

Automatic Irrigation System for Gardens & Landscapes



What is Automatic Irrigation System?

It is an automatic sprinkler system which irrigates Gardens and Landscapes.

Why purchase a Automatic Irrigation System?

SAVE TIME

Your system will do all the watering for you

SAVE WATER

An automatic system uses less water than watering by hand

SAVE MONEY

Your water bills will be lower and your plants will live longer

REST EASY

The Multiplename is your assurance of quality, value, and performance



HDPE PIPES



UPVC C.S.J PIPES



UPVC R.R.J PIPES



PPR PIPES



Drip & Sprinkler Irrigation



1/2" Sprinkle Nozzle +
Riser Stand with Saddle



3/4" Sprinkler Nozzle
with Plastic Riser Pipe

Single Pcs Plastic Riser Pipe 1mtr & 1.5mtr Length



1/2" NOZZLE



3/4" NOZZLE



METAL NOZZLE



32 MM LATERAL PIPE



Plot 13/23, 8th Street Industrial Area
P.O. Box 20166 Kampala - Uganda
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E-mails: **CORPORATE:** sales@multipleindustries.com
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Plot M417 Kinawataka Link
Builder's Yard
Nakawa Industrial Area, Kampala
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HOTLINE: 0752 914 900



IONet
THE INTERNATIONAL CERTIFICATION NETWORK
Reg. No.: NO-900541Q

SIMBA HDPE

Water pipes & fittings



SIMBA HDPE is made of High Density Polyethylene (HDPE) plastic material for the manufacture of High Pressure Pipes and is renowned worldwide for its reliability. The characteristics that make it outstanding are its toughness, its resistance to chemical attack and its immunity to weather conditions.

SIMBA HDPE High Pressure Pipes are



manufactured and conform to International Standards DIN 8074 and Uganda Standards US ISO 4427-2 specifications. The dimensions are based on ISO/R-161-1960.

Simba Pipes are available in 20mm to 250mm diameter and Pressure Rating PN 6, PN 10, PN 16 and PN 20 with complete range of fittings.

SIMBA HDPE pipes (PE 100) Conforming to DIN 8074/8075 : 1999 & ISO 4427: 1996 (E)

SDR -->	26	17	11	9
Pressure Rating	PN 6.3	PN 10	PN 16	PN 20
Size (mm) Outer Diameter	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)	Wall Thickness (mm)
20	1.80*	1.90*	1.90	2.30
25	1.80*	1.80	2.30	2.80
32	1.90*	1.90	2.90	3.60
40	1.80	2.40	3.70	4.50
50	2.00	3.00	4.60	5.60
63	2.50	3.80	5.80	7.10
75	2.90	4.50	6.80	8.40
90	3.50	5.40	8.20	10.10
110	4.20	6.60	10.00	12.30
125	4.80	7.40	11.40	14.00
140	5.40	8.30	12.70	15.70
160	6.20	9.50	14.60	17.90
180	6.90	10.70	16.40	20.10
200	7.70	11.90	18.20	22.40
225	8.60	13.40	20.50	25.20
250	9.60	14.80	22.70	27.90

* Wall thickness as per DIN 8074/8075:1987



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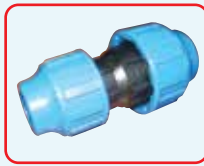
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Compression fittings for **SIMBA HDPE** water pipes



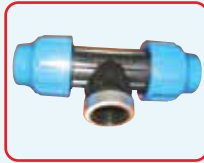
Coupling[Union]



Reducing Coupling



90 Tee



90 Female Tee



90 Female Elbow



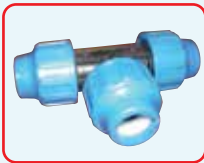
90 Male Elbow



End Cap



90° Elbow



90° Reducing Tee



Male Adapter



Flange Adapter



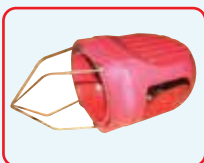
Female Adapter



Clamp Saddle



Reducer Bush



Chamfer Tool



Wrench

The Compression Fitting is the easiest way of joining HDPE pipes. The gripping and sealing functions act only on the outer diameter of the pipe; therefore only one type of fitting is required for all pressure ratings.

The function of the Compression Fitting is clear and simple. The O - Ring seals well even when pressure is nil, because it is compressed onto the pipe. As the water pressure and pipe tension increase, the sealing and grip rings are compressed further into the conical chamber, thus increasing the sealing and gripping effect.

Installation as simple as A B C....



A
Chamfer the pipe.
Separate the parts of the fitting and mount them as shown.



B
Twist the pipe into the body of the fitting until it meets the interior step of the fitting body.



C
Screw the nut tightly towards the body of the fitting.

* Note: ALL HDPE PIPE FITTINGS ARE RATED PN16.

SIMBA_{uPVC}

Pressure Pipes & fittings



PRESSURE PIPES FOR WATER DISTRIBUTION

SIMBA uPVC pressure pipe is made of unplasticised polyvinyl chloride. It is the established material for the potable water & industrial fluid handling.

Its inherently smooth walls provide superior flow characteristic, reducing long-term operating costs. Each twenty feet length (6mtrs) of pipe can be supplied with one plain ended and intergral solvent weld socket joint (CSJ) or intergral rubber ring seal joint (RRJ).

The rubber ring creates an easy-to-install push-on joint that automatically accomodates thermal expansion and contractions. Our integral-bell joint meets the same pressure capacity requirements as the uPVC pipe itself.

SIMBA uPVC manufactured in metric sizes from 110mm to 400mm with pressure ratings PN6, PN10, PN16 & PN 20 Bar conforming to International Standard ISO 1452-2. The equivalent Ugandan Standard US ISO 1452-2 Plastics piping systems for water supply and for buried and above-ground drainage and sewerage under pressure



DIMENSIONS AND RANGE OF UPVC PRESSURE PIPES AS PER US ISO 1452-2

Size	Wall Thickness (mm)			
OUTSIDE DIAMETER (OD) (mm)	PN 6	PN10	PN16	PN 20
110	2.7	4.2	6.6	8.1
160	4.0	6.2	9.5	11.8
200	4.9	7.7	11.9	14.7
225	5.5	8.6	13.4	16.6
250	6.2	9.6	14.8	18.4
280	6.9	10.7	16.6	20.6
315	7.7	12.1	18.7	23.2
355	8.7	13.6	21.1	26.1
400	9.8	15.3	23.7	29.4



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SIMBA_{PVC} DRAINAGE PIPES



SIMBA uPVC drainage pipe is a strong pipe, which will last forever in your sewer system. Our pipe is flexible enough to eliminate shear or beam failure. In effect, the pipe and the earth around it join forces to make the pipe/soil system one of the strongest in the industry.

No other sewer pipe outperforms our sewer pipe at keeping sewage in and ground water pollution in no longer a concern.

Common sewer gases and corrosive have no effect. Smooth non-wetting interior walls make our pipe highly resistant to abrasion from waste or slurries. They come with a full range of drainage fittings like: Bends, Elbows, Tees, Reducers, Branch saddles, Traps, Access plugs, Sockets, Couplers, Single and Double Y.

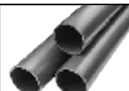


SIMBA_{PVC} CONDUIT PIPES

Multiple Industries offers the highest quality PVC Conduits, from 200mm to 50mm in size.



Available conduit sizes

				
50mm	38mm	32mm	25mm	20mm

Rigid, non conducting PVC conduit is immune to almost all types of corrosives such as chemical, biological, or electrochemical encountered in either or above ground systems.

MULTIPLE INDUSTRIES LTD.

QUALITY BUILDING MATERIALS YOU CAN TRUST SINCE 1991



Welcome to

PEX

the name you can trust

BRASS
PRODUCTS



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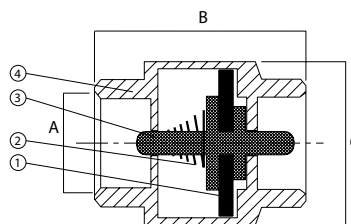


www.multipleindustries.com

PEX-301A

Check valve (Spring)

maximum pressure conditions:
10 bar - temp up to 90°C



Material Specification

key	component	material
1	washer	NBR
2	spring	stainless steel
3	spindle	ABS
4	body	brass

Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Item weight (kg)	0.15	0.20	0.25	0.40	0.50	0.71

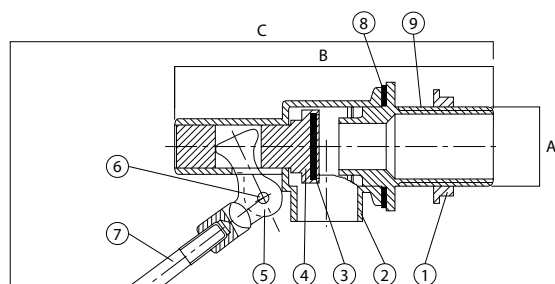
PEX-836



dimensions of PP Float

A	3"	4.1/2"	5"	6"	6"	8"	10"	12"
B	5/16"	5/16"	5/16"	5/16"	7/16"	7/16"	7/16"	7/16"

size	3/8"	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
item weight (kg)	0.21	0.26	0.30	0.60	1.49	1.55	1.61



Material Specification

key	component	material
1	flange nut	brass
2	body	brass
3	washer	EDPM
4	piston	brass
5	arm sleeve	brass
6	pin	brass
7	arm	brass
8	washer *	fibre
9	tail	brass

* on sizes larger than 1"

* on sizes larger than 1"

PEX-413

Pressure reducing valve

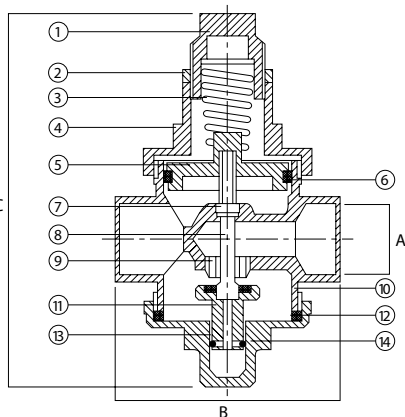
maximum & minimum outlet pressure (all sizes) :

maximum: 6 bar - minimum: 0.5 bar

maximum operating temp: 80°C

maximum inlet pressure: 25 bar

also available in nickel finish



Material Specification

key	component	material	in contact with water
1	spring holder	brass	no
2	fixing ring	brass	no
3	spring	steel	no
4	upper cap	brass	no
5	membrane	brass	yes
6	O-ring	NBR	yes
7	sealing ring with O-ring	brass + NBR	yes
8	bar	brass*	yes
9	seat	stainless steel	yes
10	body	brass	yes
11	shutter	brass	yes
12	gasket	fibre	yes
13	O-ring	NBR	yes
14	lower cap	brass	yes

*stainless steel in sizes higher than 1"

Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"
Item weight (kg)	0.79	1.3	1.34	2.55	3.95	4.1	3.975	5.6	6.97

PEX-605BS

Gate valve, BS5154

- BS5154 PN20
- non rising stem
- solid brass wedge
- high quality PTFE packing
- BS2779 parallel thread (PT)

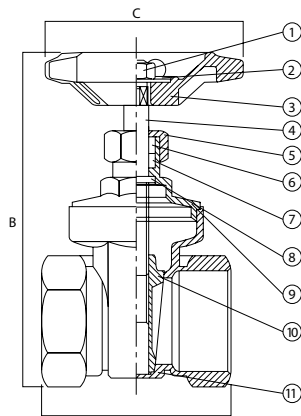
suitable for:

steam, water and oil

maximum pressure conditions:

temp up to 100°C - 20.0Bar

temp up to 180°C - 9.0Bar



size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"	2.1/2"	3"	4"	5"	6"
item weight (kg)	0.22	0.33	0.44	0.82	1.05	1.72	2.88	3.87	6.90	11.25	14

Material Specification

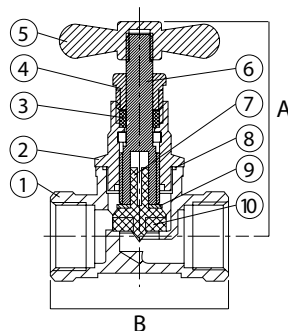
key	component	material
1	handwheel nut	brass
2	rating disc	aluminium
3	handwheel	aluminium alloy
4	stem	brass bar
5	gland nut	forged brass
6	gland packing	PTFE
7	gland	brass bar
8	stem ring	brass bar
9	bonnet	forged brass
10	wedge	forged brass (1/2" - 2") gravity die cast brass (2.1/2" - 4")
11	body	forged brass (1/2" - 2") gravity die cast brass (2.1/2" - 4")

PEX-149

Stop cock

maximum pressure conditions:

16 bar - temp up to 90°C



Size	1/2"	3/4"
Item weight (kg)	0.21	0.28

Material Specification

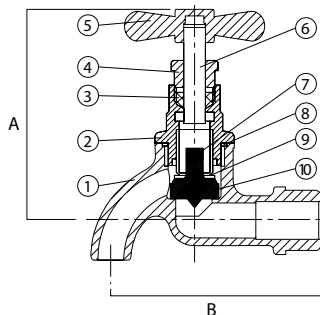
key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	O ring	NBR
9	washer	brass
10	stopper	NBR

PEX-710BR

Bibtap

maximum pressure conditions:

10 bar - temp up to 90°C



Size	1/2"	3/4"
Item weight (kg)	0.23	0.31

Material Specification

key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	O ring	NBR
9	washer	brass
10	stopper	NBR

PEX-600

Ball valve

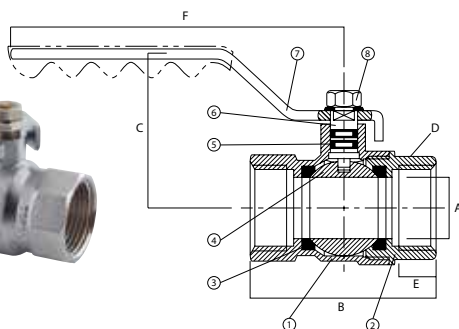
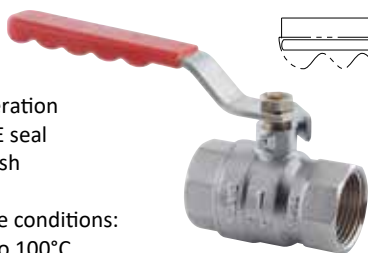
- PN 25 rating
- full bore
- quarter turn operation
- high quality PTFE seal
- nickel plated finish

maximum pressure conditions:

25 bar - temp up to 100°C

16.5 bar - temp up to 150°C

suitable for steam, water, oil and air



Material Specification

key	component	material
1	body	brass
2	end piece	brass
3	seal	PTFE
4	ball	chrome plated brass
5	o-ring	NBR
6	stem	brass
7	handle	steel
8	nut	steel

Size	1/2"	3/4"	1"	1.1/4"	1.1/2"	2"
Item weight (kg)	0.17	0.24	0.44	0.58	0.88	1.48

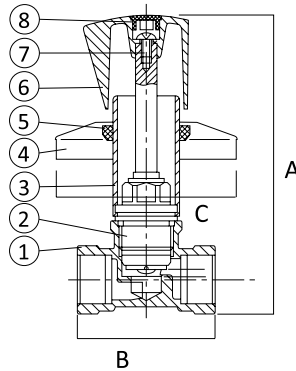
PEX BRASS PRODUCTS

PEX-760

Concealed Stop Cock

maximum pressure conditions:
16 bar - temp up to 90°C

Size	1/2"	3/4"
Item weight (kg)	0.39	0.40



material specification

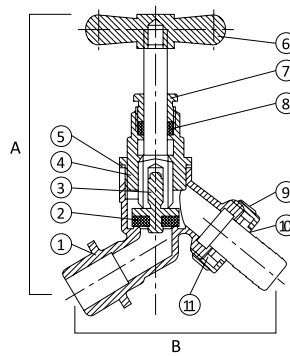
key	component	material
1	body	brass
2	BS5412 valve	brass/NBR
3	sleeve	chrome plated brass
4	flange	chrome plated brass
5	ring	NBR
6	handle	chrome plated zinc alloy
7	screw	brass
8	indice	plastic-ABS

PEX-151BR-1/2

Hose Union Bibcock, BS1010

maximum pressure conditions:
10 bar - temp up to 90°C

Size	1/2"	3/4"
Item weight (kg)	0.32	0.58



material specification

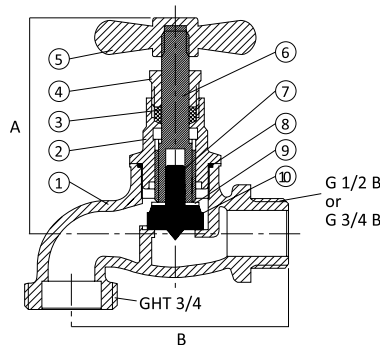
key	component	material
1	body	brass
2	stopper	NBR
3	stopper stem	brass
4	bonnet	brass
5	gasket	rubber plate
6	handle	brass
7	gland	brass
8	gland packing	PTFE
9	nut	brass
10	hose union	brass
11	O ring	NBR

PEX-711N

Garden Hose Bibtap

maximum pressure conditions:
10 bar - temp up to 90°C

Size	1/2" x 3/4"	3/4" x 3/4"
Item weight (kg)	0.29	0.31



material specification

key	component	material
1	body	brass
2	bonnet	brass
3	gland packing	PTFE
4	nut	brass
5	handle	brass
6	stem	brass
7	stopper stem	brass
8	O ring	NBR
9	washer	brass
10	stopper	NBR

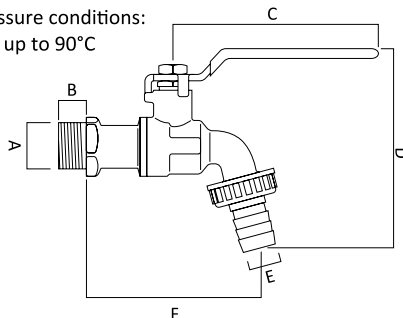
PEX-708

Lever Arm Bibtap

chrome plated

1/2" or 3/4"

maximum pressure conditions:
10 bar - temp up to 90°C



key	dimension	PEX-708-1/2"	PEX-708-3/4"
A	threaded connection diameter	1/2"	3/4"
B	threaded connection length	12mm	13mm
C	handle length	92mm	92mm
D	handle to spout centre height	90mm	95mm
E	hose fitting inside diameter	16mm	20mm
F	wall mount to spout centre	78mm	80mm