



BP SUPPLY

Pipes, instrumentation and fittings for mining

We are a Peruvian company with ISO 9001:2015 certification, with 14+ years of experience supplying pipes, instrumentation, accessories and PVC filters for monitoring wells (piezometers) and groundwater production. BP Supply is also an authorized distributor of CHARLOTTE AND PIPE FOUNDRY COMPANY in Peru, leaders in ASTM certified PVC pipes. Together with our partners SENCEIVE in geotechnical monitoring system and GEOPRO in supply of shutters with BIMBAR technology, we offer solutions for your current and future projects.

ISO 9001:2015
BUREAU VERITAS
Certification



Este producto ha sido acondicionado bajo el Sistema de Gestión certificado por Bureau Veritas Certification, bajo la norma ISO 9001:2015. Certificado número CO21.00542/U

Proveedor Homologado
Código DUNS: 93-432-5300



Achilles

Regic

SILVER

ID: 00089202

Tubing, filters and accessories for groundwater monitoring and production wells

BP Supply provides PVC pipes and filters in schedule 40 (SCH40) and 80 (SCH80) made in the USA with Type 1, Grade 1 virgin resin, as per ASTM D1784 and ASTM D1785 standards requirements, approved by the NSF for drinking water supply.

Benefits

- **Economic**, for being an alternative to stainless steel in non-deep wells
- **Resistant** to harsh chemicals and corrosion
- **Light**, which eases its installation

Features

- Diameters from 3/4" to 10", lengths from 3m to 6m (special lengths on request)
- Filters are available on a wide variety of combinations, with slot thickness from 0.3mm to 3mm
- Threaded joint (ASTM F480)

STANDARD ASTM D1785 - SCH 40

Nominal Size in Inches	Outside Diameter, mm	Inside Diameter, mm	MIN Wall Thickness, mm	Nominal weight, kg/m	Collapse Pressure in PSI
3/4"	26.67	20.2	2.87	0.31	1120
1"	33.4	25.71	3.38	0.47	910
1.1/4"	42.16	33.81	3.56	0.63	510
1.1/2"	48.26	39.47	3.68	0.77	370
2"	60.33	50.67	3.91	1.03	220
3"	88.9	77.09	5.49	2.15	190
4"	114.3	100.34	6.02	3.05	120
6"	168.28	152.07	7.11	5.37	60

STANDARD ASTM D1785 - SCH 80

Nominal Size in Inches	Outside Diameter, mm	Inside Diameter, mm	MIN Wall Thickness, mm	Nominal weight, kg/m	Collapse Pressure in PSI
3/4"	26.67	17.73	3.91	0.41	3090
1"	33.40	23.11	4.55	0.60	2410
1.1/4"	42.16	31.17	4.85	0.83	1390
1.1/2"	48.26	36.73	5.08	1.01	1040
2"	60.33	47.78	5.54	1.39	670
2.1/2"	73.03	57.15	7.01	2.13	770
3"	88.90	71.64	7.62	2.89	540
4"	114.30	95.24	8.56	4.16	350
5"	141.30	120.43	9.52	5.76	250
6"	168.28	144.14	10.97	7.93	230
8"	219.08	191.26	12.70	12.04	160
10"	273.05	240.50	15.06	17.85	130

FITTINGS



Elevating block
Thread: ASTM F480
Diameters: 3/4" - 10"



Conic cap
Thread: ASTM F480
Diameters 3/4" - 10"



Surface cap
Diameters: 3/4" - 10"



Piezometer protector
For up to 10" pipes with thread or hinge



Adjustable crescent clamp
Diameters: 3/4" - 10"



Adjustable clamp
Diameters: 3/4" - 10"

CPVC (chlorinated polyvinyl chloride) is a material that offers greater resistance to corrosive and abrasive effects, mechanical stress while being highly competitive in price. This allows it to be applied to piping in various industrial processes where, for example, greater thermal resistance and resistance to certain substances is required compared to PVC pipes.

Features

3x

more resistant to impact compared to regular CPVC

+25%

higher pressure rating at 52 °C compared to generic CPVC



Eliminates internal and external corrosion caused by common industrial liquids and vapors



Highest heat deflection temperature of any other CPVC compound



Greater maintenance cost savings compared to metallic systems

<p>Heat Deflection Temperature (HDT) at 264 PSI min. (18.56 kg/cm²)</p>

<p>PVC 71.1 °C</p>

<p>Standard CPVC 100 °C</p>
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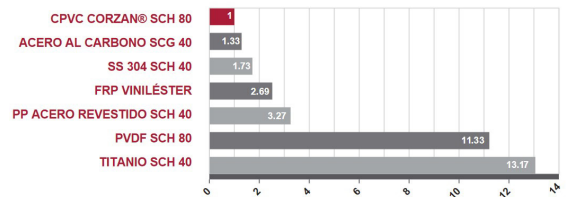
<p>CPVC Corzan® 115 °C</p>

<p>ASTM D648</p>

Excellent option for handling chemicals used in water treatment such as:

- Sulfuric Acid
- Hydrochloric Acid
- Nitric Acid
- Phosphoric Acid
- Carbon Dioxide
- Ferric Chloride
- Aluminum Sulfate
- Caustic Soda (NaOH)
- Magnesium Hydroxide
- Calcium Hydroxide (Lime)
- Sodium Hypochlorite

INSTALLATION COST 6" (160mm) COMPLEX SYSTEM

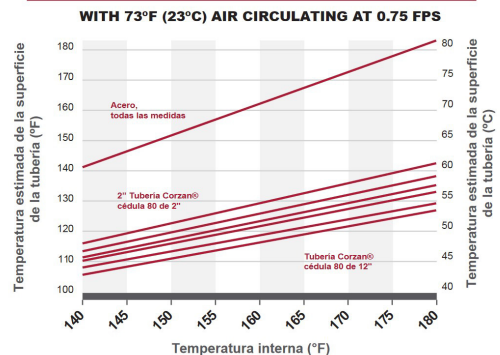


Índice de Costo (Tubería Corzan® = 1.0)
Fuente: Chemical Engineering, 1/93

SCH 80 presure resistance with cemented connection

Temperature (°C)	22.8	26.7	32.2	37.8	48.9	60	71.1	82.2	93.3
Temperature (°F)	70	80	90	100	120	140	160	180	200
PSI	1.00	1.00	0.91	0.82	0.65	0.50	0.40	0.25	0.20
1/2"	850	850	774	697	553	425	340	213	170
3/4"	690	690	628	566	449	345	276	173	138
1"	630	630	573	517	410	315	252	158	126
1 1/4"	520	520	473	426	338	260	208	130	104
1 1/2"	470	470	428	385	306	235	188	118	94
2"	400	400	364	328	260	200	160	100	80
2 1/2"	420	420	382	344	273	210	168	105	84
3"	370	370	337	303	241	185	148	93	74
4"	320	320	291	262	208	160	128	80	64
5"	290	290	264	238	189	145	116	73	58
6"	280	280	255	230	182	140	112	70	56
8"	250	250	228	205	163	125	100	63	50
10"	230	230	209	189	150	115	92	58	46
12"	230	230	209	189	150	115	92	58	46

ESTIMATED PIPE SURFACE TEMPERATURE VS. INTERNAL FLUID TEMPERATURE



Low thermal conductivity = Conservation of energy. Heat transfer index is 50 - 60% compared to a steel pipe.

PVC Minero

TEHMCO PVC provides a complete range of pipes and fittings for an easy design of any fluid conduction system.

Dimensions

- Diameters: 2, 3, 4, 6, 8, 10, 12, 14, 18
- SDR17, SDR21, SDR26, SDR32.5 (on request only)

Quality Control

THEMCO's PVC Minero pipes are controlled throughout the entire manufacturing process:

- Applicable standards, technical specifications
- Pressure testing (sustained pressure, accelerated regression, burst pressure)
- Crush testing
- Extrusion quality
- Impact resistance
- Chemical resistance

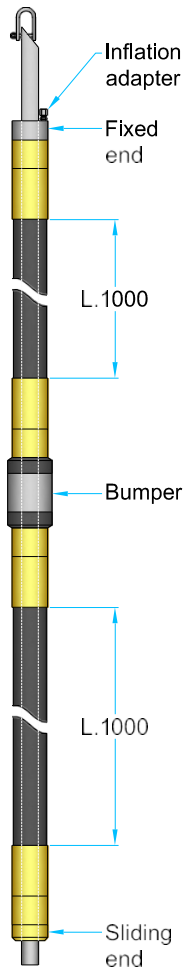
Fittings

- Flange adapter (male - flange ANSI B 16.5)
- Elbow (male - male) 45° y 90°
- Short and long couplets, linkings
- Linking couplet (female - campana cementar), (hembra con salida HI)
- Curve 22.5°, 45° y 90° (male - male)
- Nipple (male - smooth end), (male, HE NPT), (smooth - HE NPT)
- Reduction (female - male)
- Plug (male for cap)
- TEE
- VEE

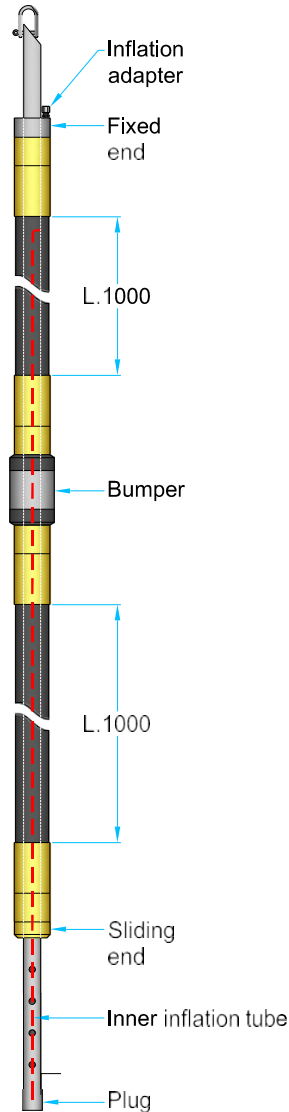


WTP Type WIRELINE PACKER SYSTEMS

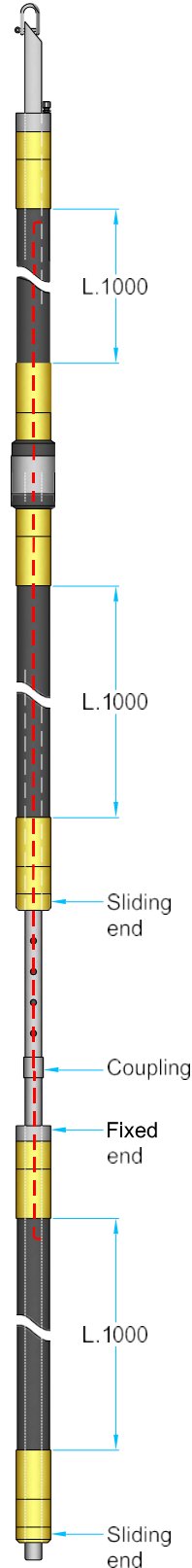
TYPE "A"



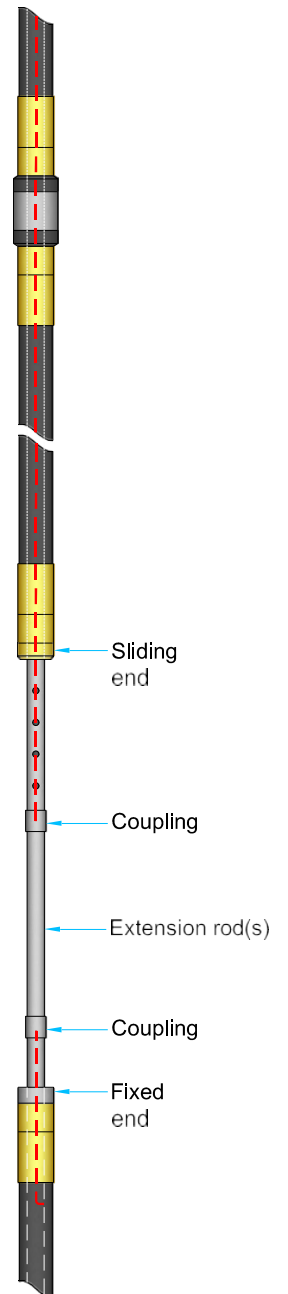
**TYPE "A+"
Convertible
in TYPE "B"**



TYPE "B"



**TYPE "C"
TYPE "B" + EXTENSION ROD(S)**

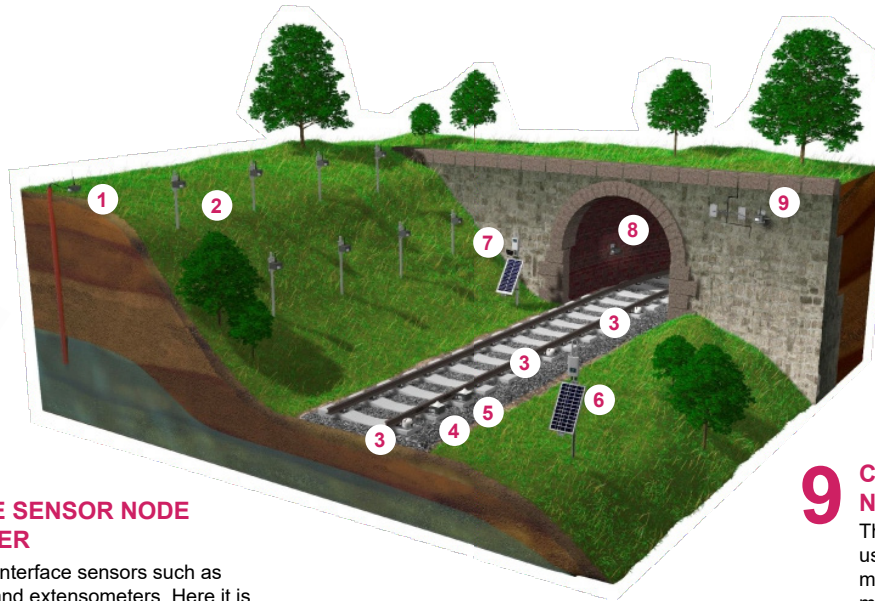


Geopro is a company specialized in the design and manufacturing of inflatable packers with BIMBAR® technology.

The standard lineup is made with expandable natural rubber pipes. Other types of elastomeres are available for non-standard applications, such as higher temperatures or adverse chemical conditions.

REMOTE MONITORING INTEGRAL SOLUTIONS

FOR STRUCTURAL
AND GEOTECHNICAL
APPLICATIONS



1 VIBRATING WIRE SENSOR NODE WITH PIEZOMETER

Supports a variety of interface sensors such as crack, strain gauges and extensometers. Here it is connected to a piezometer and prevents the need for manual logging by transmitting data on pore water pressure and groundwater level variations.

9 CRACK SENSOR NODE

The Crack Sensor Node is used to monitor structural movement including crack movement, expansion joint movement and pile separation. Here it is monitoring the movement of a crack on the tunnel headwall.



2 TRIAXIAL TILT SENSOR NODES

Wireless tilt sensors are mounted on stakes which are driven into the face of the slope. The sensors detect rotational movements within the geotechnical structure and can be set to trigger automated alarms and accelerate sampling when pre-set thresholds are breached.

8 OPTICAL DISPLACEMENT SENSOR NODE (ODS)

The ODS combines a tilt meter and a laser displacement sensor. Together they provide information about the stability of the structure the sensor is fixed to and relative movement of a target structure. Here it is measuring convergence of the tunnel intrados.



3 NANO TRIAXIAL TILT SENSOR NODES

Wireless tilt sensors installed on trackbed can measure rail track heave/differential settlement, cant and twist. With no external antenna and a durable shell, the Nano is ideal for the most challenging environments.

7 4G CAMERA

The FlatMesh 4G Camera is a high resolution camera that is able to take great quality black and white photos of your site day or night. The camera can be set to take photos at regular intervals, on demand or most interestingly, when triggered by movements detected in nearby sensors.



4 MILLIVOLT SENSOR NODE

The Millivolt Sensor Node enables a variety of structural and geotechnical sensors to be integrated into a wireless monitoring system. Strain gauges on trackbed are just one example. A node cap helps protect the antenna from passing track workers.



5 PT100 RTD SENSOR NODE

The PT100 RTD Sensor Node enables precise temperature monitoring and critical rail temperature alerting. Can be supplied with an integrated High-G triaxial tilt sensor for combined tilt and temperature monitoring.



6 FLATMESH 4G GATEWAY

The FlatMesh 4G Gateway provides all the functionality required to operate a wireless sensor network in a remote location. With a solar panel, no fixed power supply is required. Data is transmitted from the sensors to the Gateway and onwards to a secure cloud-based server and data management platform.





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Código DUNS: 93-432-5300



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