



Rigless Non-explosive Thru-Tubing Isolations

Permanent NeoPEPs



Permanent **NeoPEPs** are thru-tubing mechanical bridge plugs that pass thru small restrictions and set in casing and openhole diameters up to 3½ times their run-in diameter. Standard and NACE MR0175 Compliant Plugs are available.

NeoPEPs can be run and set on electric line, slickline, and coiled tubing.

NeoPEPs facilitate low cost operations that were never before possible.

Plug removal would require drilling and/or milling, followed by pumping, of the plug anchor system.

NeoPEPs have robust anchor systems and elastomeric seals that provide immediate pressure isolation upon setting in casing. Like conventional cast iron bridge plugs, cement must be placed atop **NeoPEPs** if permanent long-term pressure isolation is required.

NeoProducts provides all the non-explosive tools needed for zonal isolation projects;

- High-Expansion Positive-sealing Elastomeric Plug (**NeoPEP**)
- **Neo**Long-Stroke Setting Tool (**NeoHST**)
- Non-Explosive Dump Bailer Systems (**NeoBB** & **NeoHybridPDB**)
- High Shear Bond Cement Slurry Kits (17 - 20 ppg expanding **NeoSuperSlurry**)

NeoPEPs can be set in open holes, cased holes, perforated casing intervals, and gravel packs.

View the Permanent **NeoPEP** animation, [pick here](#).

Contact **NeoProducts** for information regarding Permanent **NeoPEPs** and their non-explosive setting tools (**NeoHSTs**).

Applications

- Rigless zonal isolations and recompletions
- Isolate cross-flow & thief zones
- Water production shut-off
- X-mas tree repairs & replacements
- Wellhead repairs & replacements
- Tubing string repairs and replacements
- Base for frack jobs
- Base for chemical stimulation jobs
- Base for thru-tubing gravel packs
- T&A and P&A operations

Benefits

- **NeoPEPs** facilitate low cost operations that were never before possible.
- Eliminates the burdens related to the presence of, transport and use of explosives
- **NeoPEPs** facilitate optimal exploitation of recoverable reserves (especially applicable to horizontal wells)

Features

- Run thru small restrictions, set in casing and provide ΔP seal
- Removable via drilling and/or milling
- 100% Non-explosive isolation operations, using;
 - Non-explosive setting tool
 - Non-explosive cement plug placement atop **NeoPEP**
 - High shear bond cmt plug assures long-term isolation
- Up to 3-½ : 1 expansion ratio
- Robust Bi-directional anchor system
- Instant pressure isolation
- Standard and NACE MR0175 Compliant Plugs are available.



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1-3/4" NeoPEP Specifications (Permanent - Standard and Sour Service)								
Casing Size (in.)	Casing Weight (lb/ft)	Casing ID	RIH Length	Set Length	RIH Diameter*	Maximum ΔP **	Maximum Crossflow***	Temperature Range
4	9.5-11	3.548-3.476 in. (90.1-88.3 mm)	87.70 in. (2.23m)	49.75 in. (1.26 m)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	75 BPD	ambient - 350°F (ambient - 177°C)
4-½	11-15	4.00-3.83 in. (101.6-97.3 mm)	99.40 in. (2.52m)	53.38 in. (1.36 m)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	100 BPD	ambient - 350°F (ambient - 177°C)
5	18-23	4.276-4.04 in. (108.6-102.7 mm)	99.40 in. (2.52m)	52.50 in. (1.33 m)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	125 BPD	ambient - 350°F (ambient - 177°C)
5-½	14-26	5.012-4.55 in. (127.3-115.5 mm)	99.40 in. (2.52m)	48.70 in. (1.24 m)	1.75 in. (44.5 mm)	2,000 psid (138 bard)	150 BPD	ambient - 350°F (ambient - 177°C)
7	20-35	6.46-6.00 in. (164.0-152.5 mm)	142.88 in. (3.63m)	48.53 in. (1.23 m)	1.75 in. (44.5 mm)	500 psid (34 bard)	300 BPD	ambient - 350°F (ambient - 177°C)

*The 1-3/4" NeoPEP can pass through a minimum restriction of 1.906" and greater ID.

** This value is the maximum differential pressure at the middle of the Casing ID range for the plug without cement at 250°F.

*** These crossflow limits are referring to crossflow from the top of the NeoPEP to the bottom. Contact NeoProducts if you have bottom to top crossflow. The differential pressure between the two perforations must not exceed the differential pressure rating of the NeoPEP.

2-1/8" NeoPEP Specifications (Permanent - Standard and Sour Service)								
Casing Size (in.)	Casing Weight (lb/ft)	Casing ID	RIH Length	Set Length	RIH Diameter*	Maximum ΔP **	Maximum Crossflow***	Temperature Range
4-½	11-15	4.00-3.83 in. (101.6-97.3 mm)	95.42 in. (2.42m)	52.0 in. (1.32 m)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	100 BPD	ambient - 350°F (ambient - 177°C)
5	15-23	4.41-4.04 in. (111.9-102.7 mm)	95.42 in. (2.42m)	51.5 in. (1.31 m)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	125 BPD	ambient - 350°F (ambient - 177°C)
5-½	17-26	4.89-4.55 in. (124.2-115.5 mm)	97.47 in. (2.48 m)	50.0 in. (1.27 m)	2.12 in. (53.8 mm)	2,000 psid (138 bard)	150 BPD	ambient - 350°F (ambient - 177°C)
6-5/8	24-28	5.92-5.79 in. (150.4-147.07 mm)	131.44 in. (3.34 m)	54 in. (1.37 m)	2.12 in. (53.8 mm)	1500 psid (103 bard)	275 BPD	ambient - 350°F (ambient - 177°C)
7	20-35	6.46-6.00 in. (164.0-152.5 mm)	131.44 in. (3.34 m)	55.0 in. (1.40 m)	2.12 in. (53.8 mm)	1500 psid (103 bard)	300 BPD	ambient - 350°F (ambient - 177°C)
7	38-41	5.92-5.82 in. (150.4-147.8 mm)	131.44 in. (3.34 m)	54.0 in. (1.37 m)	2.12 in. (53.8 mm)	1500 psid (103 bard)	300 BPD	ambient - 350°F (ambient - 177°C)
7-5/8	26-39	6.97-6.63 in. (177.0-168.3 mm)	134.38 in. (3.41 m)	53.5 in. (1.36 m)	2.12 in. (53.8 mm)	1000 psid (70 bard)	375 BPD	ambient - 350°F (ambient - 177°C)

*The 2-1/8" NeoPEP can pass through a minimum restriction of 2.281" and greater ID.

** This value is the maximum differential pressure at the middle of the Casing ID range for the plug without cement at 250°F.

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2-5/8" NeoPEP Specifications (Permanent - Standard and Sour Service)								
Casing Size (in.)	Casing Weight (lb/ft)	Casing ID	RIH Length	Set Length	RIH Diameter	Maximum ΔP **	Maximum Crossflow**	Temperature Range
9-5/8	40-53-1/2	8.84-8.54 in. (224.5-216.9 mm)	161.13 in. (4.09m)	72.0 in. (1.83 m)	2.63 in. (66.8 mm)	500 psid (34 bard)	650 BPD	ambient - 350°F (ambient - 177°C)

*The 2-5/8" NeoPEP can pass through a minimum restriction of 2.75" and greater ID.

** This value is the maximum differential pressure at the middle of the Casing ID range for the plug without cement at 250°F.

*** These crossflow limits are referring to crossflow from the top of the NeoPEP to the bottom. Contact NeoProducts if you have bottom to top crossflow. The differential pressure between the two perforations must not exceed the differential pressure rating of the NeoPEP.