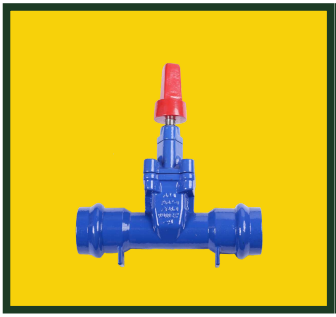
WOODLANDS ENGINEERING (PTY) LTD

TEL: +27 11 794-9033

"Man is the only creature that dares light a fire and live with it.
The reason? Because he alone has learned to put it out."

Henry Jackson Vandyke, Jr.

Woodlands Engineering (Pty) Ltd has been manufacturing quality products for the world market for 30 years.



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WSK-16

ITEM NO. 1(A) WSK-16
DESCRIPTION: TEE-KEY for a 16mm spindle Square manufactured in Light Alloy

WDK-1221

ITEM NO. 1(B): WDK-1221
DESCRIPTION: 12mm; 16mm; 19mm; 21mm CROSS KEY manufactured in Light Alloy

WTS-80

ITEM NO. 2: WTS-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Tamperproof Hydrant with Single Lug Instantaneous Outlet and 80mm Male BSP Inlet

Woodlands Engineering (Pty) Ltd T/A Woodlands Fire has patents on several of our products.
Woodlands also carries patents on many of the individual components found inside the products.
The company also have registered designs on several of the products to ensure that our customers always get the highest quality in fire equipment.

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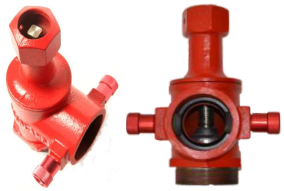
WHS-80

ITEM NO. 3: WHS-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Hand Wheel Hydrant with Single Lug Instantaneous Outlet and 80mm Male BSP Inlet



WTD-80

ITEM NO. 4: WTD-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Tamperproof Hydrant with Double Lug Instantaneous Outlet and 80mm Male BSP Inlet

WHD-80

ITEM NO. 5: WHD-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Hand Wheel Hydrant with Double Lug Instantaneous Outlet and 80mm Male BSP Inlet

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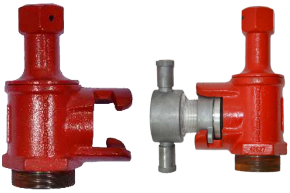

WTB-80

ITEM NO. 6: WTB-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Tamperproof Hydrant with Bayonet Outlet and 80mm Male BSP Inlet (Adaptor sold separately)

WHB-80

ITEM NO. 7: WHB-80
DESCRIPTION: 80mm x 65mm Cast Iron Right Angle Hand Wheel Hydrant with Bayonet Outlet and 80mm Male BSP Inlet

HOSER 30

ITEM NO. 8: HOSER 30
DESCRIPTION: 30 Meter Hose Reel complete with Stop Cock and Plastic Nozzle (Aluminium nozzle available on request)

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WBC-65

ITEM NO. 9: WBC-65
DESCRIPTION: Bayonet to 65mm Female Instantaneous Adaptor for Above Ground Hydrant

WTD-80SS

ITEM NO. 10 (A): WTD-80SS
DESCRIPTION: 80mm x 65mm STAINLESS STEEL Right Angle Tamperproof Hydrant with Double Lug Instantaneous Outlet and 80mm Male BSP Inlet

WHD-80SS

ITEM NO. 10 (B): WHD-80SS
DESCRIPTION: 80mm x 65mm STAINLESS STEEL Right Angle Hand Wheel Hydrant with Double Lug Instantaneous Outlet and 80mm Male BSP Inlet

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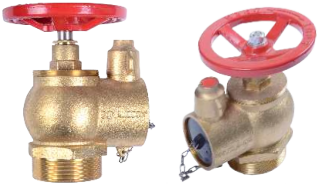
WMI-65

ITEM NO. 11: WMI-65
DESCRIPTION: 65mm Male Instantaneous Hose Coupling in Aluminium



WHS-80B

ITEM NO. 12: WHS-80B
DESCRIPTION: 80mm x 65mm BRASS Right Angle Hand Wheel Hydrant with Single Lug Instantaneous Outlet and 80mm Male BSP Inlet

WTZ-100

ITEM NO. 13 (A): WTZ-100
DESCRIPTION: Right Angle Tamperproof Hydrant with 100mm Storz Outlet and 100mm Female BSP Inlet

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WTW-100

ITEM NO. 13 (B): WTW-100
DESCRIPTION: Right Angle Tamperproof Hydrant with 100mm Woodlands Thread Outlet and 100mm Female BSP Inlet

WTS-80B

ITEM NO. 14: WTS-80B
DESCRIPTION: 80mm x 65mm BRASS Right Angle Tamperproof Hydrant with Single Lug Instantaneous Outlet and 80mm Male BSP Inlet

LAYHOSE 30

ITEM NO. 15: LAYHOSE 30
DESCRIPTION: 65mm x 30 Meter White Canvas Lay Flat Hose complete with 65mm Aluminium Male and Female Instantaneous Hose Couplings

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WSN-65

ITEM NO. 16 (A): WSN-65
DESCRIPTION: 65mm Aluminium Straight Through Nozzle

WAN-65

ITEM NO. 16 (B): WAN-65
DESCRIPTION: 65mm Aluminium Adjustable Spray Nozzle

WMB-100

ITEM NO. 17 (A): WMB-100
DESCRIPTION: 100mm Two-Port Booster with 65mm Brass Booster Connectors and Pressure Gauge and 100mm T/16 Inlet

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WMB-80

ITEM NO. 17 (B): WMB-80
DESCRIPTION: 80mm Two-Port Booster with 65mm Brass Booster Connectors and Pressure Gauge and 80mm T/16 Inlet

WBB-65

ITEM NO. 18: WBB-65
DESCRIPTION: 65mm Brass Booster Connector complete with cap and chain

WNV

ITEM NO. 19: WNV
DESCRIPTION: 100mm Non-Return Flanged Valve T/16 (Also available in 80mm and 150mm)

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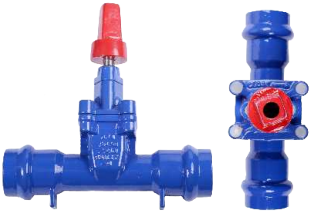
WHE-100

ITEM NO. 20: WHE-100
DESCRIPTION: 100mm Hi-Efficiency Hydrant with 100mm Woodlands Thread and 65mm London Round Thread Outlet



RSV GATE VALVE SOCKETED

ITEM NO. 21: RSV GATE VALVE
DESCRIPTION: RSV Gate Valve - Socketed Available in various sizes - Cap Top or Hand Wheel operated RHC or LHC
ISO-9001 APPROVED

RSV GATE VALVE FLANGED

ITEM NO. 22: RSV GATE VALVE
DESCRIPTION: RSV Gate Valve - Flanged Available in various sizes - Cap Top or Hand Wheel operated RHC or LHC
ISO-9001 APPROVED

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WDF-90

ITEM NO. 23 (A): WDF-90
DESCRIPTION: 100mm 90 Degree Duck Foot Bend Flanged T/D or T/16

WDF-80

ITEM NO. 23 (B): WDF-80
DESCRIPTION: 80mm 90 Degree Duck Foot Bend Flanged T/D or T/16

WU T3 V80R/L

ITEM NO. 24: WU T3 V80R/L
DESCRIPTION: 80mm Underground Hydrant with 65m London Vee Thread Outlet and 80mm Multi-Drilled Flange Inlet - LHC/RHC Cap Top. Hydrant is F.B.E Coated

Woodlands Engineering (Pty) Ltd T/A Woodlands Fire has patents on several of our products. Woodlands also carries patents on many of the individual components found inside the products. The company also have registered designs on several of the products to ensure that our customers always get the highest quality in fire equipment.

WU T3 R80R/L

ITEM NO. 25: WU T3 R80R/L
DESCRIPTION: 80mm Underground with 65mm London Round Thread Outlet and 80mm Multi-Drilled Flange Inlet - LHC/RHC Cap Top. Hydrant is F.B.E Coated

WU T3 B80R/L

ITEM NO. 26: WU T3 B80R/L
DESCRIPTION: 80mm Underground Hydrant with 65mm Bayonet Outlet and 80mm Multi-Drilled Flange Inlet - LHC/RHC Cap Top. Hydrant is F.B.E Coated

WMB-UG

ITEM NO. 27: WMB-UG
DESCRIPTION: Cast Iron Underground Hydrant Box with hinged lid

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WPK-1200

ITEM NO. 28: WPK-1200
DESCRIPTION: 1 Metre Aluminium Poker and Key
(Other lengths available on request)

WSP-1200

ITEM NO. 29: WSP-1200
DESCRIPTION: 65mm x 1.2 Metre Aluminium Stand Pipe complete with Goose Neck and Bayonet/LRT/LVT Inlet

WUHFL-80

ITEM NO. 30: WUHFL-80
DESCRIPTION: Above Ground Oblique Hydrant. This hydrant can be supplied as upward or downward oblique with various screwed and flanged inlets. Hand-Wheel or Tamperproof versions available. Hydrant is fabricated Steel and F.B.E coated.

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HSP-80/100

ITEM NO. 31: HSP-80/100
DESCRIPTION: Woodlands 80mm or 100mm Hydrant Stands complete with Fire Hydrant as per request. Galvanised Piping to required length and inlet according to specification. Assembled to requirements and pressure tested at factory. Gasket sets available on request

CAST IRON FLANGE ADAPTOR

ITEM NO. 32: CAST IRON FLANGE ADAPTOR
DESCRIPTION: Woodlands supplies a range of different Cast Iron Flange Adaptors to suit customer requirements. Available in F.B.E Coating for coastal regions.

CAST IRON T-PIECE

ITEM NO. 33: CAST IRON T-PIECE
DESCRIPTION: Woodlands supplies a range of different Cast Iron T-Pieces to suit customer requirements. Available in F.B.E Coating for coastal regions.

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WPGA-65

ITEM NO. 34: WPGA-65
DESCRIPTION: Woodlands Pressure Gauge Adaptor complete with Ball Valve.
Used for reading static water pressure

WSP-330

ITEM NO. 35: WSP-330
DESCRIPTION: Woodlands 330mm Spacer Pipe Flanged T/D or T/16
F.B.E Coated

FIR-EXT

ITEM NO. 36: FIR-EXT
DESCRIPTION: STP DCP or Co^2 Fire Extinguisher - various sizes available
Backing Boards available on request

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Woodlands Resilient Seal Gate Valve
ISO-9001 APPROVED

RSV Flanged 100mm Cap-Top shown

Product Features Flanged Valves (Non-Rising Stem Gate Valve)

- Non-Rising Spindle
- Fusion Bonded Epoxy Powder Coated
- EPDM Rubber Lined S.G Iron Gate
- Supplied either Socketed or Flanged
- Flange drilled to BS 4504: Table 10 or Table 16, BS Table D
- Non-Drilled Flanged Valves can be supplied on request
- Right or Left Hand Closing
- Cap-Top or Hand Wheel operated
- Resilient Sealed to EN 1171
- Face-to-Face length according to SABS 664
- Flange Connection
- Low Torque opening and closing
- 50-450mm Sizes Available - Larger sizes available on request

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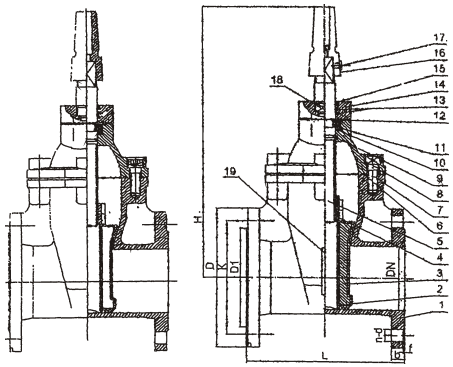
PN16 DUCTILE IRON RESILIENT SEALING NON-RISING STEM GATE VALVE (In Accordance with SANS 664, 2006)

- **This valve is designed and manufactured according to SANS 664, 2006**
- **Tested according to SANS 664, 2006**
- **Working pressure: 16kg/cm²**
- **Shell test pressure: 32kg/cm²**
- **Shell test pressure: 24kg/cm²**
- **Media: Portable Water, Neutral oil**
- **Working temperature: 0.6-52°C**
- **External and Internal coating: 100% fusion-bonded epoxy**
- **Flange drilled according to SANS 1123: 2003 Table 16/11**



DIMENSION: MM

DN	L	H	D	K	D1	n-d	b	f	Weight (kg)
50	216	358	165	125	98	4-18	19	3	13
80	229	413	200	160	132	8-18	19	3	22
100	254	435	220	180	156	8-18	19	3	29
150	280	528	285	240	211	8-22	19	3	63
200	317	616	340	295	266	12-22	20	3	86
250	356	721	405	355	319	12-26	22	3	126
300	380	804	460	410	370	12-26	24.5	4	188

MATERIAL for Main Parts:

No.	Part	Material	Standard			
			SANS	BS	DIN	EN
1	Body	Ductile Iron	SANS 936	BS2789 500-7	DIN1693 GGG50	EN1569 GJS500
2	Wedge	EPDM		BS2494		EN681.1
3	Wedge core	Ductile Iron	SANS 936	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
4	Stem Nut	Copper Alloy	BS1400	BS1400 AB1		CC331G
5	Stem	Stainless Steel	BS 970 431529	BS970 431S29		EN10088-1 (1.4057x17CrN116.2)
6	Gasket	EPDM		BS2494		EN681.1
7	Stud	Stainless Steel	BS 970 304S	BS4190		
8	Bonnet	Ductile Iron	SANS 936	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
9	O-Ring	EPDM		BS2494		EN681.1
10	Back Seat	EPDM		BS2494		EN681.1
11	Washer	Stainless Steel	BS 970 304S	BS970 304S15		
12	O-Ring	EPDM		BS2494		EN681.1
13	O-Ring	EPDM		BS2494		EN681.1
14	Gland	Ductile Iron	SANS 936	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
15	Dust Proof Cover	EPDM		BS2494		EN681.1
16	Cap	Ductile Iron	SANS 936	BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
17	Stud	Stainless Steel	BS 970 304S	BS190		
18	Stud	Stainless Steel	BS 970 304S	BS190		
19	Guide	Nylon	Where applicable			

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WOODLANDS RESILIENT SEAL GATE VALVE

Product Features Socketed Valves (Non-Rising Stem Gate Valve)

- Non-Rising Spindle
- Fusion-Bonded Epoxy Powder Coated
- EPDM Rubber-lined S.G Iron Gate
- Supplied Socketed
- Right or Left Hand Closing
- Cap-Top or Hand Wheel Operated
- Wedge Coated to EPDM
- Face-to-Face length according to SABS 664
- Low Torque opening and closing
- 50-450mm Sizes available

RSV Socketed 100mm Cap-Top shown

Dimension: Socketed Woodlands RSV	L	H	Weight
90mm	335mm	413mm	22kg
110mm	355mm	435mm	26kg
160mm	405mm	528mm	47kg
200mm	450mm	616mm	74kg

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MATERIAL CERTIFICATE

PARTS	MATERIAL	SPECIF	GRADE	COMPONENT	STRENGTH	ELON-GATION
BODY	DUTILE IRON	SANS936	SG42	C:3.7 Si:2.7 Mn: 0.3 P:0.04 S:0.02	527 (MPa)	8.2%
BONNET	DUCTILE IRON	SANS936	SG42	C:3.7 Si:2.7 Mn: 0.3 P:0.04 Si:0.02	527 (MPa)	8.2%
GLAND	DUCTILE IRON	SAN936	SG42	C:3.7 Si:2.7 Mn:0.3 P:0.04 Si:0.02	527 (MPa)	8.2%
HW/CAP	DUCTILE IRON	SANS936	SG42	C:3.7 Si:2.7 Mn:0.3 P:0.4 S:0.02	527 (MPa)	8.2%
STEM NUT	BRONZE	EN12165	CW614N	Al:9.8 Fe:2.8 Zn:0.3	554 (MPa)	16%
SPINDLE	STAINLESS STEEL	EN10254-4	X17CrNi16-2	C:0.15 Si:0.8 Cr:16:5 Ni:2 Mn:0.8 P:0.03 S:0.02	958 (Mpa)	13%
FASTENER	STAINLESS STEEL	ISO 5755	304	C:0.04 Mn:1.4 Cr:18.2 Ni:9.75	565 (MPa)	56%

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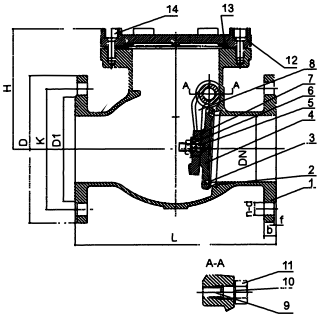
WOODLANDS 2010 BS153 PN16
Ductile Iron Resilient Seal Swing Check Valve

- **This valve is design and manufactured according to BS5153**
- **Working pressure: 16kg/cm²**
- **Shell test pressure: 24kg/cm²**
- **Seat test pressure: 18kg/cm²**
- **Media: Water, neutral oil**
- **Working temperature: 0.6-52°C**
- **External and Internal coating: 100% fusion-bonded epoxy**
- **Flange drilled according to BS4504 Table 10/11, 16/11; EN1092 PN10, PN16**



DIMENSION: MM

DN	L	H	D	K	D1	n-d	b	f	Weight (kg
80	241	157	200	160	132	8-19	19	3	20
100	292	180	220	180	156	8-23	19	3	25
150	356	232	285	240	211	8-23	19	3	41

MATERIAL FOR MAIN PARTS

No	Part	Material	Standard			
			US	BS	DIN	EN
1	Body	Ductile iron		BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
2	Body seat	Gunmetal bronze		BS1400 LG2		
3	Disc seat	Gunmetal bronze		BS1400 LG2		
4	Disc	Ductile iron		BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
5	Bolt	Zinc-plated steel		BS4190		
6	Nut	Zinc-plated steel		BS4190		
7	Washer	Stainless steel		BS970 304S15		
8	Hinge	Ductile iron		BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
9	Hinge pin	Stainless steel		BS970 304S15		
10	Washer	Stainless steel		BS970 304S15		
11	Screw nut	Zinc-plated steel		BS4190		
12	Bonnet	Ductile iron		BS2789 500-7	DIN1693 GGG50	EN1563 GJS500
13	Gasket	EPDM		BS2494		EN681.1
14	Stud	Zinc-plated steel		BS4190		

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INTERESTING FACTS

Protective Headgear and Axe

The Fire-fighter's Protective Headgear and Axe help to get through the fire and rescue trapped or injured persons. Water is still the best solution in combating fire. Water also acts to protect the firemen as they look for people trapped, or to assess and locate vulnerable and threatened areas that may require attention.

The First Hydrant

The first fire hydrant was invented about 1817, by George Smith, a fireman in Manhattan, USA. A water shortage motivated him to have water piped into the city not just for ordinary use, but especially to have sufficient water to combat fires. Essentially not much has changed, as water piped to a kerb-side hydrant is still the best option in the event of a fire. At least, they have been updated by Woodlands to incorporate the latest technical advances and supplied to make all the right places around the country safer from the threat of fire.

Storz Quick Coupling

In 1890, Carl August Guido Storz patented his quick coupling in Switzerland. It soon became the accepted norm on hydrants in many parts of Europe. And over the past 100 years, the Storz design has become more common in the USA and the rest of the world.

The Fire Alarm

The bell to rouse firemen in an emergency is one of those traditions that, it appears, will not die very easily. At Roosevelt Park Fire station this large silver bell, still rung by hand, summons the crew to emergency duty. Electric alarms are indeed used in many facilities but firemen seem to prefer the old hand tolled bell..

The Earliest Fire Brigade

The earliest reference to a fire brigade dates back six thousand years to China. Not much is known about the prevention controls employed by ancient cities, but by the time the Romans ordered every house holder to keep buckets, syringes, hooks and mops at the ready, some advances had been made. Ladders and the humble bucket were essential, while the fireman's axe has remained unchallenged until today, for securing quick entry through doors.

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INTERESTING FACTS

The Fire King of Victorian Times

Capt. Eyre Massey Shaw, led The Metropolitan Fire Brigade for twenty-five years from 1866, and laid the foundations of modern fire fighting methods. Not only did he instigate improved uniforms and the celebrated brass helmet, he opened new stations and recruiting campaigns for professional fire-fighters, controlling a network of 59 stations in London by 1869. He keenly embraced the horse-drawn steam-pumped fire engines and had the first brigade to use the telegraph for inter-station communication. He published numerous books, the most significant becoming a standard book on how to organise, equip and train a fire brigade. He was knighted for his services and immortalised by Gilbert & Sullivan in their operetta, Iolanthe.

Earliest Reference to Pumps

The earliest reference to pumps is to be found in the writings of Pliny, the elder, who used the word SIPHO. But whether he was referring to a double cylinder pump or a small hand held syringe is not clear. The Hero of Alexandria, a pupil of Ctesibius, constructed an engine with two vertical cylinders, which was able to provide a continuous water flow. Circa 200 BC. Only in 1548, did a German translation of Hero's work bring about a revival of fire fighting which seemed to have been discarded after the fall of the Roman Empire. Once it got going again, the evolution of fire fighting machines grew rapidly, with mechanically sophisticated developments and valves, powered by steam, then electrical, internal combustion, and now back to electrical engines and combinations. One is tempted to ask, "Quo Vadis, Sipho?"

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What makes a fire hydrant reliable?

The South African National Standards has specific guidelines on the manufacturing and dimensions of fire hydrants to ensure their effectiveness. All producers and manufacturers need to follow these strict tolerances and dimensions so that our fire system and services are reliable; even years after being installed.

However, many of the imported fire hydrants do not conform to South African National Standards; they are either oversized or undersized, in critical areas by as much as 3mm. Some fire hydrants can have their fronts screwed off and be tampered with. These hydrants are sold with loose outlets, outlets which can and are stolen, rendering the hydrant useless in an emergency. This makes it difficult for fire services to utilize the hydrant to save lives and property when there is a fire. Who is at fault if a fire cannot be managed; the fire services or the fire hydrant manufacturers?

Companies have noticed that Woodlands Fire has been effective in producing quality products, so much so, that some companies have taken to copying our products. Many of these copied fire hydrants, for example, look exactly like a Woodlands product, and at first sight, could pass as a Woodlands hydrant, but they are in fact nothing more than poor imitations. Many of these companies will go so far as to tell you that they are offering you is "**Just like a Woodlands**" and "**Performs just like a Woodlands**". Sadly, price, not quality is used to market and sell the product. Why would anyone want to purchase an imitation product when the real item could be bought, which not only meets but exceeds the South African National Standards for fire hydrants.

Woodlands Fire has been manufacturing hydrants and associated equipment for over 30 years. Our philosophy when building our fire products is to always listen to the customer and their requirements. We then examine what works in the field, and try to improve our product. All Woodlands hydrants have the outlets cast integrally with the body, so that they cannot be screwed off, stolen and tampered with. Woodlands Fire is proud of the quality of our products that we manufacture, and we place our name on all of our products as we stand by our products.

Even though, it looks like a Woodlands product, if it does not say Woodlands on the product it is more than likely a fake and the seller is trying to pass off something that is a cheap imitation.

Fire does not discriminate, compromise or stand back for anyone.

Don't Compromise on Quality for Price.

Noel Cockin
Director