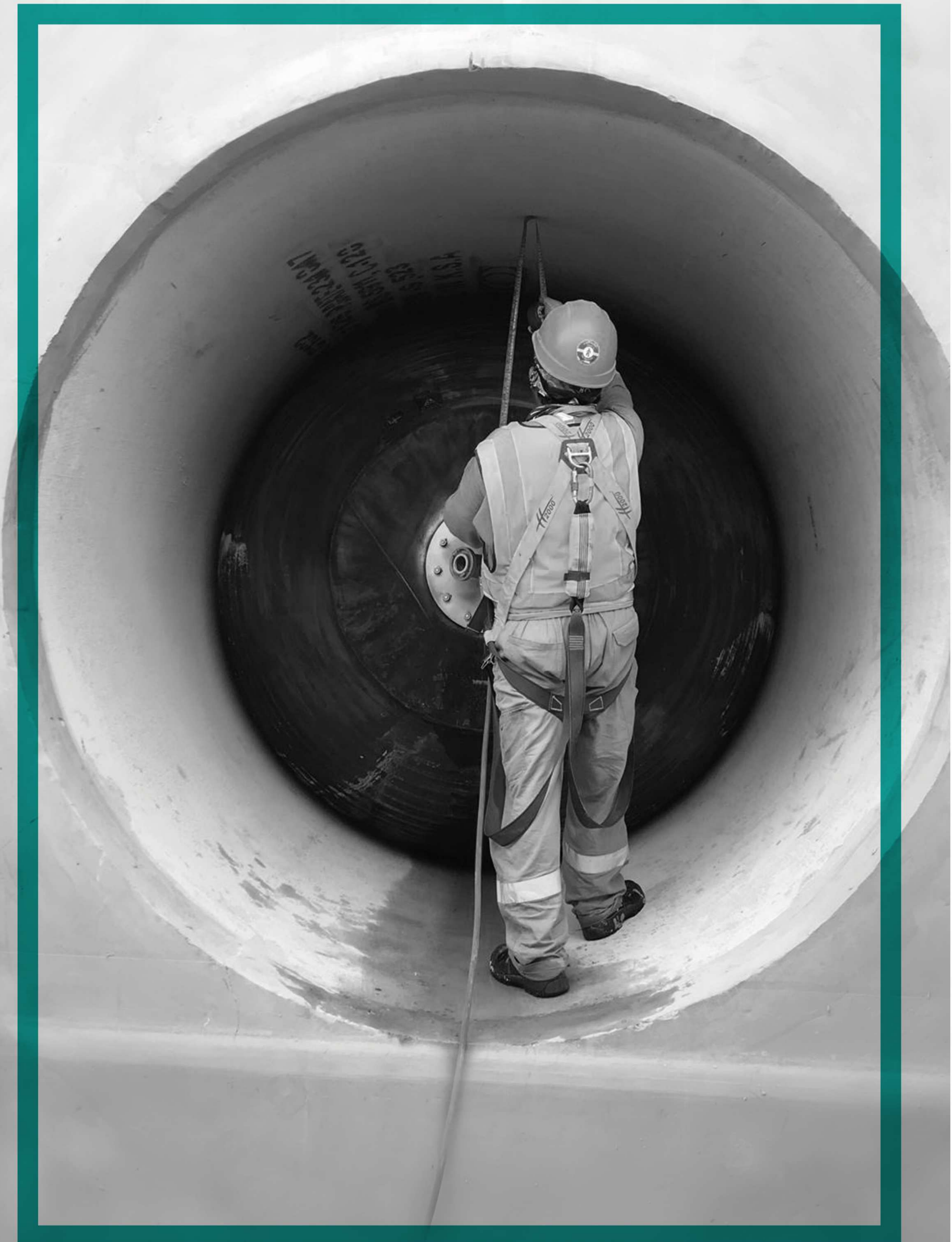




# INFLATABLE PIPE PLUGS & PACKERS

# INFLATABLE PIPE PLUGS & PACKERS

SERVING  
THE  
WORLD



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## DEAR CUSTOMER

Welcome to PlugCo – a division of the ArgeSim Group – and the largest, most experienced supplier of high-quality infrastructure testing equipment in Turkey. From its headquarters in Corum, PlugCo designs, manufactures and ensures on-time delivery of pipe testing equipment from its extensive line of products that includes:

## PLUGCO PRODUCTS

- Flexible multi-size pipe plugs and flow - through pipe plug
- High Pressure pipe plugs
- Manhole test plugs
- Steam Process plugs
- Conical pipe plugs
- Joint Tester
- Multi-size flexible packers and bendy for in-situ piping repairs
- Multi-size flow through pillow packer
- Oil and gas plugs



PlugCo's standard pipe plugs are manufactured for pipe diameters from 30 cm (1.2") to 3,600 mm(144"); back pressures up to 6 Bar (87 psi) can be safely tolerated. All PlugCo products are suitable for pipe testing according to the requirements of European Standard EN 1610 and American Standard ASTM C969M.

Our customer base has grown considerably in the nearly 20 years that we have been serving the infrastructure industry and now represents many of its sectors – energy; water and sewer construction, repair and testing; petrochemical and chemical for example. We continue to grow year-by-year, adding new customers in new markets and developing new plug designs and products for our catalogue. PlugCo currently exports to more than 50 countries on six continents. We have distributors and resellers in Europe, Asia, America, Africa and Australia.

Should your pipe plug, joint tester or pipe packer application require a specialized product that will safely withstand high temperatures, high inflation or back pressures, or chemical resistance for instance, PlugCo's team of engineers, designers and fabricators will work with you to develop custom-made equipment that meets your specific needs. Simply contact us by telephone, email or through our website [www.plugco.net](http://www.plugco.net) to discuss with our specialists the right choice of product for your project.

Our shipping department has global experience and will deliver your orders to your project, warehouse or site in accordance with your needs and timelines. Our delivery terms are flexible – DDP and DAP are only two of the many arrangements we can accommodate.

We can even provide on-site training in the safe use and care of pipe plugs, pipe packers or joint testers for your employees or contractors. You may also view our library of instructional online videos, downloadable manuals, and information brochures on our website [www.plugco.net](http://www.plugco.net)

At PlugCo, we enjoy what we do and we love making our customers happy. We look forward to adding your name and your company to our family

## SAFETY

### **WARNING!**

**AN INHERENT DANGER EXISTS WITH ALL INFLATABLE PRODUCTS, ANY PRESSURIZED PIPELINE OR OTHER PRESSURE CONTAINMENT SYSTEMS!**

Every pneumatic plug can eventually wear out and fail from continued use. Abuse and misuse will greatly accelerate wear and damage to the plug and potentially lead to premature failure. Always protect against plug failure to prevent serious bodily injury, death and property damage. If any conditions exist with equipment that may jeopardize the safety of yourself or others or if you are unsure about the proper use of equipment, **DO NOT USE THE EQUIPMENT**. If you have any questions or think any unusual conditions exist that are not described in the PlugCo Safety Manual, consult your supervisor or safety director before proceeding.



**The user MUST READ and UNDERSTAND the Plugco Safety and User Manual before using Plugco Pneumatic Pipe Plugs!**

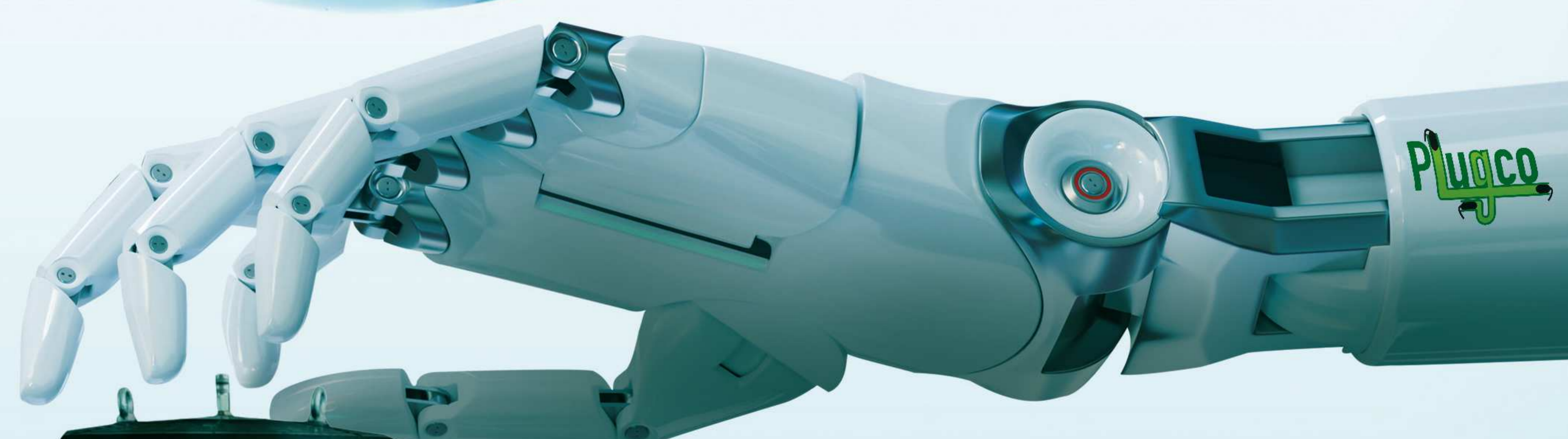
- 1- DEATH, BODILY INJURY AND/ OR PROPERTY DAMAGE may result from Plug failure for any reason.
- 2- Follow correct confined space entry and working procedures. Use proper safety equipment including eye protection, hard hat, protective footwear, gloves and any other personal protective equipment required by legislation or company policies and procedures.
- 3- Pipe Plugs should be used only by trained personnel. PlugCo can provide training for personnel.
- 4- Do not enter the Danger Zone when the plug is in use.
- 5- Measure the pipe diameter before selecting a plug for use. Always use a plug that is recommended by PlugCo for the pipe diameter being tested or plugged.
- 6- Inspect the plug for damage before and after each use.
- 7- Always attach an inflation extension hose to allow inflating and deflating the plug from outside the Danger Zone.
- 8- Do not remove the inflation hose before relieving all back pressure and deflating the plug.
- 9- Inflate the plug to the correct pressure which is shown on the plug. DO not exceed the maximum allowable inflating pressure.
- 10- Always use two properly calibrated pressure gauges.
- 11- Store the plug in a room temperature, dry location away from sunlight.



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A r G e s i m G r o u p

Intelligent Solution for Plugging Systems  
**SmartPlug<sup>®</sup>** invented by **PlugCo**



# PIPE PLUGS



Watch on Youtube



Watch on Youtube

PP: Pipe Plug

The main purpose of usage of PP model is for temporary sealing of pipelines sewage, water line systems for maintenance or non-pressurized line testing. Also, these pipe plugs used as pipe stopper which are blocking the line and sealing the pipe. It is an expandable rubber plug. Pneumatic plugs are expanded by air pressure and stop the flow to seal the pipe line.

Pipe Stoppers are also used for pipeline leakage test, if there is an available manhole on the line. The pipeline to be blocked from both side by two pieces Pipe Plugs and then the test water to be filled from manhole to test the system.

Pipe Plugs are mainly used in pipe line rehabilitation field, since, pipe plugs are only solution to stop the flow. Inflatable Pipe Plugs are pressurized by air source and expand in the line and seal it 100%. The friction force between rubber plug and the pipe prevents sliding of pipe plug inside the pipe.

**\* All Plugs should be braced against sliding while back pressure exists.**

**\* Centralize the plug in the pipeline.**

**\* Custom production is available.**





Model#	Nominal Size	Usage Size Range		Inflation Pressure	Deflated Plug		Product Approx. Weight	Max. Allowable Back Pressure		Inflation Port
		Min. dia.	Max. dia.		Diameter	Length		Pipe Size	Back Pressure	
PP3570/2,5	35mm-70mm 1,4"-2,8"	35mm 1,4"	70mm 2,8"	2,5bar 37 psi	33mm 1,3"	210mm 8,3"	0,3kg 0,7lbs	35mm(1,4") 70mm(2,8")	1,5bar(21,9psi) 1,0bar(14,5psi)	Tire Valve
PP50100/1,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	1,5bar 22 psi	47mm 1,9"	280mm 11"	0,4kg 0,9lbs	50mm(2") 100mm(4")	1,0bar(14,5psi) 0,5bar(7,3psi)	Tire Valve
PP50100/2,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	2,5bar 37 psi	47mm 1,9"	280mm 11"	0,4kg 0,9lbs	50mm(2") 100mm(4")	1,5bar(21,9psi) 1,0bar(14,5psi)	Tire Valve
PP70150/1,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	1,5bar 22 psi	68mm 2,7"	375mm 15"	0,6kg 1,3lbs	70mm(2,8") 100mm(4") 150mm(6")	1,0bar(14,5psi) 0,8bar(11,6psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP70150/2,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	2,5bar 37 psi	68mm 2,7"	375mm 15"	0,7kg 1,5lbs	70mm(2,8") 100mm(4") 150mm(6")	1,7bar(24,7psi) 1,4bar(20,3psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP100150/2,5	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	89mm 3,5"	210mm 8,3"	0,75kg 1,7lbs	100mm(4") 150mm(6")	1,7bar(24,7psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP100150/6,0	100mm-150mm 4"-6"	100mm 4"	150mm 6"	6,0bar 87psi	91mm 3,6"	550mm 22"	1,5kg 3,3lbs	100mm(4") 150mm(6")	5,0bar(72,9psi) 3,0bar(43,5psi)	1/4" Quick Coupling
PP100200/1,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	1,5bar 22 psi	91mm 3,6"	550mm 22"	1,2kg 2,6lbs	100mm(4") 150mm(6") 200mm(8")	1,0bar(14,5psi) 0,8bar(11,6psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP100200/2,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	2,5bar 37 psi	91mm 3,6"	550mm 22"	1,2kg 2,6lbs	100mm(4") 150mm(6") 200mm(8")	1,7bar(24,7psi) 1,4bar(20,3psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP150200/2,5	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	140mm 5,5"	250mm 10"	1,1kg 2,4lbs	150mm(6") 200mm(8")	1,7bar(24,7psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP150200/6,0	150mm-200mm 6"-8"	150mm 6"	200mm 8"	6,0bar 87psi	140mm 5,5"	550mm 22"	2,6kg 5,7lbs	150mm(6") 200mm(8")	5,0bar(72,9psi) 3,0bar(43,5psi)	1/4" Quick Coupling
PP150300/1,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	1,5bar 22 psi	140mm 5,5"	550mm 22"	2,1kg 4,6lbs	150mm(6") 250mm(10") 300mm(12")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP150300/2,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	2,5bar 37 psi	140mm 5,5"	550mm 22"	2,3kg 5,1lbs	150mm(6") 250mm(10") 300mm(12")	1,7bar(24,7psi) 1,3bar(18,9psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP200250/2,5	200mm-250mm 8"-10"	200mm 8"	250mm 10"	2,5bar 37 psi	181mm 7,1"	300mm 12"	1,8kg 4,0lbs	200mm(8") 250mm(10")	1,7bar(24,7psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP200300/6,0	200mm-300mm 8"-12"	200mm 8"	300mm 12"	6,0bar 87psi	187mm 7,4"	650mm 26"	3,7kg 8,2lbs	200mm(8") 300mm(12")	5,0bar(72,9psi) 3,0bar(43,5psi)	1/4" Quick Coupling
PP200400/1,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	1,5bar 22 psi	187mm 7,4"	650mm 26"	3,1kg 6,8lbs	200mm(8") 300mm(12") 400mm(16")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP200400/2,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	2,5bar 37 psi	187mm 7,4"	650mm 26"	3,3kg 7,3lbs	200mm(8") 300mm(12") 400mm(16")	1,7bar(24,7psi) 1,3bar(18,9psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP200500/1,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	1,5bar 22 psi	187mm 7,4"	800mm 32"	4,5kg 9,9lbs	200mm(8") 400mm(16") 500mm(20")	1,0bar(14,5psi) 0,6bar(8,7psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP200500/2,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	2,5bar 37 psi	187mm 7,4"	800mm 32"	4,8kg 10,6lbs	200mm(8") 400mm(16") 500mm(20")	1,9bar(27,6psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP250300/2,5	250mm-300mm 10"-12"	250mm 10"	300mm 12"	2,5bar 37 psi	225mm 9"	350mm 14"	2,4kg 5,3lbs	250mm(10") 300mm(12")	0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP300350/2,5	300mm-350mm 12"-14"	300mm 12"	350mm 14"	2,5bar 37 psi	280mm 11"	350mm 14"	3,7kg 8,2lbs	300mm(12") 350mm(14")	0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP300400/6,0	300mm-400mm 12"-16"	300mm 12"	400mm 16"	6,0bar 87psi	286mm 11,3"	850mm 34"	5,2kg 11,5lbs	300mm(12") 400mm(16")	4,0bar(58psi) 3,0bar(43,5psi)	1/4" Quick Coupling
PP300600/1,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	1,5bar 22 psi	286mm 11,3"	850mm 34"	9,5kg 20,9lbs	300mm(12") 500mm(20") 600mm(24")	1,0bar(14,5psi) 0,6bar(8,7psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP300600/2,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	2,5bar 37 psi	286mm 11,3"	850mm 34"	9,8kg 21,6lbs	300mm(12") 500mm(20") 600mm(24")	1,5bar(21,9psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP375800/1,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	1,5bar 22 psi	361mm 14,2"	1000mm 40"	11kg 24,3lbs	375mm(15") 600mm(24") 800mm(32")	1,2bar(17,4psi) 0,8bar(11,6psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP375800/2,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	2,5bar 37 psi	361mm 14,2"	1000mm 40"	12kg 26,5lbs	375mm(15") 600mm(24") 800mm(32")	2,0bar(29,0psi) 1,5bar(21,9psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP500600/6,0	500mm-600mm 20"-24"	500mm 20"	600mm 24"	6,0bar 87psi	486mm 19,1"	1150mm 46"	30kg 66,1lbs	500mm(20") 600mm(24")	4,5bar(65,3psi) 3,0bar(43,5psi)	1/4" Quick Coupling
PP5001000/1,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	1,5bar 22 psi	486mm 19,1"	1150mm 46"	26,5kg 59,5lbs	500mm(20") 800mm(32") 1000mm(40")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP5001000/2,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	2,5bar 37 psi	486mm 19,1"	1150mm 46"	28,5kg 63,9lbs	500mm(20") 800mm(32") 1000mm(40")	1,5bar(21,9psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	1/4" Quick Coupling
PP6001200/1,5	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	1,5bar 22 psi	586mm 23,1"	1300mm 52"	35kg 77,1lbs	600mm(24") 900mm(36") 1200mm(48")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP6001200/2,5	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	2,5bar 37 psi	586mm 23,1"	1300mm 52"	40kg 88,2lbs	600mm(24") 900mm(36") 1200mm(48")	2,0bar(29,0psi) 1,3bar(18,9psi) 0,8bar(11,6psi)	1/4" Quick Coupling
PP6001600/1,0	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,0bar 14,5 psi	580mm 22,8"	2050mm 82"	45kg 99,2lbs	600mm(24") 1400mm(56") 1600mm(64")	1,7bar(24,7psi) 0,5bar(7,3psi) 0,3bar(4,4psi)	1/4" Quick Coupling
PP6001600/1,5	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,5bar 22 psi	580mm 22,8"	2050mm 82"	50kg 110,2lbs	600mm(24") 1400mm(56") 1600mm(64")	2,3bar(33,4psi) 0,6bar(8,7psi) 0,4bar(5,8psi)	1/4" Quick Coupling
PP8001600/1,0	800mm-1600mm 32"-64"	800mm 32"	1600mm 64"	1,0bar 14,5 psi	782mm 30,8"	1750mm 70"	56kg 123,5lbs	800mm(32") 1400mm(56") 1600mm(64")	2,0bar(29,0psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	1/4" Quick Coupling
PP8001800/1,0	800mm-1800mm 32"-72"	800mm 32"	1800mm 72"	1,0bar 14,5 psi	782mm 30,8"	2150mm 86"	66kg 145,5lbs	800mm(32") 1600mm(64") 1800mm(72")	2,3bar(33,4psi) 0,7bar(10,2psi) 0,4bar(5,8psi)	1/4" Quick Coupling
PP8002000/1,0	800mm-2000mm 32"-80"	800mm 32"	2000mm 80"	1,0bar 14,5 psi	782mm 30,8"	2500mm 100"	79kg 174,2lbs	800mm(32") 1800mm(72") 2000mm(80")	2,6bar(37,7psi) 0,5bar(7,3psi) 0,4bar(5,8psi)	1/4" Quick Coupling
PP8002200/1,0	800mm-2200mm 32"-88"	800mm 32"	2200mm 88"	1,0bar 14,5 psi	782mm 30,8"	3250mm 130"	98kg 216,1lbs	800mm(32") 1800mm(72") 2000mm(80")	2,9bar(42,1psi) 0,6bar(8,7psi) 0,4bar(5,8psi)	1/4" Quick Coupling
PP12002400/1,0	1200mm-2400mm 48"-96"	1200mm 48"	2400mm 96"	1,0bar 14,5 psi	1170mm 46,1"	3200mm 128"	138kg 304,2lbs	1200mm(48") 2000mm(80") 2400mm(96")	1,8bar(26,1psi) 0,7bar(10,2psi) 0,3bar(4,4psi)	1/4" Quick Coupling

# PIPE TEST PLUGS



Watch on Youtube

PTP: Pipe Test Plug / Flow Through Pipe Plug

It is totally same as Pipe Plug (PP) model except that it includes bypass connection.

The bypass connection allows water filling inside pipe line if there is no manhole access to pipe line or the bypass connection can be used to bypass the flow and discharge it to another line with a circulating pump.

The bypass allows water filling inside the pipeline. It can be also used for bypassing the water flow and discharging to another line and leak testing as well as dewatering or deviating the flow.

**\*All Plugs should be braced against sliding while back pressure exists.**

**\*Centralize the plug in the pipeline.**

**\*Custom production is available.**

Model#	Nominal Size	Usage Size Range		Inflation Pressure	Deflated Plug		Product Approx. Weight	Max. Allowable Back Pressure		Bypass Size
		Min. dia.	Max. dia.		Diameter	Length		Pipe Size	Back Pressure	
PTP3570/2,5	35mm-70mm 1,4"-2,8"	35mm 1,4"	70mm 2,8"	2,5bar 37 psi	33mm 1,3"	210mm 8,3"	0,3kg 0,7lbs	35mm(1,4")	1,5bar(22psi)	1/8"
								70mm(2,8")	1,0bar(14,5psi)	
PTP50100/1,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	1,5bar 22psi	47mm 1,9"	280mm 11"	0,5kg 1,1lbs	50mm(2")	1,0bar(14,5psi)	1/8"
								100mm(4")	0,5bar(7,3psi)	
PTP50100/2,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	2,5bar 37 psi	47mm 1,9"	280mm 11"	1,0kg 2,2lbs	50mm(2")	1,5bar(22,8psi)	1/8"
								100mm(4")	1,0bar(14,5psi)	
PTP70150/1,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	1,5bar 22psi	67mm 2,6"	400mm 16"	1,5kg 3,3lbs	70mm(2,8")	1,0bar(14,5psi)	1/2"
								100mm(4")	0,8bar(11,6psi)	
								150mm(6")	0,5bar(7,3psi)	
PTP70150/2,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	2,5bar 37 psi	67mm 2,6"	400mm 16"	1,6kg 3,5lbs	70mm(2,8")	1,7bar(24,7psi)	1/2"
								100mm(4")	1,4bar(20,3psi)	
								150mm(6")	1,0bar(14,5psi)	
PTP100200/1,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	1,5bar 22psi	91mm 3,6"	500mm 20"	2,6kg 5,7lbs	100mm(4")	1,0bar(14,5psi)	1"
								150mm(6")	0,8bar(11,6psi)	
								200mm(8")	0,5bar(7,3psi)	
PTP100200/2,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	2,5bar 37 psi	91mm 3,6"	500mm 20"	2,7kg 6,0lbs	100mm(4")	1,7bar(24,7psi)	1"
								150mm(6")	1,4bar(20,3psi)	
								200mm(8")	1,0bar(14,5psi)	
PTP100200/1,5-L	100mm-200mm 4"-8"	100mm 4"	200mm 8"	1,5bar 22psi	94mm 3,7"	400mm 16"	5,2kg 11,46lbs	NA		2"
PTP150300/1,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	1,5bar 22psi	140mm 5,5"	580mm 22,8"	4,5kg 9,9lbs	150mm(6")	1,0bar(14,5psi)	2"
								250mm(10")	0,7bar(10,2psi)	
								300mm(12")	0,5bar(7,3psi)	
PTP150300/2,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	2,5bar 37 psi	140mm 5,5"	580mm 22,8"	4,7kg 10,4lbs	150mm(6")	1,7bar(24,7psi)	2"
								250mm(10")	1,3bar(18,9psi)	
								300mm(12")	1,0bar(14,5psi)	
PTP200400/1,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	1,5bar 22 psi	187mm 7,4"	680mm 26,8"	8,5kg 18,7lbs	200mm(8")	1,0bar(14,5psi)	2"
								300mm(12")	0,7bar(10,2psi)	
								400mm(16")	0,5bar(7,3psi)	
PTP200400/2,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	2,5bar 37 psi	187mm 7,4"	680mm 26,8"	8,7kg 19,2lbs	200mm(8")	1,7bar(24,7psi)	2"
								300mm(12")	1,3bar(18,9psi)	

Model#	Nominal Size	Usage Size Range		Inflation Pressure	Deflated Plug		Product Approx. Weight	Max. Allowable Back Pressure		Bypass Size
		Min. dia.	Max. dia.		Diameter	Length		Pipe Size	Back Pressure	
PTP200500/1,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	1,5bar 22 psi	187mm 7,4"	820mm 32,3"	9,5kg 20,9lbs	200mm(8") 400mm(16") 500mm(20")	1,0bar(14,5psi) 0,6bar(8,7psi) 0,5bar(7,3psi)	2"
PTP200500/1,5-L	200mm-500mm 8"-20"	200mm 8"	500mm 20"	1,5bar 22 psi	192mm 7,56"	682mm 26,85"	12,5kg 27,56lbs	NA		4"
PTP200500/2,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	2,5bar 37 psi	187mm 7,4"	820mm 32,3"	9,8kg 21,6lbs	200mm(8") 400mm(16") 500mm(20")	1,9bar(27,6psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	2"
PTP300600/1,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	1,5bar 22 psi	286mm 11,3"	900mm 35,43"	15,2kg 33,5lbs	300mm(12") 500mm(20") 600mm(24")	1,0bar(14,5psi) 0,6bar(8,7psi) 0,5bar(7,3psi)	2"
PTP300600/1,5-L	300mm-600mm 12"-24"	300mm 12"	600mm 24"	1,5bar 22 psi	290mm 11,42"	682mm 26,85"	24kg 52,91lbs	NA		4"
PTP300600/1,5-DB	300mm-600mm 12"-24"	300mm 12"	600mm 24"	1,5bar 22 psi	286mm 11,3"	900mm 35,43"	15,2kg 33,5lbs	300mm(12") 500mm(20") 600mm(24")	1,0bar(14,5psi) 0,6bar(8,7psi) 0,5bar(7,3psi)	2 x 2"
PTP300600/2,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	2,5bar 37 psi	286mm 11,3"	900mm 35,43"	15,5kg 34,2lbs	300mm(12") 500mm(20") 600mm(24")	1,5bar(22,8psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	2"
PTP375800/1,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	1,5bar 22 psi	361mm 14,2"	1020mm 40,2"	18,5kg 40,8lbs	375mm(15") 600mm(24") 800mm(32")	1,2bar(17,4psi) 0,8bar(11,6psi) 0,5bar(7,3psi)	2"
PTP375800/2,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	2,5bar 37 psi	361mm 14,2"	1020mm 40,2"	19,8kg 43,7lbs	375mm(15") 600mm(24") 800mm(32")	1,8bar(26,1psi) 1,4bar(20,3psi) 1,0bar(14,5psi)	2"
PTP500800/1,5-L	500mm-800mm 20"-32"	500mm 20"	800mm 32"	1,5bar 22 psi	442mm 17,40"	682mm 26,85"	40kg 88,18lbs	NA		6"
PTP5001200/1,5-L	500mm-1200mm 20"-48"	500mm 20"	1200mm 48"	1,5bar 22 psi	442mm 17,40"	950mm 37,40"	52kg 114,64lbs	NA		8"
PTP5001000/1,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	1,5bar 22 psi	486mm 19,1"	1200mm 48"	42kg 92,6lbs	500mm(20") 800mm(32") 1000mm(40")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	2"
PTP5001000/1,5-DB	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	1,5bar 22 psi	486mm 19,1"	1200mm 48"	52kg 114,6lbs	500mm(20") 800mm(32") 1000mm(40")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	2 x 2"
PTP5001000/2,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	2,5bar 37 psi	486mm 19,1"	1200mm 48"	42kg 92,59lbs	500mm(20") 800mm(32") 1000mm(40")	1,5bar(22,8psi) 1,2bar(17,4psi) 1,0bar(14,5psi)	2"
PTP6001200/1,5	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	1,5bar 22 psi	586mm 23,1"	1400mm 56"	50kg 110,2lbs	600mm(24") 900mm(36") 1200mm(48")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	2"
PTP6001200/1,5-DB	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	1,5bar 22 psi	586mm 23,1"	1400mm 56"	61kg 134,5lbs	600mm(24") 900mm(36") 1200mm(48")	1,0bar(14,5psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	2 x 2"
PTP6001200/2,5	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	2,5bar 37 psi	586mm 23,1"	1400mm 56"	52kg 114,6lbs	600mm(24") 900mm(36") 1200mm(48")	2,0bar(29,0psi) 1,3bar(18,9psi) 0,8bar(11,6psi)	2"
PTP6001600/1,0	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,0bar 14,5 psi	580mm 22,83"	2100mm 84"	66kg 145,5lbs	600mm(24") 1400mm(56") 1600mm(64")	1,7bar(24,7psi) 0,5bar(7,3psi) 0,3bar(4,4psi)	2"
PTP6001600/1,0-DB	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,0bar 14,5 psi	580mm 22,83"	2100mm 84"	72kg 158,7lbs	600mm(24") 1400mm(56") 1600mm(64")	1,7bar(24,7psi) 0,5bar(7,3psi) 0,3bar(4,4psi)	2 x 2"
PTP6001600/1,5	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,5bar 22 psi	580mm 22,83"	2100mm 84"	69kg 152,1lbs	600mm(24") 1400mm(56") 1600mm(64")	2,3bar(33,4psi) 0,6bar(8,7psi) 0,4bar(5,8psi)	2"
PTP8001600/1,0	800mm-1600mm 32"-64"	800mm 32"	1600mm 64"	1,0bar 14,5 psi	782mm 30,8"	1750mm 70"	63kg 138,9lbs	800mm(32") 1400mm(56") 1600mm(64")	2,0bar(29,0psi) 0,7bar(10,2psi) 0,5bar(7,3psi)	2"
PTP8001800/1,0	800mm-1800mm 32"-72"	800mm 32"	1800mm 72"	1,0bar 14,5 psi	782mm 30,8"	2150mm 86"	73kg 160,9lbs	800mm(32") 1600mm(64") 1800mm(72")	2,3bar(33,4psi) 0,7bar(10,2psi) 0,4bar(5,8psi)	2"
PTP8002000/1,0	800mm-2000mm 32"-80"	800mm 32"	2000mm 80"	1,0bar 14,5 psi	782mm 30,8"	2500mm 100"	88kg 194,0,92lbs	800mm(32") 1800mm(72") 2000mm(80")	2,6bar(37,7psi) 0,5bar(7,3psi) 0,4bar(5,8psi)	2"
PTP8002200/1,0	800mm-2200mm 32"-88"	800mm 32"	2200mm 88"	1,0bar 14,5 psi	782mm 30,8"	3250mm 130"	109kg 240,3lbs	800mm(32") 1800mm(72") 2000mm(80")	2,9bar(42,1psi) 0,6bar(8,7psi) 0,4bar(5,8psi)	2"
PTP12002400/1,0	1200mm-2400mm 48"-96"	1200mm 48"	2400mm 96"	1,0bar 14,5 psi	1170mm 46,1"	3200mm 128"	150kg 330,7lbs	1200mm(48") 2000mm(80") 2400mm(96")	1,8bar(26,1psi) 0,7bar(10,2psi) 0,3bar(4,4psi)	2"

# HIGH PRESSURE PIPE PLUGS

HPP: High Pressure Pipe Plug

High Pressure Pipe Plugs are suitable for high pressure applications. These plugs are capable to handle 6 bar (87psi).

Model Designation is High Pressure Pipe Plug (HPP). The main purpose of usage of HPP model is blocking pipe or channels to stop flow.

These plugs are the unique solution for use in water mains, force mains or industrial lines. As with most of PlugCo products, the high-pressure pipe plug can be custom manufactured to meet the requirements of your projects.

Pipe Plugs are mainly used in pipe line rehabilitation field. Since, pipe plugs are only solution to stop the flow. Inflatable Pipe Plugs are pressurized by air source and expand in the line and seal it 100%. The friction force between rubber plug and the pipe prevents sliding of pipe plug inside the pipe.

**\*All Plugs should be braced against sliding while back pressure exists.**

**\*Centralize the plug in the pipeline.**

**\*Custom production is available.**



Model#	Nominal Size	Usage Size Range		Inflating Pressure	Back Pressure	Deflated Plug		Bypass Size
		Min. dia.	Max. dia.			Diameter	Length	
HPP100	100mm 4"	96mm 3,8"	108mm 4,3"	8bar 116psi	6bar 87psi	89mm 3,5"	580mm 23,2"	3/4"
HPP150	150mm 6"	146mm 5,7"	158mm 6,2"	8bar 116psi	6bar 87psi	139mm 5,5"	580mm 23,2"	3/4"
HPP200	200mm 8"	196mm 7,7"	208mm 8,2"	8bar 116psi	6bar 87psi	185mm 7,3"	680mm 27,2"	2"
HPP250	250mm 10"	246mm 9,7"	258mm 10,2"	8bar 116psi	6bar 87psi	235mm 9,3"	650mm 26"	2"
HPP300	300mm 12"	296mm 11,7"	308mm 12,1"	8bar 116psi	6bar 87psi	285mm 11,2"	650mm 26"	2"
HPP400	400mm 16"	396mm 15,6"	408mm 16,1"	8bar 116psi	6bar 87psi	385mm 15,2"	650mm 26"	2"
HPP450	450mm 18"	446mm 17,6"	458mm 18,1"	8bar 116psi	6bar 87psi	435mm 17,1"	650mm 26"	2"
HPP500	500mm 20"	496mm 19,5"	508mm 20,1"	8bar 116psi	6bar 87psi	485mm 19,1"	650mm 26"	2"
HPP600	600mm 24"	596mm 23,5"	608mm 24,1"	8bar 116psi	6bar 87psi	585mm 23,1"	650mm 26"	2"
HPP700	700mm 28"	696mm 27,4"	708mm 28,1"	8bar 116psi	6bar 87psi	685mm 27"	650mm 26"	2"
HPP800	800mm 32"	796mm 31,3"	808mm 32,1"	8bar 116psi	6bar 87psi	785mm 30,9"	650mm 26"	2"
HPP900	900mm 36"	896mm 35,3"	908mm 36,1"	8bar 116psi	6bar 87psi	885mm 34,8"	650mm 26"	2"
HPP1000	1000mm 40"	996mm 39,2"	1008mm 40,1"	8bar 116psi	6bar 87psi	985mm 38,8"	650mm 26"	2"
HPP1100	1100mm 44"	1096mm 43,1"	1108mm 44,1"	8bar 116psi	5bar 73psi	1085mm 42,8"	650mm 26"	2"
HPP1200	1200mm 48"	1196mm 47,1"	1208mm 48,1"	8bar 116psi	4bar 58psi	1185mm 46,7"	650mm 26"	2"
HPP1400	1400mm 56"	1396mm 55"	1408mm 56,1"	8bar 116psi	4bar 58psi	1385mm 54,5"	650mm 26"	2"
HPP1500	1500mm 60"	1496mm 58,9"	1508mm 60,1"	8bar 116psi	3bar 44psi	1485mm 58,5"	650mm 26"	2"
HPP1600	1600mm 64"	1596mm 62,8"	1608mm 64,1"	8bar 116psi	3bar 44psi	1585mm 62,4"	650mm 26"	2"
HPP1800	1800mm 72"	1796mm 70,7"	1808mm 72,1"	8bar 116psi	3bar 44psi	1785mm 70,3"	650mm 26"	2"
HPP2000	2000mm 80"	1996mm 78,6"	2008mm 80,1"	8bar 116psi	1,5bar 22psi	1985mm 78,1"	650mm 26"	2"

# CONICAL PLUGS

CP: Conical Plug

Conical Pipe Plug is a gravity lines testing device used to block/seal or to leak test sewer and drain pipelines of different sizes starting from Dia. 90mm up to Dia. 3600mm. Conical Plug is the recommended solution for large size pipes and for confined access applications thanks to its foldable shape and light weight. All Conical Plugs don't need any additional bracing as they have the special sealing feature. Conical Plugs are available either as blind model (CP: without bypass connection) or as flow-through model (CTP: with bypass connection).

CPT plugs include 2" bypass connection and their length and dimensions are same as CP models.



Model#	Nominal Size	Size Usage Range		Inflation Pressure	Deflated Plug Length	Product Weight	Max. Allowable Back Pressure
		Min. dia.	Max. dia.				
CP90150	90mm-150mm 3,5"-6"	90mm 3,5"	150mm 6"	1,0bar 14,5 psi	600mm 24"	0,9kg 1,98lbs	0,5bar 7,3psi
CP150400	150mm-400mm 6"-16"	150mm 6"	400mm 16"	1,0bar 14,5 psi	1050mm 42"	2,4kg 5,29lbs	0,5bar 7,3psi
CP250600	250mm-600mm 10"-24"	250mm 10"	600mm 24"	1,0bar 14,5 psi	1400mm 56"	4,7kg 10,37lbs	0,5bar 7,3psi
CP300800	300mm-800mm 12"-32"	300mm 12"	800mm 32"	1,0bar 14,5 psi	1850mm 74"	8,2kg 18,08lbs	0,5bar 7,3psi
CP4001000	400mm-1000mm 16"-40"	400mm 16"	1000mm 40"	1,0bar 14,5 psi	2250mm 90"	12,6kg 27,78lbs	0,5bar 7,3psi
CP5001200	500mm-1200mm 20"-48"	500mm 20"	1200mm 48"	1,0bar 14,5 psi	2300mm 92"	20,2kg 44,53lbs	0,5bar 7,3psi
CP5001400	500mm-1400mm 20"-56"	500mm 20"	1400mm 56"	1,0bar 14,5 psi	3050mm 122"	29,4kg 64,82lbs	0,5bar 7,3psi
CP5001500	500mm-1500mm 20"-60"	500mm 20"	1500mm 60"	1,0bar 14,5 psi	3150mm 126"	30,7kg 67,68lbs	0,5bar 7,3psi
CP6001600	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,0bar 14,5 psi	3300mm 132"	35,1kg 77,38lbs	0,5bar 7,3psi
CP10001800	1000mm-1800mm 40"-72"	1000mm 40"	1800mm 72"	1,0bar 14,5 psi	3650mm 146"	73,7kg 162,48lbs	0,5bar 7,3psi
CP10002200	1000mm-2200mm 40"-88"	1000mm 40"	2200mm 88"	1,0bar 14,5 psi	4550mm 182"	93,2kg 205,47lbs	0,5bar 7,3psi
CP12002400	1200mm-2400mm 48"-96"	1200mm 48"	2400mm 96"	1,0bar 14,5 psi	4700mm 188"	111,0kg 244,71lbs	0,5bar 7,3psi
CP15002800	1500mm-2800mm 60"-112"	1500mm 60"	2800mm 112"	1,0bar 14,5 psi	4900mm 196"	137kg 302,03lbs	0,5bar 7,3psi
CP18003200	1800mm-3200mm 72"-128"	1800mm 72"	3200mm 128"	0,7bar 10,2psi	5500mm 220"	192kg 423,29lbs	0,35bar 5,08psi
CP22003600	2200mm-3600mm 88"-144"	2200mm 88"	3600mm 144"	0,7bar 10,2psi	6000mm 240"	231kg 509,27lbs	0,35bar 5,08psi

# SINGLE SIZE MINI PIPE PLUGS



Watch on Youtube

MPP: Single Size Mini Pipe Plug

Model Designation is Single Size Mini Pipe Plug (MPP). The main purpose of usage of MPP model is blocking and sealing small size pipes to stop flow (water, sewage water or drain water).

Single size mini pipe plugs can be also used for pipeline leakage test, if there is an available manhole on the line. The pipeline to be blocked from both side by two pieces MPP model plug and then the test water to be filled from manhole to test the system.

MPP models can be used for any size between 30 mm up to 300 mm diameter with 2,5 bar inflation bar. These models are shorter than PP models. For plugs 30 mm up to 60 mm diameter, tire valve is used. For plugs 75 mm up to 300 mm diameter, 1/4" quick coupler is used. MPP models are used for only single size, not multiple size. They are shorter than multi size models and provides cheaper solution than multi size models.

MPP model pipe plug does not include bypass connection. Consult to PlugCo for bypass connection for mini pipe plugs.

**\*All Plugs should be braced against sliding while back pressure exists.**

**\*Centralize the plug in the pipeline.**

**\*Custom production is available.**





Model#	Application Size	Inflation Pressure	Deflated Plug		Product Approx. Weight	Max. Allowable Back Pressure	Inflation Port
			Diameter	Length			
MPP30	30mm 1,2"	2,5bar 37 psi	28mm 1,1"	60mm 2,4"	0,15kg 0,3lbs	0,5bar(7,3psi)	Tire Valve
MPP40	40mm 1,6"	2,5bar 37 psi	38mm 1,5"	90mm 3,5"	0,15kg 0,3lbs	0,5bar(7,3psi)	Tire Valve
MPP50	50mm 2"	2,5bar 37 psi	46mm 1,8"	110mm 3,9"	0,25kg 0,6lbs	0,5bar(7,3psi)	Tire Valve
MPP60	60mm 2,4"	2,5bar 37 psi	57mm 2,2"	120mm 4,7"	0,35kg 0,8lbs	0,5bar(7,3psi)	Tire Valve
MPP75	75mm 3"	2,5bar 37 psi	70mm 2,8"	140mm 5,5"	0,45kg 1,0lbs	0,5bar(7,3psi)	1/4" Quick Coupling
MPP100	100mm 4"	2,5bar 37 psi	89mm 3,5"	180mm 7,1"	0,6kg 1,3lbs	0,5bar(7,3psi)	1/4" Quick Coupling
MPP150	150mm 6"	2,5bar 37 psi	90mm 3,6"	200mm 8"	1,1kg 2,4lbs	0,5bar(7,3psi)	1/4" Quick Coupling
MPP200	200mm 8"	2,5bar 37 psi	138mm 5,5"	200mm 8"	1,6kg 2,5lbs	0,5bar(7,3psi)	1/4" Quick Coupling
MPP250	250mm 10"	2,5bar 37 psi	180mm 7,2"	250mm 10"	2,2kg 4,9"	0,5bar(7,3psi)	1/4" Quick Coupling
MPP300	300mm 12"	2,5bar 37 psi	225mm 9"	300mm 12"	3,5kg 7,7lbs	0,5bar(7,3psi)	1/4" Quick Coupling

# OIL & GAS PIPE PLUGS

GP: Gas (Nitrile Rubber) Plug for Oil/Chemical Application

Gas plugs are used to stop the flow of hydrocarbons such as oil, gas, petrol or chemicals during maintenance or repair works. Model designation is Gas Plug (GP). The nitrile rubber is used as main material high resistance to oil and gas.

Gas plugs can be inserted through small cavities and expanded inside the pipe. Nitrile plugs have the same design as PP models. However, these plugs are suitable for oil pipeline, petrochemical pipeline, gas pipeline, and any chemical fluid consist pipelines.

Consult to PlugCo about chemical which is in contact with gas plugs to select the suitable rubber for your application. GP model pipe plug does not include bypass connection. Consult to PlugCo for bypass connection for oil and gas pipe plugs.

**\*All Plugs should be braced against sliding while back pressure exists.**

**\*Centralize the plug in the pipeline.**

**\*Custom production is available.**



Model#	Nominal Size	Usage Size Range		Inflation Pressure	Deflated Plug		Product Approx. Weight	Max. Allowable Back Pressure		Inflation Port
		Min. dia.	Max. dia.		Diameter	Length		Pipe Size	Back Pressure	
GP3570/2,5	35mm-70mm 1,4"-2,8"	35mm 1,4"	70mm 2,8"	2,5bar 37 psi	33mm 1,3"	210mm 8,3"	0,3kg 0,7lbs	35mm(1,4")	1,5bar(21,8psi)	Tire Valve
								70mm(2,8")	1,0bar(14,5psi)	
GP50100/1,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	1,5bar 22 psi	47mm 1,9"	280mm 11"	0,4kg 0,9lbs	50mm(2")	1,0bar(14,5psi)	Tire Valve
								100mm(4")	0,5bar(7,3psi)	
GP50100/2,5	50mm-100mm 2"-4"	50mm 2"	100mm 4"	2,5bar 37 psi	47mm 1,9"	280mm 11"	0,4kg 0,9lbs	50mm(2")	1,5bar(21,8psi)	Tire Valve
								100mm(4")	1,0bar(14,5psi)	
GP70150/1,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	1,5bar 22 psi	68mm 2,7"	375mm 15"	0,6kg 1,3lbs	70mm(2,8")	1,0bar(14,5psi)	1/4" Quick Coupling
								100mm(4")	0,8bar(11,6psi)	
								150mm(6")	0,5bar(7,3psi)	
GP70150/2,5	70mm-150mm 2,8"-6"	70mm 2,8"	150mm 6"	2,5bar 37 psi	68mm 2,7"	375mm 15"	0,7kg 1,5lbs	70mm(2,8")	1,7bar(24,7psi)	1/4" Quick Coupling
								100mm(4")	1,4bar(20,3psi)	
								150mm(6")	1,0bar(14,5psi)	
GP100150/2,5	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	89mm 3,5"	210mm 8,3"	0,75kg 1,7lbs	100mm(4")	1,7bar(24,7psi)	1/4" Quick Coupling
								150mm(6")	0,5bar(7,3psi)	
GP100200/1,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	1,5bar 22 psi	91mm 3,6"	550mm 22"	1,2kg 2,6lbs	100mm(4")	1,0bar(14,5psi)	1/4" Quick Coupling
								150mm(6")	0,8bar(11,6psi)	
								200mm(8")	0,5bar(7,3psi)	
GP100200/2,5	100mm-200mm 4"-8"	100mm 4"	200mm 8"	2,5bar 37 psi	91mm 3,6"	550mm 22"	1,2kg 2,6lbs	100mm(4")	1,7bar(24,7psi)	1/4" Quick Coupling
								150mm(6")	1,4bar(20,3psi)	
								200mm(8")	1,0bar(14,5psi)	
GP150300/1,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	1,5bar 22 psi	140mm 5,5"	550mm 22"	2,1kg 4,6lbs	150mm(6")	1,0bar(14,5psi)	1/4" Quick Coupling
								250mm(10")	0,7bar(10,2psi)	
								300mm(12")	0,5bar(7,3psi)	
GP150300/2,5	150mm-300mm 6"-12"	150mm 6"	300mm 12"	2,5bar 37 psi	140mm 5,5"	550mm 22"	2,3kg 5,1lbs	150mm(6")	1,7bar(24,7psi)	1/4" Quick Coupling
								250mm(10")	1,3bar(18,9psi)	
								300mm(12")	1,0bar(14,5psi)	
GP200400/1,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	1,5bar 22 psi	187mm 7,4"	650mm 26"	3,1kg 6,8lbs	200mm(8")	1,0bar(14,5psi)	1/4" Quick Coupling
								300mm(12")	0,7bar(10,2psi)	
								400mm(16")	0,5bar(7,3psi)	
GP200400/2,5	200mm-400mm 8"-16"	200mm 8"	400mm 16"	2,5bar 37 psi	187mm 7,4"	650mm 26"	3,3kg 7,3lbs	200mm(8")	1,7bar(24,7psi)	1/4" Quick Coupling
								300mm(12")	1,3bar(18,9psi)	
								400mm(16")	1,0bar(14,5psi)	
GP200500/1,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	1,5bar 22 psi	187mm 7,4"	800mm 32"	4,5kg 9,9lbs	200mm(8")	1,0bar(14,5psi)	1/4" Quick Coupling
								400mm(16")	0,6bar(8,7psi)	
								500mm(20")	0,5bar(7,3psi)	
GP200500/2,5	200mm-500mm 8"-20"	200mm 8"	500mm 20"	2,5bar 37 psi	187mm 7,4"	800mm 32"	4,8kg 10,6lbs	200mm(8")	1,9bar(27,6psi)	1/4" Quick Coupling
								400mm(16")	1,2bar(17,4psi)	
								500mm(20")	1,0bar(14,5psi)	
GP300600/1,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	1,5bar 22 psi	286mm 11,3"	850mm 34"	9,5kg 20,9lbs	300mm(12")	1,0bar(14,5psi)	1/4" Quick Coupling
								500mm(20")	0,6bar(8,7psi)	
								600mm(24")	0,5bar(7,3psi)	
GP300600/2,5	300mm-600mm 12"-24"	300mm 12"	600mm 24"	2,5bar 37 psi	286mm 11,3"	850mm 34"	9,8kg 21,6lbs	300mm(12")	1,5bar(21,8psi)	1/4" Quick Coupling
								500mm(20")	1,2bar(17,4psi)	
								600mm(24")	1,0bar(14,5psi)	
GP375800/1,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	1,5bar 22 psi	361mm 14,2"	1000mm 40"	11kg 24,3lbs	375mm(15")	1,2bar(17,4psi)	1/4" Quick Coupling
								600mm(24")	0,8bar(11,6psi)	
								800mm(32")	0,5bar(7,3psi)	
GP375800/2,5	375mm-800mm 15"-32"	375mm 15"	800mm 32"	2,5bar 37 psi	361mm 14,2"	1000mm 40"	12kg 26,5lbs	375mm(15")	2,0bar(29,0psi)	1/4" Quick Coupling
								600mm(24")	1,5bar(21,8psi)	
								800mm(32")	1,0bar(14,5psi)	
GP5001000/1,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	1,5bar 22 psi	486mm 19,1"	1150mm 46"	26,5kg 59,5lbs	500mm(20")	1,0bar(14,5psi)	1/4" Quick Coupling
								800mm(32")	0,7bar(10,2psi)	
								1000mm(40")	0,5bar(7,3psi)	
GP5001000/2,5	500mm-1000mm 20"-40"	500mm 20"	1000mm 40"	2,5bar 37 psi	486mm 19,1"	1150mm 46"	28,5kg 63,9lbs	500mm(20")	1,5bar(21,8psi)	1/4" Quick Coupling
								800mm(32")	1,2bar(17,4psi)	
								1000mm(40")	1,0bar(14,5psi)	
GP6001200/1,5	600mm-1200mm 24"-48"	600mm 24"	1200mm 48"	1,5bar 22 psi	586mm 23,1"	1300mm 52"	35kg 77,1lbs	600mm(24")	1,0bar(14,5psi)	1/4" Quick Coupling
								900mm(36")	0,7bar(10,2psi)	
								1200mm(48")	0,5bar(7,3psi)	
GP6001600/1,0	600mm-1600mm 24"-64"	600mm 24"	1600mm 64"	1,0bar 14,5 psi	580mm 22,8"	2050mm 82"	45kg 99,2lbs	600mm(24")	1,7bar(24,7psi)	1/4" Quick Coupling
								1400mm(56")	0,5bar(7,3psi)	
								1600mm(64")	0,3bar(4,4psi)	
GP8001600/1,0	800mm-1600mm 32"-64"	800mm 32"	1600mm 64"	1,0bar 14,5 psi	782mm 30,8"	1750mm 70"	56kg 123,5lbs	800mm(32")	2,0bar(29,0psi)	1/4" Quick Coupling
								1400mm(56")	0,7bar(10,2psi)	
								1600mm(64")	0,5bar(7,3psi)	
GP8001800/1,0	800mm-1800mm 32"-72"	800mm 32"	1800mm 72"	1,0bar 14,5 psi	782mm 30,8"	2150mm 86"	66kg 145,5lbs	800mm(32")	2,3bar(33,4psi)	1/4" Quick Coupling
								1600mm(64")	0,7bar(10,2psi)	
								1800mm(72")	0,4bar(5,8psi)	
GP8002000/1,0	800mm-2000mm 32"-80"	800mm 32"	2000mm 80"	1,0bar 14,5 psi	782mm 30,8"	2500mm 100"	79kg 174,292lbs	800mm(32")	2,6bar(37,7psi)	1/4" Quick Coupling
								1800mm(72")	0,5bar(7,3psi)	
								2000mm(80")	0,4bar(5,8psi)	
GP8002200/1,0	800mm-2200mm 32"-88"	800mm 32"	2200mm 88"	1,0bar 14,5 psi	782mm 30,8"	3250mm 130"	98kg 216,1lbs	800mm(32")	2,9bar(42,1psi)	1/4" Quick Coupling
								1800mm(72")	0,6bar(8,7psi)	
								2000mm(80")	0,4bar(5,8psi)	
GP12002400/1,0	1200mm-2400mm 48"-96"	1200mm 48"	2400mm 96"	1,0bar 14,5 psi	1170mm 46,1"	3200mm 128"	138kg 304,2lbs	1200mm(48")	1,8bar(26,1psi)	1/4" Quick Coupling
								2000mm(80")	0,7bar(10,2psi)	
								2400mm(96")	0,3bar(4,4psi)	

# STEAM PROCESS PLUGS

SPP: Steam Process Plug

Steam process plug is used for rehabilitation works of CIPP contractors. They have big size Stainless Steel bypass and made of SBR+NR mixed rubber reinforced with Aramid Cords.

Steam Process Plugs have Stainless Steel body construction. This makes the products durable and CIPP contractors can easily handle them in the manhole.

PlugCo Steam Process Plugs are field tested and approved by CIPP contractors.

The rubber part is reinforced by Kevlar cords to operate in heavy site conditions.

PlugCo provides multiple size and single size Steam Plugs to cover the market needs.

Application: CIPP Lining, FIPP lining, Sewer Rehabilitation, Trenchless No Dig Solutions.

\*Custom production is available.



MULTIPLE SIZE STEAM PROCESS PIPE PLUGS							
Model#	Nominal Size	Usage Size Range		Inflation Pressure	Deflated Plug		Bypass Size
		Min. Dia.	Max. Dia.		Diameter	Length	
SPP100200	100mm-200mm 4"-8"	100mm 4"	200mm 8"	2,8bar 40psi	87mm 3,4"	560mm 22"	1"-2"
SPP150250	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,8bar 40psi	135mm 5,3"	560mm 22"	1"-2"-3"
SPP200300	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,8bar 40psi	165mm 6,5"	560mm 22"	2"-3"-4"
SPP250400	250mm-400mm 10"-16"	250mm 10"	400mm 16"	2,8bar 40psi	216mm 8,5"	560mm 22"	2"-3"-4"
SPP300450	300mm-450mm 12"-18"	300mm 12"	450mm 18"	2,8bar 40psi	254mm 10"	560mm 22"	2"-3"-4"
SPP375550	375mm-550mm 15"-22"	375mm 15"	550mm 22"	2,8bar 40psi	343mm 13,8"	610mm 24"	2"-3"-4"
SPP450600	450mm-600mm 18"-24"	450mm 18"	600mm 24"	2,8bar 40psi	406mm 16,0"	622mm 24,5"	2"-3"-4"

SINGLE SIZE STEAM PROCESS PIPE PLUGS					
Model#	Application Size	Inflation Pressure	Deflated Plug		Bypass Size
			Diameter	Length	
SPP100	100mm 4"	2,8bar 40psi	64mm 2,5"	300mm 12"	1"
SPP150	150mm 6"	2,8bar 40psi	97mm 3,8"	300mm 12"	2"
SPP200	200mm 8"	2,8bar 40psi	135mm 5,4"	300mm 12"	2"
SPP250	250mm 10"	2,8bar 40psi	165mm 6,6"	300mm 12"	2"
SPP300	300mm 12"	2,8bar 40psi	216mm 8,6"	300mm 12"	2"
SPP375	375mm 15"	2,8bar 40psi	250mm 10"	300mm 12"	2"
SPP450	450mm 18"	2,8bar 40psi	343mm 13,7"	375mm 15"	2"
SPP525	525mm 21"	2,8bar 40psi	400mm 16"	375mm 15"	2"
SPP600	600mm 24"	2,8bar 40psi	483mm 19,3"	375mm 15"	2"

# MANHOLE TEST PLUGS

MTP: Manhole Test Plug

Manhole test plugs are used for manhole leakage test for testing tightness of such manholes, PlugCo offers a special plug distinguished for simple handling. Manhole Test Plug is relatively short and light, equipped with three eyelet bolts for simple vertical positioning of the plug during insertion procedure.

\*All Plugs should be braced against sliding while back pressure exists.

\*Custom production is available.



Model#	Nominal Size	Usage Size Range		Inflation Pressure	Max Allowable Back Pressure	Product Diameter	Total Length	Bypass Size	Product Approx. Weight
		Min. dia.	Max. dia.						
MTP600650	600mm-650mm 24"-26"	600mm 24"	650mm 26"	1,5bar 22 psi	0,2bar 2,9psi	582mm 22,9"	250mm 10"	2 X 1/4"	18,2kg 40,12lbs
								1"	15,5kg 34,17lbs
								2"	18,8kg 41,45lbs
MTP800850	800mm-850mm 32"-34"	800mm 32"	850mm 34"	1,5bar 22 psi	0,2bar 2,9psi	782mm 30,8"	250mm 10"	2 X 1/4"	23,8kg 52,47lbs
								1"	24,0kg 52,91lbs
								2"	24,3kg 53,57lbs

INVENTION

# SMART PLUG®



## TECHNICAL DATA SHEET

### BENEFITS

**Exact Back Pressure Calculation**

#### SMART PLUG

Smart Plug® answers the question: “What is the **Real Back Pressure** of the pipe plug during the application?”

In each application the pipe material and pipeline condition are different. That means back-pressure is always different in each situation. Instead of being provided a back-pressure chart for certain conditions, Smart Plug gives the end users the **Real Status of the Back Pressure** which can be hold by the Pipe Plug at each application.

With all the data given, the system automatically calculates the water head that the pipe plug can hold during the application. The back pressure of the pipe plug can be followed instantly by using the Acoustic and Visual Pressure Warning System. If the back pressure reaches the set value, the Warning System activates the acoustic alarm.

**Enhances workplace safety**

If the pipe plug begins to slide, the Pressure Warning System activates the acoustic and signal alarm to warn the user. So, the user has the time to take necessary measures such as dewatering and/or leaving the danger zone. By this means, accidents and injuries due to sliding are prevented. Any potential physical damage is eliminated.

**Reduces Cost**

The system helps users to pick the right pipe plug and frees from supporting during the application. Hence, the users bear less cost.

The system assists users to follow up how much back pressure is hold by the pipe plug, thus saves cost on over plug bracing and over capacity dewatering.

**Reduces Work Time**

Since the unnecessary applications are eliminated, the user can make exact planning and shorten the application, thus save time.

**Monitors the Pressure**

The back pressure, pressure drop, or increase can be monitored instantly by graphics. All the pressure values recorded during the process can be downloaded as Excel and Pdf files.

### FEATURES

**Report Generation Easy to Use Pressure Monitoring Back Pressure Calculation Software**

The back pressure during application can be reported at the end of the process.

The components are easy to set up and disassemble.

The decrease and increase at the back pressure can be monitored by graphics.

The real status of the back pressure can be calculated accurately.

### AVAILABLE SIZES

For Back Pressure Calculation: up to 1800 mm

For Pressure Monitoring: up to 3000 mm

### APPLICATIONS

Can be used at:

-All gravity pipelines for temporary plugging, applying leakage test

-Low pressure oil and gas lines for sealing

# JOINT TESTERS



Watch on Youtube  
for Application Video

JT: Joint Tester for Leak Test

Model designation is Joint Tester (JT) are usually used for testing joints of concrete pipes or GRP pipes with low water consumption for testing and less testing time.

Large volume water is needed for leakage test. However, joint test plugs are only testing joint parts of two pipes.

Since it tests limited area, the water consumption is less. It includes wheels to reach joint point inside pipe line easily. There are adjustment bolts to centralize the joint test plug inside the pipe. If manhole size is small and it is hard to take in the tester in pipe, PlugCo has collapsible tester for confined space conditions. It is three-part product and easy to assemble/dismantle in the pipe so you can even move it in the elbows. Joint length is variable as per pipe material. So, the end user must provide joint length to PlugCo.

If the pipe size less than 800mm, the joint tester should be driven by a robot. PlugCo recommend joint tester application for above 1000mm pipes. PlugCo designed joint tester as per EN1610 for water and air test. We recommend to use joint tester with only PlugCo control device for air and water test.

\*Custom production is available.





Model#	Nominal Size	Product Diameter	Inflation Pressure	Water Test Pressure	Air Test Pressure	Product Length
JT400	400mm 16"	350mm 14"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT500	500mm 20"	450mm 18"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT600	600mm 24"	550mm 22"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT700	700mm 28"	650mm 26"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT800	800mm 32"	750mm 30"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT900	900mm 36"	850mm 34"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1000	1000mm 40"	950mm 38"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1100	1100mm 44"	1050mm 42"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1200	1200mm 48"	1150mm 46"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1300	1300mm 52"	1250mm 50"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1400	1400mm 56"	1350mm 54"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1500	1500mm 60"	1450mm 58"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1600	1600mm 64"	1550mm 62"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1700	1700mm 68"	1650mm 66"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1800	1800mm 72"	1750mm 70"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT1900	1900mm 76"	1850mm 74"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2000	2000mm 80"	1950mm 78"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2100	2100mm 84"	2050mm 82"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2200	2200mm 88"	2150mm 86"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2300	2300mm 92"	2250mm 90"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2400	2400mm 96"	2350mm 94"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2500	2500mm 100"	2450mm 98"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2600	2600mm 104"	2550mm 102"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2700	2700mm 108"	2650mm 106"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length
JT2800	2800mm 112"	2750mm 110"	2,5bar 37 psi	0,5bar 7,3psi	0,2bar 2,9psi	300mm(12")+Joint Length

# HIGH PRESSURE JOINT TESTERS



Watch on Youtube

## JT-H: Joint Tester – High Pressure

Model designation is Joint Tester (JT-H) are usually used for testing joints of concrete pipes or GRP pipes with low water consumption for testing and less testing time.

Large volume water is needed for leakage test. However, joint test plugs are only testing joint parts of two pipes.

Since it tests limited area, the water consumption is less. It includes wheels to reach joint point inside pipe line easily. There are adjustment bolts to centralize the joint test plug inside the pipe. Joint length is variable as per pipe material. So, the end user must provide joint length to PlugCo.

If the pipe size less than 800mm, the joint tester should be driven by a robot. PlugCo recommend high pressure joint tester application for above 1000mm pipes. PlugCo designed joint tester as per EN1610 for water and air test.

We recommend to use joint tester with only PlugCo control device for air and water test.

Dimensions: These plugs are available in different sizes ranging from 400 mm to 2600 mm for Max. Pressure is 10,3 Bar.

\*Custom production is available.



Model#	Nominal Size	Product Diameter	Inflation Pressure	Water Test Pressure	Product Length
JT400-H	400mm 16"	380mm 15,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT500-H	500mm 20"	480mm 19,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT600-H	600mm 24"	580mm 23,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT700-H	700mm 28"	680mm 27,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT800-H	800mm 32"	780mm 31,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT900-H	900mm 36"	880mm 35,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1000-H	1000mm 40"	980mm 39,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1100-H	1100mm 44"	1080mm 43,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1200-H	1200mm 48"	1180mm 47,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1300-H	1300mm 52"	1280mm 51,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1400-H	1400mm 56"	1380mm 55,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1500-H	1500mm 60"	1480mm 59,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1600-H	1600mm 64"	1580mm 63,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1700-H	1700mm 68"	1680mm 67,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1800-H	1800mm 72"	1780mm 71,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT1900-H	1900mm 76"	1880mm 75,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2000-H	2000mm 80"	1980mm 79,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2100-H	2100mm 84"	2080mm 83,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2200-H	2200mm 88"	2180mm 87,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2300-H	2300mm 92"	2280mm 91,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2400-H	2400mm 96"	2380mm 95,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2500-H	2500mm 100"	2480mm 99,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length
JT2600-H	2600mm 104"	2580mm 103,2"	10,3bar 150 psi	6,9bar 100psi	600mm(24")+Joint Length

# FLEXIBLE PIPE PACKERS



Watch on Youtube



FPP: Flexible Packer for Pipe Repair

Pipe Packers allows to repair pipe lines when cracks happen. Easy and cost-effective solution. Flexible packers are used for repair and maintenance purpose. Model designation is Flexible Packer Test Plugs (FPP). They are suitable for repair of pipeline joints or repair of shorter pipeline sections along with chemical repair patches.

\*Custom production is available.

Model#	Nominal Size	Usage Size Range		Inflation Pressure	Patch Length @ Max. Dia.	Deflated Dia.	Product Approx. Weight
		Min. dia.	Max. dia.				
FPP255006	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	300mm 12"	21mm 0,83"	0,30kg 0,66lbs
FPP255010	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	600mm 24"	21mm 0,83"	0,35kg 0,77lbs
FPP255015	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	1200mm 48"	21mm 0,83"	0,4kg 0,88lbs
FPP255020	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	1500mm 60"	21mm 0,83"	0,5kg 1,10lbs
FPP255030	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	2700mm 108"	21mm 0,83"	0,6kg 1,32lbs
FPP255040	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	3600mm 144"	21mm 0,83"	0,7kg 1,54lbs
FPP255050	25mm-50mm 1"-2"	25mm 1"	50mm 2"	3,0bar 44 psi	4500mm 180"	21mm 0,83"	0,8kg 1,76lbs
FPP507010	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	600mm 24"	34mm 1,34"	0,6kg 1,32lbs
FPP507015	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	1200mm 48"	34mm 1,34"	0,8kg 1,76lbs
FPP507020	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	1500mm 60"	34mm 1,34"	1,3kg 2,87lbs
FPP507030	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	2700mm 108"	34mm 1,34"	1,6kg 3,53lbs
FPP507040	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	3600mm 144"	34mm 1,34"	2,5kg 5,51lbs
FPP507050	50mm-70mm 2"-2,76"	50mm 2"	70mm 3"	3,0bar 44 psi	4500mm 180"	34mm 1,34"	2,8kg 6,17lbs
FPP7010006	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	300mm 12"	52mm 2,05"	0,6kg 1,32lbs
FPP7010010	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	600mm 24"	52mm 2,05"	0,8kg 1,76lbs
FPP7010015	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	1200mm 48"	52mm 2,05"	1,1kg 2,43lbs
FPP7010020	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	1500mm 60"	52mm 2,05"	1,4kg 3,09lbs
FPP7010030	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	2700mm 108"	52mm 2,05"	2kg 4,41lbs
FPP7010040	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	3600mm 144"	52mm 2,05"	2,8kg 6,17lbs
FPP7010050	70mm-100mm 2,76"-4"	70mm 2,76"	100mm 4"	3,0bar 44 psi	4500mm 180"	52mm 2,05"	3,4kg 7,50lbs
FPP8012510	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	600mm 24"	55mm 2,17"	1,4kg 3,09lbs
FPP8012515	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	1200mm 48"	55mm 2,17"	2kg 4,41lbs

Model#	Nominal Size	Usage Size Range		Inflation Pressure	Patch Length @ Max. Dia.	Deflated Dia.	Product Approx. Weight
		Min. dia.	Max. dia.				
FPP8012520	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	1500mm 60"	55mm 2,17"	2,3kg 5,07lbs
FPP8012530	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	2700mm 108"	55mm 2,17"	4,2kg 9,26lbs
FPP8012540	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	3600mm 144"	55mm 2,17"	5kg 11,02lbs
FPP8012550	80mm-125mm 3,15"-5"	80mm 3,15"	125mm 5"	3,0bar 44 psi	4500mm 180"	55mm 2,17"	5,7kg 12,57lbs
FPP10015010	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	600mm 24"	66mm 2,60"	1,6kg 3,53lbs
FPP10015015	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	1200mm 48"	66mm 2,60"	2,2kg 4,85lbs
FPP10015020	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	1500mm 60"	66mm 2,60"	2,6kg 5,73lbs
FPP10015030	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	2700mm 108"	66mm 2,60"	4,7kg 10,36lbs
FPP10015040	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	3600mm 144"	66mm 2,60"	5,7kg 12,57lbs
FPP10015050	100mm-150mm 4"-6"	100mm 4"	150mm 6"	2,5bar 37 psi	4500mm 180"	66mm 2,60"	6,5kg 14,33lbs
FPP15020010	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	600mm 24"	96mm 3,78"	1,9kg 4,19lbs
FPP15020015	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	1200mm 48"	96mm 3,78"	2,4kg 5,29lbs
FPP15020020	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	1500mm 60"	96mm 3,78"	2,8kg 6,17lbs
FPP15020030	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	2700mm 108"	96mm 3,78"	3,8kg 8,38lbs
FPP15020040	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	3600mm 144"	96mm 3,78"	4,9kg 10,80lbs
FPP15020050	150mm-200mm 6"-8"	150mm 6"	200mm 8"	2,5bar 37 psi	4500mm 180"	96mm 3,78"	5,3kg 11,68lbs
FPP15025010	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	600mm 24"	108mm 4,25"	2,2kg 4,85lbs
FPP15025015	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	1200mm 48"	108mm 4,25"	2,7kg 5,95lbs
FPP15025020	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	1500mm 60"	108mm 4,25"	3,2kg 7,05lbs
FPP15025030	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	2700mm 108"	108mm 4,25"	4,2kg 9,26lbs
FPP15025040	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	3600mm 144"	108mm 4,25"	5,2kg 11,46lbs
FPP15025050	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	4500mm 180"	108mm 4,25"	6,2kg 13,67lbs
FPP20030010	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	600mm 24"	150mm 6"	3,6kg 7,94lbs
FPP20030015	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	1200mm 48"	150mm 6"	4,1kg 9,04lbs
FPP20030020	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	1500mm 60"	150mm 6"	7,8kg 17,20lbs
FPP20030030	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	2700mm 108"	150mm 6"	11,1kg 24,47lbs
FPP20030040	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	3600mm 144"	150mm 6"	15,3kg 33,73"
FPP20030050	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	4500mm 180"	150mm 6"	19,8kg 43,65lbs
FPP30040010	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	600mm 24"	212mm 8,3"	16kg 35,27lbs
FPP30040015	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	1200mm 48"	212mm 8,3"	18,8kg 41,45lbs
FPP30040020	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	1500mm 60"	212mm 8,3"	20kg 44,09lbs
FPP30040030	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	2700mm 108"	212mm 8,3"	21,5kg 47,40lbs
FPP30040040	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	3600mm 144"	212mm 8,3"	24,2kg 53,35lbs
FPP30040050	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	4500mm 180"	212mm 8,3"	28,3kg 62,39lbs
FPP40060015	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	1200mm 48"	300mm 12"	23kg 50,71lbs
FPP40060020	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	1500mm 60"	300mm 12"	25,3kg 55,78lbs
FPP40060030	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	2700mm 108"	300mm 12"	29,5kg 65,04lbs
FPP40060040	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	3600mm 144"	300mm 12"	33kg 72,75lbs
FPP40060050	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	4500mm 180"	300mm 12"	37kg 81,57lbs

# FLOW THROUGH PACKERS



Watch on Youtube

FTP: Flow Through Packer

Pipe Packers allows to repair pipe lines when cracks happen. Easy and cost-effective solution. Flexible packers are used for repair and maintenance purpose. Model designation is flow through packer (FTP). They are suitable for repair of pipeline joints or repair of shorter pipeline sections along with chemical repair patches. It includes flow-through (bypass) connection to bypass flow during application.

On each side of the packer their wheels are attached at an angle of 120 degrees to prevent turnover while transported along the pipeline.

\*Custom production is available.



Model#	Nominal Size	Usage Size Range		Inflation Pressure	Patch Length @ Max. Dia.	Deflated Dia.	Product Approx. Weight	Bypass Size
		Min. Dia.	Max. Dia.					
FTP15025010	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	600mm 24"	108mm 4,25"	8,3kg 18,30lbs	2"
FTP15025015	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	1200mm 48"	108mm 4,25"	9,4kg 20,72lbs	2"
FTP15025020	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	1500mm 60"	108mm 4,25"	12kg 26,46lbs	2"
FTP15025025	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	2100mm 84"	108mm 4,25"	14kg 30,86lbs	2"
FTP15025030	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	2700mm 108"	108mm 4,25"	17kg 37,48lbs	2"
FTP15025040	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	3600mm 144"	108mm 4,25"	20kg 44,09lbs	2"
FTP15025050	150mm-250mm 6"-10"	150mm 6"	250mm 10"	2,5bar 37 psi	4500mm 180"	108mm 4,25"	23kg 50,71lbs	2"
FTP20030010	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	600mm 24"	158mm 6,22"	10kg 22,05lbs	2"
FTP20030015	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	1200mm 48"	158mm 6,22"	12kg 26,46lbs	2"
FTP20030020	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	1500mm 60"	158mm 6,22"	14kg 30,87lbs	2"
FTP20030030	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	2700mm 108"	158mm 6,22"	16kg 35,27lbs	2"
FTP20030040	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	3600mm 144"	158mm 6,22"	20kg 44,09lbs	2"
FTP20030050	200mm-300mm 8"-12"	200mm 8"	300mm 12"	2,0bar 29 psi	4500mm 180"	158mm 6,22"	24kg 52,91lbs	2"
FTP30040010	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	600mm 24"	220mm 8,66"	16kg 35,27lbs	3"
FTP30040015	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	1200mm 48"	220mm 8,66"	18kg 39,68lbs	3"
FTP30040020	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	1500mm 60"	220mm 8,66"	22kg 48,50lbs	3"
FTP30040030	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	2700mm 108"	220mm 8,66"	26kg 57,32lbs	3"
FTP30040040	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	3600mm 144"	220mm 8,66"	30kg 66,14lbs	3"
FTP30040050	300mm-400mm 12"-16"	300mm 12"	400mm 16"	1,5bar 22 psi	4500mm 180"	220mm 8,66"	34kg 74,96lbs	3"
FTP40060015	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	1200mm 48"	350mm 14"	28kg 61,73lbs	3"
FTP40060020	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	1500mm 60"	350mm 14"	33kg 72,75lbs	3"
FTP40060030	400mm-600mm 16"-24"	400mm 16"	600mm 24"	1,0bar 14,5 psi	2700mm 108"	350mm 14"	41kg 90,39lbs	3"
FTP60080015	600mm-800mm 24"-32"	600mm 24"	800mm 32"	1,0bar 14,5 psi	1200mm 48"	375mm 15"	39kg 85,98lbs	3"
FTP60080020	600mm-800mm 24"-32"	600mm 24"	800mm 32"	1,0bar 14,5 psi	1500mm 60"	375mm 15"	42kg 92,59lbs	3"
FTP60080030	600mm-800mm 24"-32"	600mm 24"	800mm 32"	1,0bar 14,5 psi	2700mm 108"	375mm 15"	48kg 105,82lbs	3"
FTP800100015	800mm-1000mm 32"-40"	800mm 32"	1000mm 40"	1,0bar 14,5 psi	1200mm 48"	555mm 22"	74kg 163,14lbs	3"
FTP800100020	800mm-1000mm 32"-40"	800mm 32"	1000mm 40"	1,0bar 14,5 psi	1500mm 60"	555mm 22"	81kg 178,57lbs	3"
FTP800100025	800mm-1000mm 32"-40"	800mm 32"	1000mm 40"	1,0bar 14,5 psi	2700mm 108"	555mm 22"	89kg 196,21lbs	3"

# BENDY PACKERS

BP: Bendy Packer

Bendy packer (BP) is flexible double layer reinforced rubber used to point repair 45- and 90-degree elbows.

\*Custom production is available.



Model#	Nominal Size	Usage Size Range		Inflation Pressure	Overall Length	Deflated Dia.	Product Approx. Weight
		Min. dia.	Max. dia.				
BP507012	50mm-70mm 2"-2,8"	50mm 2"	70mm 2,8"	2,0bar 29 psi	1200mm 48"	34mm 1,36"	1,2kg 2,65lbs
BP507020	50mm-70mm 2"-2,8"	50mm 2"	70mm 2,8"	2,0bar 29 psi	2000mm 80"	34mm 1,36"	1,8kg 3,97lbs
BP507030	50mm-70mm 2"-2,8"	50mm 2"	70mm 2,8"	2,0bar 29 psi	3000mm 120"	34mm 1,36"	2,7kg 5,95lbs
BP507040	50mm-70mm 2"-2,8"	50mm 2"	70mm 2,8"	2,0bar 29 psi	4000mm 160"	34mm 1,36"	3,6kg 7,94lbs
BP507050	50mm-70mm 2"-2,8"	50mm 2"	70mm 2,8"	2,0bar 29 psi	5000mm 200"	34mm 1,36"	4,5kg 9,92lbs
BP708012	70mm-80mm 2,8"-3,2"	70mm 2,8"	80mm 3,2"	2,0bar 29 psi	1200mm 48"	43mm 1,72"	1,40kg 3,09lbs
BP708020	70mm-80mm 2,8"-3,2"	70mm 2,8"	80mm 3,2"	2,0bar 29 psi	2000mm 80"	43mm 1,72"	2,3kg 5,07lbs
BP708030	70mm-80mm 2,8"-3,2"	70mm 2,8"	80mm 3,2"	2,0bar 29 psi	3000mm 120"	43mm 1,72"	3,5kg 7,72lbs
BP708040	70mm-80mm 2,8"-3,2"	70mm 2,8"	80mm 3,2"	2,0bar 29 psi	4000mm 160"	43mm 1,72"	4,6kg 10,14lbs
BP708050	70mm-80mm 2,8"-3,2"	70mm 2,8"	80mm 3,2"	2,0bar 29 psi	5000mm 200"	43mm 1,72"	5,8kg 12,79lbs
BP10012512	100mm-125mm 4"-5"	100mm 4"	125mm 5"	2,0bar 29 psi	1200mm 48"	64mm 2,56"	2,2kg 4,85lbs
BP10012520	100mm-125mm 4"-5"	100mm 4"	125mm 5"	2,0bar 29 psi	2000mm 80"	64mm 2,56"	3,4kg 7,50lbs
BP10012530	100mm-125mm 4"-5"	100mm 4"	125mm 5"	2,0bar 29 psi	3000mm 120"	64mm 2,56"	5,1kg 11,24lbs
BP10012540	100mm-125mm 4"-5"	100mm 4"	125mm 5"	2,0bar 29 psi	4000mm 160"	64mm 2,56"	6,8kg 14,99lbs
BP10012550	100mm-125mm 4"-5"	100mm 4"	125mm 5"	2,0bar 29 psi	5000mm 200"	64mm 2,56"	8,5kg 18,74lbs
BP15017012	150mm-170mm 6"-6,8"	150mm 6"	170mm 6,8"	2,0bar 29 psi	1200mm 48"	112mm 4,48"	3,70kg 8,16lbs
BP15017020	150mm-170mm 6"-6,8"	150mm 6"	170mm 6,8"	2,0bar 29 psi	2000mm 80"	112mm 4,48"	5,4kg 11,90lbs
BP15017030	150mm-170mm 6"-6,8"	150mm 6"	170mm 6,8"	2,0bar 29 psi	3000mm 120"	112mm 4,48"	8,3kg 18,30lbs
BP15017040	150mm-170mm 6"-6,8"	150mm 6"	170mm 6,8"	2,0bar 29 psi	4000mm 160"	112mm 4,48"	11,2kg 24,69lbs
BP15017050	150mm-170mm 6"-6,8"	150mm 6"	170mm 6,8"	2,0bar 29 psi	5000mm 200"	112mm 4,48"	13,9kg 30,64lbs



# FLEXIBLE PILLOW PACKERS

FP-P: Flexible pillow packer

PlugCo's Pillow Packers are used for repair and maintenance of large pipe sizes. When there is a crack or damage in a large diameter pipe, the most cost-effective repair method – a PlugCo pillow packer – is a convenient solution to repair it. The main difference between normal packers and pillow packers is the latter's flexibility; pillow packers are foldable to a flat shape. This makes installation of the packer easy, especially if the access opening or manhole is relatively small. Also, Plugco's pillow packers are approximately 35% lighter than standard packers of equivalent size, making them easy to carry on the job site, very maneuverable, and quick to install.

Material: Pillow packers have a double layer rubber sleeve; and, a flow through option is available for added flexibility in the application of this packer to repair. All metal parts of the packer are made of corrosion-resistant materials.

\*Custom production is available



Model#	Nominal Size	Usage Size Range		Overall Length
		Min. dia.	Max. dia.	
FP-P300600	300mm-600mm 12"-24"	300mm 12"	600mm 24"	3000mm 120"
FP-P6001000	600mm-1000mm 24"-40"	600mm 24"	1000mm 40"	3000mm 120"
FP-P10001400	1000mm-1400mm 40"-56"	1000mm 40"	1400mm 56"	3000mm 120"
FP-P12001800	1200mm-1800mm 48"-72"	1200mm 48"	1800mm 72"	3000mm 120"



Air Control Device with Pressure Relief Valve  
ACD-PRV



Air Control Device with Pressure Regulator  
ACD-Preg



Air Control Device  
ACD



Air Filling Hose with Pressure Gauge  
AHPG



Air Filling Hose  
AH



Water Filling Hose  
WH



Air Test Adaptor  
ATA



Air Discharge Adaptor  
ADA



Multi Size Pipe Plug Centralizer  
MPC



Storz Coupling Spanner  
SCS3



Hand Pump Connection Hose  
HPCH



Control Device For Joint Tester  
CD JT



Hand Pump Adaptor  
HPA



Hand Pump  
HP



Pressure Monitoring and Alarm System



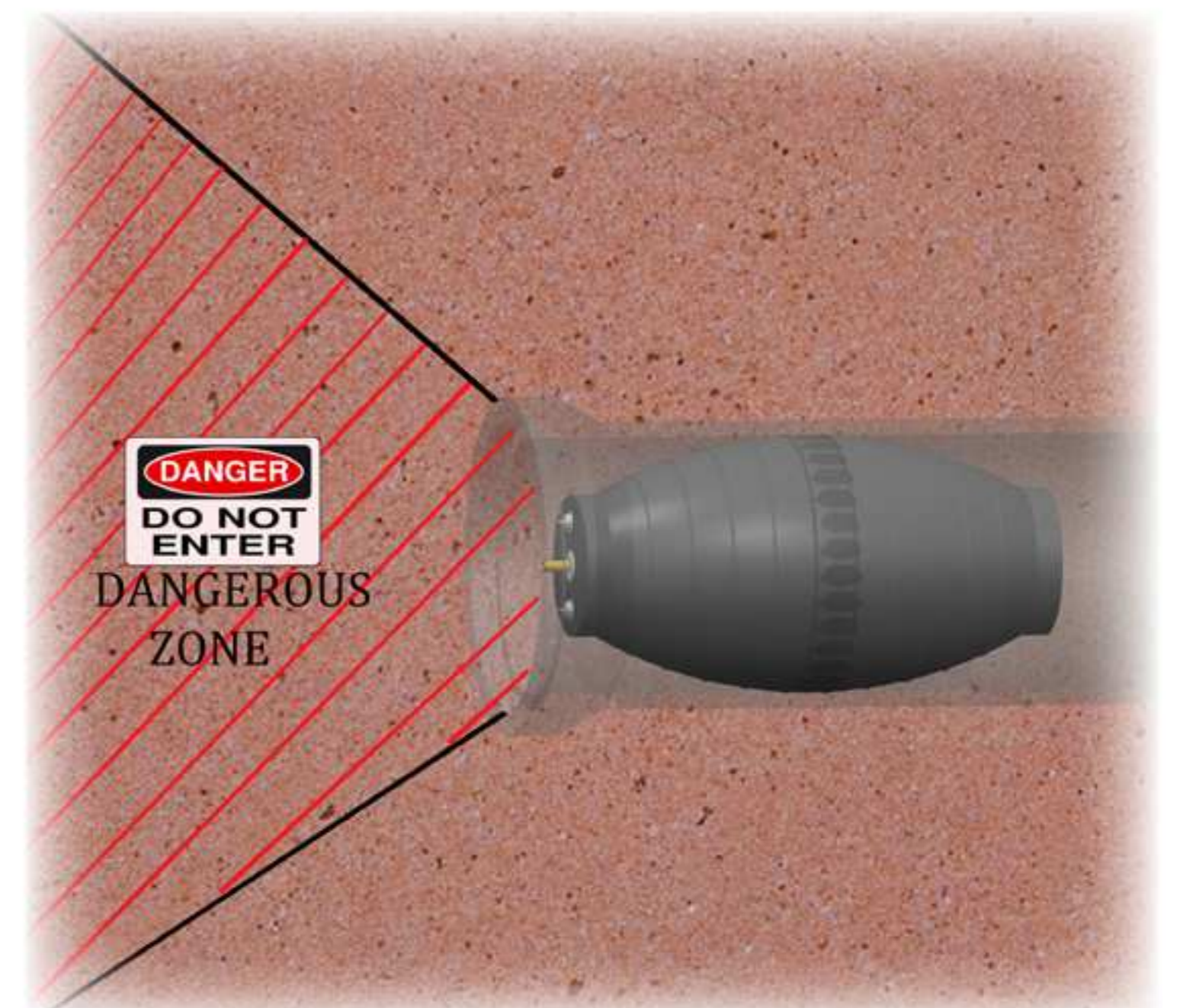
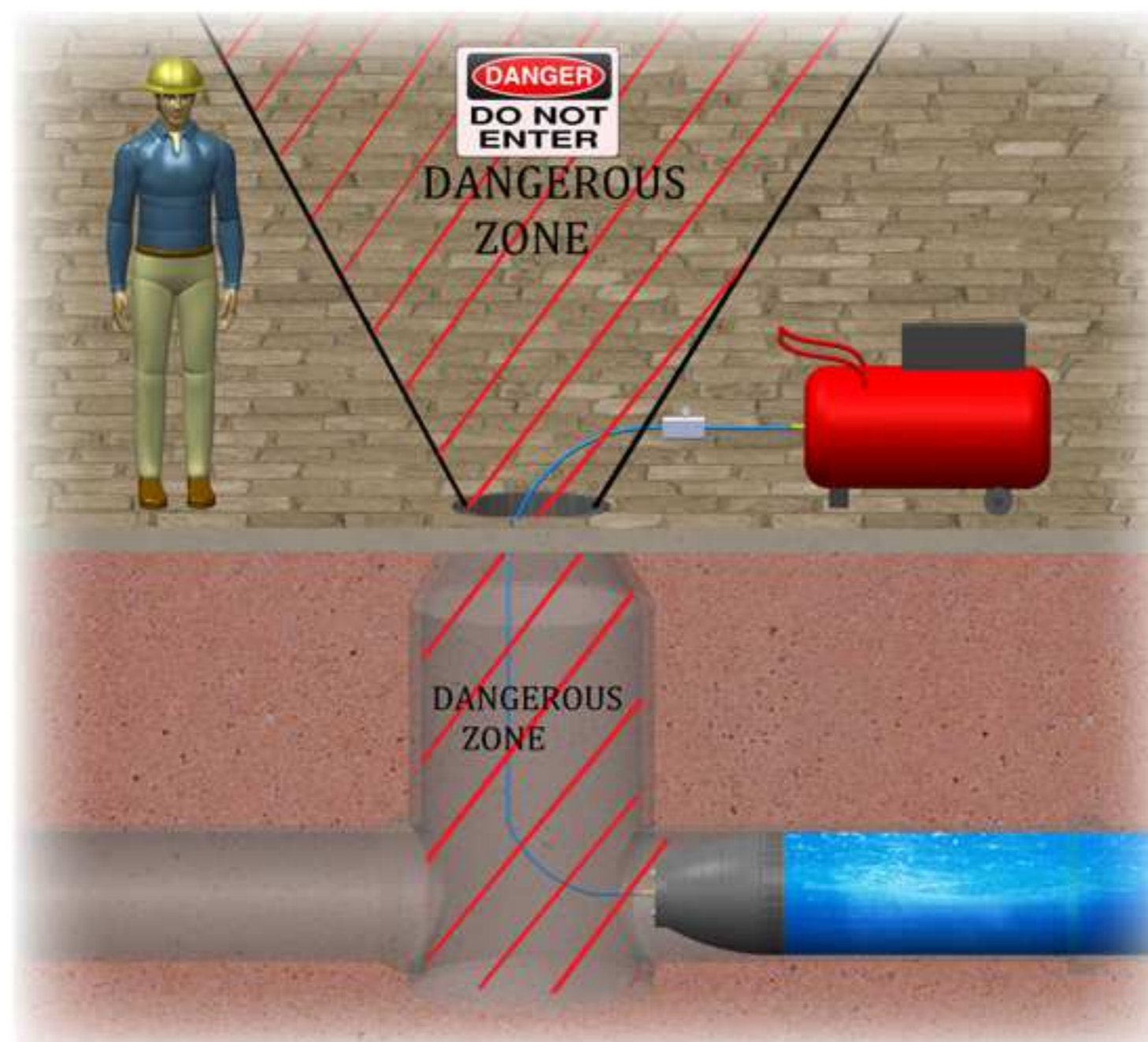
Compressor

# USER MANUAL OF PIPE PLUG

Please **Read** and **Understand** This Manual Before Using **PlugCo** Pipe Plug!



**WARNING!** Pipe plug failure for any reason may result in death, serious bodily injury and/or property damage!  
***Do not enter the Danger Zone*** when the pipe plug is under pressure!



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# 1. General Information About Pipe Plugs

## 1.1 What is The Pipe Plug?

Pipe plugs are designed for temporary sealing of pipelines in sewerage, water line systems for maintenance or non-pressurized line testing as well as gas, oil and hydrocarbon pipelines.

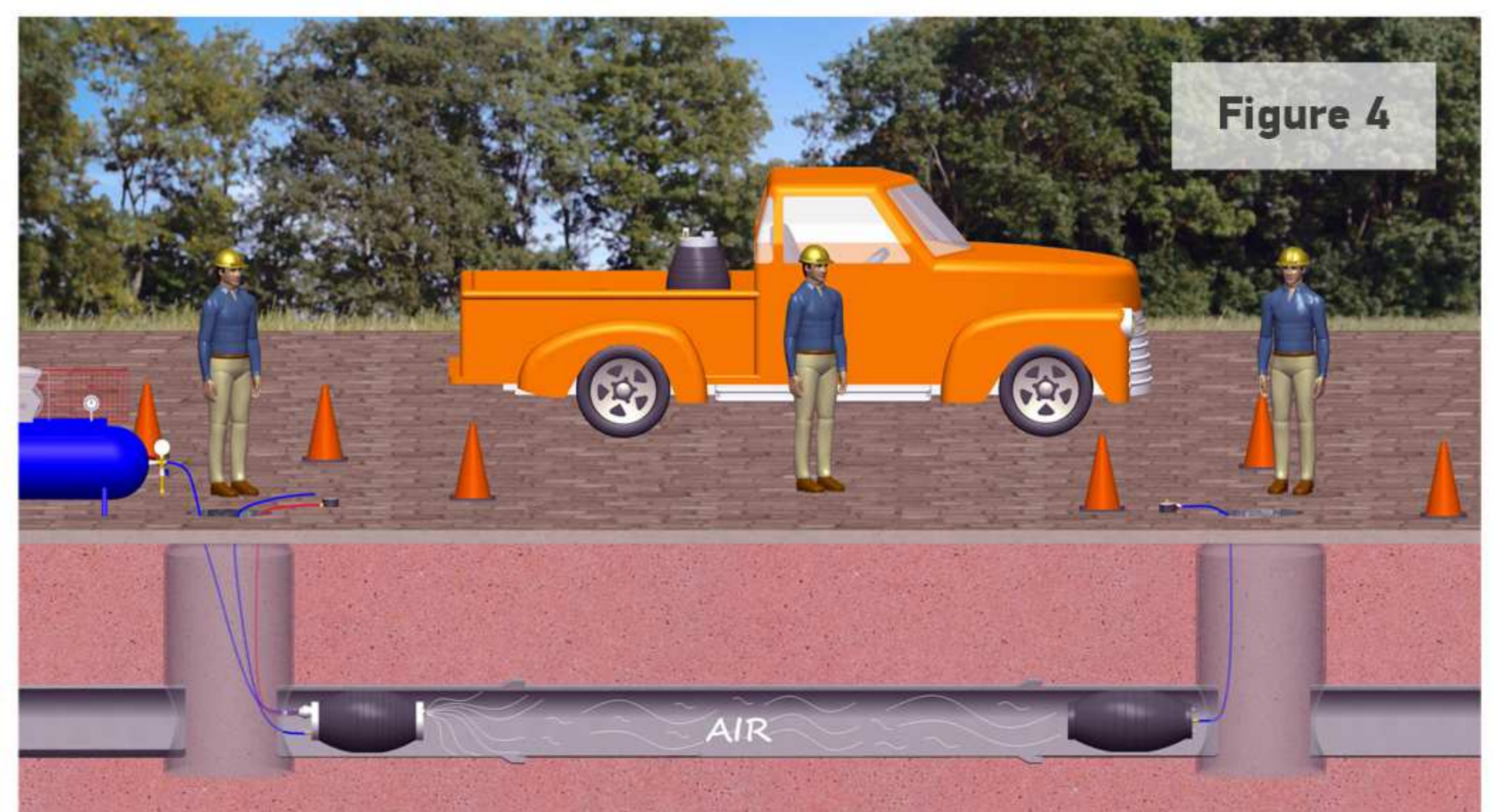
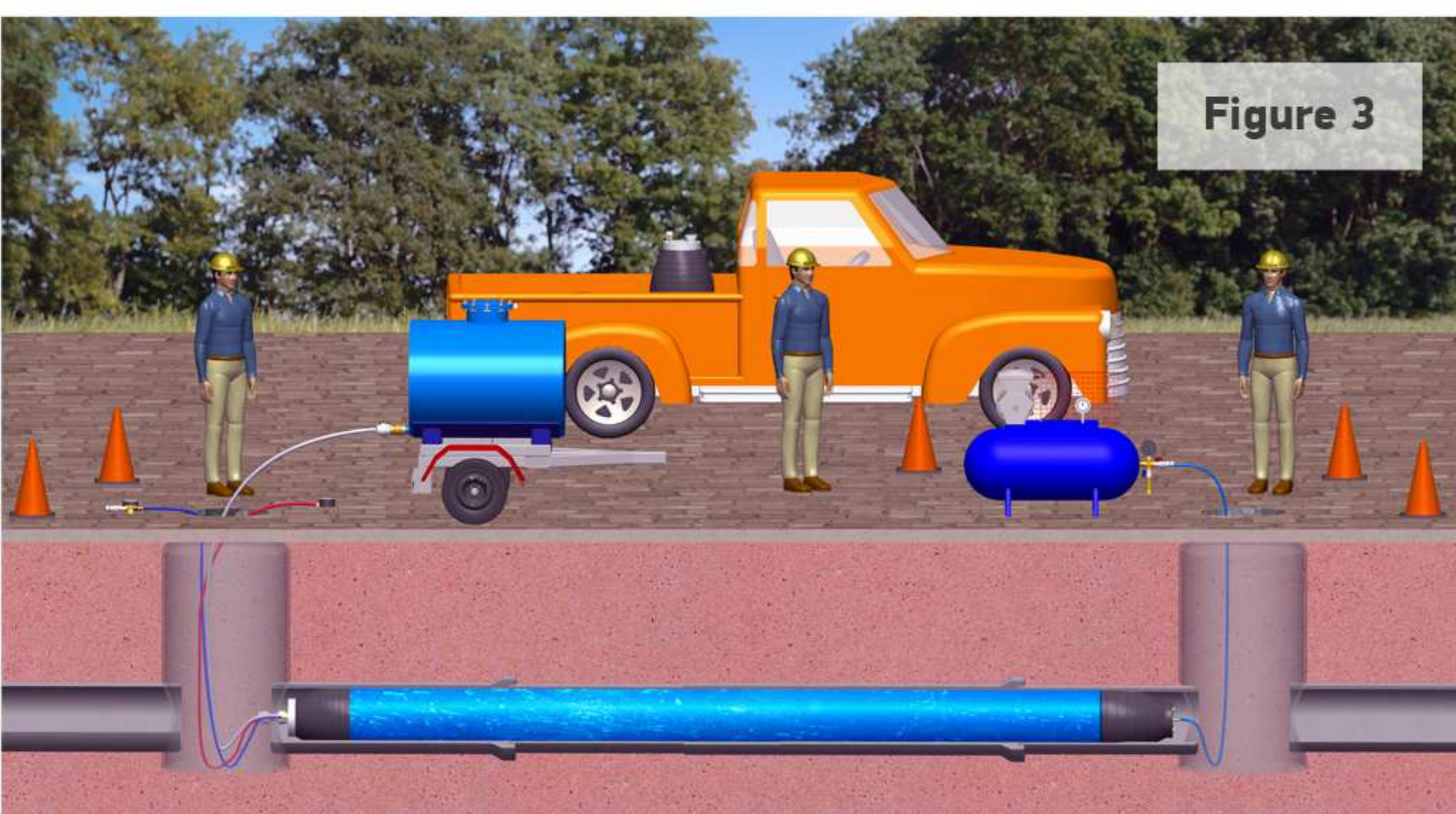
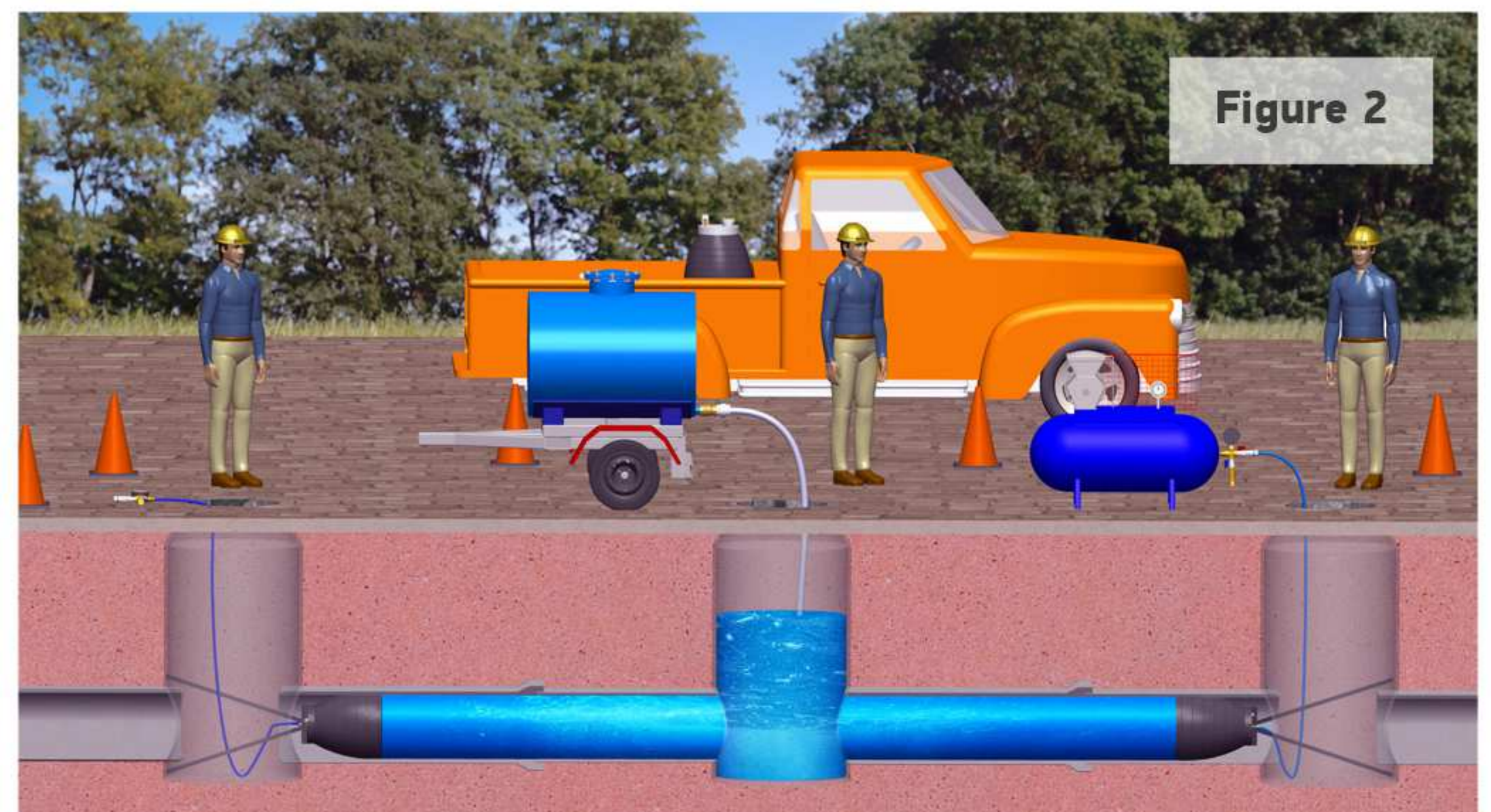
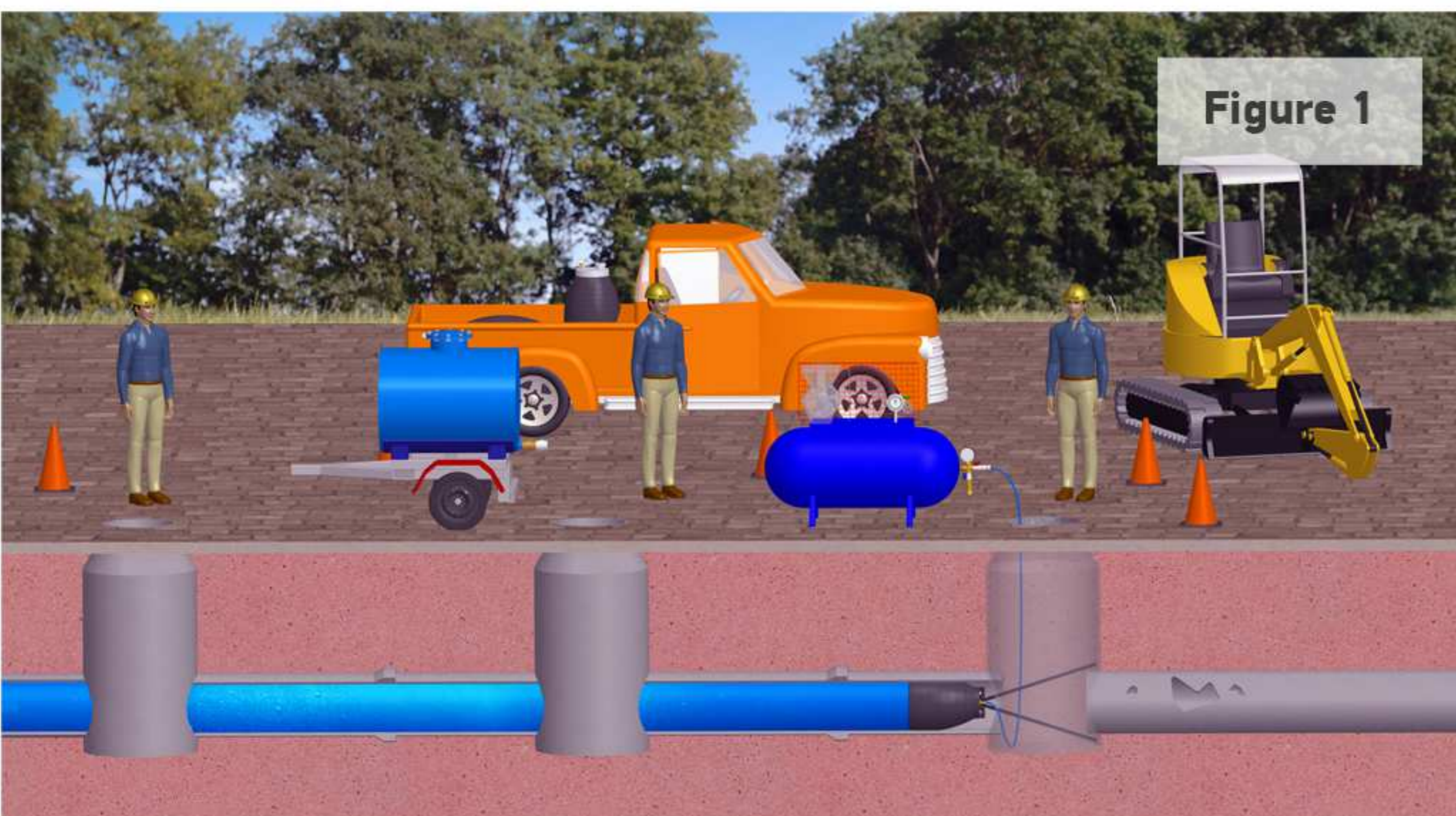
Pipe plugs consist of **two main products**;

- Inflatable Pipe Plugs
- Inflatable Pipe Plugs with Bypass ( Flow-through Pipe Plug)

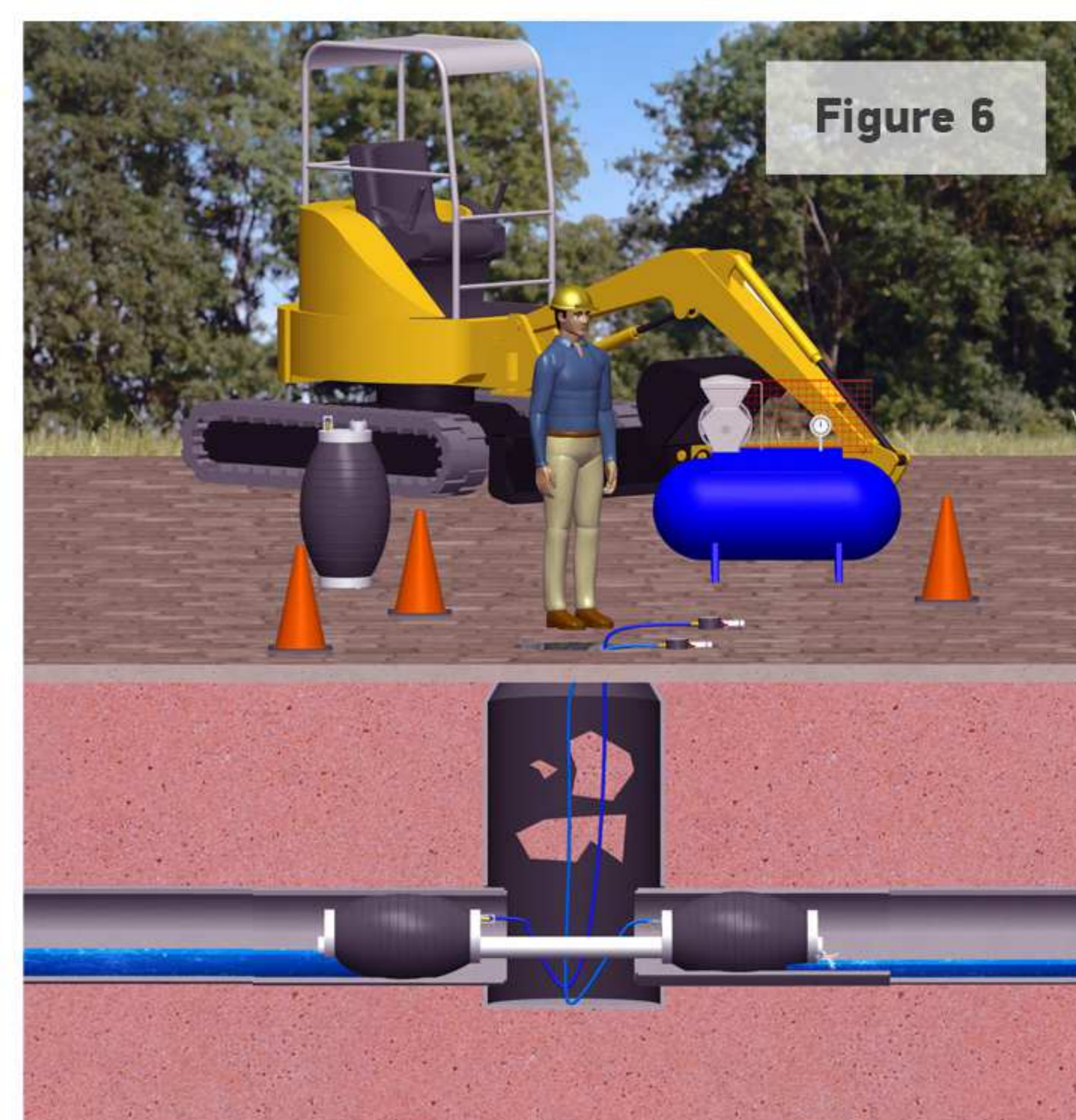
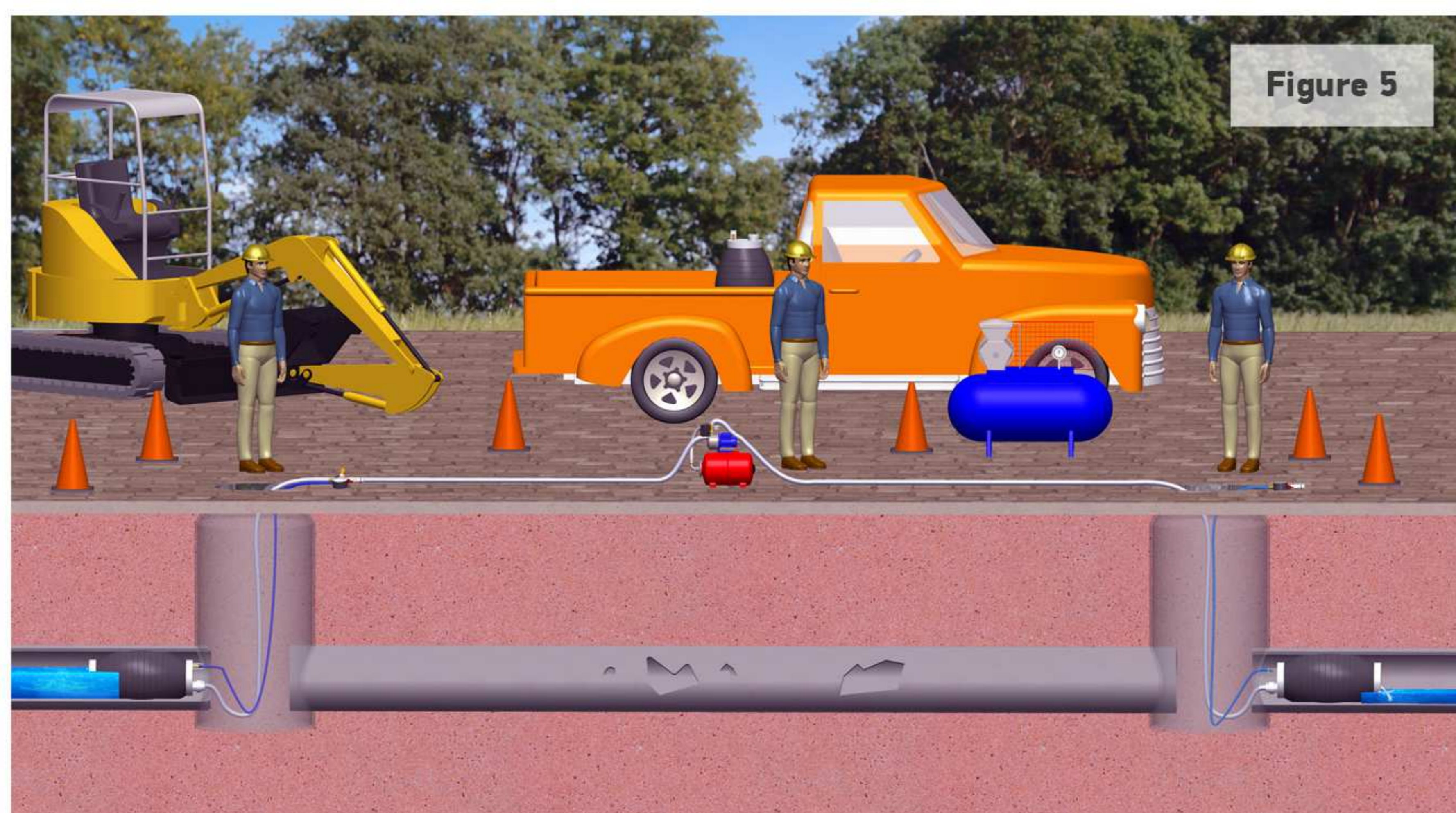
They can be used for *three* cases:

**I Temporary sealing or stopping the flow:** Pipe plugs can be used for temporary blocking the flow in a pipeline (Figure-1) or to prevent the entry of dirt and other contaminants during construction, maintenance or repair of the pipeline.

**II Testing:** Leak / tightness testing is performed by pipe plugs using water (Figure – 2 & 3) or air (Figure – 4).



III **Bypassing the Flow:** The Pipe Test Plugs can be used for dewatering application (Figure – 5) as well as for the flow deviation in a pipeline (Figure – 6).



#### INFLATABLE PIPE PLUG – Model PP

The main purpose of the pipe plug is **blocking** the pipelines or channels to **stop flow temporarily**. They can be also used for **leak testing** and **repairing** or **maintenance** of water, oil pipelines with different materials such as steel, plastic, HDPE etc. (Figure 7)

Pipe plug includes an inflation port for inflating the pipe plug and holding hooks for carrying. PlugCo can design the pipe plug with holding hooks on both sides as per the client's requirement.

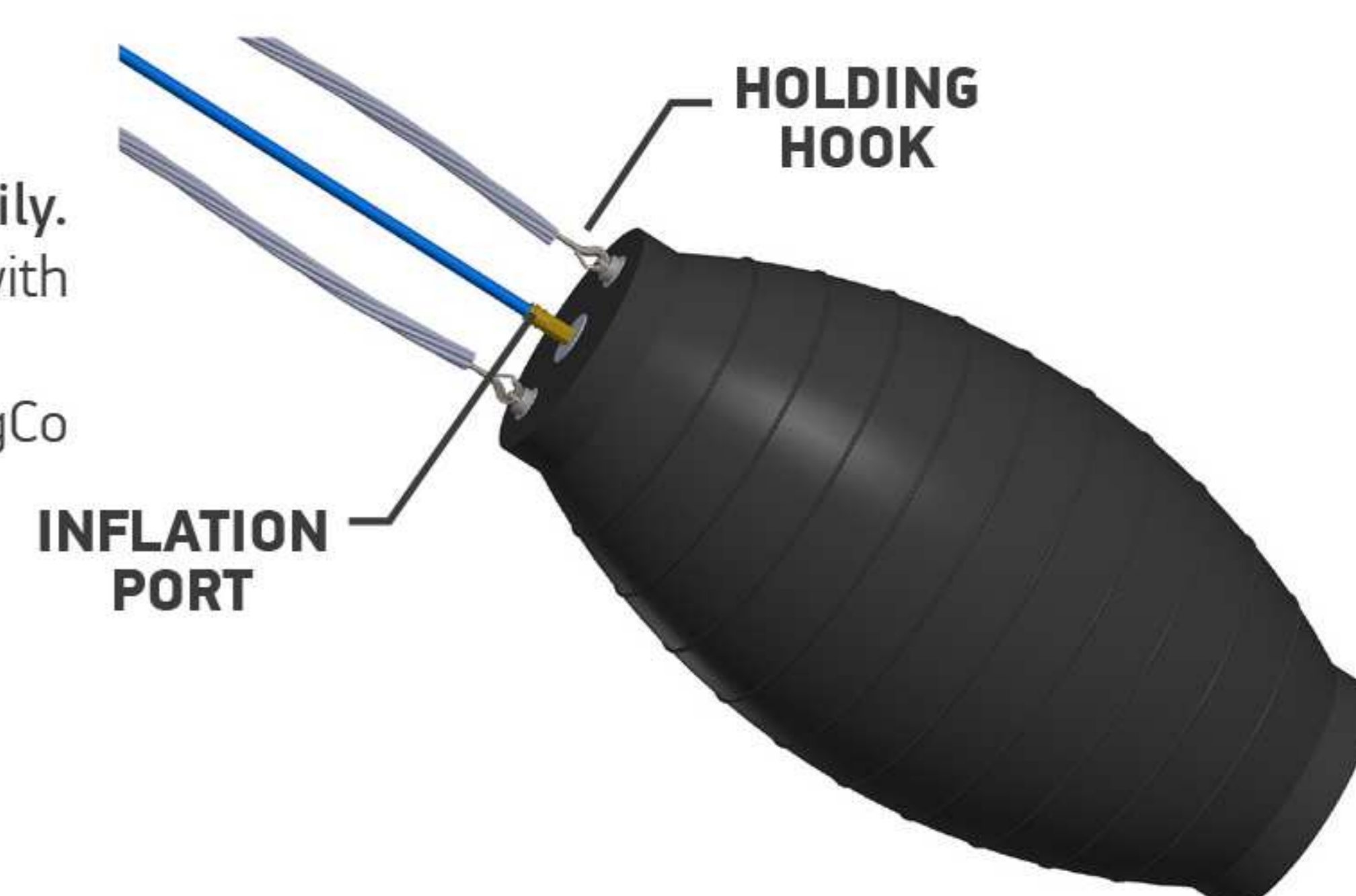


Figure 7

#### FLOW-THROUGH PIPE PLUG

The Flow-through plug model is the same as the pipe plug model with the exception that it includes a **bypass** connection. The bypass connection allows water to fill inside the pipeline. It can also be used for bypassing the water flow and discharging it to another line and **leak testing** as well as de-watering or deviating the flow. (Figure 8)

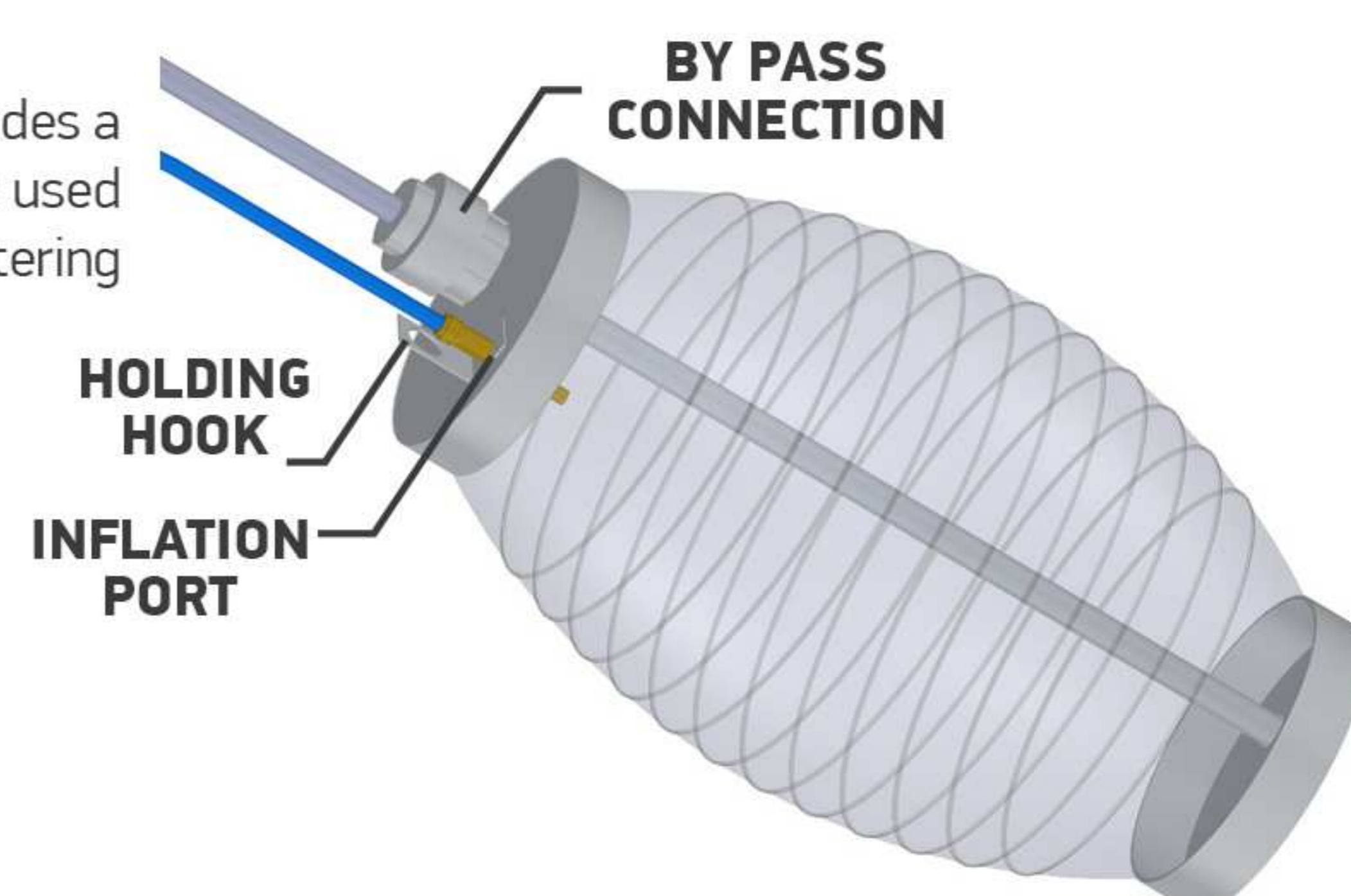


Figure 8



## 1.2 Safety Precautions Before Use

Before operation of pipe plug, the PlugCo Safety and User Manual must be carefully read and understood. Important safety rules and guidelines are outlined in **this handbook**.

Operators of pipe plug should be **trained and authorized persons!**

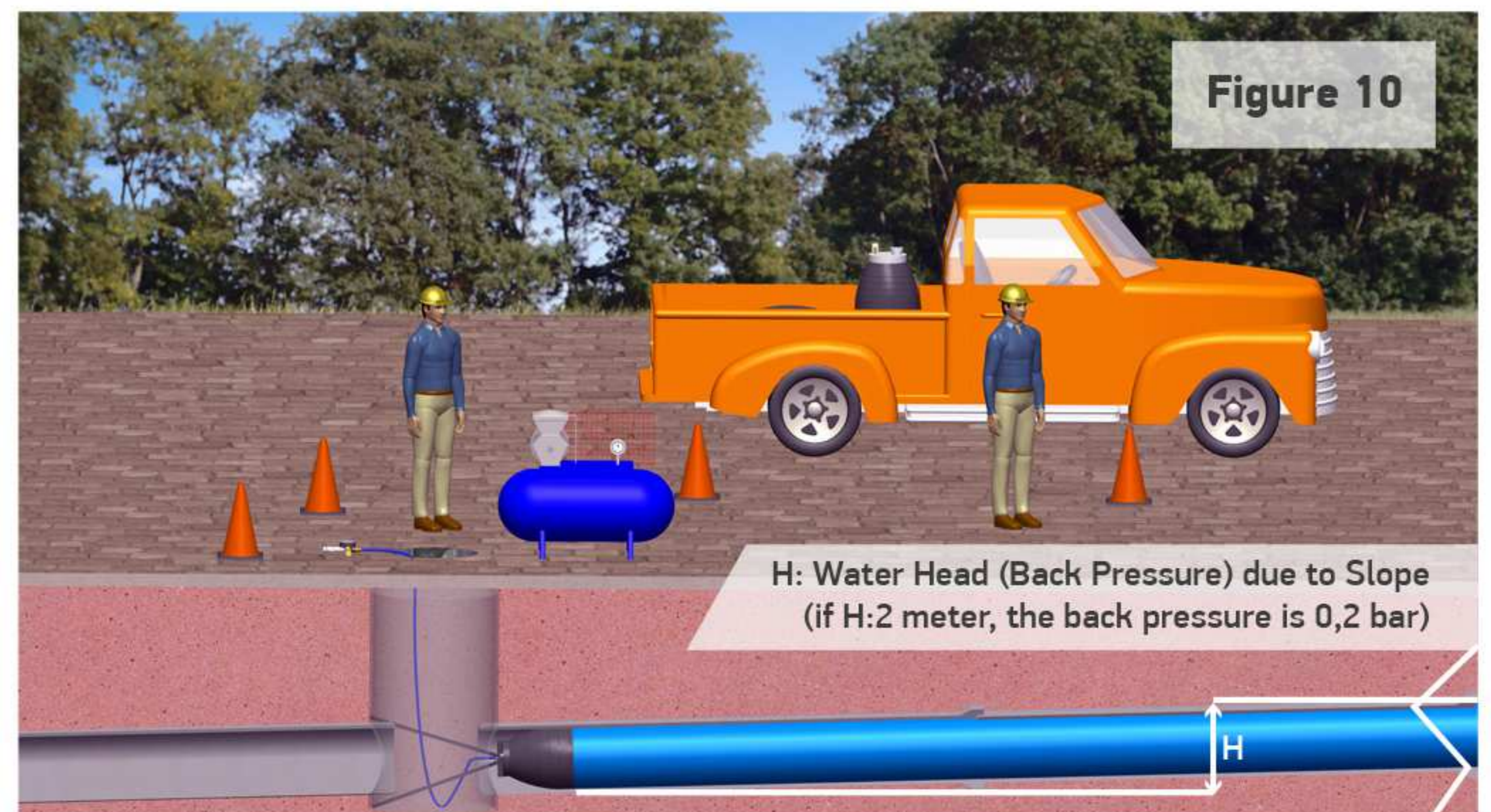
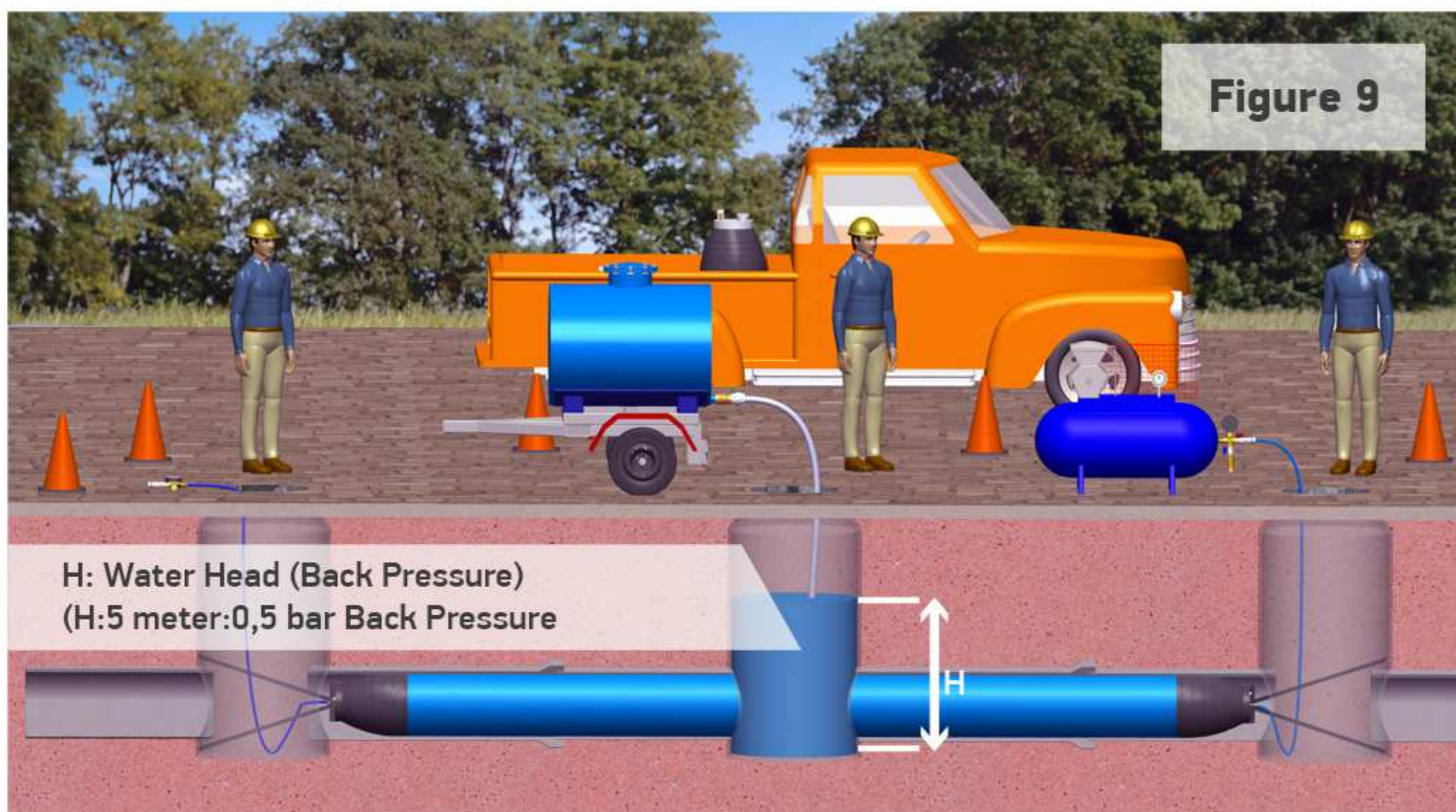
# 2. Selecting The Suitable PlugCo Pipe Plug

## 2.1 Back Pressure - Back Pressure Chart

Calculate the Back Pressure that the pipe plug must withstand before choosing the plug.

**Back Pressure:** The pressure of the fluid in a pipeline acting on the pneumatic plug sealing in the pipe. If there is only static pressure, it can be the elevation difference between the upstream and downstream ends of the pipe line. In other terms, the height of the water column behind the pipe plug (Figure – 9 & 10). For example, ten (10) meters water column behind the plug means 1 Bar Back Pressure. The surface area and shape of the water column are not important. Only the height of water column needs to be considered.

The specified back pressure on the technical data sheet is only valid for dry concrete pipe applications. Thus, we can recommend the **Smart Plug**, a product in our range, for any application where back pressure needs to be calculated regardless of the material or condition of the pipeline.



How to calculate the back-pressure force on the pipe plug:

- Measure the inner diameter (D) of the pipeline to be sealed by the pipe plug
- Calculate the surface area of the pipeline cross section (A)
- Calculate the total force that pipe plug must withstand from following equation (F)

$$F = P \cdot A \cdot 10 \text{ (N)} \quad A = \pi \cdot D^2 / 4 \quad F = P \cdot \pi \cdot D^2 / 4 \cdot 10 \text{ (N)}$$

A - Surface Area (cm<sup>2</sup>)

P - Back Pressure (bar)

D - Inner diameter of pipeline (cm)

F - Total Force (N)

**Example:** The inner diameter of pipe= 500 mm. Water behind the pipe plug: 5-meter

$$F = P \cdot A \cdot 10 \text{ (N)} \quad A = \pi \cdot D^2 / 4$$

$$A = 3,14 \cdot 25^2 / 4 = 490 \text{ cm}^2 \quad F = 0,5 \cdot 490 = 245 \text{ kg} = 245 \cdot 10 = 2450 \text{ N}$$



# BACK PRESSURE CHART

## PIPE DIAMETER mm / (inch)

Pipe Plug Code	50/(2")	70/(2.75")	100/(4")	150/(6")	200/(8")	250/(10")	300/(12")	350/(14")	400/(16")	500/(20")	600/(24")	800/(32")	900/(36")	1000/(40")	1200/(48")	1400/(58")	1600/(64")	1800/(72")	2000/(80")	2200/(88")	
PP3570(1.5 bar -22 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)																			
PP50100(1.5 bar -22 psi)	1/(14.5 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)																		
PP50100(2.5 bar -37 psi)	1.5/(22 psi)	1.2/(17.5 psi)	1/(14.5 psi)																		
PP70150(1.5 bar -22 psi)		1/(14.5 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)																	
PP70150(2.5 bar -37 psi)		1.7/(25 psi)	1.4/(20.5 psi)	1/(14.5 psi)																	
PP100200(1.5 bar -22 psi)			1/(14.5 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)																
PP100200(2.5 bar -37 psi)			1.7/(25 psi)	1.4/(20.5 psi)	1/(14.5 psi)																
PP150300(1.5 bar -22 psi)				1/(14.5 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.5/(7.3 psi)														
PP150300(2.5 bar -37 psi)				1.7/(25 psi)	1.3/(19 psi)	1/(14.5 psi)	0.8/(11.5 psi)														
PP200400(1.5 bar -22 psi)					1/(14.5 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.5/(7.3 psi)													
PP200400(2.5 bar -37 psi)					1.7/(25 psi)	1.5/(22 psi)	1.3/(19 psi)	1.2/(17.5 psi)	1/(14.5 psi)												
PP200500(1.5 bar -22 psi)					1/(14.5 psi)	0.9/(13 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.6/(8.5 psi)	0.5/(7.3 psi)											
PP200500(2.5 bar -37 psi)					1.9/(27.5 psi)	1.7/(25 psi)	1.5/(22 psi)	1.4/(20.5 psi)	1.2/(17.5 psi)	1/(14.5 psi)											
PP300600(1.5 bar -22 psi)							1/(14.5 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.6/(8.5 psi)	0.5/(7.3 psi)										
PP300600(2.5 bar -37 psi)							1.5/(22 psi)	1.4/(20.5 psi)	1.3/(19 psi)	1.2/(17.5 psi)	1/(14.5 psi)										
PP375800(1.5 bar -22 psi)								1/(14.5 psi)	0.9/(13 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.5/(7.3 psi)									
PP375800(2.5 bar -37 psi)								1.9/(27.5 psi)	1.7/(25 psi)	1.5/(22 psi)	1.4/(20.5 psi)	1.2/(17.5 psi)	1/(14.5 psi)								
PP5001000(1.5 bar -22 psi)										1/(14.5 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.6/(8.5 psi)	0.5/(7.3 psi)							
PP5001000(2.5 bar -37 psi)										1.5/(22 psi)	1.4/(20.5 psi)	1.3/(19 psi)	1.2/(17.5 psi)	1/(14.5 psi)							
PP6001200(1.5 bar -22 psi)											1/(14.5 psi)	0.8/(11.5 psi)	0.7/(10 psi)	0.6/(8.5 psi)	0.5/(7.3 psi)						
PP6001200(2.5 bar -37 psi)											2/(29 psi)	1.6/(23 psi)	1.3/(19 psi)	1/(14.5 psi)	0.8/(11.5 psi)						
PP6001600(1.0 bar -14.5 psi)											1.7/(25 psi)	1.5/(22 psi)	1.2/(17.5 psi)	1/(14.5 psi)	0.8/(11.5 psi)						
PP6001600(1.5 bar -22 psi)											2.3/(33 psi)	1.8/(26 psi)	1.4/(20 psi)	1.2/(17.5 psi)	1/(14.5 psi)	0.7/(10 psi)	0.4/(6 psi)				
PP8001800(1.0 bar -14.5 psi)												2/(29 psi)	1.7/(25 psi)	1.4/(20 psi)	1.2/(17.5 psi)	1/(14.5 psi)	0.7/(10 psi)	0.4/(6 psi)			
PP8001800(1.0 bar -14.5 psi)												2.3/(33 psi)	1.7/(25 psi)	1.4/(20 psi)	1.2/(17.5 psi)	1/(14.5 psi)	0.7/(10 psi)	0.4/(6 psi)			
PP8002000(1.0 bar -14.5 psi)												2.6/(37.5 psi)	2.3/(33 psi)	1.7/(25 psi)	1.4/(20 psi)	1.2/(17.5 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)	0.4/(6 psi)		
PP8002200(1.0 bar -14.5 psi)												2.9/(42 psi)	2.3/(33 psi)	2/(29 psi)	1.5/(22 psi)	1.2/(17.5 psi)	0.8/(11.5 psi)	0.5/(7.3 psi)	0.4/(6 psi)		

**THIS TABLE ONLY INCLUDES 1.0 1.5 BAR AND 2.5 BAR INFLATING (WORKING) PRESSURE. CONSULT PLUGCO FOR OTHER WORKING PRESSURES. THIS IS ONLY APPLICABLE FOR DRY CONCRETE PIPES.**

## 2.2 Temperature Effect

Determine the temperature that the plug will be exposed to.

The environmental temperature should not exceed 70 degree Celsius for SBR + NR mixed rubber and 60 degree Celsius for CR (Neoprene) Rubber. Heat can damage the pipe plug permanently.

The lowest temperature at which the pipe plugs maintain their sealing characteristic in the pipeline is -20 degree Celsius for both SBR + NR mixed and CR Rubber.

## 2.3 Diameter of Pipeline, Access Opening and Pipe Shape

Before operation, always measure the inner diameter of pipeline, in which the plug will be inserted, and make sure that pipe diameter is within the range specified on the plug (Figure – 11). The maximum and minimum allowable pipe diameter are marked on every inflatable pipe plug.

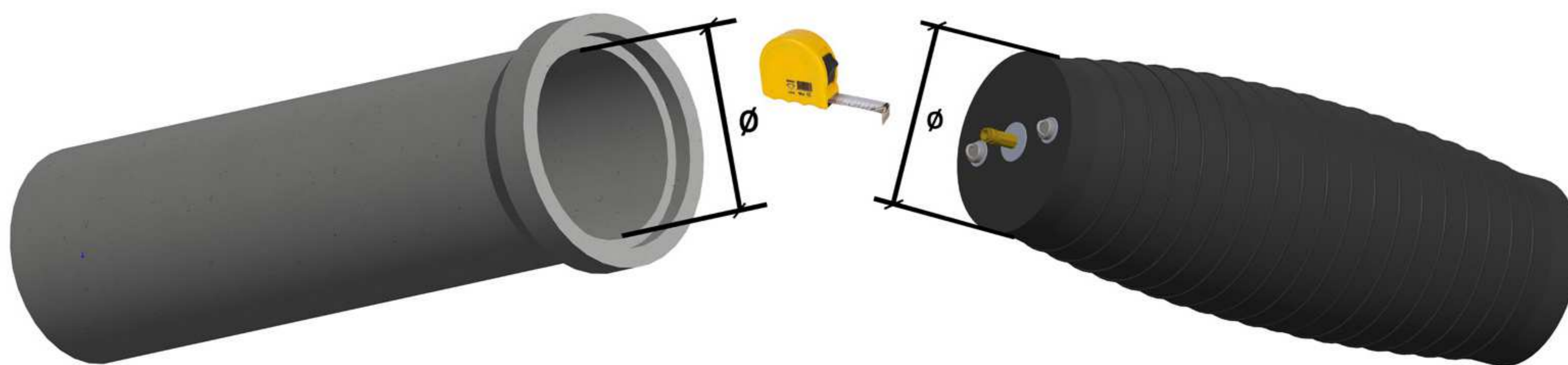
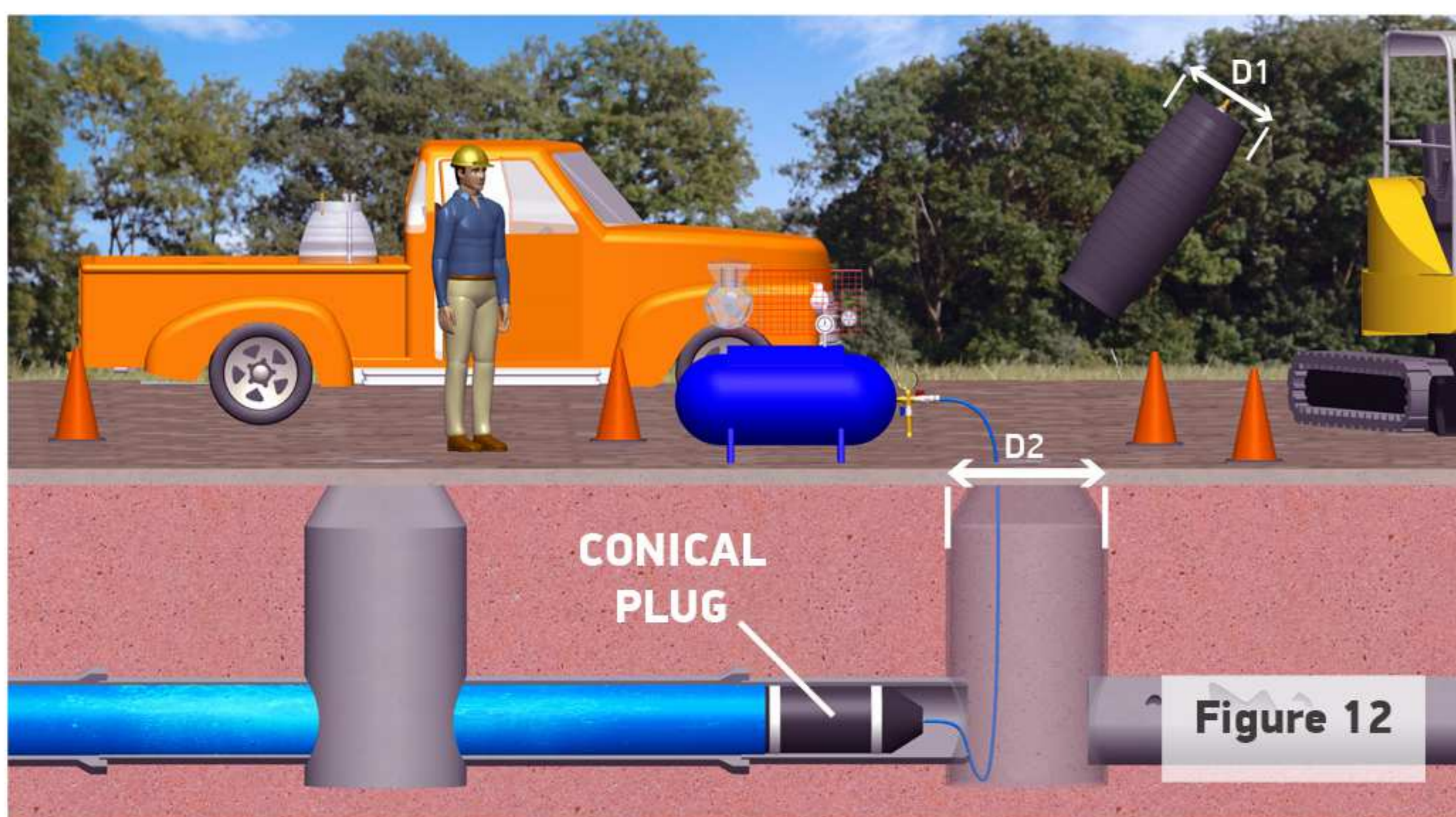


Figure 11

There are two situations that annoy the choice of plug.

**1. Access opening:** Underground and industrial piping does not always having equal-sized access point which is limiting the choice of the suitable pipe plug. (Figure-12) So be sure that the diameter of the access opening where the plug will be inserted .



D1: Deflated Diameter of Pipe Plug  
D2: Diameter of Manhole  
D1>D2

Figure 12

**2. Pipe Shape:** The pipe plugs can only be used for cylindrical pipes. Define the shape of the pipe where the plug will be used.

If case the access opening is limited and/or the shape is not cylindrical (Egg, square ...etc), PlugCo advices to use the **Conical Plug** which is suitable for this kind of applications

## 2.4 Chemical Resistance Table for Rubber Material

Check the chemical resistance table for rubber material and consider it while selecting the pipe plug or consult the manufacturer.

Rubber types of Plugco pneumatic plugs with regard to their **resistance to chemicals**

Media	Temperature (C)	SBR/NR	CR	NBR
Acetone	23	1	2	4
Acetylene	-	1	2	1
Ammonium hydroxide	23	1	1	1
Aniline	23	2	3	4
Aniline	100	4	4	4
Benzene	23	4	4	4
Boric acid	100	1	1	1
Brake fluid (vegetable)	50	1	1	4
Butanol	50	1	1	1
Butanol	100	4	3	1
Butyric acid		-	2	4
Calcium hydroxide	100	1	1	2
Calcium hypochlorite		4	2	3
Chloric acid	23	-	4	4
Ethanol	50	1	1	1
Ether	23	4	4	2
Formaldehyde	23	1	1	1
Glycerine	100	1	1	1
Hexanol	23	1	2	2
Hydrogen peroxide	23	1	1	1
Kerosene	70	4	3	1
Methanol	50	1	1	1
Methyl chloride	-	4	4	4
Milk	23	1	1	1
Oil 1 (ASTM No.1, ISO 1817)	100	4	1	1
Oil 2 (IRM 902, ISO 1817)	100	4	2	1
Oil 3 (IRM 903, ISO 1817)	100	4	4	1
Naphtha	23	4	4	1
Natural gas	-	3	1	1
Nitric acid (diluted)	50	2	3	2
Ozone (conc. 50 pphm)	40	4	2	4
Phenol	100	4	4	4
Phosphoric acid	50	2	2	3
Propanol	50	1	1	2
Sodium hydroxide-Concentration %10	100	1	1	1
Sodium hydroxide-Concentration %25	100	1	1	4
Sodium hypochlorite	50	2	3	3
Sulphur hexafluoride			1	1
Sulphuric acid (VI) - Concentration %10	100	1	1	3
Sulphuric acid (VI) - Concentration %20	23	1	1	3
Sulphuric acid (VI) - Concentration %25	100	1	1	4
Sulphuric acid (VI) - Concentration %50	100	1	1	4
Sulphuric acid (VI) - Concentration %60	100	3	4	4
Sulphuric acid (VI) - Concentration %75	100	4	4	4
Sulphuric acid (VI) - Concentration %96	23	4	4	4
Toluene	23	4	4	4

1- NEGLIGIBLE	2- LOW	3- MEDIUM	4- SIGNIFICANT
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If the media to be used is not in this table, please check the standard ISO/TR 7620, or consult the manufacturer about the usage of Plugco Inflatable pipe plug.

### 3. Reception of Pipe Plug (Removing Package- Inspection-Storage)

• **Removing the Package:** Do not use the sharp items such as knife, screwdrivers and similar, for removing the packing, since they can damage the pipe plug.

**Note:** Only exceptionally the pipe plug may be under the vacuum during the transportation. Once received, immediately release the vacuum. Insert the air into the plug until it reaches the original cylindrical form.

• **Inspection:** Inspect the plug and related equipment (control device, air hose....) for damage before and after each use. (Figure -13)



Figure 13

Inflate the pipe plug up to 0.1 bar and check the connection points on the plug by using the soapy water or immerse the pipe plug fully in water. The leaks, if any, will cause the soap bubbles. Look very carefully for evidence if any part of the pipe plug has been damaged, weakened or missing.

Visually inspect the accessories (control device, air hose ...). And also, they can be inspected in the same way as pipe plug by using the soapy water.



**WARNING!! Do not use the pipe plug if it has or shows any signs of wear or deterioration and contact PlugCo team.**

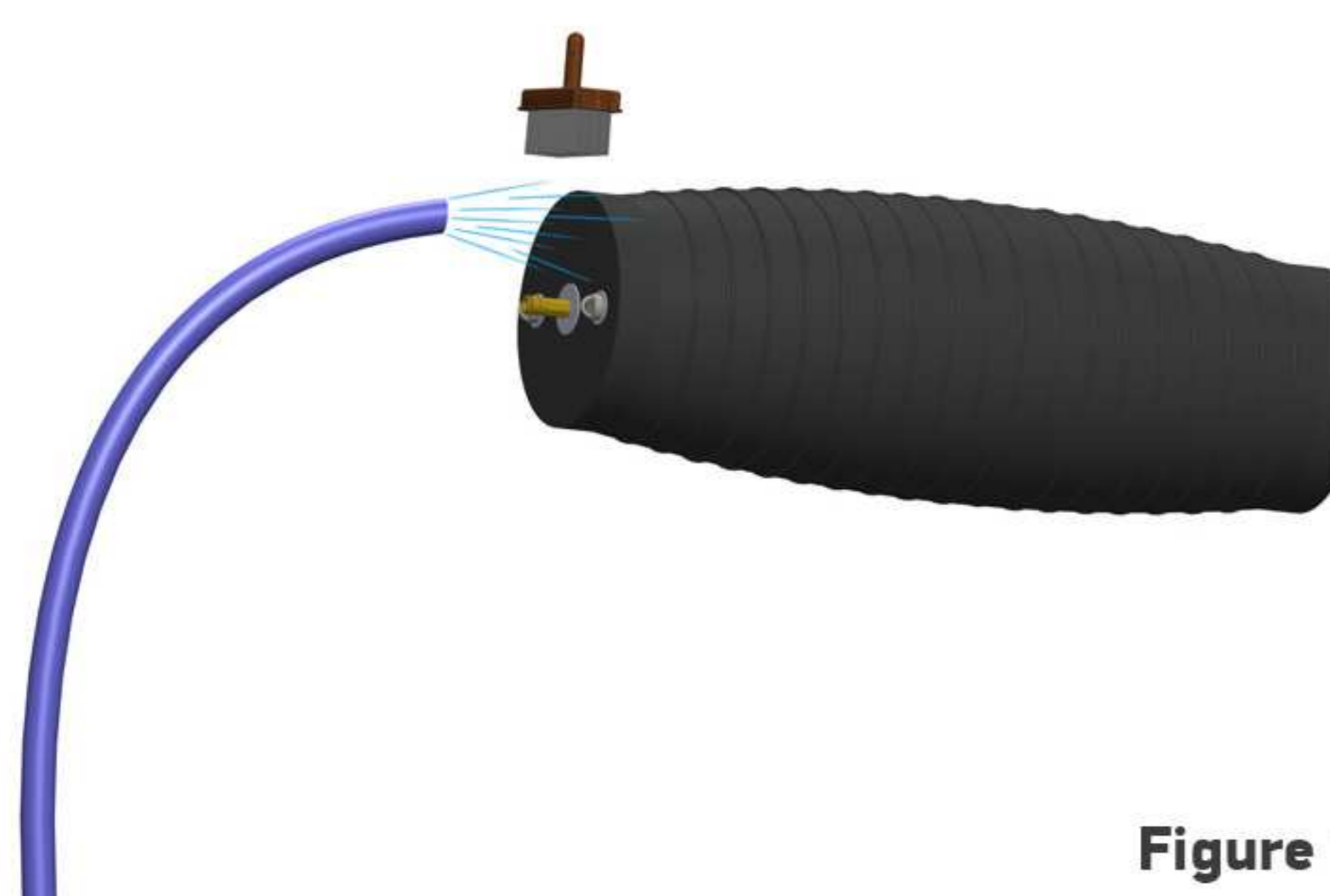


Figure 14

- At first reception and before/after each use, clean the pipe plug with a solution of water and detergent (Figure – 14). After cleaning, flush the pipe plug with clean water and allow it to dry thoroughly before using.

- **Storage:** Cleaned plug can be stored suspended vertically or placed horizontally and in dry and dark space at temperature between 15 & 25-degree Celcius. It should be free from sharp edges and should not touch steel or concrete floor directly. Wood palets is suitable for plugs stand on



**WARNING!! Do not clean the pipe plug with solvent or petroleum fluids which may damage the pipe plug!**  
**Never use solvent, hydrocarbon and other aggressive substances for cleaning the PlugCo pipe plug. The use of such substances can damage or even destroy the pipe plug.**

## 4. Application Procedure of Pipe Plug

### 4.1 Protective Equipment and Safety

- Use and wear related safety and protective equipment.
- Before entering the manhole or confined space, thoroughly check for hazardous gasses and proper oxygen levels. If necessary, ventilate the confined space. Strictly follow **the confined space safety procedures**.



### 4.2 Insertion of pipe plug in a pipe

- Before inserting the pipe plugs properly clean the interior of pipeline:

Clean the pipe from any debris or foreign substances (Figure – 15) which may reduce the back pressure holding capability before the pipe plug is installed. Foreign substances may include grass, oil, mold or any other material that can prevent solid contact between the pipe plug and pipe wall.

A clean contact surface of pipeline increases the pipe plug quality in sealing as well as in holding more back pressure.

**Warning!! Failure to clean the pipe properly may result in pipe plug dislodgement or pipe plug failure causing death, serious bodily injury or property damage!**

- The inflation hose must be of enough length to inflate or deflate the pipe plug from outside the Danger Zone.

- Insert the plug into the pipeline

Before inflating the pipe plug, position it correctly in the pipeline. The shortest allowable distance from the beginning of the pipeline to the pipe plug is equal to the pipeline diameter. (Figure 16)

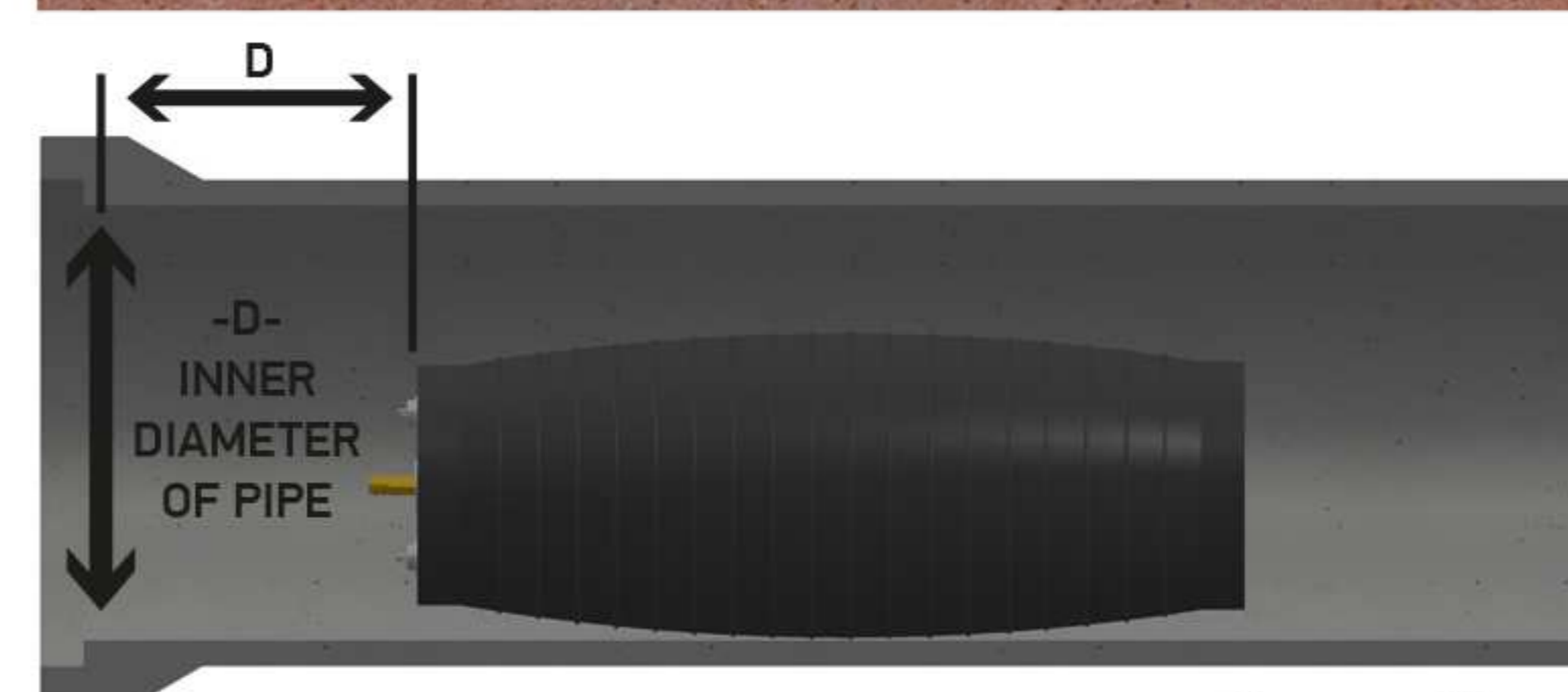
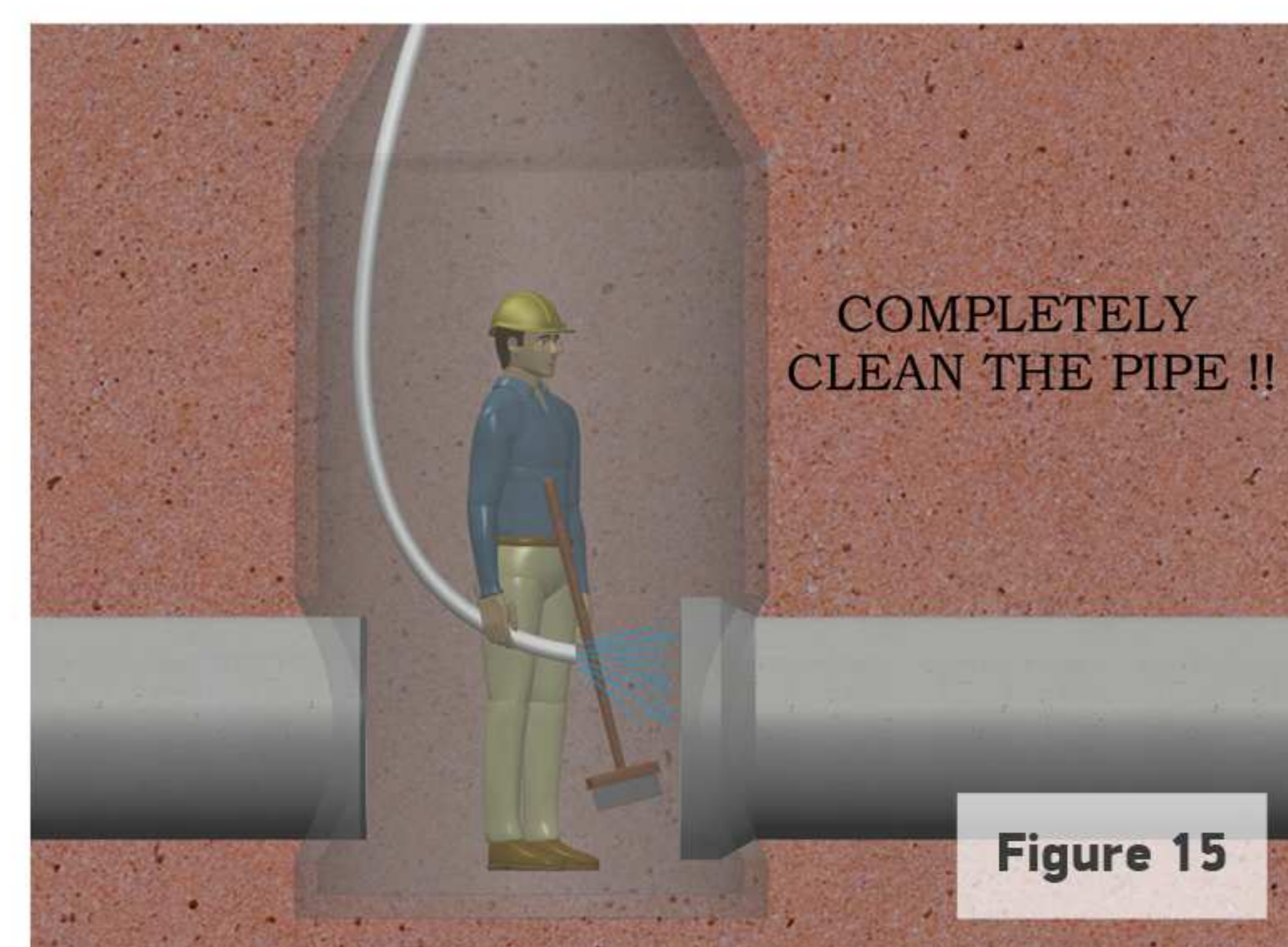


Figure 16



Figure 17



Figure 18



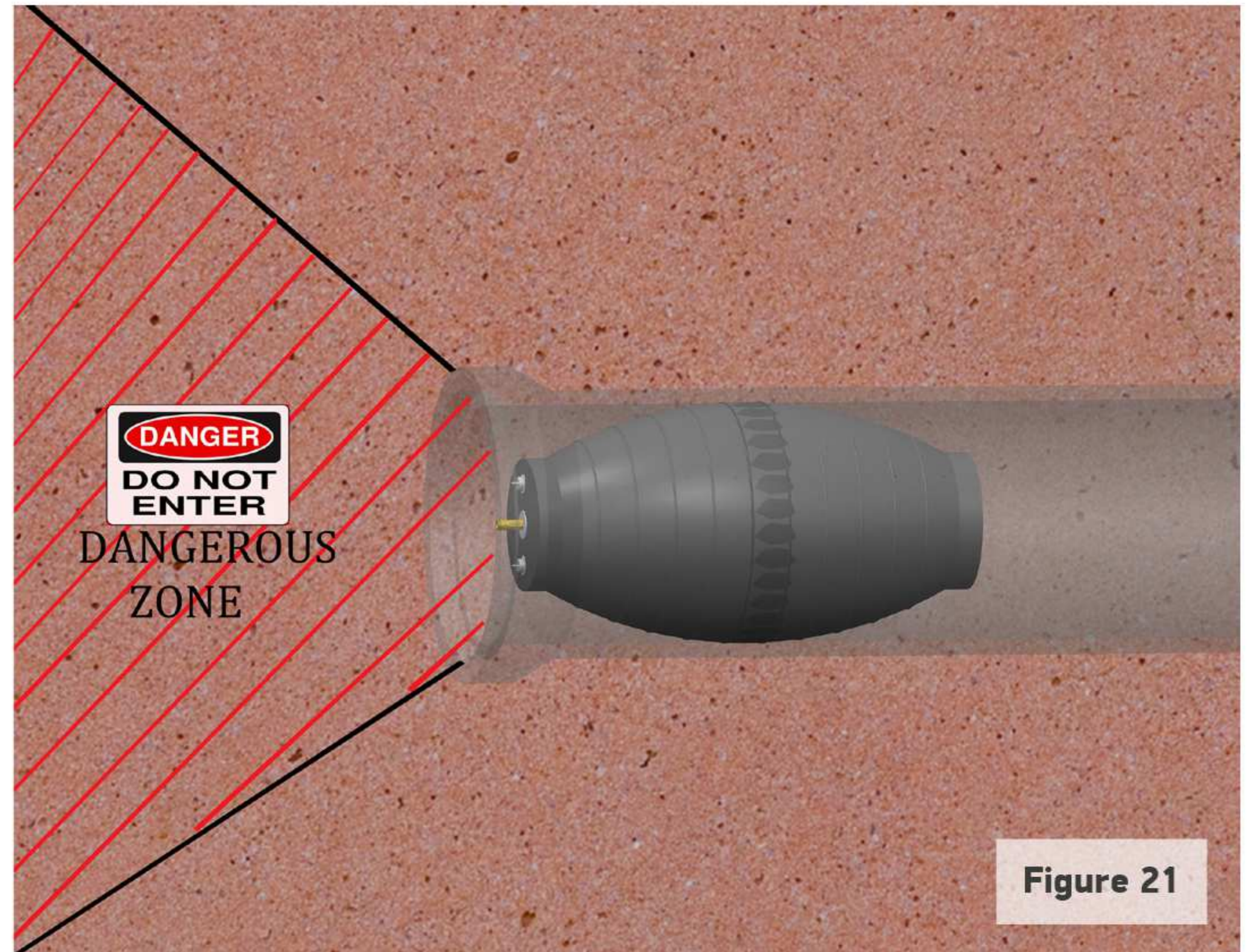
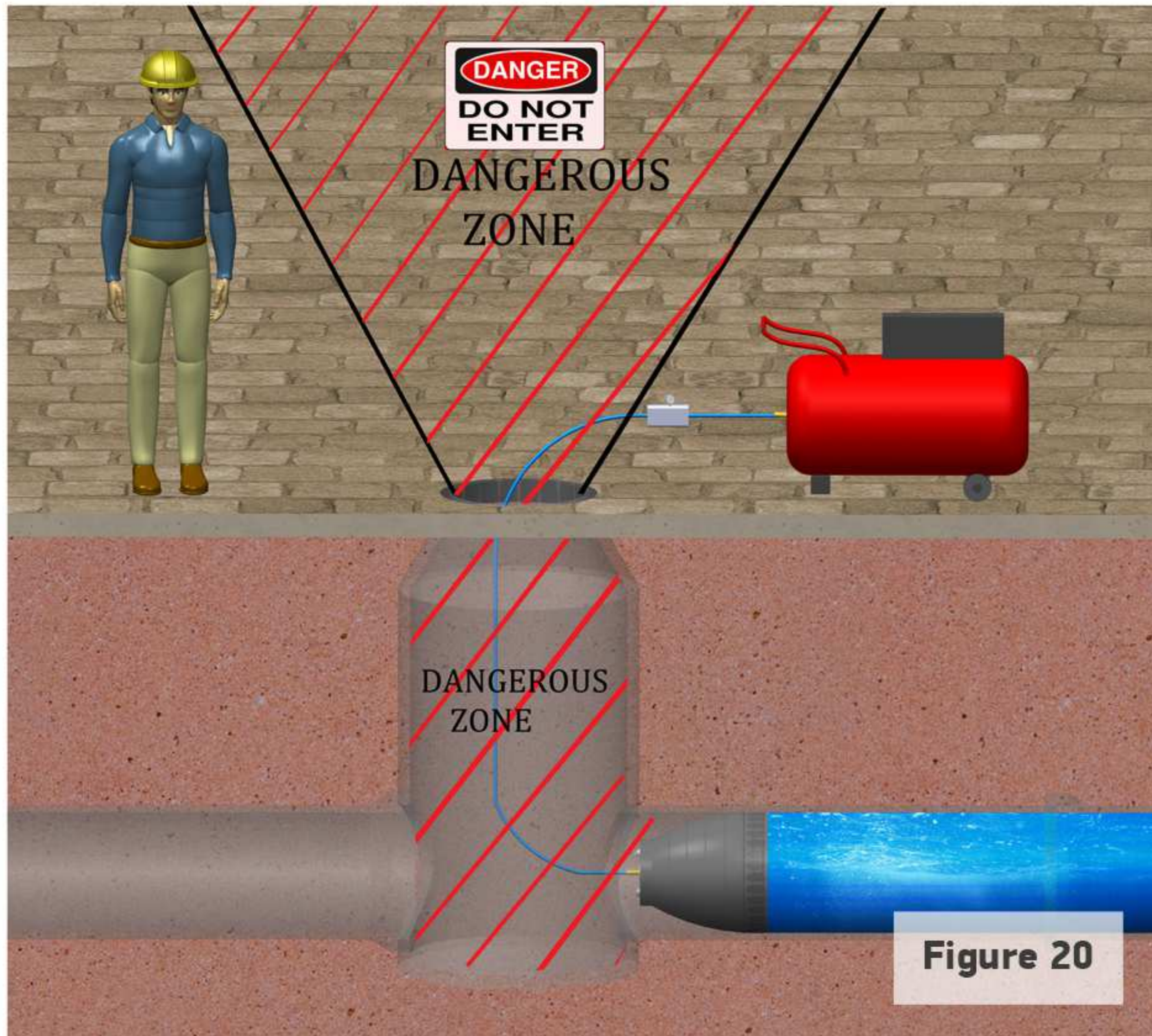
Figure 19

The pipe plug must be positioned horizontally and it must be centralized in the middle of pipe's cross-section (Figure –17/18)

If the pipe plug is inserted incorrectly, this could cause incorrect distribution of forces inside the plug and also not homogeneous sealing between pipe plug and pipe wall and consequently permanent damage of the pipe plug as well as lower back pressure held. Plugco recommend to use the **Plugco Centralizer** to a safe and easy centerizing of the plug (Figure –19).

## 4.3 Dangerous Zone

Never allow a person to enter the test area (DANGER ZONE) when pipe plug is inflated in the pipe (Figure – 20-21)



**WARNING!** All inflatable products have a risk of suddenly rupturing. Pipe plug failure for any reason may result in death, serious bodily injury and/or property damage! Do not enter the Danger Zone when the pipe plug is under pressure!

Dangerous Zone is the most critical subject for plug usage. Therefore, all workers should be informed about the Dangerous Zone in the application. Project safety person should take necessary action to avoid the workers enter the Dangerous Zone.

## 4.4 Connection of Accessories on the Plug

• Attach the air hose to inflation connection, the anchor hook(s) to eyebolt(s) and the water hose to its connection for filling the test area with water. All hoses have universal quick release connection.

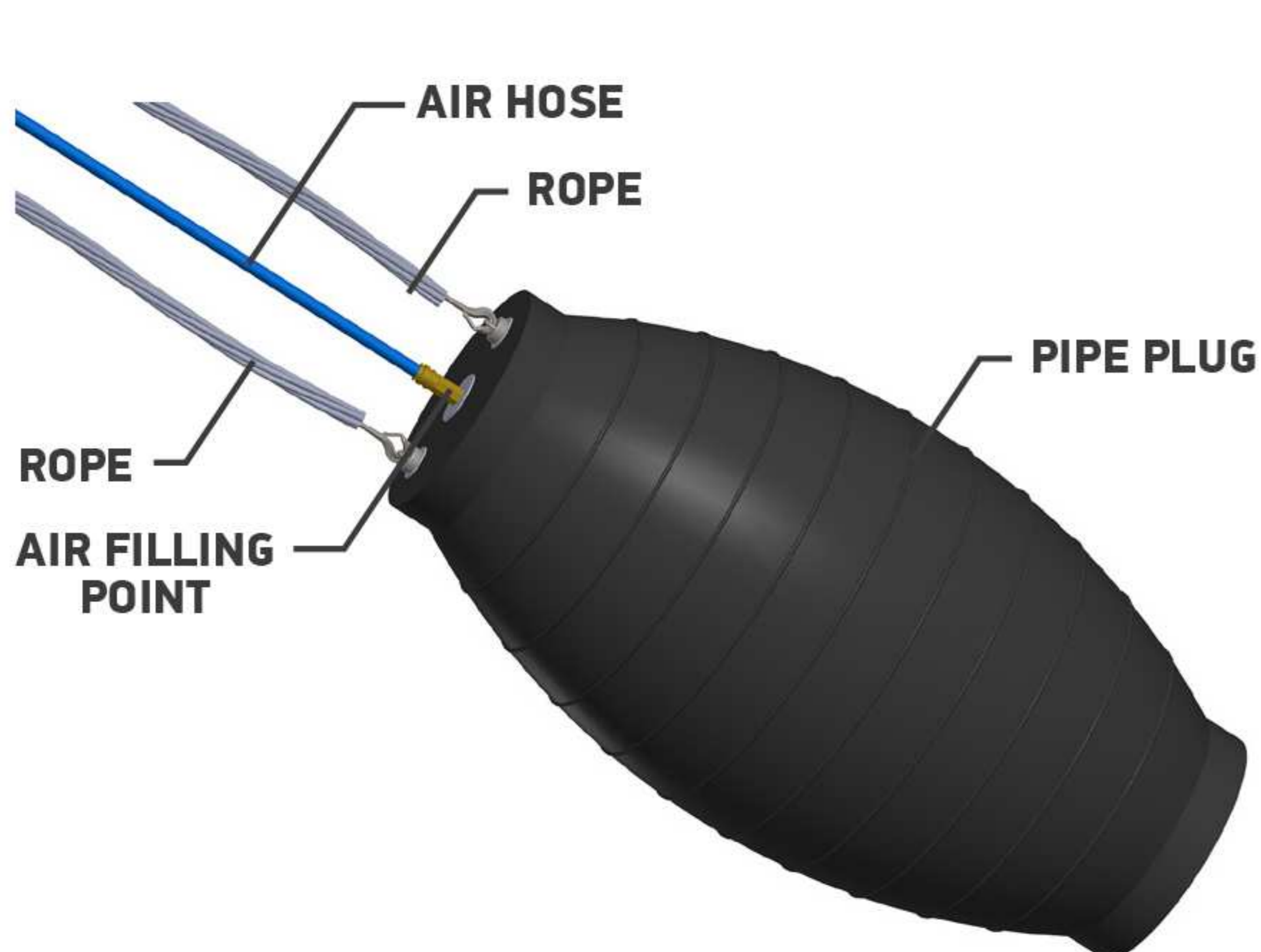


Figure 22

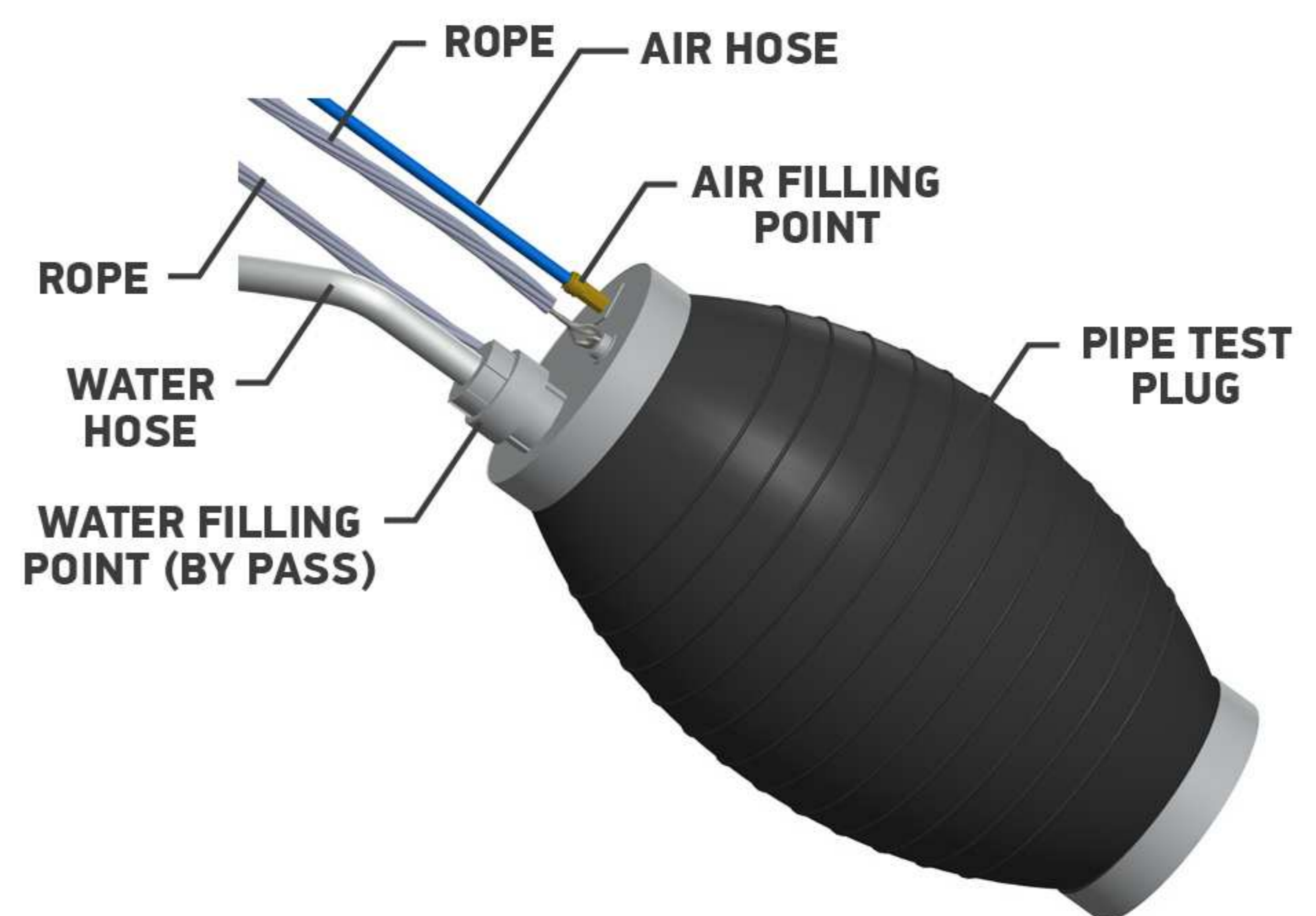


Figure 23

• Check the air hose, water hose, chain, rope and their connections to make sure that they are not damaged or leaking before the operation. (Figure – 22 & 23)

## 4.5 Supporting The Pipe Plug

- Proper support or bracing must be mounted to secure the pipe plug in place. Bracing support should contact the front face of the plug and the contact surface should be smooth to distribute forces equally on the pipe plug. (Figure – 24 & 25)
- The end user should calculate the back forces and design suitable supports to prevent sliding of the plug.

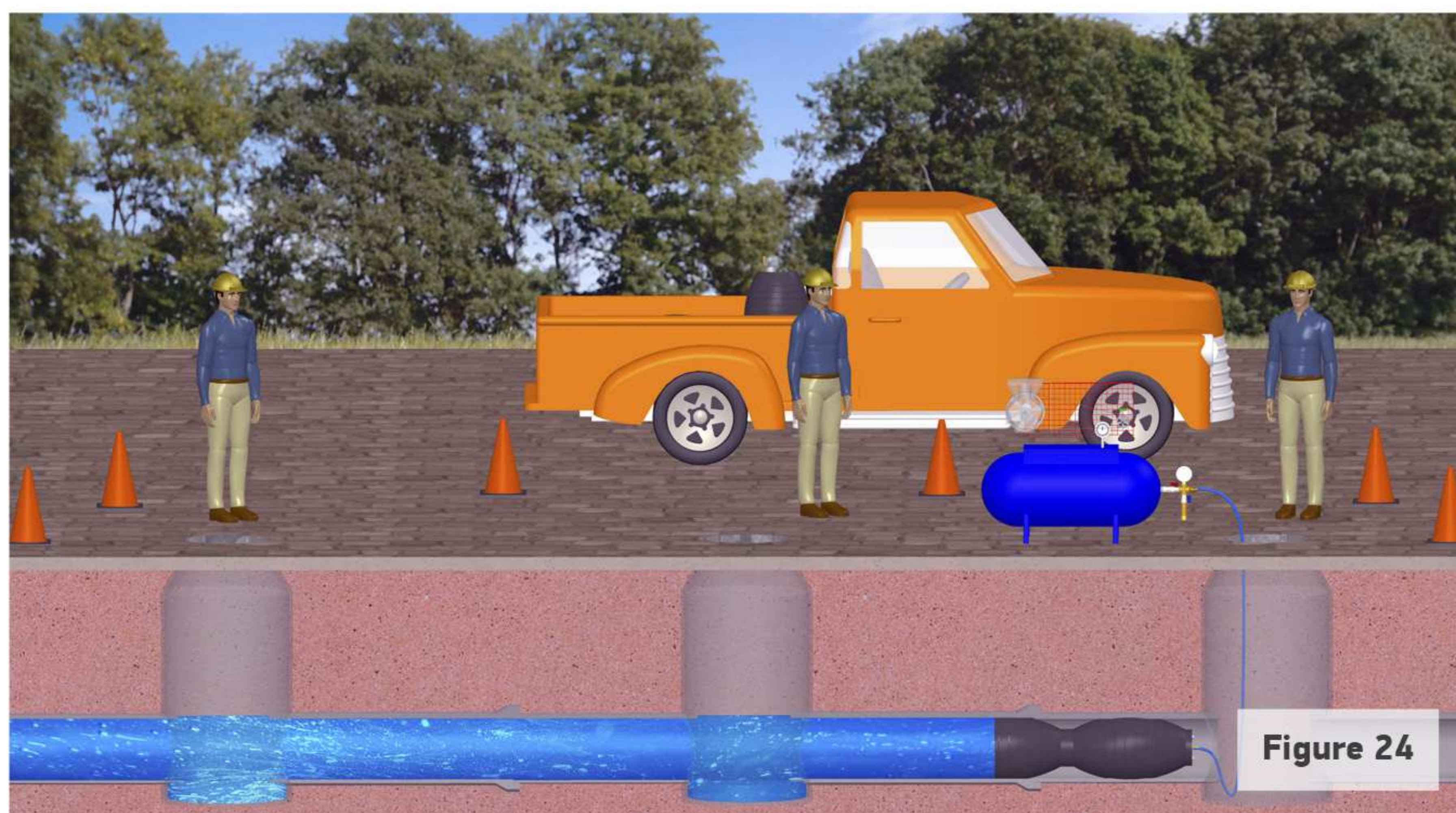


Figure 24

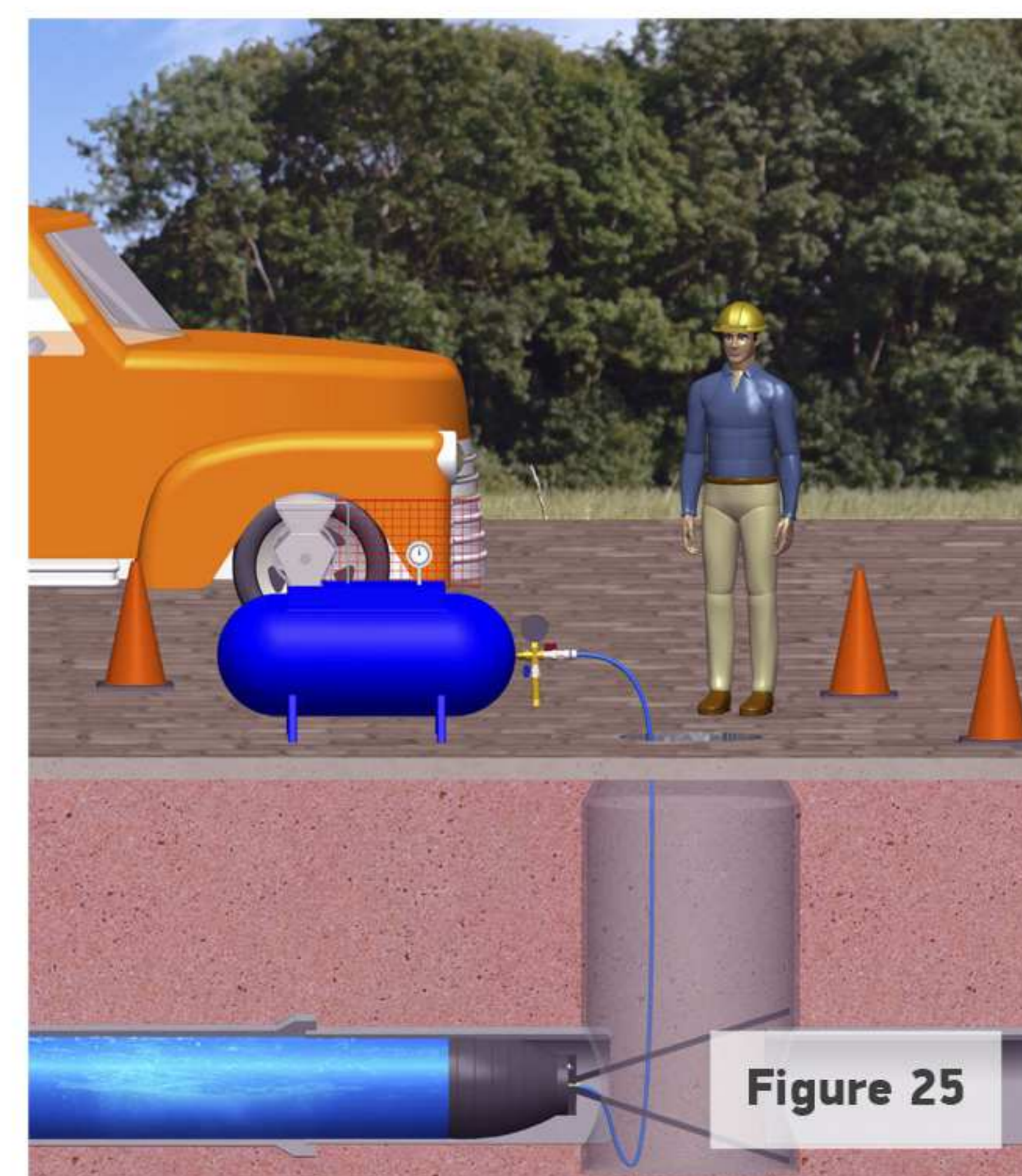


Figure 25

**Warning!!** Pipe Plugs under pressure must be braced. Always brace the pipe plug securely!

**Warning!!** Never use eyebolts or handles on pneumatic plugs for fixing, or safety supports, since these are intended solely for lowering and lifting pipe plugs.

## 4.6 Inflation of the Pipe Plug

- ALWAYS inflate the pipe plug up to the **max. allowable inflation pressure** (working pressure) marked at the technical data sheet and on the pipe plug (Figure 26). During pipe plug inflation, monitor the pressure closely on the control device.

**WARNING!! NEVER** exceed the inflating pressure value outlined in the PlugCo Catalog and marked on the pipe plug. Also do not apply less inflation pressure than the Max. Inflation Pressure. Always inflate exactly Max. Inflation Pressure.



Figure 26

**Recommendation:** Since air is compressible, it is often advisable to inflate larger diameter pipe plugs with water.

- The inflation should be done from a location outside of the Danger Zone using an inflation hose, a proper pressure source and a calibrated control device to monitor the working pressure.
- Check the inflation pressure on the control device regularly. A small volume of inflation air leaks through the elastomeric body of every inflatable pipe plug. This lost air must be replaced periodically.

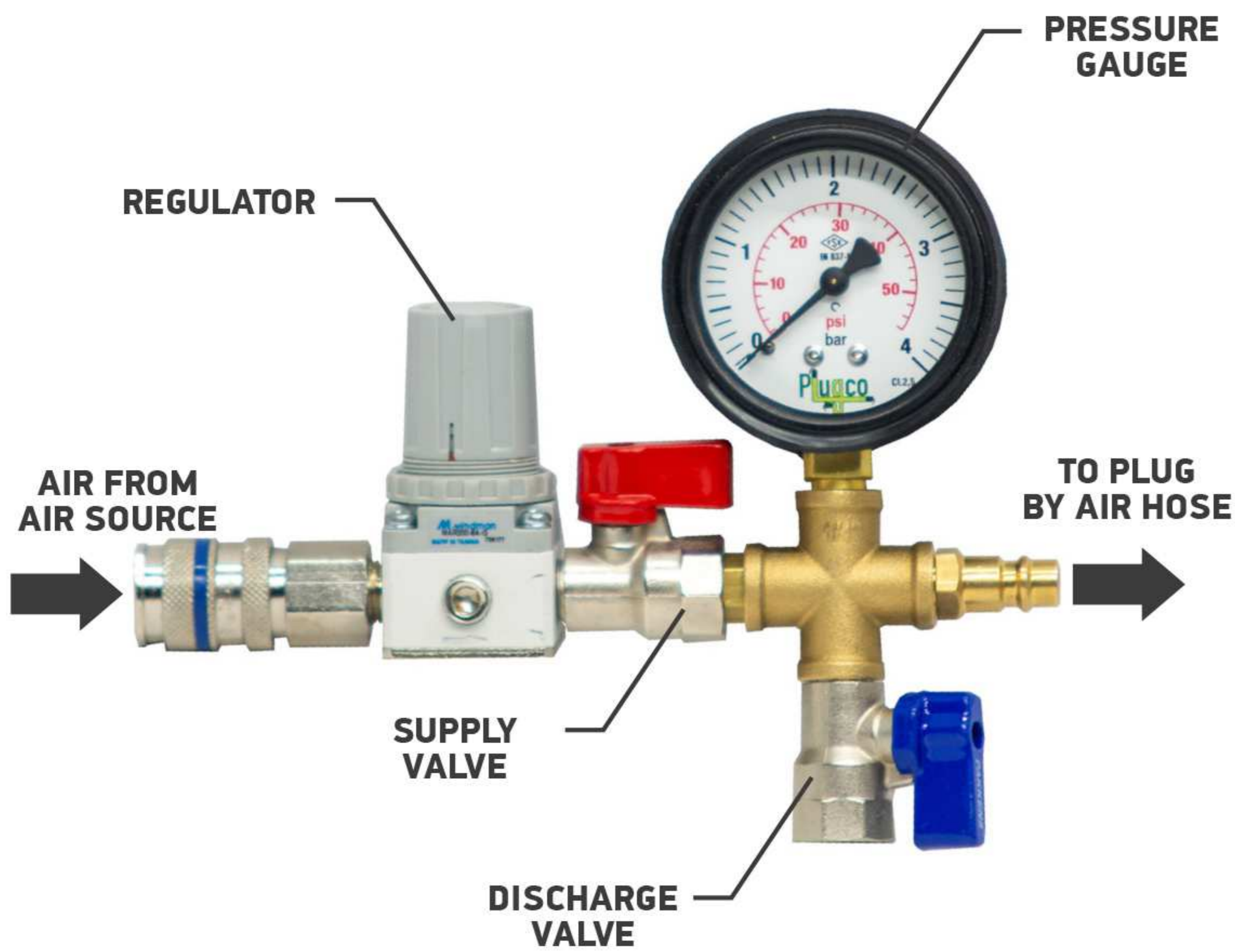


Figure 27

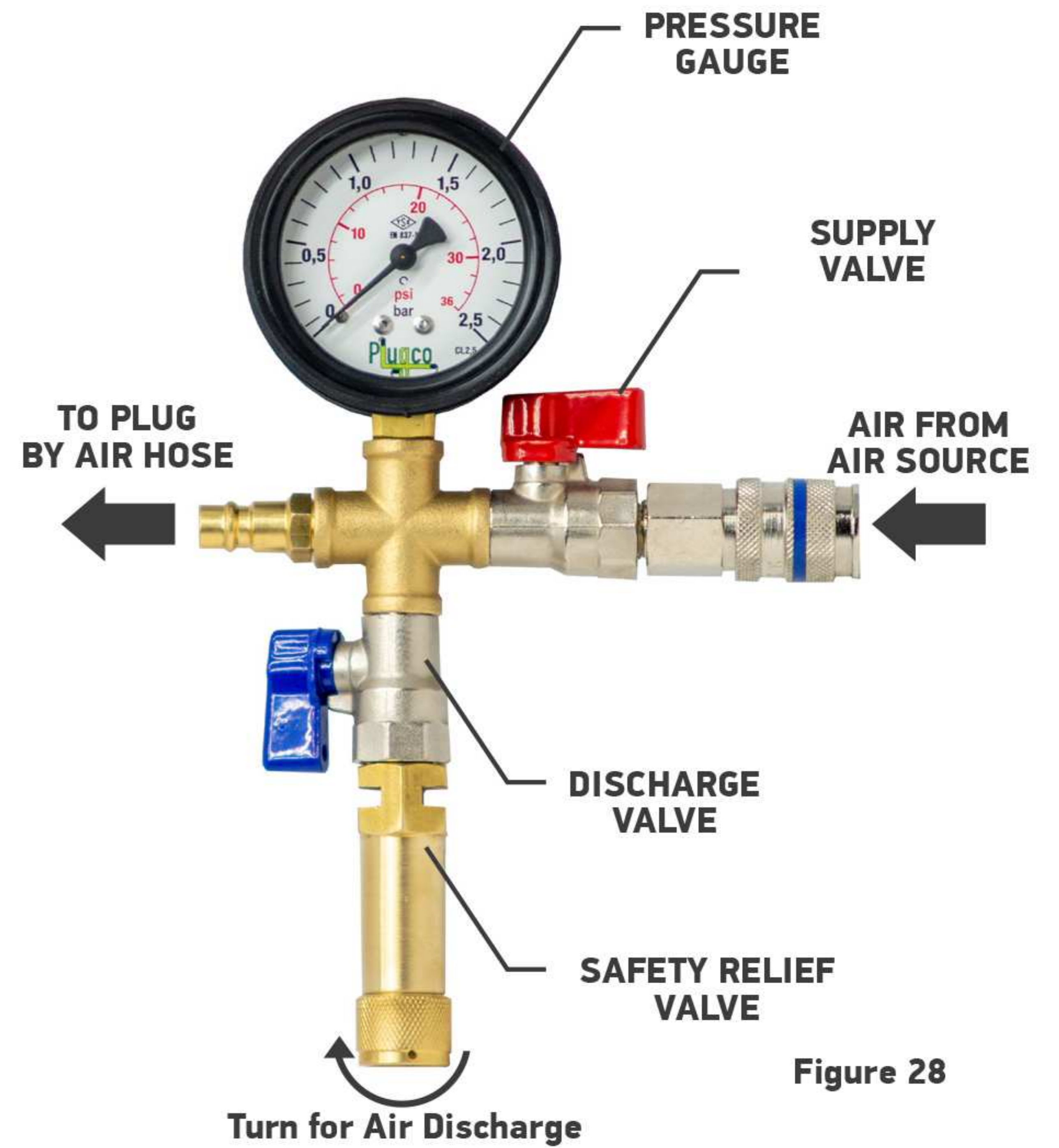


Figure 28

The control device should be connected to the plug throughout the inflation of the pneumatic plug and also during the period under the pressure. If the permissible working pressure is exceeded, safety valve is activated and begin to reduce the pressure in the pipe plug. When activated, the flow volume of the safety relief valve is limited. In the case of air source with high flow capacity, it can happen that the activated safety valve does not completely interrupt inflation of pipe plug but only slows it down. The activated safety valve has a characteristic of loud sound. Upon activation of safety relief valve the operator must immediately close the supply valve on the controller to interrupt inflation of the pipe plug.

For advance pressure monitoring we recommend to use PlugCo Pressure Monitoring and Alarm System. (Figure 29)

**The conditions where plug should not be inflated;**

- Never inflate the pipe plug outside of the pipe (Figure – 30 & 31).



Figure 29



Figure 30

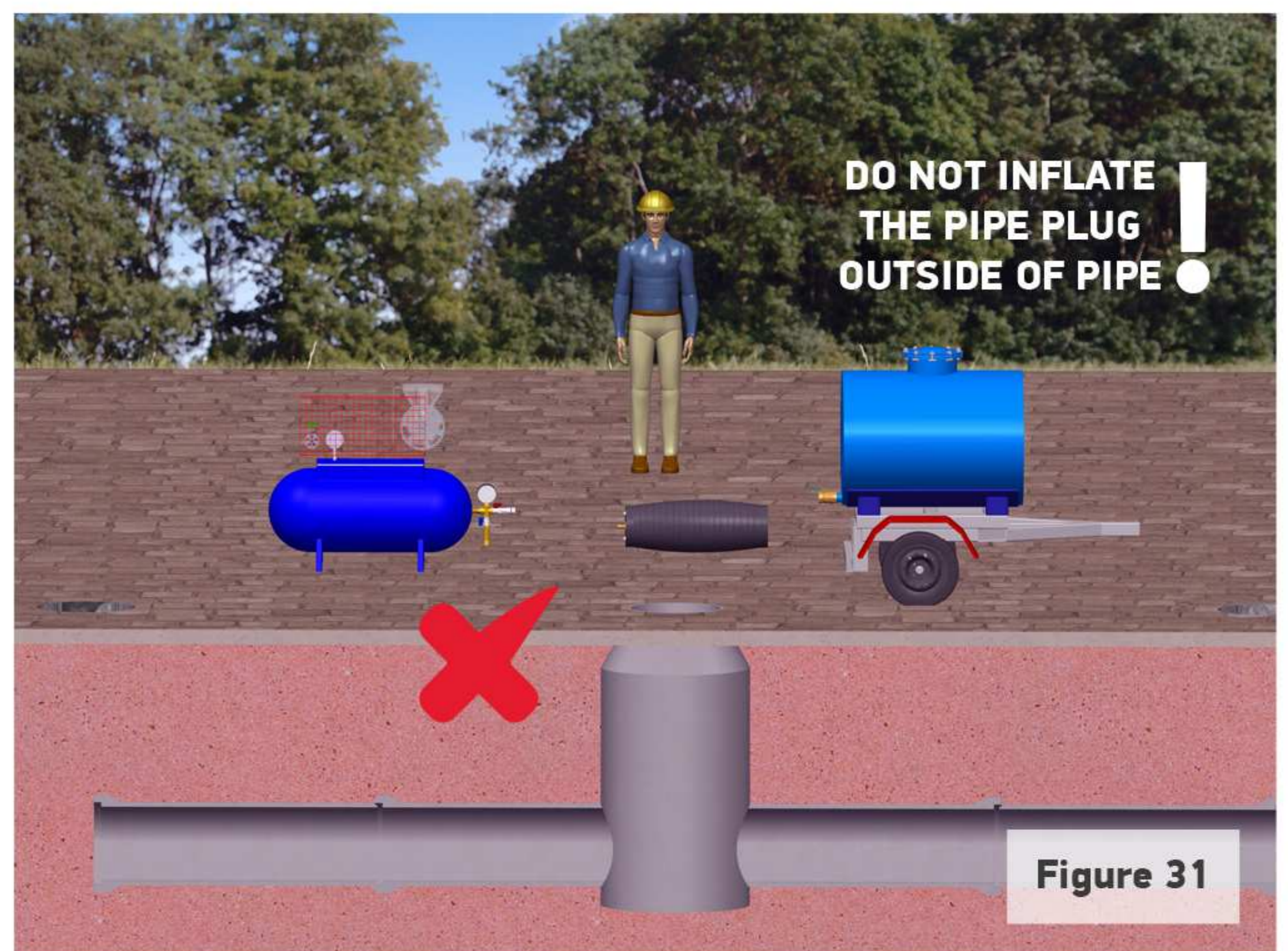


Figure 31



- Never inflate the pipe plug over or near sharp objects (Figure 32). Remove all sharp objects, stones and any foreign material from the pipe before inserting the pipe plug.

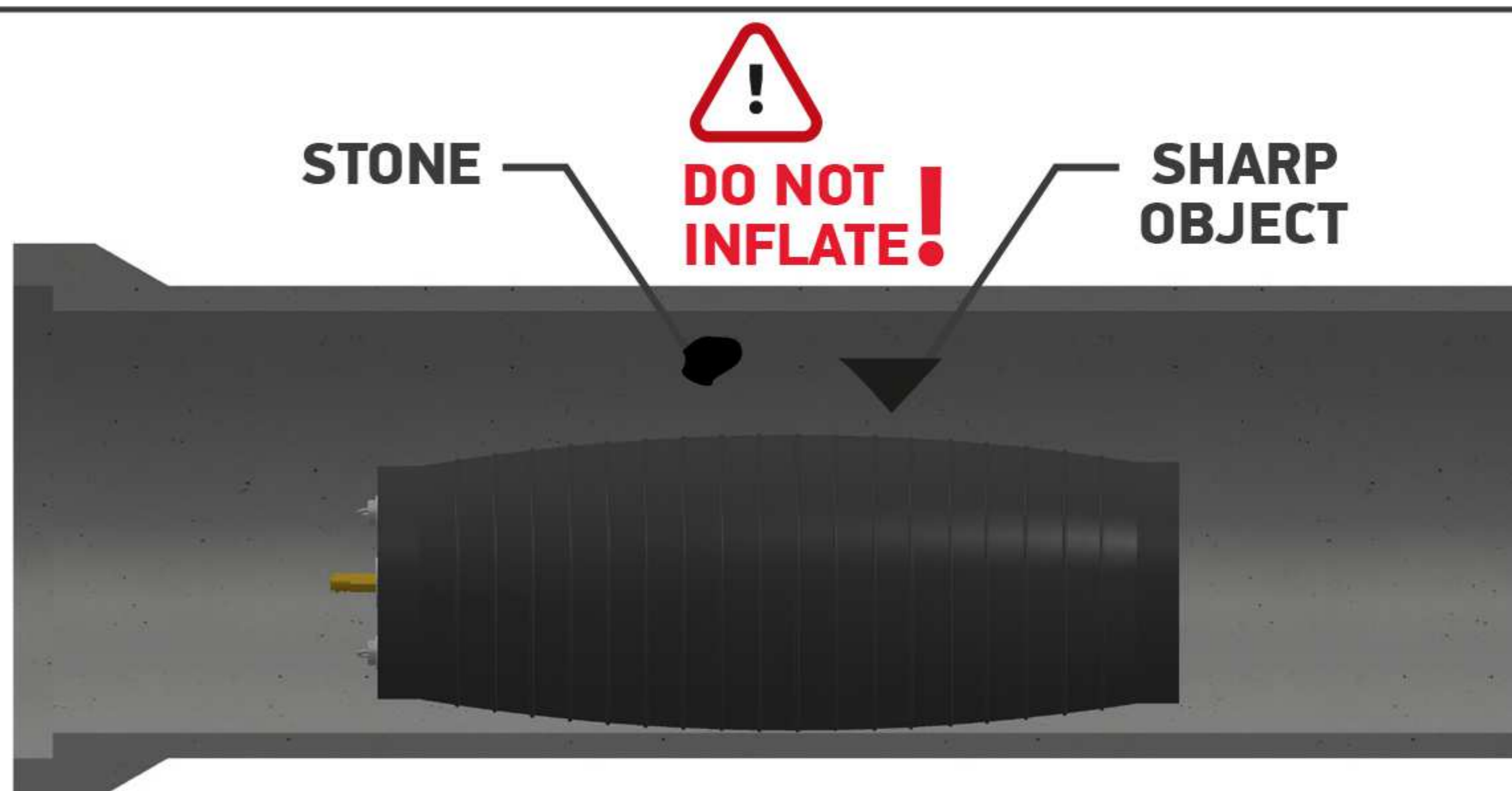


Figure 32

- Never allow the pipe plug to protrude from the end of the pipeline during inflation or use. Always completely insert the plug into the pipe line. (Figure – 33)

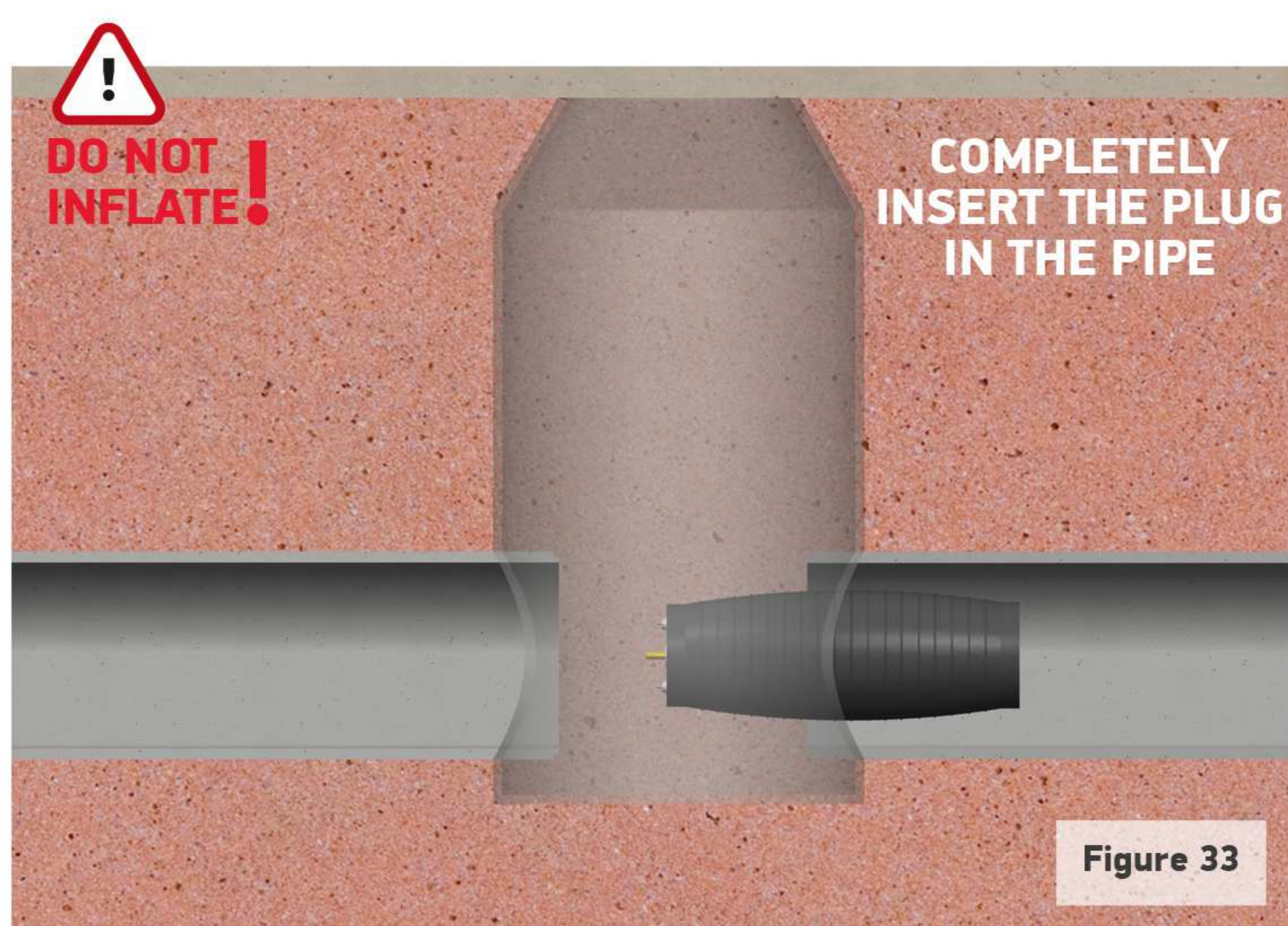


Figure 33

- Never inflate the pipe plug over laterals or other openings. (Figure – 34)

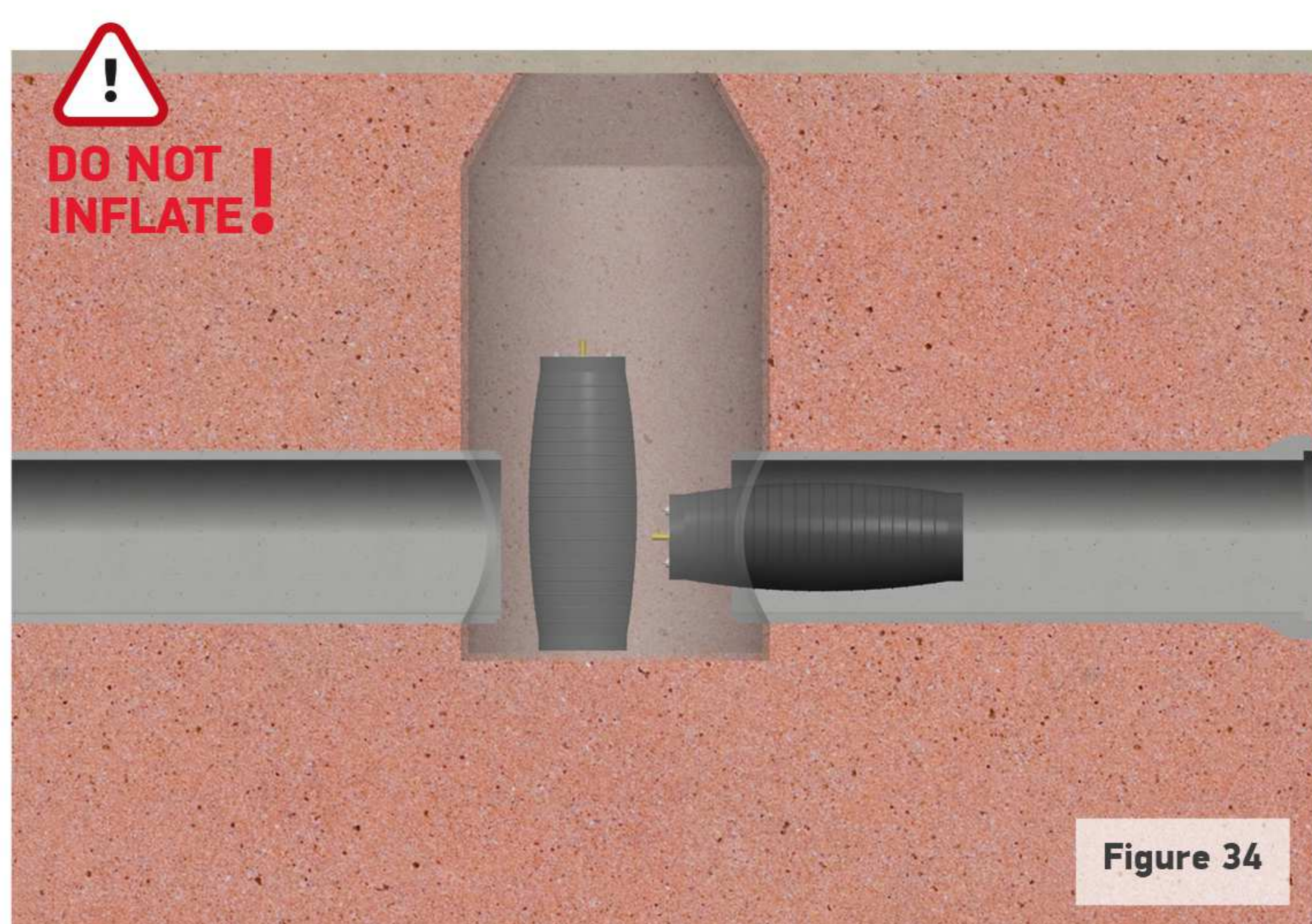


Figure 34

## 5. Procedure of After Testing

- After completing the test/application, **release the back pressure** (head pressure) completely. Then open the discharge valve and deflate the pipe plug. Release the air in the pipe plug from outside the Danger Zone through the inflation hose until the pipe plug is completely deflated.

How to release the back pressure

- By pumping the water behind the plug
- Open the safety valve/discharge valve on the controller to release the working pressure until pressure gauge shows zero

- Never remove the pipe plug from the pipeline until all pipeline back pressure is released and the pipe plug is deflated.

- Never use the air inflating hose to remove the pipe plug from the pipe. Use chain or cable to install and remove the pipe plug. (Figure – 35)

- After using the inflatable pipe plug, clean it with detergent/water and inspect the plug for damage, tears or any other defect.

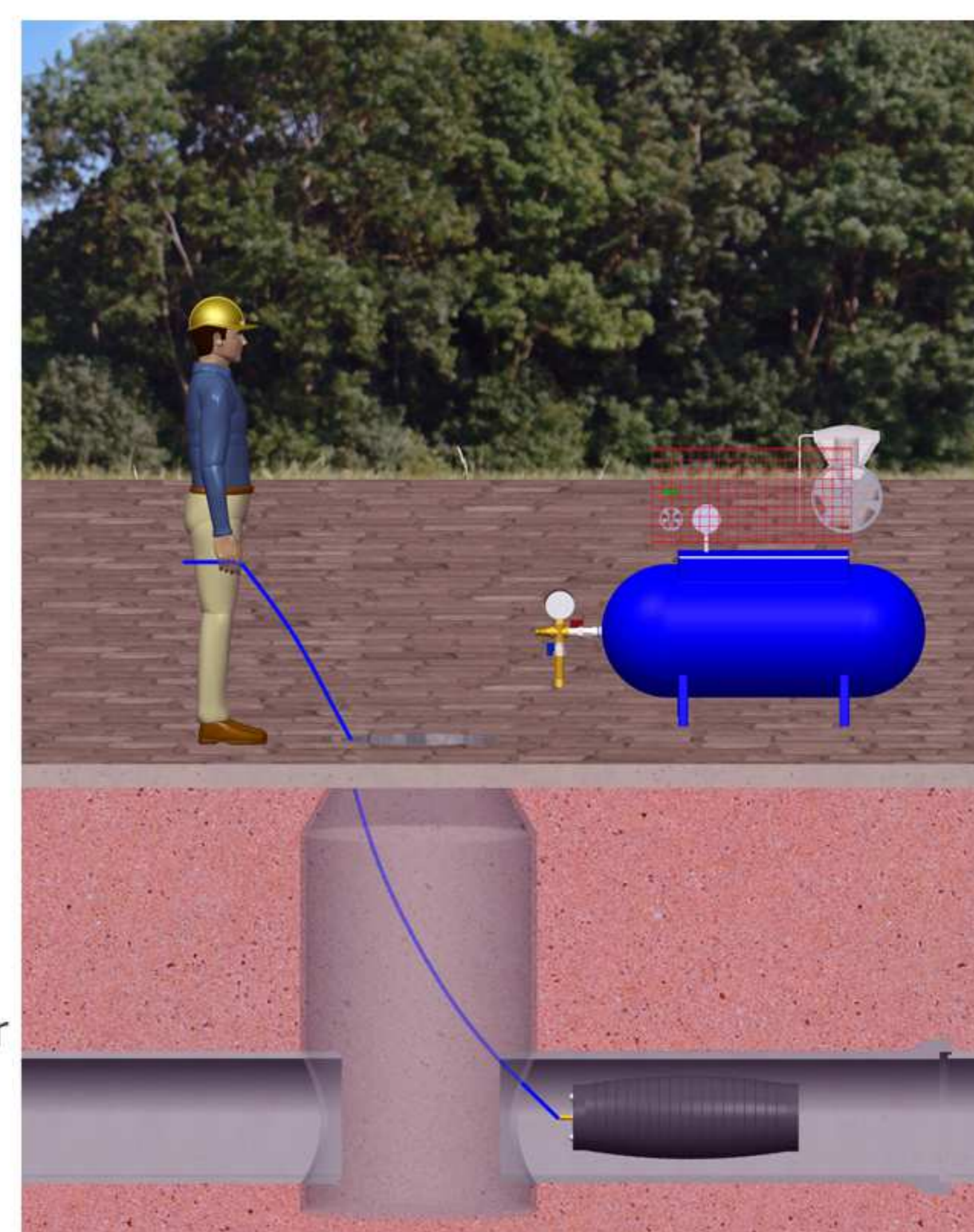


Figure 35

## 6. Storage

- Store the cleaned pipe plug in a clean dry place at room temperature and away from direct sunlight as per ISO2230.

ISO2230 list of instructions:

- Store at temperature between 15-25-degree Celcius
- Store in dry storage space
- Screen it from direct (sun) light
- Screen it from circulating air.
- As far as possible, ensure that pipe plug is not subjected to pressure while stored.
- Avoid long-term contact with liquid during storage.
- Avoid long-term contact with metals during storage.
- Avoid long-term contact with other rubber during storage.
- After long-term storage, the pipe plug can be cleaned with soap and water. Once cleaned, it should be left to dry at room temperature.

- Pipe plug must be stored suspended vertically or placed horizontally.

## 7. Warranty

Manufacturer warrants that all pneumatic plugs manufactured by it and shown in this manual will be free from defects in material and workmanship for one (1) year following the date of manufacture. If any of the goods are found to be defective, such goods will, at manufacturer's option be replaced or repaired at manufacturer's cost. The parties hereto expressly agree that buyer's sole and exclusive remedy against the manufacturer shall be for the repair and/or replacement of defective goods as provided herein. (The sole purpose of the stipulated exclusive remedy shall be to provide the buyer with free repair and replacement of defective goods in the manner provided herein. The exclusive remedy shall not be deemed to have failed of its essential purpose so long as the manufacturer is willing and able to repair or replace defective goods in the prescribed manner.) Goods which may be sold by manufacturer but are not manufactured by it are not warranted by manufacturer, but are sold only with the warranties, if any, of the original manufacturers thereof.

(This warranty does not cover labor or other costs or expenses to remove or install any defective, repaired or replaced goods.) Manufacturer's warranty does not apply to any goods which have been subjected to misuse, mishandling, misapplication, neglect (including but not limited to use of unauthorized parts or attachments), or adjustment or repair performed by anyone other than manufacturer or one of manufacturer's authorized agents.

Any claim by buyer with reference to the goods sold hereunder shall be deemed waived by the buyer unless submitted in writing to manufacturer within the earlier of (1) thirty (30) days following the date buyer discovered or by reasonable inspection should have discovered, any claimed breach of the foregoing warranty, or (2) twenty-five (25) months following the date of manufacture. Any cause of action for breach of the foregoing warranty shall be brought within one year from the date the alleged breach was discovered or should have been discovered, whichever comes first. LIMITATION OF LIABILITY. Manufacturer's liability (whether under the theories of breach of contract or warranty, negligence, or strict liability) for its goods shall be limited to repairing or replacing parts found by the manufacturer to be defective, or at manufacturer's option, to refunding the purchase price of such goods or parts thereof.

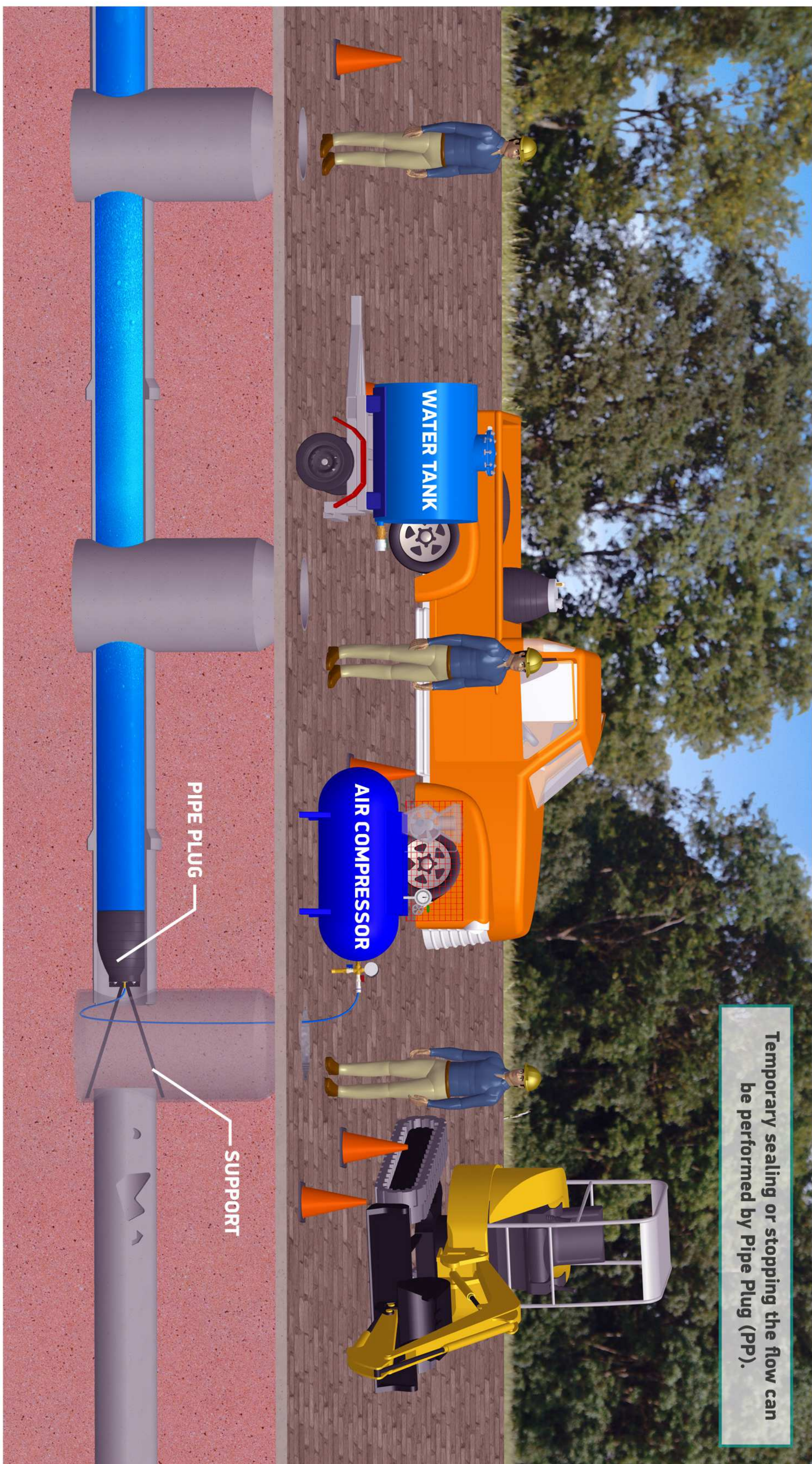
DISCLAIMER OF CONSEQUENTIAL DAMAGES. In no event shall manufacturer be liable for consequential damages arising out of or in connection with this agreement, including without limitation breach of any obligation imposed on manufacturer hereunder or in connection herewith. Consequential damages for purposes hereof shall include, without limitation (including death) to any person, or loss or damage to property (including without limitation property handled or processed by the use of the goods). Buyer shall indemnify manufacturer against all liability, cost or expense which may be sustained by manufacturer on account of any such loss, damage or injury.

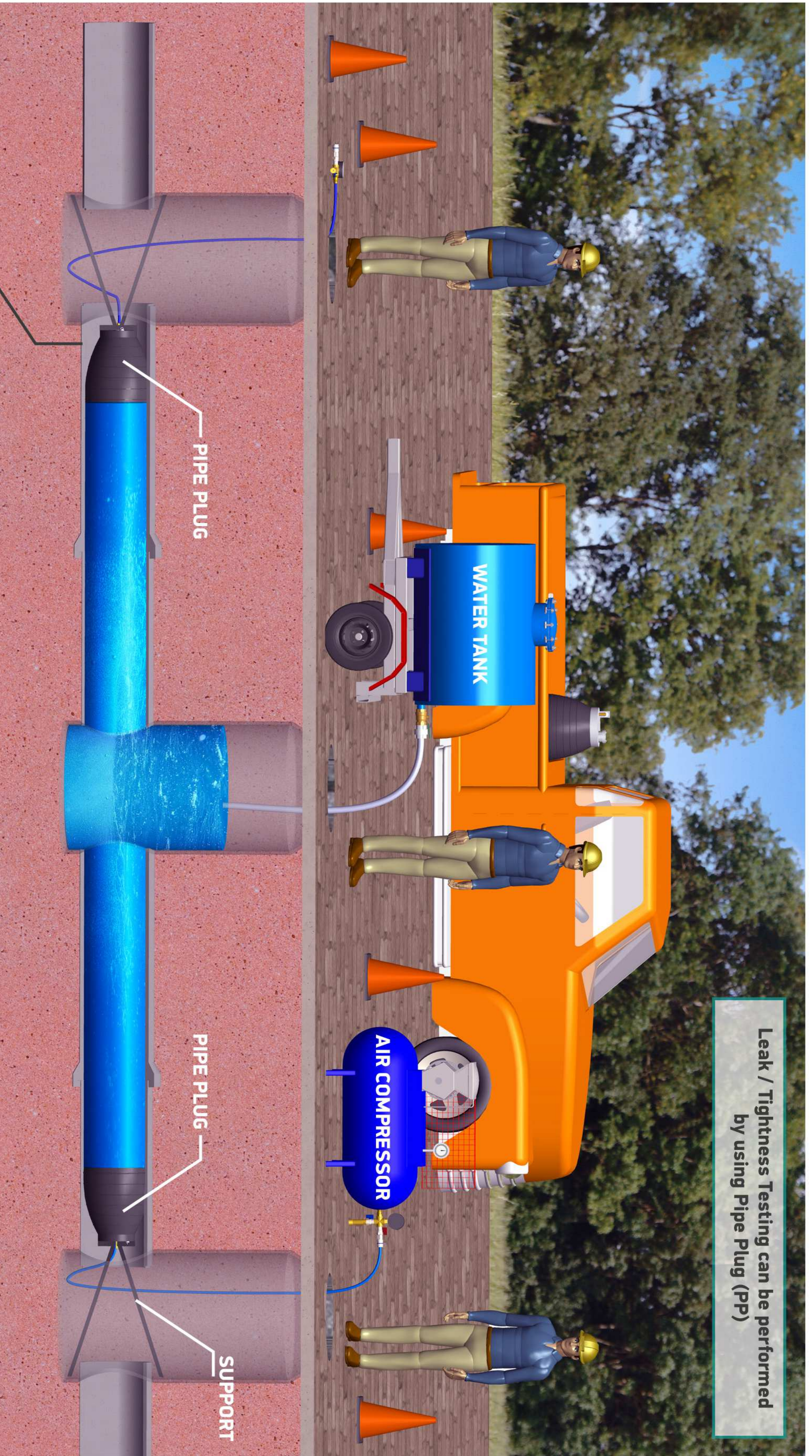
DEFECTIVE PRODUCTS POLICY. To obtain performance under this warranty, any product suspected of having a manufacturing defect in materials or workmanship at manufacturer's request must be returned to PLUGCO INDUSTRIES INCORPORATED, freight prepaid, for inspection. A returned goods authorization (RGA) must be obtained before shipping any product back to PLUGCO. Contact (sales@plugco.net)

CUSTOMER TRANSPORTATION REIMBURSEMENT. Whenever PLUGCO repairs or replaces a product at PLUGCO'S expense, PLUGCO will reimburse the distributor by credit memo, the same surface freight amount it cost PLUGCO to return the warranty items.

The foregoing warranty is in lieu of all other warranties express or implied, including those of merchantability or fitness for any purpose not expressly set forth herein. No affirmation of manufacturer, by words or action, other than as set forth in this language shall constitute a warranty.

## 8. Application Drawings of Pipe Plug / Pipe Test Plug



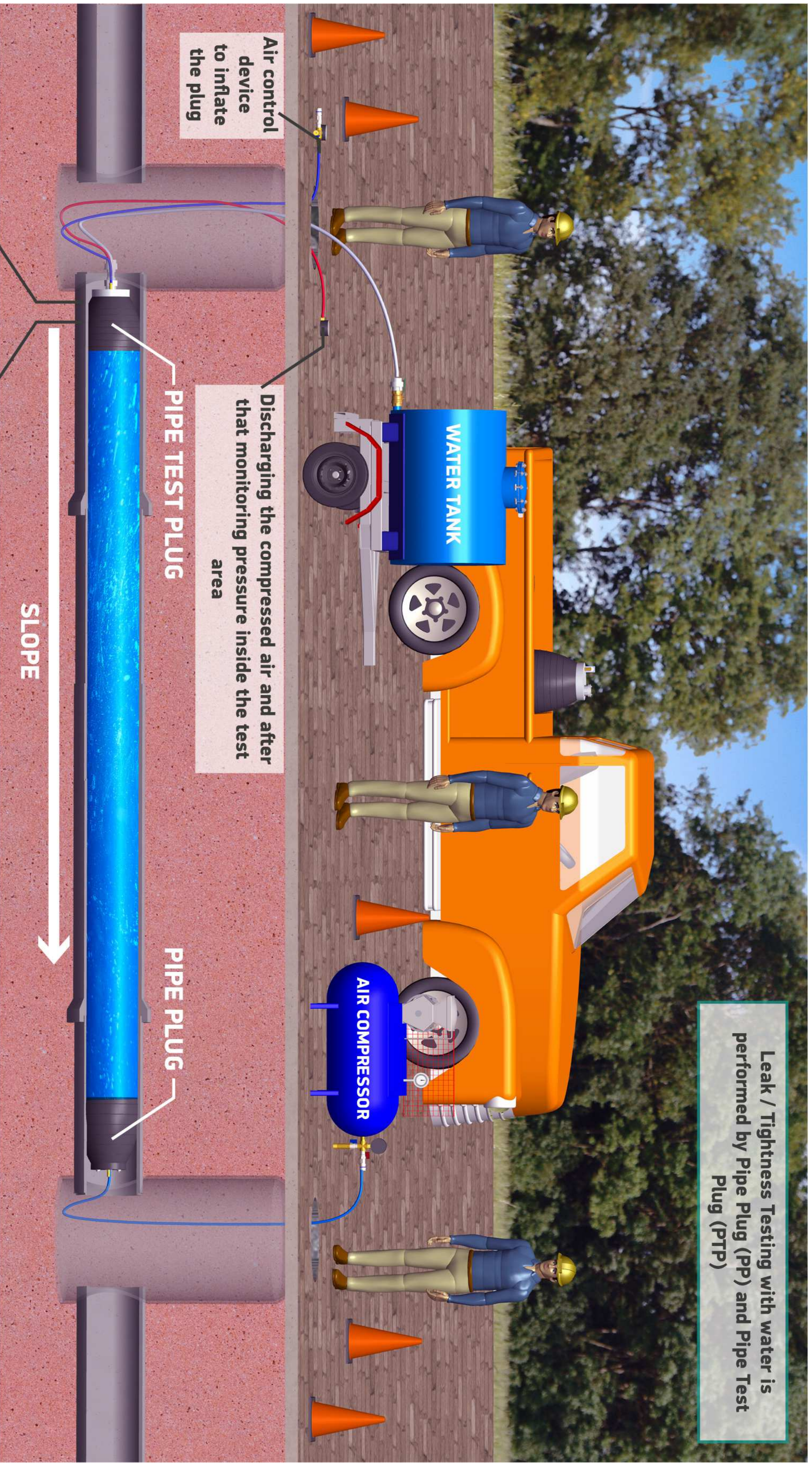


Leak / Tightness Testing can be performed by using Pipe Plug (PP)



Watch on Youtube

Leak / Tightness Testing with water is performed by Pipe Plug (PP) and Pipe Test Plug (PTP)



Air control device to inflate the plug

Discharging the compressed air and after that monitoring pressure inside the test area

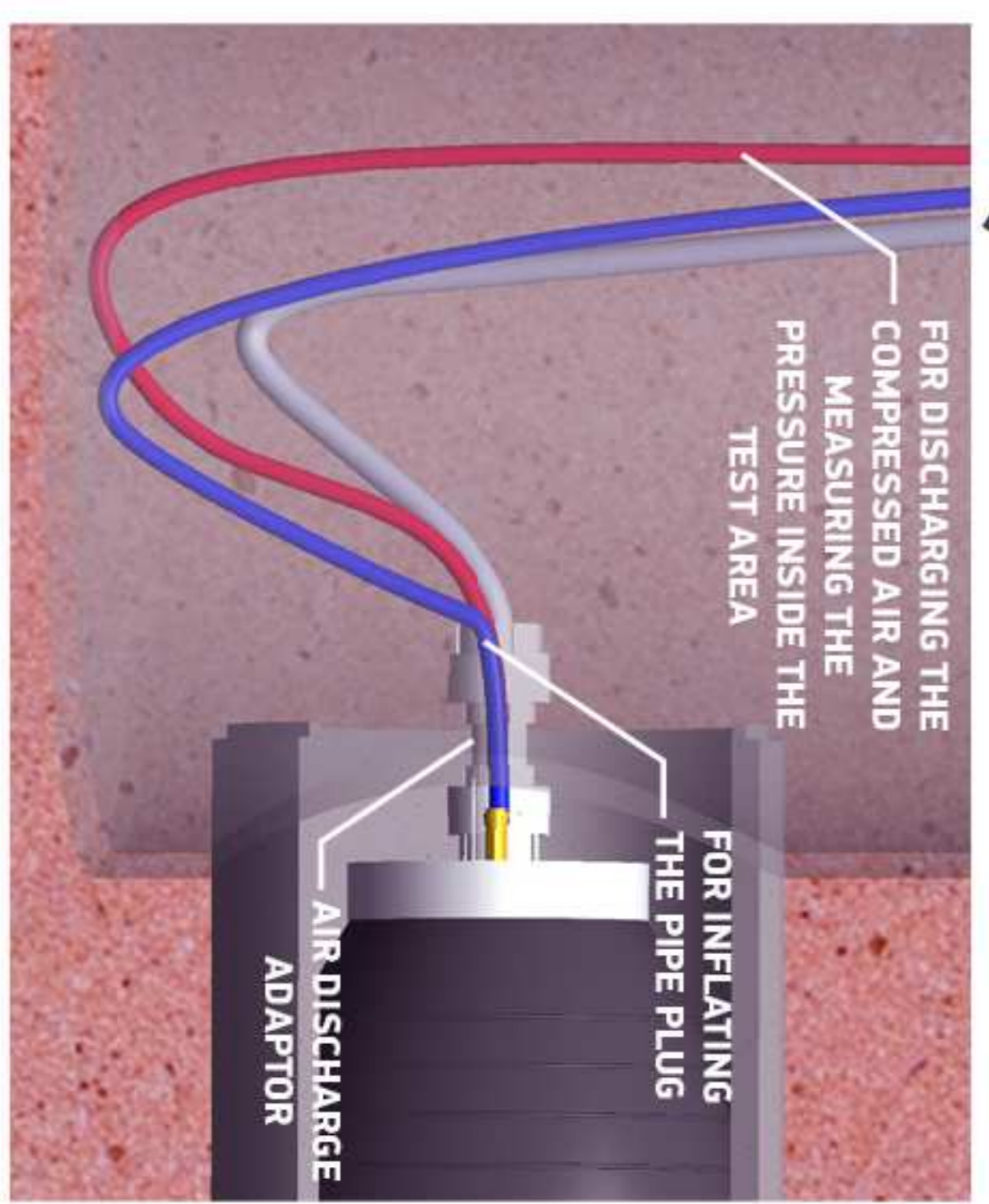
PIPE TEST PLUG

PIPE PLUG

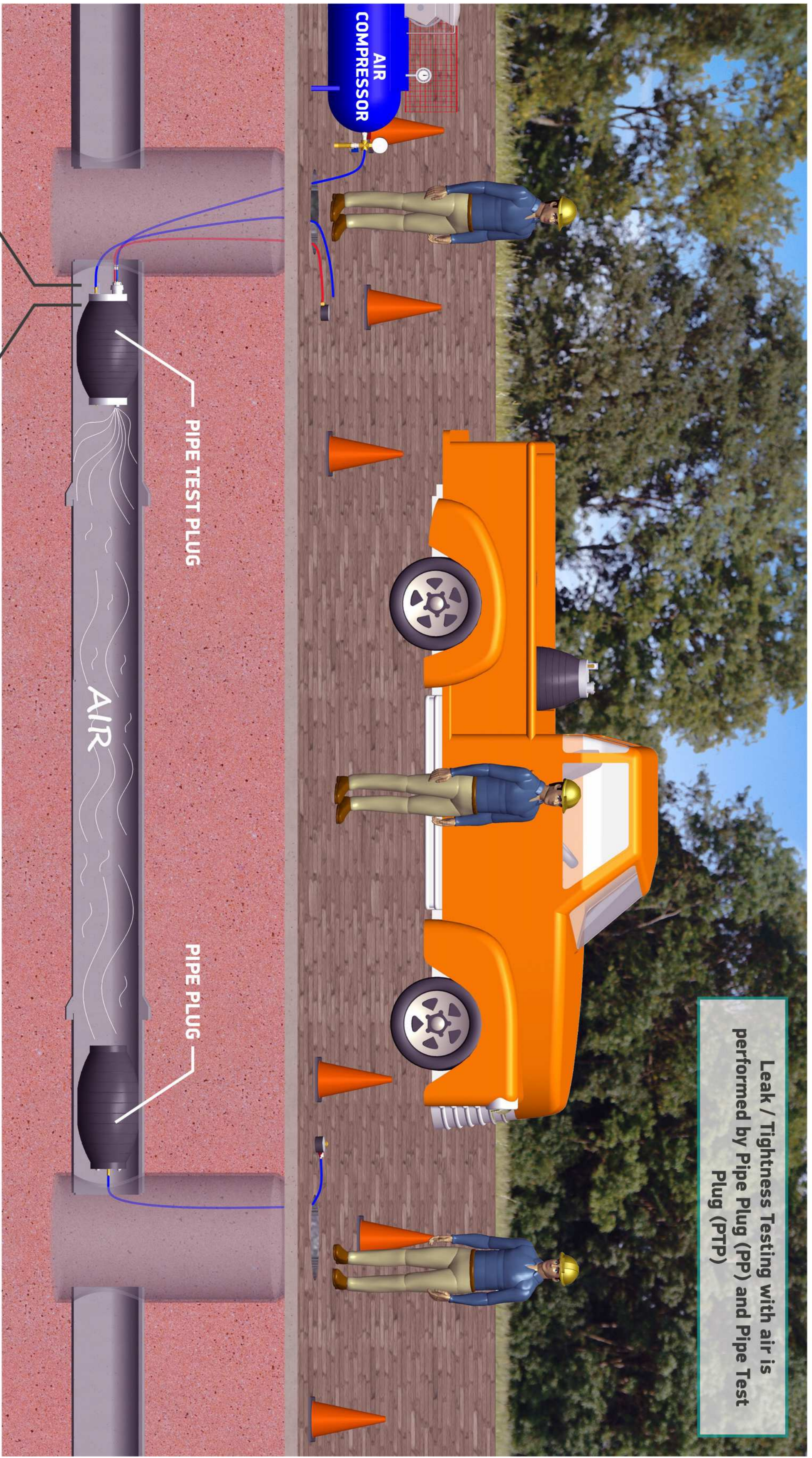
SLOPE



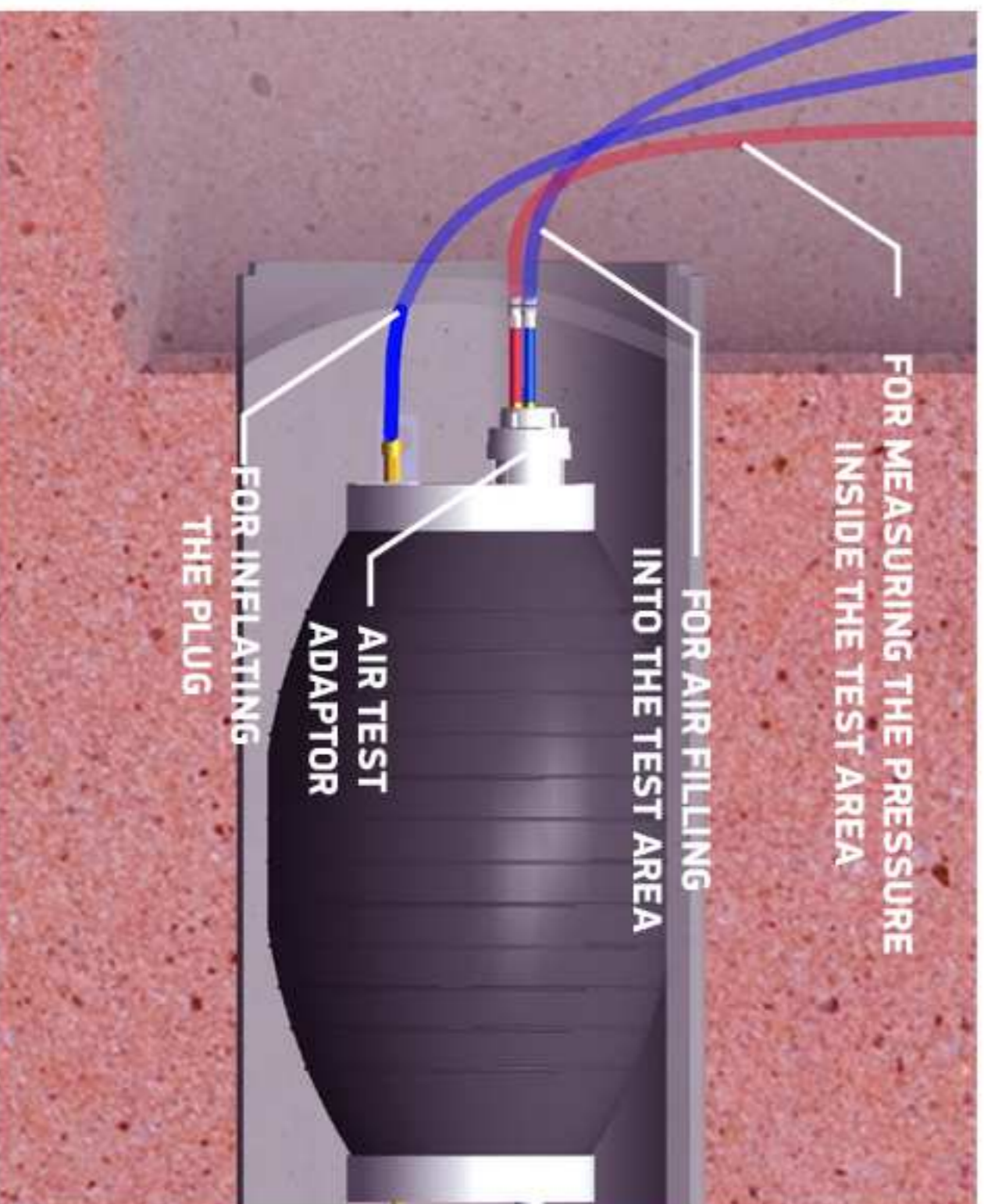
Watch on Youtube

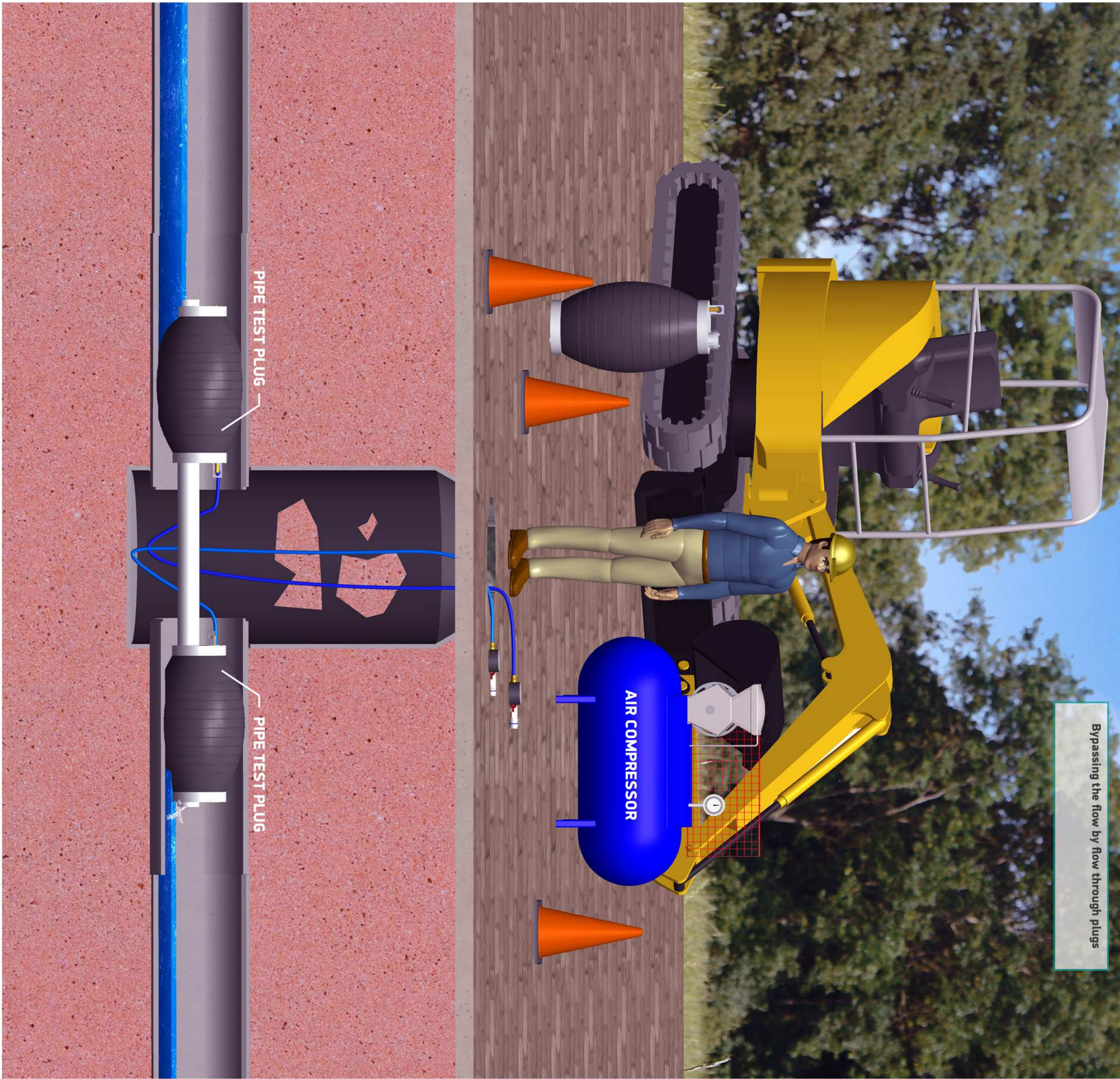


Leak / Tightness Testing with air is performed by Pipe Plug (PP) and Pipe Test Plug (PTP)

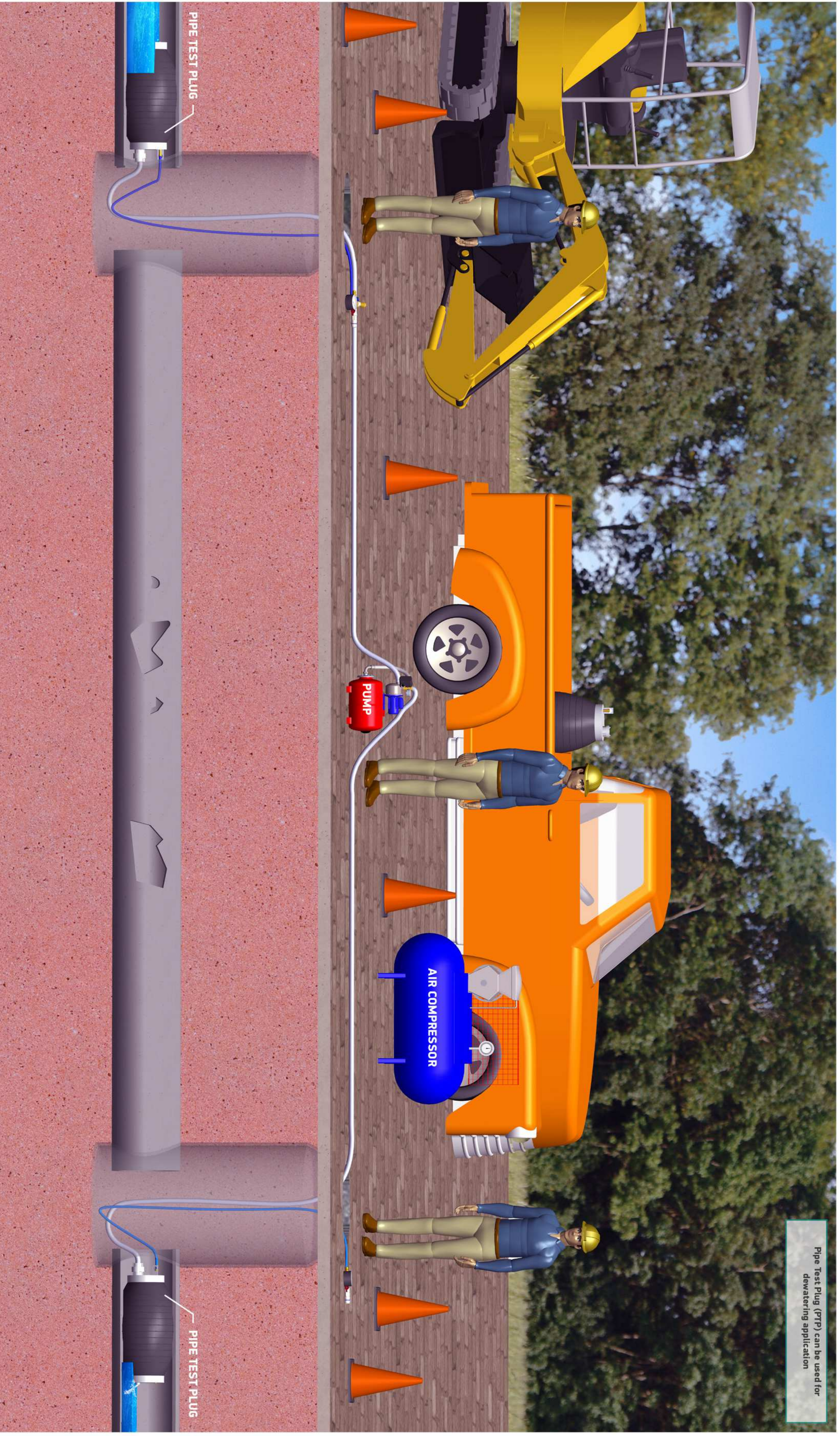


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Pipe Test Plug (PTP) can be used for deaerating application



STOP  
THE FLOW  
CONTINUE  
THE WORK