



## IN-X Internal Coupling and Adaptor system.

Available in DN50/75/90/100/150.

- Internal Couplings
- Plug Connectors
- Socket Connectors
- Spigot Connectors
- Reducer Connectors
- Transition Connectors
- End Caps



The IN-X is a push fit internal connection designed to work in situations where a standard external coupling can't be used or in instances when little or non of the external wall of the pipe is visible.

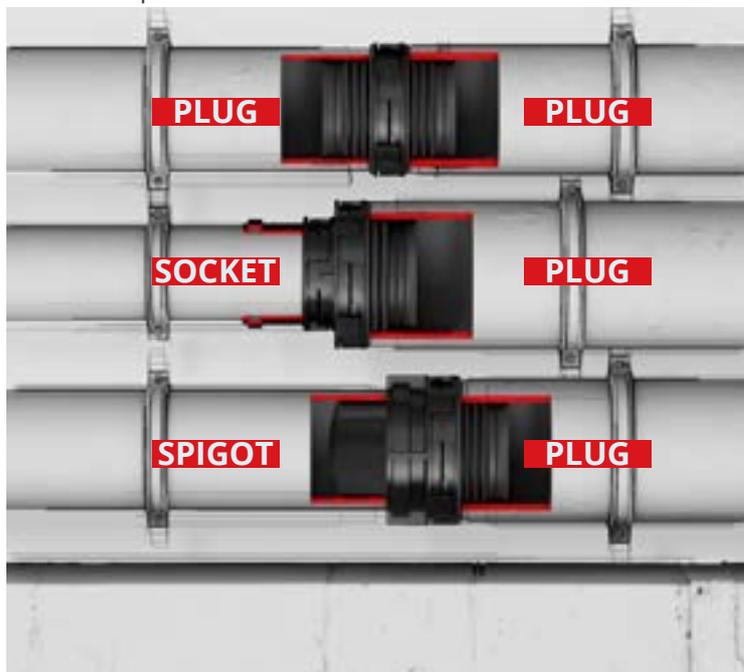
The IN-X fits directly inside the pipe and due to its unique internal plastic shell and infill ring\* as well as the bevelled rubber seal design, there is minimal resistance to the flow inside the pipe.

Once installed a range of adaptors, couplings, reducers or end caps can be twist locked onto each other to offer a range of solutions for almost any application. Alternatlvly two plug connectors and an infill ring can be used to create an Internal x Internal coupling to be used in instances where there has been damage to a pipe with little or no material to use an external coupling or for connecting two pipes of differing materials with similar/dame internal diameters.

*\*the infill ring is used only with the internal coupling kits, this is removed when connecting a plug to any other connector.*

### Key Benefits:

- Watertight connection to internal pipe dimensions of multi pipe materials, e.g plastic, clay, cast iron.
- Ideal for pipes sheared in concrete or concrete slabs where an external coupling cannot be used.
- Quick installation.
- Range offers multiple adaptations with its unique "twist lock" connectors.
- NO tools required.
- Able to re-use after initial installation.
- Suitable for horizontal or vertical applications, both above or below ground.
- Smoother transition between pipe inverts.
- Tested to resistance of up to 2.5 bar internal pressure.
- Complies and tested to BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/



# IN-X Internal Coupling



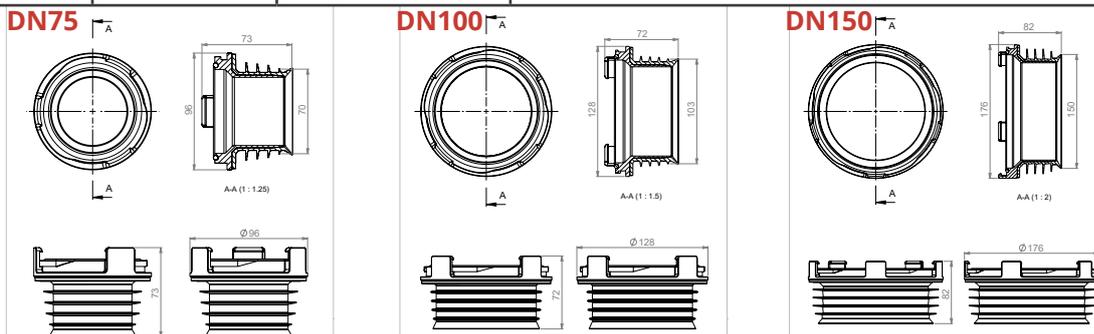
<b>Product Code</b>	INXDNxxxINT
<b>Description</b>	VIPSeal IN-X Internal Coupling
<b>Size Range</b>	Ø69-157mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

## IN-X Internal Coupling

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020831	DN75	Ø69-75	IN-X internal coupling kit (2 DN75 plug connectors) with Infill Ring and Safe Click locking tool.
1020828	DN100	Ø100-106	IN-X internal coupling kit (2 DN100 plug connectors) with Infill Ring and Safe Click locking tool.
1020816	DN150	Ø145-157	IN-X internal coupling kit (2 DN150 plug connectors) with Infill Ring and Safe Click locking tool.

## IN-X Plug Connector

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020835	DN75	Ø69-75	IN-X Plug Connector DN75
1020827	DN100	Ø100-106	IN-X Plug Connector DN100
1020826	DN100/95	Ø100-86	IN-X Plug Connector DN100/95
1020820	DN150	Ø145-157	IN-X Plug Connector DN150
1020815	DN150/100	Ø100-157	IN-X Plug Connector DN150/100



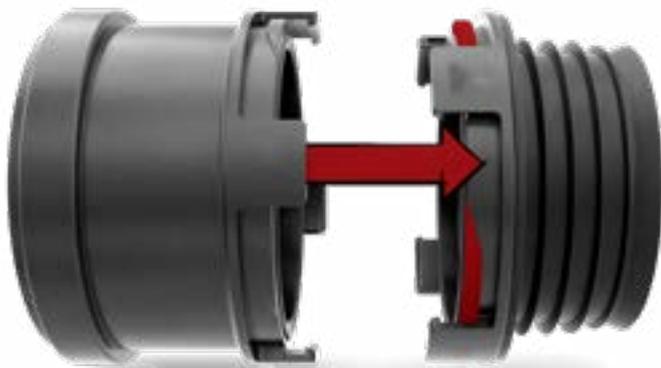
# IN-X Socket



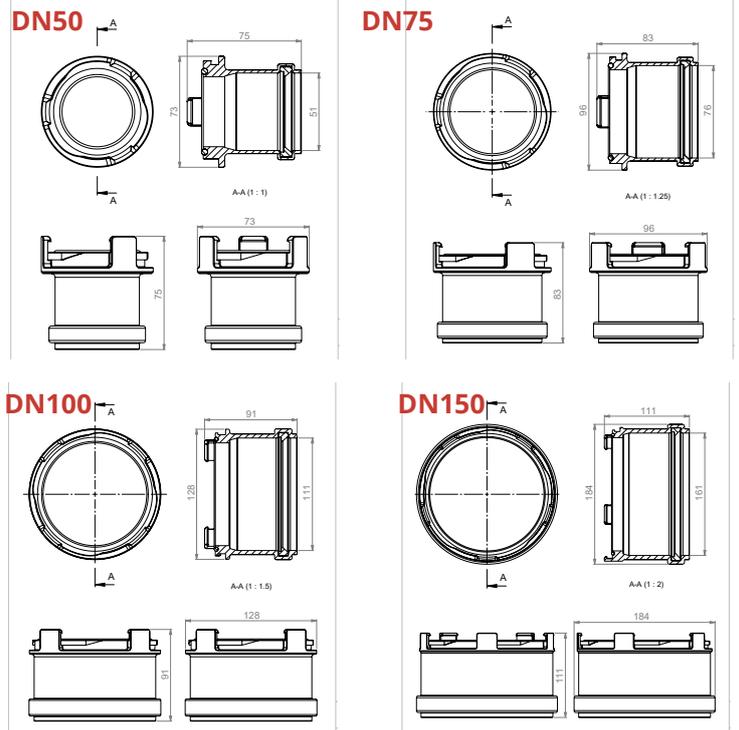
<b>Product Code</b>	INXDNxxxSOC
<b>Description</b>	VIPSeal IN-X Socket
<b>Size Range</b>	Ø50-150mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

## IN-X Socket

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020840	DN50	Ø50	IN-X Socket Connector DN50
1020837	DN75	Ø75	IN-X Socket Connector DN75
1020830	DN100	Ø100	IN-X Socket Connector DN100
1020822	DN150	Ø150	IN-X Socket Connector DN150



Socket to Plug example, Socket/Transition, Socket/Socket, Socket/Spigot, Socket/End Cap, Socket/Reducer variations can also be made depending on application requirements.



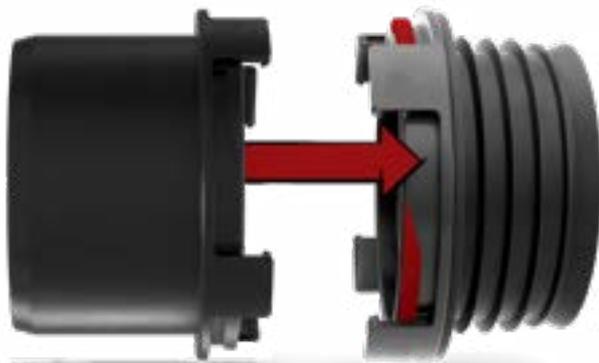
# IN-X Spigot



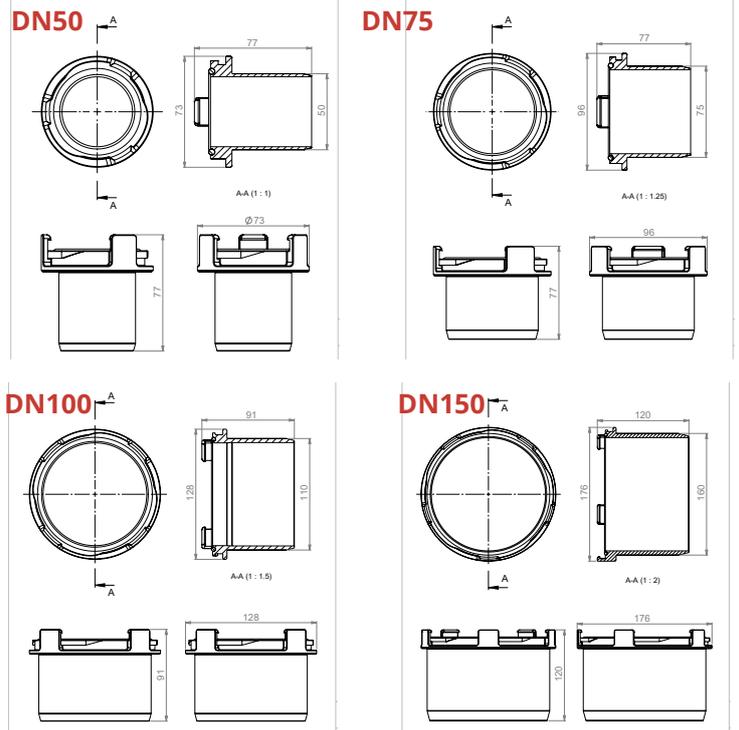
<b>Product Code</b>	INXDNxxxSPI
<b>Description</b>	VIPSeal IN-X Spigot
<b>Size Range</b>	Ø50-160mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

## IN-X Spigot

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020839	DN50	Ø50	IN-X Spigot Connector DN50
1020836	DN75	Ø75	IN-X Spigot Connector DN75
1020829	DN100	Ø110	IN-X Spigot Connector DN100
1020821	DN150	Ø160	IN-X Spigot Connector DN150



Spigot to Plug example, Spigot/Transition, Spigot/Socket, Spigot/Spigot, Spigot/End Cap, Spigot/Reducer variations can also be made depending on application requirements.



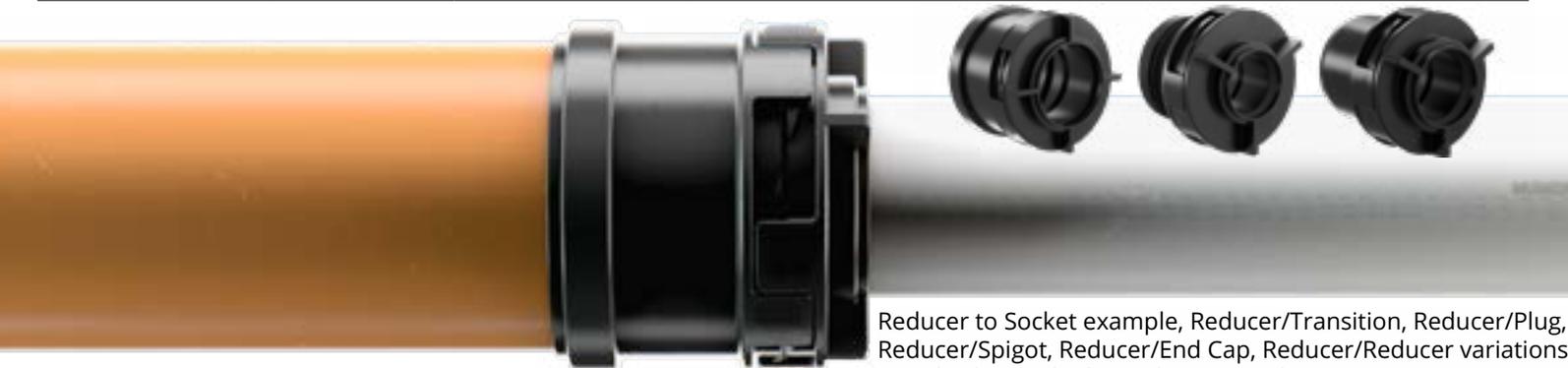
# IN-X Reducer



<b>Product Code</b>	INXDNxxxRED
<b>Description</b>	VIPSeal IN-X Reducer
<b>Size Range</b>	Ø50-160mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

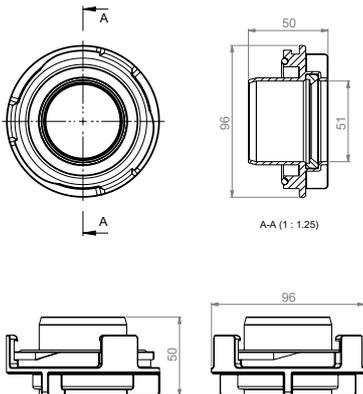
## IN-X Reducer

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020833	DN75/50	Ø75-50	IN-X Reducer Connector DN75/50
1020824	DN100/75	Ø110-75	IN-X Reducer Connector DN100/75
1020818	DN150/100	Ø160-110	IN-X Reducer Connector DN150/100

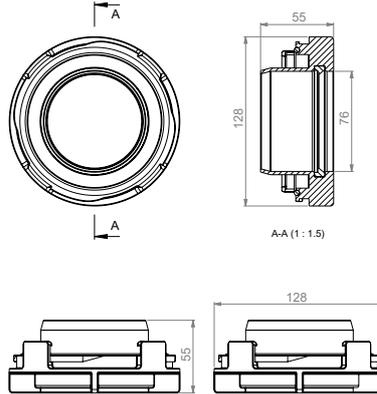


Reducer to Socket example, Reducer/Transition, Reducer/Plug, Reducer/Spigot, Reducer/End Cap, Reducer/Reducer variations can also be made depending on application requirements.

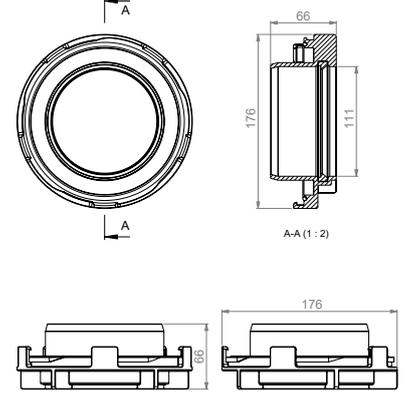
### DN75/50



### DN100/75



### DN150/100



# IN-X Transition



<b>Product Code</b>	INXDNxxxTRA
<b>Description</b>	VIPSeal IN-X Transition
<b>Size Range</b>	Ø50-160mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

## IN-X Transition

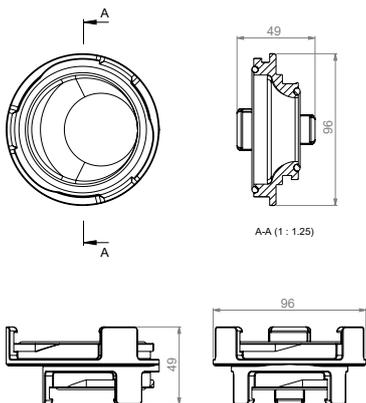
Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020832	DN75/50	Ø75-50	IN-X Transition Connector DN75/50
1020823	DN100/75	Ø110-75	IN-X Transition Connector DN100/75
1020817	DN150/100	Ø160-110	IN-X Transition Connector DN150/100



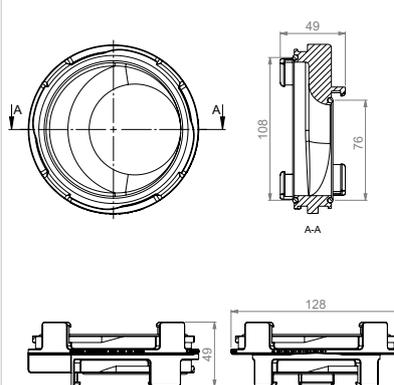
Transition to Plug example pictured left, Transition/Plug/reducer pictured right, Transition/Spigot, Transition/End Cap, Transition/Reducer variations can also be made depending on application requirements.



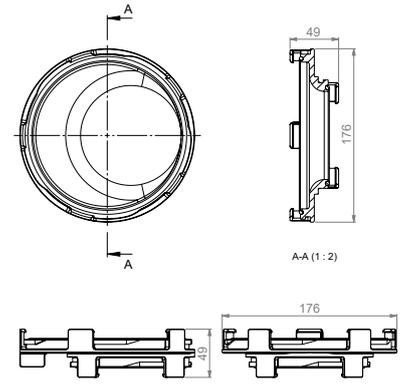
### DN75/50



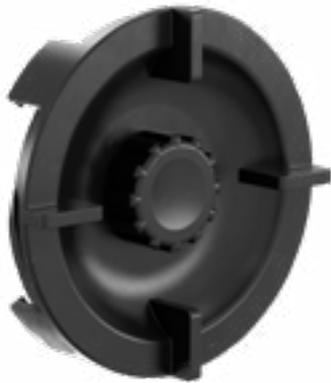
### DN100/75



### DN150/100



# IN-X End Cap



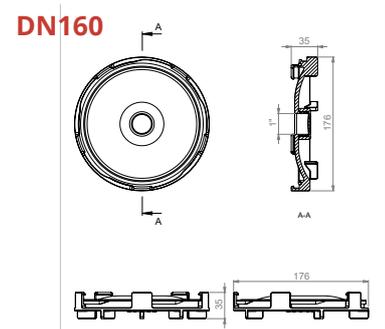
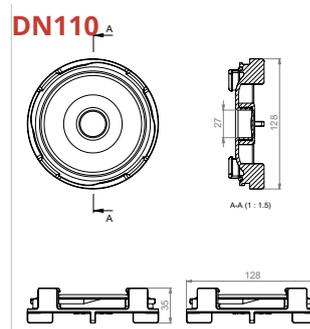
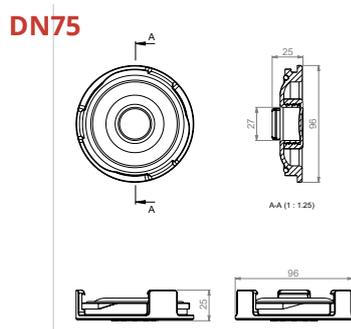
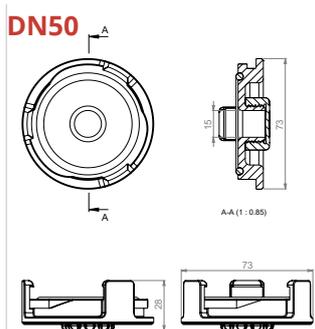
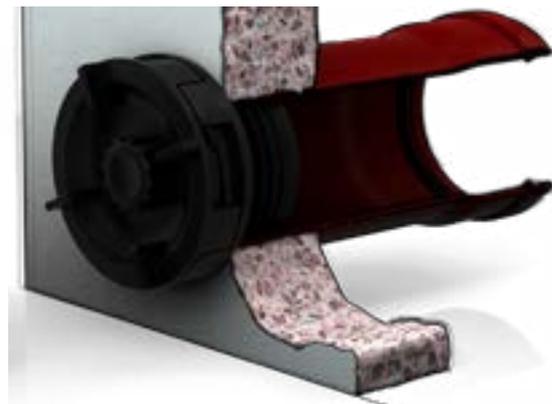
<b>Product Code</b>	INXDNxxxEND
<b>Description</b>	VIPSeal IN-X End Cap
<b>Size Range</b>	Ø50-160mm
<b>Material</b>	PP Plastic EPDM Rubber
<b>Pressure Rating</b>	2.5bar
<b>Jetting Resistance</b>	230bar
<b>Temperature Range</b>	-50°C to 80°C constant, 100°C intermittent
<b>Tested to Standards</b>	BS EN295-4:2013/ WIS 4-41-01/ BS EN1401-1:2019/ BS EN1451-1:2017/ BS EN681-1:1996

## IN-X End Cap

Product Code	Size (mm)	Nominal Dia. (mm)	Description
1020838	DN50	Ø50	IN-X End Cap DN50
1020834	DN75	Ø75	IN-X End Cap DN75
1020825	DN100	Ø110	IN-X End Cap DN100
1020819	DN150	Ø160	IN-X End Cap DN150



End Cap to Socket example picture left. End Cap to Plug picture right. End Cap/Socket, End Cap/Spigot, End Cap/Transition, End Cap/Reducer variations can also be made depending on application requirements.



# IN-X Installation Instruction

IN-X Internal Coupling and Adaptors can be installed both horizontally or vertically, the installation process is the same in both cases.

1.



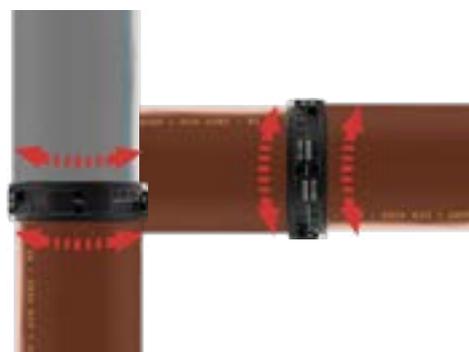
- Clean the internal surface of the pipe from any slurry or debris.

2.



- Apply a small amount of VIPSeal Pipe lubricant to the IN-X rubber sleeve.
- Push the IN-X plug into the pipe until the plastic rim is flush against the pipe.

3.



- Repeat the process on the connecting pipe.
- With the IN-X Plug/Connector installed to the pipe, push & twist onto pipe 1.

**NB.** • The above process is the same when installing adaptors, end caps, sockets, spigots or transitions, or any combination.



- NB when an internal/internal connection is required an infill ring is supplied to create a smooth internal flow between both connectors, this infill ring will not be used when connecting an internal plug to any other connections.
- A Safe Click connector can be placed over the tabs to create a tamper proof installation.



- For further technical information on the IN-X product range or to discuss installing the range contact our technical sales team on 0330 2231731 / sales@guttercentre.co.uk or head to [www.guttercentre.co.uk](http://www.guttercentre.co.uk)