

ПОЛИМЕРПРОМ

ООО „POLYMERPROM”

TECHNICAL CATALOGUE



CONTENTS

ABOUT OUR COMPANY

PRODUCTS

- Thread protectors for casing and drilling pipes, tubings and couplings for them.
- Protection pieces for pipework.
- Metallic fiber cradle supports for storage and transportation of casing, drilling pipes and tubings.
- Sealing rings for thread connections of casing pipes and tubings.

OUR CONTACTS



ABOUT OUR COMPANY

ООО „POLYMERPROM” was founded in 2003, in Taganrog, Southern Russia. The main area of business of our company is manufacturing of polymeric products.

Since 2005, ООО „POLYMERPROM” has been developing and manufacturing thread protectors for casing, drilling pipes and tubings as well as protection pieces for pipework.

Being a production-oriented company, we possess qualified personnel and modern efficient equipment by Russian and foreign companies making us able to perform the entire set of operations including pre-production, engineering, tool manufacturing (casting moulds) in cooperation with leading machine-building companies.

Production of polymeric parts on modern injection-molding machines allows us to manufacture parts of any difficulty category and with the weight up to 2.8 kg. Painting is performed by electrostatic or tribostatic spraying and is ecologically safe.



POLYMERPROM



Equipment used for manufacturing of protectors conforms to all modern standards. Usage of numeric controlled machines renders it possible to unify production of workpieces and ensure the production of high precision threading of necessary profiles.

Our company has developed and implemented a modern quality management system conforming to requirements of the international standard ISO 9001.

The main principles of OOO „POLYMERPROM” in the sphere of quality are:

Consumer orientation, understanding of the consumer's needs and tasks; the aspiration to exceed the customer's expectations.

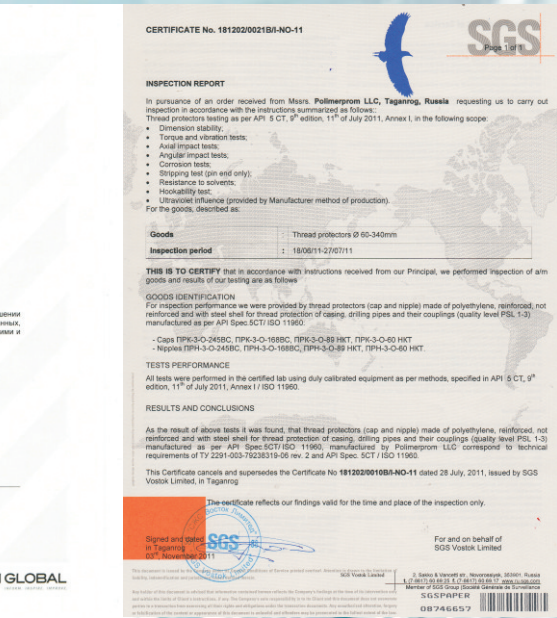
Continuous and stable increase of quality factors.

Continuous increase of production efficiency due to the process approach to management and the system concept of process monitoring.





OOO „POLYMERPROM“ offers author products protected by international patents. High quality of our products helped us to be enrolled to the approved supplier list of the TMK Group as a supplier of threading protectors and joint products. The quality of manufactured products meets the requirements of the standard API Spec.5CT/ISO 11960 and is confirmed by the certificate of SGS (Société Générale de Surveillance).





PRODUCTS

Polyethylene thread protectors: reinforced, non-reinforced and with steel shell intended for protection of threads of casing pipes and tubings with couplings, having the following quality levels: PSL-1, PSL-2 and PSL-3, manufactured to TU, GOST and API Spec.5CT rev. 9, manufactured to TU 22910003-7923819-06.



Usage of products

Pipes comprise a large proportion of operational costs of oil companies. During transportation, handling and storage from the moment of manufacturing to arrival to the well site the pipes are exposed to various dangerous factors which can lead to damage of pipes. Such situations occur, for example, during transshipment from rail cars to vessels or lorry vehicles, as damages may be caused by wrong fixation during transportation or corrosion during storage. Damages on thread and sealing surfaces of pipes cost the industry hundreds of millions dollars annually.

Thread protectors are used for reliable protection of pipes from negative impact of external factors because the most serious damages occur on pipe ends. A properly designed and manufactured protector guarantees reliable protection of threading and sealing pipe ends as well as couplings.

Protectors should absorb direct and lateral impacts at temperature from minus 46 to plus 66°C, protect sealing surfaces from mechanical damages and humidity, be vibration resistant and able to sustain axial tension because they are sometimes used for lifting and dragging of pipes.

Direct impacts are possible when manipulating the pipe in restricted space, for example, rail car, vessel, lorry vehicle or in case of any other horizontal movement of the pipe. Lateral impacts are possible when lifting the pipe or if it falls down, for example, while being placed to the drill site bench, ground or other pipes.

Vibrational loads during rail or auto transportation may cause loosening and self-removal of protector with further damage to threading and sealing surfaces of pipes.

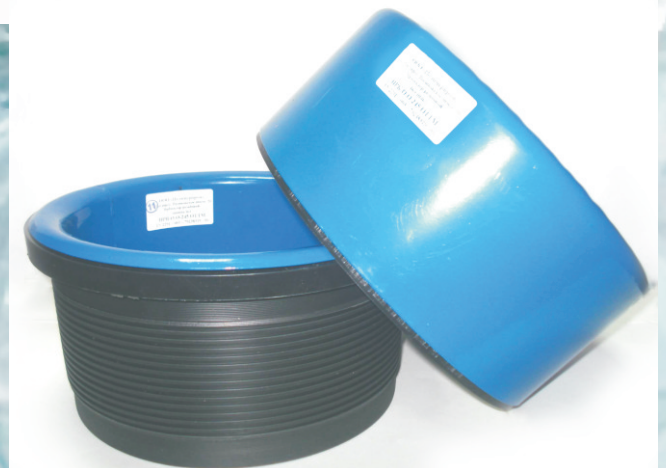
Thread protectors are chosen at will of a metallurgical company-manufacturer of pipes or a company ordering pipes following the requirements of API 5CT/ISO 11960.

OOO "POLYMERPROM" produces external (caps) and internal (nipples) polymeric thread protectors with or without steel shell, reinforced open and close type, intended for protection against mechanical damages of treated surfaces of pipes and couplings during ordinary handling and transport operations, against ingress of dust or moisture into threading during transportation or storage period, at working temperatures from -46°C to +66°C. On the customer's request (under an additional contract), it is possible to negotiate on other working parameters.

Design and material of protectors are in compliance with requirements of API 5CT/ISO 11960. External protectors cover the full length of threading; internal protectors cover the equivalent full length of internal threading of the coupling.

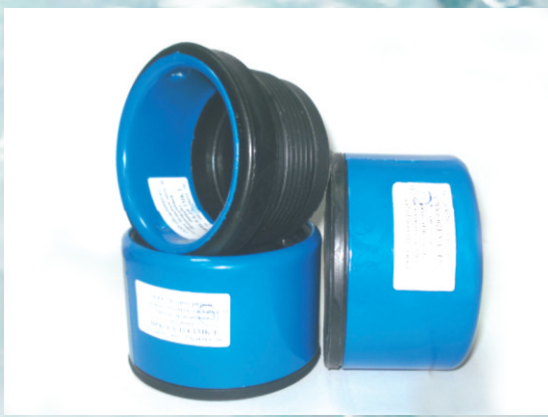
Thread protectors (cap and nipple) for protection of threaded connections of conventional casing pipes.

Pipe size designation, in	Nominal pipe diameter, mm	Connection type					
		OTTM	BC	LC	STC	OG-1M	VMZ-1
4 1/2	114	+	+	+	+		
5	127	+	+	+	+		
5 1/2	140	+	+	+	+	+	
5 3/4	146	+	+	+	+		+
6 5/8	168	+	+	+	+		+
7	178	+	+	+	+		
7 5/8	194	+	+	+	+	+	
8 5/8	219	+	+	+	+		
9 5/8	245	+	+	+	+		
10 3/4	273	+	+	+	+		
11 3/4	299	+	+	+	+		
12 3/4	324	+	+	+	+		
13 3/8	340	+	+	+	+		



Thread protectors (cap and nipple) for protection of „Premium” thread connections of casing pipes.

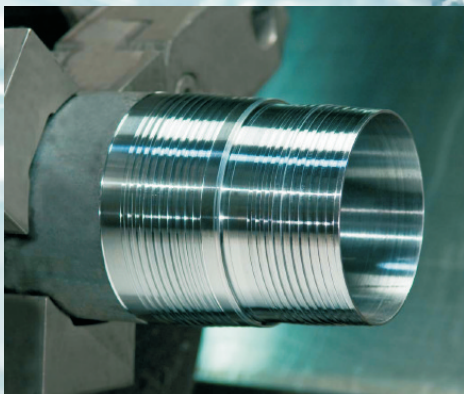
Pipe size designation, in	Nominal pipe diameter, mm	Connection type									
		OTTG	TMK GF	TMK PF	TMK FMC	TMK TTL-01	TMK PF ET	TMK CS	TMK 1	TMK-2	
4	102									+	
4 1/2	114		+	+	+			+	+	+	
5	127	+	+	+	+			+	+		
5 1/2	140	+	+	+	+			+	+	+	+
5 3/4	146	+	+	+	+						
6 5/8	168	+	+	+	+			+			+
7	178	+	+	+	+			+			
7 5/8	194		+	+	+			+			+
8 5/8	219	+	+	+	+	+	+				
9 5/8	245	+	+	+	+	+					
10 3/4	273		+	+		+					
11 3/4	299										
12 3/4	324	+	+	+	+	+					
13 3/8	340		+	+	+						



Thread protectors (cap and nipple) for protection of premium thread connections “ULTRA tm”.

Pipe size designation, in	Nominal pipe diameter, mm	Connection type				
		ULTRA FJ	ULTRA SF	ULTRA QX	ULTRA DQX	ULTRA FX
4	102	+				+
4 1/2	114	+	+	+	+	+
5	127	+	+	+	+	+
5 1/2	140	+	+	+	+	+
6 5/8	168	+	+	+	+	
7	178	+	+	+	+	
7 5/8	194	+	+	+	+	
8 5/8	219	+	+	+	+	
9 5/8	245	+	+	+	+	
10 3/4	273	+	+	+	+	
11 3/4	299	+	+	+	+	
11 7/8	302	+	+	+		
13 3/8	340	+	+	+	+	

OOO „POLYMERPROM” is the only Russian company having the right to produce protectors for pipes with premium connection of the “ULTRA tm” line-up.



Thread protectors (cap and nipple) for protection of premium thread connections of conventional tubings and „Premium” class.

Pipe size designation, in	Nominal pipe diameter, mm	Connection type				
		NKT (NU)	NKV (EU)	NKM	TMK FMT	NKTU
-	48	+	+			
2 3/8	60	+	+	+	+	+
2 7/8	73	+	+	+	+	+
3 1/2	89	+	+	+	+	+
4	102	+	+	+		+
4 1/2	114	+	+	+	+	



Thread protectors (cap and nipple) made of polyethylene, reinforced, non-reinforced and with steel shell for protection of tool joint thread of drill pipes produced to TU, GOST, and API Spec. DP, TU 2291-004-79238319-07.



Protectors for tool joints

Designation of tool joint thread to GOST 5286	Designation of tool joint thread to API Spec 7	Thread pitch, mm	Conicity	Profile form to GOST 5286	Profile form to API Spec 7	
3-65	NC-23	6,35	1:6	1V	V-0,038R	+
3-66	2 3/8Reg	5,08	1:4	1	V-0,40	+
3-73	NC-26	6,35	1:6	1V	V-0,038R	+
3-76	2 7/8Reg	5,08	1:4	1	V-0,40	+
3-86л/п	NC-31	6,35	1:6	1V	V-0,038R	+
3-88	3 1/2Reg	5,08	1:4	1	V-0,40	+
3-94	NC-35	6,35	1:6	1V	V-0,038R	+
3-101	3 1/2Reg	5,08	1:4	1	V-0,40	+
3-102	NC-38	6,35	1:6	1V	V-0,038R	+
3-108	NC-40	6,35	1:6	1V	V-0,038R	+
3-117	4 1/2Reg	5,08	1:4	1	V-0,40	+
3-118	NC-44	6,35	1:6	1V	V-0,038R	+
3-121	4 1/2FH	5,08	1:4	1	V-0,40	+
3-122 Т л/п	NC-46	6,35	1:6	1V	V-0,038R	+
3-133 Тл/п	NC-50	6,35	1:6	1V	V-0,038R	+
3-140	5 1/2Reg	6,35	1:4	II	V-0,50	+
3-147 Тл/п	5 1/2FH	6,35	1:6	III	V-0,50	+
3-149	NC-56	6,35	1:4	V	V-0,038R	+
3-152 л/п	6 5/8Reg	6,35	1:6	III	V-0,50	+
3-163	NC-61	6,35	1:4	V	V-0,038R	+
3-171	6 5/8Reg	6,35	1:6	III	V-0,50	+
3-177	7 5/8Reg	6,35	1:4	II	V-0,50	+



Protectors for high-torque tool joints

Designation of tool joint thread to GOST 5286	Thread pitch, mm	Conicity	Profile form
Z-81U	8,4667	1:9,6	V-21/17
Z-83	8,4667	1:9,6	V-21/17



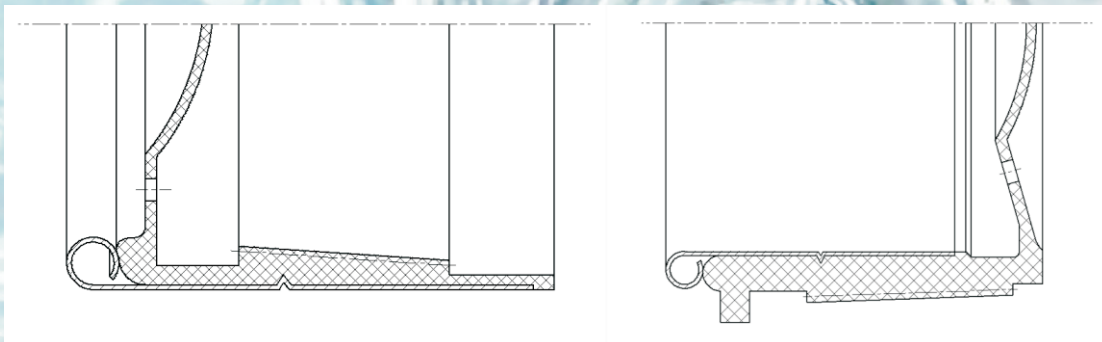
DESIGN VARIANTS OF THREAD PROTECTORS

Thread protectors (cap and nipple) of any type presented in the given catalogue may be produced in various design variants according to the customer's wish.

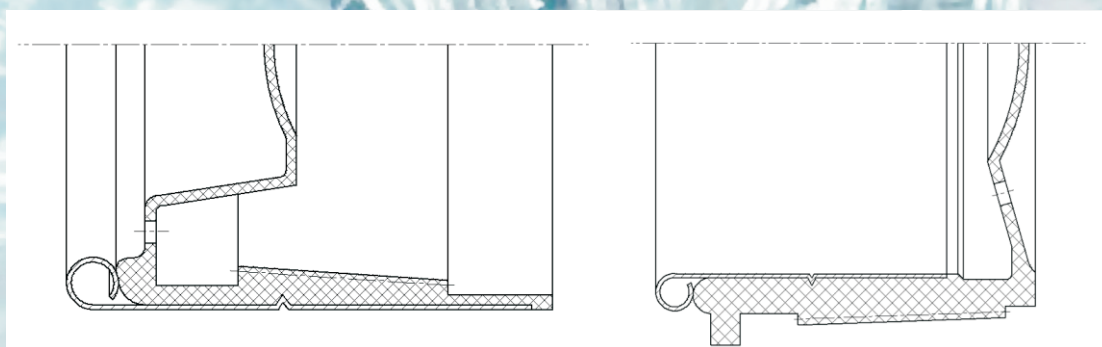


Any combination of design variants, for example, CORONA type with open bottom or LIFTABLE bottom type is available at customer's option.

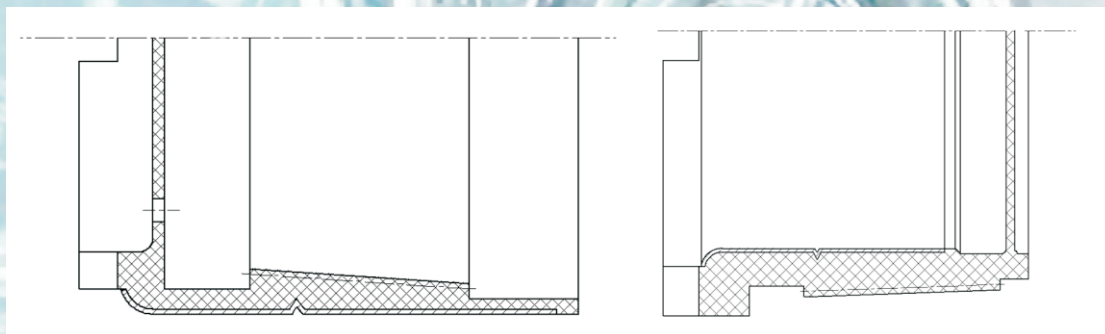
DESIGN VARIANT 1
Protector (cap and nipple)
for casing pipes with a concave bottom.



DESIGN VARIANT 2
Protector (cap and nipple)
for casing pipes, type LIFTABLE

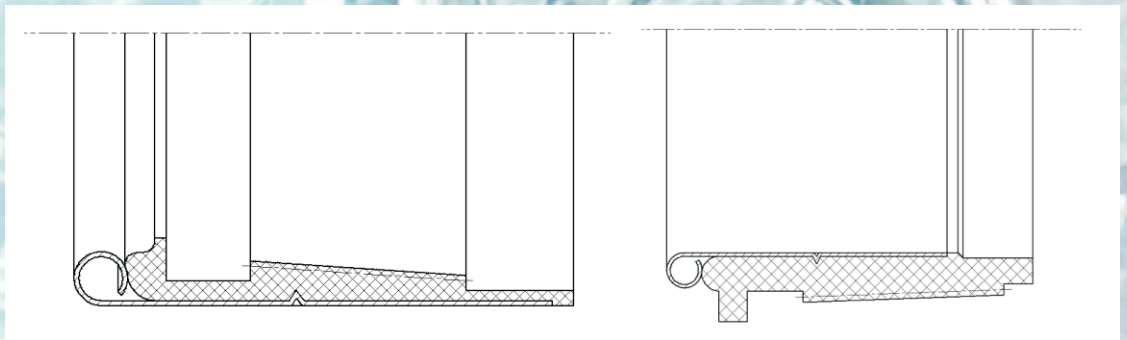


DESIGN VARIANT 3
Protector (cap and nipple)
for casing pipes with a flat bottom, "CORONA" type.

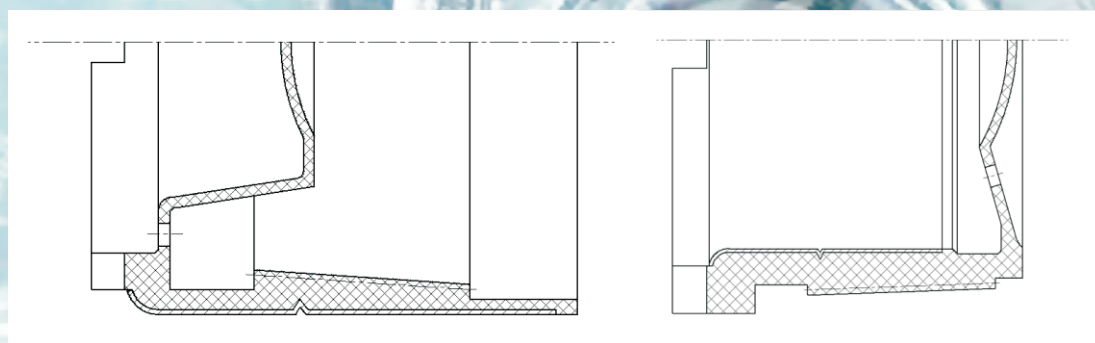


DESIGN VARIANT 4

Protector (cap and nipple)
for casing pipes, open type.



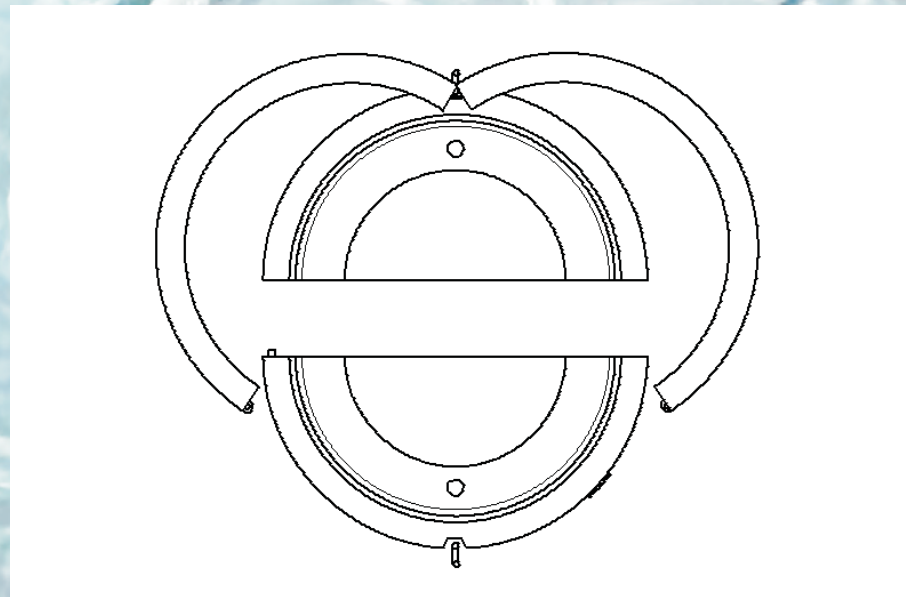
DESIGN VARIANT 5
Protector (cap and nipple)
for casing pipes, type LIFTABLE + "CORONA"



DESIGN VARIANT 6

Protector (cap), knock-down quick-detachable*

Knock-down quick-detachable protector (cap) is designed to decrease time and efforts spent on release of thread pipe ends. To remove the knock-down protector, it's enough to withdraw lock pins holding the cap pieced together.



* available for diameters larger than 140 mm.



PROTECTION PIECES

Protection pieces (caps and plugs) made of polyethylene for protection of pipe ends of pipework and large-diameter pipes manufactured to TU, GOST and API

Spec.5L

TU 2292-02-70659485-2005

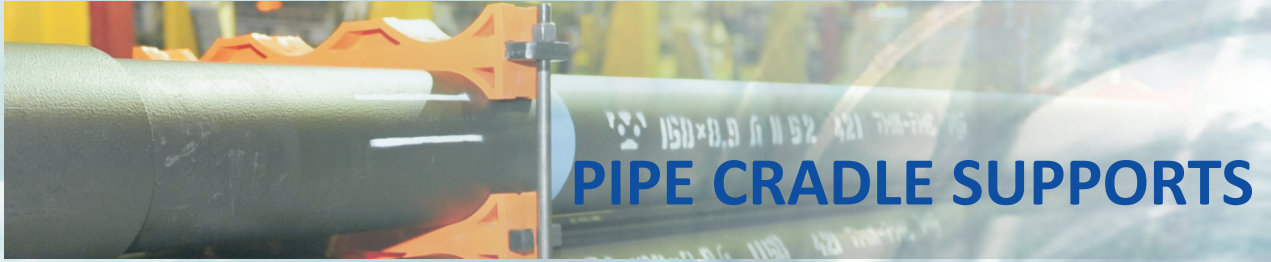


Protection pieces (caps and plugs) for protection of pipe ends.

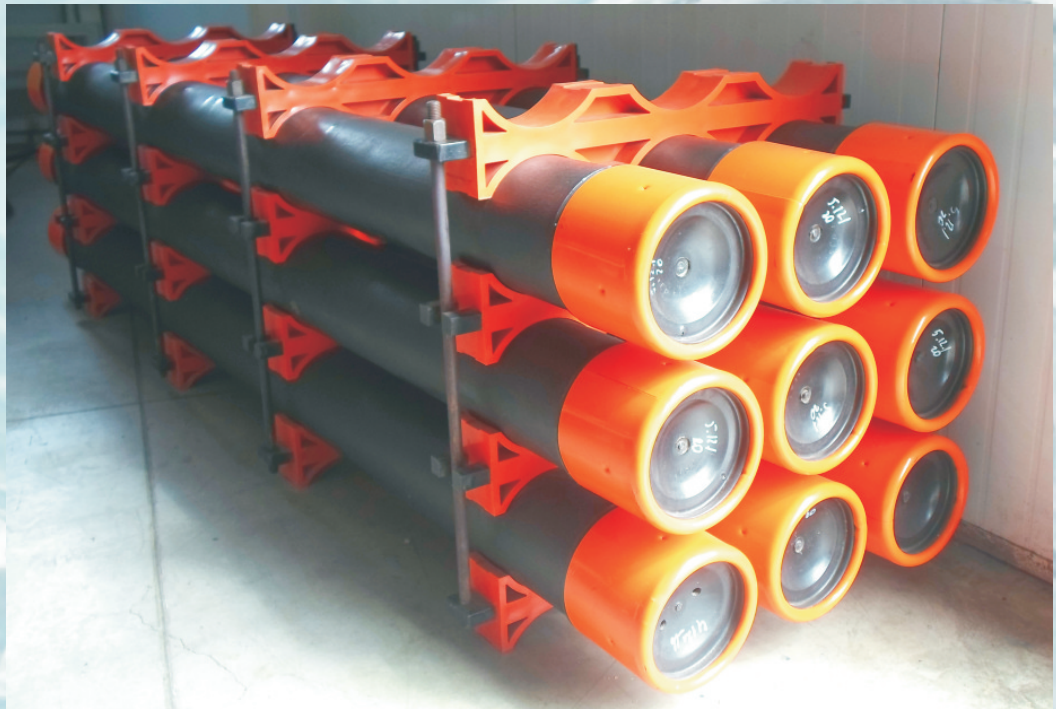
Plugs of specified nominal sizes are produced for the entire range of wall thicknesses.

Product type	Nominal pipe diameter													
	89	114	120	127	140	146	168	178	194	219	245	273	324	340
Ordinary	+	+		+	+	+	+	+	+	+		+		
Reinforced				+	+		+			+				



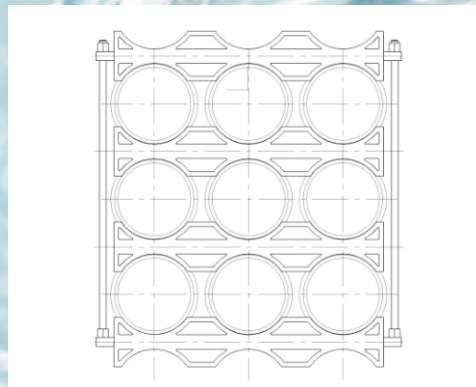
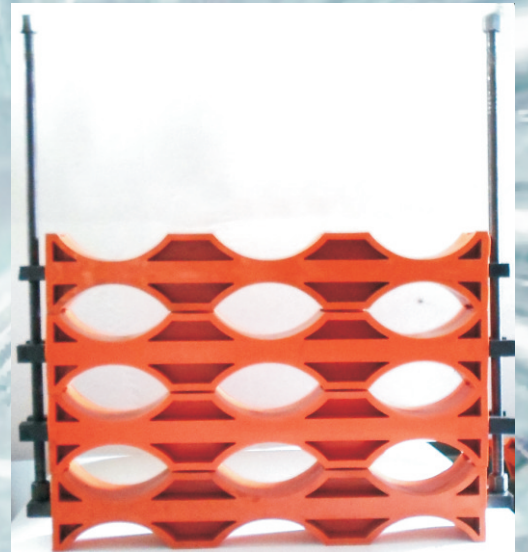


Metallic fiber cradle supports for package, storage and transportation of casing, drill pipes and tubings produced to TU, GOST, API Spec.5CT and API Spec.5DP



Metallic fiber cradle supports for storage and transportation of casing, drill pipes and tubings.

Cradle support sets	Nominal pipe size													
	73	89	114	120	127	140	168	178	194	219	245	273	324	340
“Economic”	+	+	+	+	+	+	+	+	+	+	+	+	+	+
“Normal”	+	+	+	+	+	+	+	+	+	+	+	+	+	+
“Offshore”	+	+	+	+	+	+	+	+	+	+	+	+	+	+



SEALING RINGS

Polymeric rings for sealing of thread connections of casing pipes and tubings produced to TU, GOST and API Spec.5CT



Polymeric O-rings for sealing of threads of casing pipes and tubings.

Connection type	Nominal pipe diameter										
	114	120	127	140	146	168	178	194	219	245	273
OTTM	+	+	+	+	+	+	+	+	+	+	+
BC	+	+	+	+	+	+	+	+	+	+	+



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Note:

All information contained in this catalogue is indicative only and should be specified when making the order.