4IN	3/4" BSP	
3706/1IN	1" BSP	

# **RELAY VALVES**



#### Series 21 Relay Valves

Gas Families 1, 2 & 3 Cast Aluminium Bodies All models 'High/Low' and 'Shut Off' operation

#### Series 21

Part No.	Size/Style	
2102/1IN	1" BSP 308 cu.ft/hr each	
2103/1.5IN	1 1/2" BSP 731 cu.ft/hr each	
2104/2IN	2" BSP 1309 cu.ft/hr each	

# THERMO-ELECTRIC VALVES AND ANCILLIARY PRODUCTS

#### **THERMOCOUPLES**

High Quality Universal, specific duty and replacement type thermocouples

Normal working temp. range 400 to  $600^{\circ}$ C.

Max. operating temp. 1000°C Drop out time typically 30 to 40 seconds



# Series 7000 - Universal Thermocouples including fittings pack

Part No.	Size/Style		
7000/EL/600MM	24" (600mm) Ext. Life		
7000/EL/900MM	36" (900mm) Ext. Life		
7000/EL/1200MM	48" (1200mm) Ext. Life		
7000/EL/1800MM	72" (1800mm) Ext. Life		
7000/EL/900MMA	36" (900mm) Ext. Life for LPG		
7001/S/900MM	36" (900mm) with Interrupter		
7002/900MM	36" (900mm) Long Life		
7003/900MM	36" (900mm) Super Universal		
7003/1200MM	48" (1200mm) Super Universal		
7003/900PLUS	36" (900mm) Superfit Plus Universal		
7004/900MM	36" (900mm) Gas Fire Universal		

# Additional Adaptor Packs for above Universal Thermocouples

Part No.	Size/Style	
7000/04	Perl, Black 5503	
7000/05	Perl A, B, C, D & E	
7000/12	Evered 9189, White Rodgers, Robertshaw	
7000/13	Teddington TJ	
7000/15	Speryn T582	
7000/26	Junkers, S.I.T.	
7000/304	M10 Split Nut	
7000/305	M9 Split Nut	
7000/306	11/32 Split Nut	
7000/307	M8 Split Nut	

#### **Customer Specific Series Thermocouples**

Part No.	Size/Style	Size/Style	
701062	36" (900mm) 9mm Fixed Nut		
701082	48" (1200mm) 9mm Fixed Nut		
701092	60" (1500mm) 9mm Fixed Nut		

# Sperryn Series T2066

Part No.	Size/Style	
710022	320mm	
710042	600mm	
710072	1000mm	
710092	1500mm	

#### Replacement Type Thermocouples

Replacement Type Thermocoupies			
Part No.	Size/Style/To Fit		
7/S38	Thorn Apollo		
7S/39A	Burco 54561		
703044	24" (600mm) Q309A Type		
703064	36" (900mm) Q309A Type		
703084	48" (1200mm) Q309A Type		
703060	36" (900)mm ITT Type		
703080	48" (1200mm) ITT Type		
712044	Thorn Olympic		
717033	Robinson Willey Bantam		
717052	Ideal Mexico		
721202A	Potterton 8929547		
7220212A	Main Medway Super		
722213	Main Medway		
724223	Valor Dream		
725171	Glowworm Fireblaze		
726041	Valor Heartbeat		
727064	Thorn M		
728143	Cannon Carress		
728214	Vokera Flowmatic		

Many other styles are available. Please contact our sales office for details.

# **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 (WRAS certified) or Viton. Electrical connection by DIN socket. Protection to IP 65s

#### Nitrile Diaphragm

Size/Style
3/8" BSP
1/2" BSP
3/4" BSP
1" BSP
1.1/4" BSP
1.1/2" BSP
2" BSP

# EPDM Diaphragm – WRAS Certified upto 1"BSP

Part No.	Size/Style
3001 230V-E	3/8" BSP
3002 230V-E	1/2" BSP
3003 230V-E	3/4" BSP
3004 230V-E	1" BSP
3005 230V-E	1.1/4" BSP
3006 230V-E	1.1/2" BSP
3007 230V-E	2" BSP

#### Viton Diaphram

Part No.	Size/Style	
3001 230V-V	3/8" BSP	
3002 230V-V	1/2" BSP	
3003 230V-V	3/4" BSP	
3004 230V-V	1" BSP	
3005 230V-V	1.1/4" BSP	
3006 230V-V	1.1/2" BSP	
3007 230V-V	2" BSP	

# Actuator only

Part No.	Size/Style
3000 A 230V	230 V 50 Hz
3000 A 110V	110 V 50 Hz
3000 A 24V	24 V 50 Hz

#### Other Voltages

Part No.	Detail	
110 V 50 Hz	Change '230V' in part no. to '110V'	
24 V 50 Hz	Change '230V' in part no. to '24V'	

# **MANUAL BALL VALVES**

Art 45/56 Nickel Plated Brass Body, PTFE Seats, Max. Working Pressure 40 bar. Lever Handle and Taper Threads as standard - see note below





Part No.	Size/Style
1/4" ART45 LH *	1/4" – 8mm
3/8" ART45 LH *	3/8" – 10mm
1/2" ART45 LH *	1/2" – 15mm
3/4" ART45 LH *	3/4" – 20mm
1" ART45 LH *	1" – 25mm
1 1/4" ART45 LH	1.1/4" – 32mm
1 1/2" ART45 LH	1.1/2" – 40mm
2" ART45 LH	2" – 50mm
2 1/2" ART45 LH	2.1/2" – 65mm
3" ART45 LH	3" – 80mm
4" ART45 LH	4" – 100mm

Art 46 - Male/Female BSP

_			
	Part No.	Size/Style	
	1/4" ART46 LH *	1/4" – 8mm	
	3/8" ART46 LH *	3/8" – 10mm	
	1/2" ART46 LH *	1/2" – 15mm	
	3/4" ART46 LH *	3/4" – 20mm	
	1" ART46 LH *	1" – 25mm	
	1 1/4" ART46 LH	1.1/4" – 32mm	
	1 1/2" ART46 LH	1.1/2" – 40mm	
	2" ART46 LH	2" – 50mm	
	NI-4 IVI AI 'I-I-		ala a construction for the UTLUI

Note: '\*' Also available with 'T' Handle – change suffix to "TH" For Parallel Threads insert 'P' after 'ART45'

Art. 70/71 – Brass Body, PTFE Seat, Max. Working Pressure 32 bar 3 Port – Female/Female/Female Lever Handle

Art. 70 - 3 Port 2 Way configuration

Size/Style
1/4" - 8mm each
3/8" – 10mm each
1/2" – 15mm each
3/4" – 20mm each
1" – 25mm each
1.1/4" – 32mm each
1.1/2" - 40mm each
2" – 50mm each

Art. 71 - 3 Port 3 Way configuration

, a.e						
	Size/Style	Part No.				
	1/4" - 8mm each	1/4" ART71 LH *				
	3/8" - 10mm each	3/8" ART71 LH *				
	1/2" - 15mm each	1/2" ART71 LH *				
	3/4" - 20mm each	3/4" ART71 LH *				
	1" – 25mm each	1" ART71 LH *				
	1.1/4" – 32mm	1 1/4" ART71 LH				
	1.1/2" – 40mm	1 1/2" ART71 LH				
	2" – 50mm	2" ART71 LH				
	1/4" – 8mm each 3/8" – 10mm each 1/2" – 15mm each 3/4" – 20mm each 1" – 25mm each 1.1/4" – 32mm 1.1/2" – 40mm	1/4" ART71 LH * 3/8" ART71 LH * 1/2" ART71 LH * 3/4" ART71 LH * 1" ART71 LH * 1 1/4" ART71 LH				



# **MANUAL BALL VALVES**

Art. 77 – Cast Iron Body, PTFE Seats, Brass Ball and Stem, Max.Working Pressure 16 bar Lever Handle

Art. 77 - Flanged

Part No.	Size/Style
1 1/2" ART77 LH	1.1/2" – 40mm
2" ART77 LH	2" – 50mm
2 1/2" ART77 LH	2.1/2" – 65mm
3" ART77 LH	3" – 80mm
4" ART77 LH	4" – 100mm
5" ART77 LH	5" – 125mm

Art. 78 – Cast Iron Body, PTFE Seats, Stainless Ball and Stem, Max.Working Pressure 16 bar Lever Handle

Art. 78 - Flanged

Part No.	Size/Style
1 1/2" ART78 LH	1.1/2" – 40mm
2" ART78 LH	2" – 50mm
2 1/2" ART78 LH	2.1/2" – 65mm
3" ART78 LH	3" – 80mm
4" ART78 LH	4" – 100mm
5" ART78 LH	5" – 125mm
6" ART78 LH	6" – 150mm

# **CHECK VALVES**

Art. 98 - Materials

Max. Working Pressure 16 bar Lever Handle

ART 98 - Check Valve

Part No.	Size/Style
3/8" H151 LH *	3/8" – 10mm
1/2" H151 LH *	1/2" – 15mm
3/4" H151 LH *	3/4" – 20mm
1" H151 LH *	1" – 25mm
1 1/4" H151 LH	1.1/4" – 32mm
1 1/2" H151 LH	1.1/2" – 40mm
2" H151 LH	2" – 50mm
2 1/2" H151 LH	2.1/2" – 65mm
3" H151 LH	3" – 80mm

# **MOTORISED BALL VALVES**

Art.45 Ball Valves (see Page 12) fitted with couplings for various motors (Not included)

Nickel Plated Brass Body, PTFE Seats, Max. Working Pressure 40 bar. Taper Threads as standard





Part No.	Size/Style
3/8BVMTS/AB1	3/8" – 10mm
1/2BVMTS/AB1	1/2" – 15mm
3/4BVMNT/AB1	3/4" – 20mm
1BVMNT/AB1	1" – 25mm
1.1/4BVMNT/AB1	1.1/4" – 32mm
1.1/2BVMNT/AB1	1.1/2" – 40mm
2BVMNT/AB1	2" – 50mm

#### Art.45 Ball Valves for AR2 motor

Part No.	Size/Style
3/8BVMTS/AR2	3/8" – 10mm
1/2BVMTS/AR2	1/2" – 15mm
3/4BVMNT/AR2	3/4" – 20mm
1BVMNT/AR2	1" – 25mm
1.1/4BVMNT/AR2	1.1/4" – 32mm
1.1/2BVMNT/AR2	1.1/2" – 40mm
2BVMNT/AR2	2" – 50mm
2.1/2BVMNT/AR2	2.1/2" – 65mm
3BVMNT/AR2	3" – 80mm

# Art.45 Ball Valves for AR2 motor

Size/Style
3/8" – 10mm
1/2" – 15mm
3/4" – 20mm
1" – 25mm
1.1/4" – 32mm
1.1/2" – 40mm
2" – 50mm
2.1/2" – 65mm
3" – 80mm



AB1 Gear Motor with Direct Connection onto the same axis

Electric Rotary Gear Motors, bi-directional, EMC approved.

Body and Cover – die cast aluminium, Enclosure IP54, Motor Shaft 10mm dia.

Rotation angle from  $20^{\circ}$  to  $180^{\circ}$ 

Ambient Temperature -10°C to +60°C

Complete with 2 end switches



Option	Part No.from options			Status	
	AB1	2	2		
Supply Voltage					
24V AC 50-60 Hz	A			Extra	
110V AC 50-60 Hz	В			Extra	
230V AC 50-60 Hz	С			Standard	
Rotation Time at 50 Hz					
7.5 seconds	Ó			Standard	
15 seconds	1			Standard	
30 seconds	2			Standard	
60 seconds	3			Standard	
Potentiometer					
Not fitted		00		Standard	
1 x 150 ohms		11		Extra	
1 x 1 kohm		13		Extra	
1 x 2.5 kohm		15		Extra	
2 x 150 ohms		21		Extra	
2 x 1 kohm		23		Extra	
2 x 2.5 kohm		25		Extra	
2 x 1ohm (Spectrol)		18		Extra	
2 x 5ohm (Spectrol)		18		Extra	
<b>Auxilliary Microswitches</b>					
Not fitted		C	)	Standard	
2 switches	2		2	Stocked Option	
Accessories					
Control Station and R	elay		S	Extra	
180° Rotation (if requ	ested with pote	entiometer)	18	Extra	
Mechanical Position I			0	Stocked Option	
Relay Control (On/Off			R1	Extra	

AR2 Gear Motor with Direct Connection onto the same axis

Electric Rotary Gear Motors, bi-directional, EMC approved.

Body and Cover – die cast aluminium, Enclosure IP54, Motor Shaft 9.5 mm square.

Rotation angle from  $20^{\circ}$  to  $180^{\circ}$  adjustable

Ambient Temperature -10°C to +60°C

Complete with 2 end switches

Option	Part N	o.from c	ptions				Status
	AR2			2	2		
Supply Voltage							
24V AC 50-60 Hz	A						Extra
110V AC 50-60 Hz	В						Extra
230V AC 50-60 Hz	С						Standard
Rotation Time at 50 Hz							
7.5 seconds		0					Standard
15 seconds		1					Standard
30 seconds		2					Standard
60 seconds		3					Standard
Potentiometer							
Not fitted			00				Standard
1 x 150 ohms			11				Extra
1 x 1 kohm			13				Extra
1 x 2.5 kohm			15			Extra	
2 x 2.5 kohm			25		Extra		Extra
Auxiliary Microswitches							
Not fitted				(	)		Standard
2 switches				2	2		Stocked Option
Accessories							
Control Station and R	elay					S	Extra
Multipolar Connectors	3					М	Extra
160°c Rotation (if req	uested	with pot	entiom	eter)		16	Extra
180°c Rotation (if req	uested	with pot	vith potentiometer) 18		Extra		
Auxilliary Shaft: 8mm	dia	A1		Extra			
Auxilliary Shaft: 9.5mi	m dia	A2 Extra		Extra			
Flange F3						F3	Extra
Flange F4						F4	Stocked Option
Clockwise Rotation						DX	
Relay Control On/Off						R1	Extra

# **JOVENTA ACTUATORS**



#### 24 Volt – 2 point Operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DAS1	8 Nm	30 sec	90		
DAS1s	8 Nm	30 sec	90	2	
DA 1	16 Nm	80 sec	90		
DA 1s	16 Nm	80 sec	90	2	
DAL 1	24 Nm	125 sec	90		
DAG 1	32 Nm	125 sec	90		
DAG 1s	32 Nm	125 sec	90	2	

# 24 Volt - Modulating Operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DMS1.1	8 Nm	30 sec	90		(1)
DMS1.1s	8 Nm	30 sec	90	2	(1)
DM 1.1	16 Nm	80 sec	90		(2)
DM 1.1s	16 Nm	80 sec	90	2	(2)

(1) 0-10V, 0(4)-20mA (2) 0(2)-10V, 0(4)-20mA

#### 24 Volt - Spring Return

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DA 1.Fs	16 Nm	90 sec	90	2	
DM 1.1F	16 Nm	90 sec	90		

# 230 Volt – 2 point Operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DAS2	8 Nm	30 sec	90		
DAS2s	8 Nm	30 sec	90	2	
DA 2	16 Nm	80 sec	90		
DA 2s	16 Nm	80 sec	90	2	
DAL 2	24 Nm	125 sec	90		
DAG 2	32 Nm	125 sec	90		
DAG 2s	32 Nm	125 sec	90	2	

#### 230 Volt - Modulating Operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DMS2.2	8 Nm	30 sec	90		(1)
DMS2.2s	8 Nm	30 sec	90	2	(1)
DM 2.2	16 Nm	80 sec	90		(2)
DM 2.2s	16 Nm	80 sec	90	2	(2)

(1) 0-10V, 0(4)-20mA

(2) 0(2)-10V, 0(4)-20mA

#### **JOVENTA ACTUATORS**

#### 230 Volt - Spring Return

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
DA 2.F	16 Nm	90 sec	90		

#### 110 Volt - Modulating Operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
SMS4.2s	8 Nm	30 sec	90	2	(3)
(3) 0(2)-10	V				

#### **Special Motors**

230 Volt - 2 point operation

Part No.	Torque Unit	Opening Time	Operating Angle	Auxilliary Switches	Input
SAS1.23s	6 Nm	30 sec	90	2	
SA 1.23s	16 Nm	80 sec	90	2	

#### Accessories

Part No.	Description
PA	Position Transmitter for surface mounting
PF	Position Transmitter for front mounting

# SPARE PARTS FOR GAS SAFETY SHUT OFF VALVES ETC

# POWERSEAT ELECTRO-HYDRAULIC VALVES – SPARE PARTS

Spares for series 660x, 662x and 664x are no longer available Series 666x and 668x

Part No.	To fit	Voltage
BC668S 110V	BC6663, 6664, 6683, 6684	110V 50Hz AC
BC668S 230V	BC6663, 6664, 6683, 6684	230V 50Hz AC
BC668LS 110V	BC6665, 6666, 6685, 6686	110V 50Hz AC
BC668LS 230V	BC6665, 6666, 6685, 6686	230V 50Hz AC
BC668HS 110V	BC6685FL4, 6686FL4	110V 50Hz AC
BC668HS 230V	BC6685FL4, 6686FL4	230V 50Hz AC
BC6687S 110V	BC6687FL4	110V 50Hz AC
BC6687S 230V	BC6687FL4	230V 50Hz AC
BC6689S 110V	BC6689FL4	110V 50Hz AC
BC6689S 230V	BC6689FL4	230V 50Hz AC
BC66810S 110V	BC66810FL4	110V 50Hz AC
BC66810S 230V	BC66810FL4	230V 50Hz AC
BC66811S 110V	BC66811FL4	110V 50Hz AC
BC66811S 230V	BC66811FL4	230V 50Hz AC
add suffix 'SW'	Open Position Switch	add extra

#### **Powerseat Accessories**

Part No.	Description
N101706000	Thermal Fuse for BC66ETF

# Provengas Automatic Gas Proving System – Spare Part

Part No.	Description
PGISO230V	Isolation Unit, including 2 valves and Pressure Switch
N0221	Spare Key and Barrel for BC66ESB/K



# **SPARE PARTS FOR GAS SAFETY SHUT OFF VALVES ETC**

# SOLENOID OPERATED VALVES - SPARE PARTS

#### Series 2000 Fast Opening

Part No.	To fit	Voltage
2000T01C	BC2000/2001 + 'R' & 'C' models	230V 50Hz AC
2000T01B	BC2000/2001 + 'R' & 'C' models	110V 50Hz AC
2000T01A	BC2000/2001 + 'R' & 'C' models	24V 50Hz AC
2000T03C	BC2002/2003 + 'R' & 'C' models	230V 50Hz AC
2000T03B	BC2002/2003 + 'R' & 'C' models	110V 50Hz AC
2000T03A	BC2002/2003 + 'R' & 'C' models	24V 50Hz AC
2000T04C	BC2004 + 'R' & 'C' models	230V 50Hz AC
2000T04B	BC2004 + 'R' & 'C' models	110V 50Hz AC
2000T04A	BC2004 + 'R' & 'C' models	24V 50Hz AC

#### Series 2000 Slow Opening

Part No.	To fit	Voltage
2000T02C	BC2000S/2001S + 'R' & 'C' models	230V 50Hz AC
2000T02B	BC2000S/2001S + 'R' & 'C' models	110V 50Hz AC
2000T02A	BC2000S/2001S + 'R' & 'C' models	24V 50Hz AC
2000T03C	BC2002S/2003S + 'R' & 'C' models	230V 50Hz AC
2000T03B	BC2002S/2003S + 'R' & 'C' models	110V 50Hz AC
2000T03A	BC2002S/2003S + 'R' & 'C' models	24V 50Hz AC
2000T04C	BC2004S + 'R' & 'C' models	230V 50Hz AC
2000T04B	BC2004S + 'R' & 'C' models	110V 50Hz AC
2000T04A	BC2004S + 'R' & 'C' models	24V 50Hz AC
2000T05C	2.1/2"	230V 50Hz AC
2000T05B	3"	110V 50Hz AC

#### Tekni Series 22 to 29 Series 22 – Vent Valve

Part No.	To fit	Voltage
25146/FS	All valves	230V 50Hz AC

# Series 23 - Class '1' - obsolete

Part No.	To fit	Voltage
ME/428	All valves – 3/8" to 3/4"	230V 50Hz AC
ME/463	All valves – 3/8" to 3/4"	110V 50Hz AC

#### Series 24 - Class 'B' - half wave rectified

Part No.	To fit	Voltage
2430412/FS	All valves – 1/8" to 1/2"	230V Spade Conn
2430414/FS	All valves – 1/8" to 1/2"	24V Spade Conn
2430422/FS	All valves – 1/8" to 1/2"	230V Flying Lead
2430424/FS	All valves – 1/8" to 1/2"	110V Flying Lead
2430426/FS	All valves – 1/8" to 1/2"	24V Flying Lead

# Series 25 - Class 'B' - full wave rectified

Part No.	To fit	Voltage
25146/FS	All valves – 1/8" to 1/2"	230V Spade Conn
25126/FS	All valves – 1/8" to 1/2"	24V Spade Connector
ME/487	DIN plugs to suit spade connections	

#### Series 26 - Class '1' - obsolete

Part No.	To fit	Voltage
2330125/FS	All valves – 1/8" to 1/4"	230V Spade Conn

# SPARE PARTS FOR GAS SAFETY SHUT OFF VALVES ETC

#### SOLENOID OPERATED VALVES - SPARE PARTS

Series 28 - Class 'A'

Part No.	To fit	Voltage
2330125/FS	All valves – 1/8" to 1/4"	230V Spade Connector
C103025900/FS	All valves – 3/8" to 1/2"	230V DIN Connector
ME/428	All valves – 3/4" 230V	Spade Connector

#### Series 29 - Class 'A' - High Pressure

Part No.	To fit	Voltage
C103025900/FS	All valves - 1/8" to 1/2"	230V DIN Conn

# SPARE PARTS FOR GAS SAFETY SHUT OFF VALVES ETC

#### BLACK 'SUPERSEAL' SOLENOID VALVES - SPARE PARTS

Series 69 – obsolete, no spares available Series 79 – Class 'A' – full wave rectified – solenoid assemblies c/w rectifier

Part No. To fit	Voltage
SA79110V BC7900, 7901, 7903	110V 50Hz AC
SA79230V BC7900, 7901, 7903	230V 50Hz AC

Series 89 - Class 'A' - full wave rectified - actuator assemblies c/w rectifier

Part No.	To fit	Voltage
SA89230V	BC8900, 8901, 8903	230V 50Hz AC
No fruther o	maraa ayailahla far ahaalata	Diagles Colonaid values of any Carios

No further spares available for obsolete Blacks Solenoid valves of any Series

#### TEKNI THERMO-ELECTRIC CONTROLS - SPARE PARTS

# Series 37 and G840

Part No.	Description
3701/110	Push Button Assembly – 3701/3703/3705
3702/127	Push Button Assembly – 3702/3706
T3622	Push Button Assembly – G840/880 1/2"
T1941	Push Button Assembly – G840/880 3/4"
T1703	Gasket – T3622
T1851	Gasket – T1941
MB1/FS	Electro-mag.hood assy3701/3703 and G840/880 1/2"
3702/140	Pilot Assembly – 3702
3705/100	Pilot Assembly – 3705
3706/104	Pilot Assembly – 3706
T3529	Magnet unit G840/880 3/4"

#### TEKNI RELAY VALVES - SPARE PARTS

# Series 21 and G800

Part No.	Description
T1861	Diaphragm – G800/880 3/4"
T1862	Diaphragm – G800/880 1/2"
2102/103	Diaphragm – 2102 1"
2103/103	Diaphragm – 2103/1.1/2"
2104/103	Diaphragm – 2104/103
T2374	Diaphragm & valve assembly – G800/880 1/2"
T2375	Diaphragm & valve assembly – G800/880 3/4"

# SECTION B – BURNERS, BURNER CONTROLLERS, ACCESSORIES ETC

# **ELECTRONIC BURNER SEQUENCE CONTROLLERS**

ATMOSPHERIC AND FORCED DRAUGHT BURNERS



Series 'Microflat' - Fully Automatic Control Integral Spark, Flame Rectification (ionisation) only

Part No.	Description
SE 11 F 230V	2 valve, 2 probe control for atmos.burners
SE 31 F 230V	2 valve, 2 probe for atmos.& forced draught burners
SM 11 KIT	Electrical Termination kit for above
SM 11 RS	Reset Button for above – if required

Atmospheric Burner Applications only Series BA and SM – Semi and Fully Automatic Controls

Part No.	Description
BA1-230V	Semi Automatic Flame Rectification or UV – 230V
SM592-230V	Fully Automatic – Flame Rectification only – 230V
SM592-110V	Fully Automatic – Flame Rectification only – 110V

#### Accessories for above

Part No.	Description
1201/230V	Spark Generator – 230V
1201/110V	Spark Generator – 110V
UV1	Ultra Violet Detector Head
ME39/FS	Electrode (probe) – 6"
ME233/FS	Electrode (probe) – 12"
1001	Ignition lead type ME26
O300	Ignition lead type ME438

# **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

Part No.	Usage
1300/N	Natural Gas
1300/LPG	Liquified Petroleum Gas

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

Part No.	Usage
1101/N	Natural Gas
1101/LPG	Liquified Petroleum Gas

#### **PILOT BURNERS**

# COMMERCIAL/DOMESTIC PILOT ASSEMBLIES FOR NATURAL GAS AND LPG

#### Series 'Y' – Compact aerated, low consumption burner

Available in three styles :-

Type 'A' – Horizontal Flame with Vertical Flame at 90 deg

Type 'B' - Horizontal Flame with Upward Flame at 120 deg

Type 'C' - Two Horizontally Opposed Flames

Part No.	Usage
Y100	Type 'A' – Natural Gas
Y104	Type 'B' – Natural Gas
Y108	Type 'C' – Natural Gas
Y166	Type 'A' – Liquified Petroleum Gas
Y177	Type 'B' – Liquified Petroleum Gas
Y175	Type 'C' – Liquified Petroleum Gas

#### Series CTB Monogas and Universal Pilot Burners 1, 2, and 3 flame models

Part No.s consist of four elements, as follows

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

 $Second\ Element-(MV\ vertical\ gas\ entry;\ MO\ horizontal\ gas\ entry;\ U\ horizontal\ gas\ entry;\ NO\ horizontal\ gas\ entry;\ U\ horizontal\ entry;\ U\ horizontal\$ 

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"



Part No.	Description
See above	See above
Standard connection is	6mm comp. But 4mm can be supplied to special order

#### Accessories

Part No.	Description
MG18	CTB Electrode
MG20	Piezo Ignitor
MG21	H.T. Cable
MG22	Flat Connector
MG25	Ring Connector
PTK6MM	Pilot Tube Kit 6mm x 1 metre

# **TEKNI GAS INJECTORS**





Part No.	Description
117/.75IN	3/4" connection, 3/8" inlet, 1/4" jet, 30,000 BTU
117/1IN	1" connection, 3/8" inlet, 1/4 jet, 45, 000 BTU
117/1.25IN	1.1/4" connection, 1/2" inlet, 3/8" jet, 80,000 BTU
117/1.5IN	1.1/2" connection, 3/4" inlet, 3/8" jet, 135,000 BTU
117/2IN	2" connection, 1" inlet, 1/2" jet, 180,000 BTU

Jets - Type 117 injectors - pilot drilled only

Part No.	Description	
123/210	or 3/4" and 1"	
123/211	for 1.1/4" and 1.1/2"	
123/212	for 2"	

#### **TEKNI GAS INJECTORS**



Series 168 Fabricated Steel Body, Brass Jet (pilot drilled)

Part No.	Description
168/1IN	1" connection, 1/2" inlet, 1/4" jet, 30,000 BTU
168/1.25IN	1.1/4" connection, 3/4" inlet, 3/8" jet, 45,000 BTU
168/1.5IN	1.1/2" connection, 3/4" inlet, 3/8" jet, 135,000 BTU
168/2IN	2" connection, 1" inlet, 1/2" jet, 180,000 BTU

Jets - Type 168 injectors - pilot drilled only

Part No.	Description	
201/102	for 1"	
201/104	for 1.1/4" and 1.1/2"	
201/106	for 2"	

# **TEKNI ATMOSPHERIC GAS BURNERS**

# BURNERS FOR INDUSTRIAL, COMMERCIAL, CATERING AND DOMESTIC APPLICATIONS

#### Series SQ

End Feed – "EFBSP" – for use with injectors type 117 or 168 Bottom Feed – "BF" – for use with injectors type 117 or 168



# 1 1/2" SQ Bottom Feed

Part No.	Flame Length
1.5/SQ/6/BF	6"
1.5/SQ/9/BF	9"
1.5/SQ/12/BF	12"
1.5/SQ/18/BF	18"
1.5/SQ/24/BF	24"
1.5/SQ/30/BF	30"
1.5/SQ/36/BF	36"
1.5/SQ/42/BF	42"
1.5/SQ/48/BF	48"

#### 1 1/2" SQ End Feed BSP

Flame Length
6"
9"
12"
18"
24"
30"
36"
42"
48"

# **TEKNI ATMOSPHERIC GAS BURNERS**

Series SQ cont'd 2" SQ Bottom Feed

Flame Length
6"
9"
12"
18"
24"
30"
36"
42"
48"

#### 2" SQ End Feed BSP

Part No.	Flame Length
2/SQ/6/BF	6"
2/SQ/9/BF	9"
2/SQ/12/BF	12"
2/SQ/18/BF	18"
2/SQ/24/BF	24"
2/SQ/30/BF	30"
2/SQ/36/BF	36"
2/SQ/42/BF	42"
2/SQ/48/BF	48"

SQ burners are also available in Stainless, in the following sizes at an additional premium. Add '/SS' to the part number

Part No.	Sizes
See above	1.5" SQ x 6"
See above	1.5" SQ x 9"
See above	1.5" SQ x 12"

The following additional features are available as extras on all SQ Burners in order that a Burner may be customised to a particular requirement

Part No.	Sizes	
Premix per addi	tional inch – 1.1/2" burners	
Premix per addi	tional inch – 2" burners inch 3.5	
Blank ends – 1.	1/2" burners	
Blank ends – 2"	burners	

Additional Jets – see type 168 injectors

# Series Teknipol

Medium Output Burners

A series of bladed, bar and tube burners are available for certain applications and heat outputs

Full technical specification and prices are available from the sales office



# **TEKNI ATMOSPHERIC GAS BURNERS**

#### **SERIES MHR**



Medium Heat Release Burners - 1" Injector Connection size Heat Release - 4,000 to 15,000 BTU's per hour per 12" length Supplied in two styles :

End Feed – "EFBSP" – for use with injectors type 117 or 168 Bottom Feed – "BF" – for use with injectors type 117 or 168

#### Series MHR Bottom Feed

Part No.	Flame Length
1/MHR/12/BF	12"
1/MHR/18/BF	18"
1/MHR/24/BF	24"
1/MHR/30/BF	30"
1/MHR/36/BF	36"
1/MHR/42/BF	42"
1/MHR/48/BF	48"

#### Series MHR End Feed BSP

Part No.	Flame Length
1/MHR/12/EFBSP	12"
1/MHR/18/EFBSP	18"
1/MHR/24/EFBSP	24"
1/MHR/30/EFBSP	30"
1/MHR/36/EFBSP	36"
1/MHR/42/EFBSP	42"
1/MHR/48/EFBSP	48"

#### SERIES LHR AND BLB



Low Heat Release and Bridging Ladder Burners

Heat Release – 2000 to 4000 BTU's per hour per 12" length

Supplied Complete With Injectors, pilot drilled only, in three styles

Bottom Feed "BF"

End Feed – "EFBSP" Side Feed – "SFBSP"

# Bottom Feed "BF"

Part No.	Flame Length
1/2/LHR/6/BF	6"
1/2/LHR/9/BF	9"
1/2/LHR/12/"BF	12"
1/2/LHR/18/BF	18"
1/2/LHR/24/BF	24"
1/2/LHR/30/BF	30"
1/2/LHR/36/BF	36"
1/2/LHR/42/BF	42"
1/2/LHR/48/BF	48"
1/2/LHR/60/BF	60"
1/2/LHR/72/BF	72"

# **TEKNI ATMOSPHERIC GAS BURNERS CONT'D**

# SERIES LHR AND BLB CONT'D



#### End Feed - "EFBSP"

Flame Length
6"
9"
12"
18"
24"
30"
36"

#### Side Feed - "SFBSP"

Part No.	Flame Length
1/2/LHR/6/SFBSP	6"
1/2/LHR/9/SFBSP	9"
1/2/LHR/12/"SFBSP	12"
1/2/LHR/18/SFBSP	18"
1/2/LHR/24/SFBSP	24"
1/2/LHR/30/SFBSP	30"
1/2/LHR/36/SFBSP	36"

#### Available in Stainless steel

The following additional features are available as extras for all LHR/BLB Burners in order that a Burner may be customised to a particular requirement

End Feed - "EFBSP"

Part No.	Details
	Premix and Blank extension per 6" or part
	Brackets fitted for flame detection/ignition
	Brackets for 1100ser. pilot bnr and t'couple
	Double Bottom Feed
	Additional length of studding – per inch
	1 Bracket attached plus 1 probe
	2 Brackets attached plus 2 probes
SA191/120	48" Tube/retention strip for fully customised ladder
	pilot manufacture
SA191/114	3/8"BSP inj. To 1/4" BSP female conn
SA191/113	1/4" BSP inj. to 1/4" com.union
201/101	Spare 1BA jet (pilot drilled only)

# SERIES 370 MULTIGAS RING BURNER

#### Bottom Feed "BF"

Part No.	Details	
370/N	Ring Burner	
	Spare Jet	

There are no spare parts available for any item in this section. Jets etc. for burners and injectors are quoted in their respective sections above

# **SECTION C - PRESSURE CONTROLS**

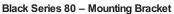
# **PRESSURE SWITCHES - LOW PRESSURE**

Low Pressure Switches for Positive, Negative and Differential Pressure applications

Range from 0.25 mbar to 2.1 bar

Black Series 80 - Positive, Negative and Differential Pressure Switch

Part No. Press	ure Range
BC8039A 0.25 t	o 2.5 mbar each
BC8062 2.3 to	15 mbar each



Part No.	Description
BC17512	Mounting Bracket

Black Series 81 - Positive, Negative and Differential Pressure Switch

Part No.	Pressure Range	
BC8102	25 to 250 mbar	
BC8104	70 to 1050 mbar	
BC8106	350 to 2100 mbar	

Actu Series LDH - Positive, Negative and Differential Pressure Switch

	Part No.	Pressure Range	
1	ACTU020001	LDH/0 - 0.25 to 0.63 mbar	
	ACTU020002	LDH/1 – 0.63 to 3.24 mbar	
	ACTU020003	LDH/7 - 2.50 to 17.5 mbar	
	ACTU020004	LDH/28 - 17.00 to 70.00 mbar	

Actu Series LDH – as above but with Pressure Setting Indicator

Part No.	Pressure Range	
ACTU020101	LDH/0/V - 0.25 to 0.63 mbar	
ACTU020102	LDH/1/V - 0.63 to 3.24 mbar	
ACTU020103	LDH/7/V - 2.50 to 17.5 mbar	
ACTU020104	LDH/28/V – 17.00 to 70.00 mbar	

Actu Series LDH - as above but with optional Pressure Entry in base

Part No.	Pressure Range	
ACTU020201	LDH/0/E - 0.25 to 0.63 mbar	
ACTU020202	LDH/1/E - 0.63 to 3.24 mbar	
ACTU020203	LDH/7/E - 2.50 to 17.5 mbar	
ACTU020204	LDH/28/E - 17.00 to 70.00 mbar	

Actu Series LDH - as above but with Weatherproof Enclosure

Part No.	Pressure Range
ACTU020301	LDH/0/W - 0.25 to 0.63 mbar
ACTU020302	LDH/1/W - 0.63 to 3.24 mbar
ACTU020303	LDH/7/W - 2.50 to 17.5 mbar
ACTU020304	LDH/28/W - 17.00 to 70.00 mbar

Actu Series LDH - Mounting Bracket

Part No.	Description	
ACTU320400	LDH Mounting Bracket	





# **PRESSURE SWITCHES - LOW PRESSURE**

Actu Series LDK - Positive Pressure Switch

Part No.	Pressure Range
ACTU021002	LDK/2P - 0.4 to 5.0 mbar
ACTU021003	LDK/10 – 4.0 to 25 mbar
ACTU021004	LDK/40 - 15 to 100 mbar
ACTU021005	LDK/70 - 25 to 180 mbar

Actu Series LDK – as above but with Manual Reset

Part No.	Pressure Range
ACTU021403	LDK/10/R1 – 4.0 to 25 mbar – Lockout on Rise
ACTU021404	LDK/40/R1 – 15 to 100 mbar – Lockout on Rise
Not available with	either FWA3 or EEX Enclosures

#### Actu Series LDK - Mounting Bracket

Part No.	Description
ACTU021391	LDK Mounting Bracket

# Actu Series LDQ - Positive, Negative and Differential Pressure Switch – meets IM13

General Purpose Switch with 1/4" BSP Spigot entry and 1/8" Tapping for Pressure test point



Part No.	Pressure Range	
ACTU023069	LDQ/069 - 0.4 to 0.8 mbar	
ACTU023062	LDQ/062 - 0.5 to 3.5 mbar	
ACTU023063	LDQ/063 - 1.3 to 15 mbar	
ACTU023064	LDQ/064 - 10 to 55 mbar	
ACTU023065	LDQ/065 - 30 to 100 mbar	

As Series LDQ above, but with shorter spigot and no pressure test point.

Part No.	Pressure Range
ACTU023049	LDQ/049 – 0.4 to 0.8 mbar each
ACTU023042	LDQ/042 – 0.5 to 3.5 mbar each
ACTU023043	LDQ/043 – 1.3 to 15 mbar each
ACTU023044	LDQ/044 – 10 to 55 mbar each
ACTU023045	LDQ/045 – 30 to 100 mbar each

#### Actu Series LDQ - Mounting Bracket

Part No.	Description
ACTU323350	LDQ Mounting Bracket

Microswitches for use in LDH, LDK, LDQ Pressure Switches – add suffixes as follows:-

Suffix	Description
ACTUxxxxxx/11	Microswitch with Gold Plated Contacts
ACTUxxxxxx/P	C6R06 Low Hysteresis Mic.switch (Not LDQ)
ACTUxxxxxx/S	CR1 Heavy Duty Microswitch (Not LDQ)

# **PRESSURE SWITCHES - LOW PRESSURE**

Inlet pressure pipe connection: Rp 1/4" female, Differential Pressure Connection Rp 1/8" female

Part No.	Pressure Range	
C6097A2110	1.0 to 10.0 mbar	
C6097A2210	2.5 to 50.0 mbar	
C6097A2310	30 to 150 mbar	
C6097A2410	100 to 500 mbar	

#### Accessories and Extras

Part No.	Description
ACTU020390	Duct Mounting Kit LDQ/LDH – Single Wall
ACTU020392	Duct Mounting Kit LDQ/LDH – Twin Wall
ACTU021390	Duct Mounting Kit LDK – Single Wall
ACTU021392	Duct Mounting Kit LDK – Twin Wall
ACTU111177	1/4" BSP to 1/4" Hose Connector
ACTU411366	1/4" Fibre Washer for ACTU111177
ACTU111184	1/8" BSP to 1/4" Hose Connector
ACTU411372	1/8" Fibre Washer for ACTU111184
ACTU411461	Flexible Tube 6mm ID x 9mm OD
ACTU111132	19mm Duct Grommet for ACTU411461
ACTU111186	Two Piece Duct Connector
ACTU111187	One Piece Duct Connector
M000005000	MG29 20mm Plastic Cable Gland
ACTU221170	1/4" BSP Blanking Plug

# **PRESSURE SWITCHES - HIGH PRESSURE**



High Pressure Switches for Positive, Negative and Differential Pressure applications

Industrial and Process applications in the range from -0.1 bar to 350 bar

Black Series 82 - Positive Pressure Switch

Part No.	Pressure Range	
BC8201	14 to 35 bar	
BC8202	35 to 140 bar	
BC8203	140 to 280 bar	

Series Supermin – Miniature Positive and Negative Pressure Switches

Pressure Range
SM1 – 0.1 to 1.0 bar
SM2 – 0.4 to 2.5 bar
SM3 – 1.0 to 10 bar
SM4 – 4.0 to 25 bar
SM5 – -0.07 to -1.0 bar Negative Pressure
Degreased Version of any above
Plug-in Version of any above

# **PRESSURE SWITCHES - HIGH PRESSURE**

Series 38 - Miniature Positive Pressure Switch, Preset and Adjustable, Stainless

Part No.	Pressure Range
ACTU038112	3811/20 – 0.2 to 1.4 bar – Preset
ACTU038111	3811/100 – 1.4 to 7 bar – Preset
ACTU038125	3812/500 – 3.5 to 35 bar – Preset
ACTU038132	3813/20 – 0.2 to 1.4 bar – Adjustable
ACTU038131	3813/100 – 1.0 to 7 bar – Adjustable
ACTU038145	3814/500 – 3.5 to 35 bar – Adjustable
ACTU038165	3816/5000 – 35 to 350 bar – Preset
ACTU038185	3818/50000 – 35 to 350 bar – Adjustable
ACTU038011	Plug and Lead (2 metres) for Series 38
ACTU038XXX/05	Plug and Lead Heatshrink
ACTU038XXX/06	Lead (Soldered) Heatshrink

Series Univar 7 – General Purpose Positive and Negative Pressure Switches Fixed Reset Differential

Part No.	Pressure Range	
5260001	J1 – 0.1 to 1.0 bar	
5260002	J2 – 0.4 to 4.0 bar	
5260003	J3 – 1 to 10 bar	
5260004	J4 – 4 to 40 bar	
5260005	JV0.1 to -1.0 bar	

#### Adjustable Reset Differential

Part No.	Pressure Range	
5261001	K1 – 0.1 to 1.0 bar	
5261002	K2 – 0.4 to 4.0 bar	
5261003	K3 – 1 to 10 bar	
5261004	K4 – 4 to 40 bar	
5261005	KV0.1 to -1.0 bar	

# Adaptors

Part No.	Description Unit	
5602001	1/4" x 1/4" BSP male	
5602002	1/4" x 1/2" BSP male	
5602003	1/4" BSP x 6mm Copper	



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# **Product range Watts Industries**

- System Disconnectors
- Backflow Protection Devices
- Check Valves Safety Units
- Safety Relief Valves
- Pressure Reducing Valves
- Automatic Control Valves
- Butterfly Valves
- Shut-Off Valves
- Measuring Gauges

- Temperature Control
- Expansion Vessels
- Process Switches
- Fuel Products
- Gas Products
- Electronic Controls
- Installation Protection Products
- Radiator Valves
- System Products
- Manifolds and Fittings



**Black Teknigas Ltd** 

Colmworth Business Park, Eaton Socon PE19 8YX Phone +44 (0)1480 407074 - Fax +44 (0)1480 407076

E-mail sales@blackteknigas.co.uk - Site www.blackteknigas.com