mec s.a.

SUCKER ROD PUMPS BARRELS





















OILFIELD PRODUCTS PRODUCTION

Product overview

We manufacture downhole pump barrels under a quality management system focused on the requirements of ISO 9001.

Regarding quality control processes, our barrels have inspection and testing plans at different stages, from receipt of raw materials to the final packaging.

Barrels have as a critical variable the diametral tolerance (external and internal), righteousness, internal roughness, and size of the thread. For the case of hard chrome plated barrels, also is added to the above listed, the adhesion of the chrome layer, the type of plating, and the surface hardness , all referring to the layer of chromium deposited

Quality control is carried out on each piece produced ensuring compliance with the specifications offered , which meet the requirements of product standard API 11AX .

We are oriented to provide barrels to downhole pump manufacturers where volume of production or factory integration , requires full barrel supply, or barrel supply without threads at the ends. For this reason we also apply the type and color of exterior paint coating we are requested, as well as the marking requirement. In resume, we can supply the barrels as the customer requests, including color and type of paint to protect from outside. MEC offers barrels with different materials and finishes, which are detailed in the present document.

Materials

a) Carbon Steel (S)
Carbon steel tube with a hardness of 55/62 HRa and minimum yield stress of 415 MPa (60 ksi).

b) Stainless Steel (I)
Stainless steel tube with 4-6% chromium content, hardness of 55 to 62 HRa and minimum yield stress of 485 MPa (70 ksi).

Coatings

a) Hard Chrome ©
Hard chrome plating, with a minimum thickness of the layer of chromium radial 0.003 "(0.076 mm) and a surface hardness HV of 900-1160 (67/71 HRC).

b) Hard Chrome Dual Layer (H)
Hard chrome plating, with a minimum thickness of the chrome layer of 0.006 Radial "(0.0152 mm) and a surface hardness HV of 900-1160 (67/71 HRC).

API 11AX Nomenclature of materials according to the coatings:

a) Material S with C plating: A1
b) Material S with H plating: A6
c) Material I with C plating: A3

MEC reserves the right to change the technical specifications of the products manufactured without notice.

Critical suppliers:

The oil market is very demanding in terms of quality and continuity of supplies, therefore the suppliers of materials and supplies are very critical. MEC has as its two main suppliers, the following top-rated companies:

a) Tubes: **Tenaris**

b) Hard Chrome: **Atotech**

Identification

Our barrels are identified as follows:

B X X X X X X X

Endpoints:
- **R** Threaded
- **C** With recess for later threaded
- **N** Unprocessed

Long:
- **XX** From 12 feet to 26 feet in increments of 1 or 2 feet

Coating:
- **C** Chromed
- **H** Chromed high layer
- **N** Unprocessed

Material:
- **S** Carbon Steel
- **I** Stainless

Type of barrel:
- **XX** From the A1 type to F4. (See tables)

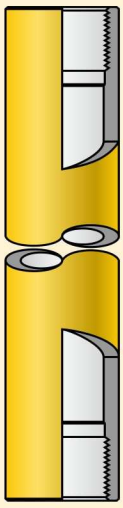
Identification of the piece:
- **B** Barrel

Sizes or Dimensions

MEC has no restrictions on the barrel diameter. The usual length reaches 26 feet. For longer barrels please contact us. Below you can see the tables detailing the different barrels offered.

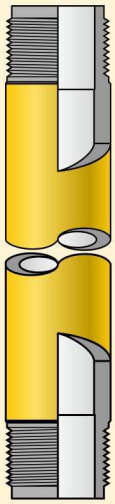
Barrel, Thin Wall (Rod Pump)

Type	API Number	OD		ID		Thread
		(in)	(mm)	(in)	(mm)	(in)
A1	B11-125	1,510 / 1,490	38,35 / 37,85	1,252 / 1,250	31,80 / 31,75	1,3330-16
A2	B11-150	1,760 / 1,740	44,70 / 44,20	1,502 / 1,500	38,15 / 38,10	1,5730-16
A3	B11-200	2,260 / 2,240	57,40 / 56,90	2,002 / 2,000	50,85 / 50,80	2,0870-16
A4	B11-250	2,760 / 2,740	70,10 / 69,60	2,502 / 2,500	63,55 / 63,50	2,5730-16



Barrel, Heavy Wall (Rod Pump)

Type	API Number	OD		ID		Thread
		(in)	(mm)	(in)	(mm)	(in)
F1	B16-125	1,635 / 1,615	41,52 / 41,02	1,252 / 1,250	31,80 / 31,75	1,3330-16
F2	B16-125	1,760 / 1,740	44,70 / 44,20	1,252 / 1,250	31,80 / 31,75	1,3330-16
F3	B16-150	1,885 / 1,865	47,87 / 47,37	1,502 / 1,500	38,15 / 38,10	1,5730-16
F4	B16-200	2,322 / 2,302	58,97 / 58,47	2,002 / 2,000	50,85 / 50,80	2,0870-16



Barrel, Heavy Wall (Rod Pump)

Type	API Number	OD		ID		Thread
		(in)	(mm)	(in)	(mm)	(in)
B1	B12-106	1,438 / 1,310	36,52 / 33,27	1,065 / 1,063	27,04 / 26,99	1,3125-16
B2	B12-125	1,760 / 1,600	44,70 / 40,64	1,252 / 1,250	31,80 / 31,75	1,5730-16
B3	B12-150	2,260 / 1,850	57,40 / 46,99	1,502 / 1,500	38,15 / 38,10	1,8750-16
B4	B12-175	2,260 / 2,100	57,40 / 53,34	1,752 / 1,750	44,50 / 44,45	2,0870-16
B5	B12-225	2,760 / 2,600	70,10 / 66,04	2,252 / 2,250	57,20 / 57,15	2,5730-16

Barrel, Heavy Wall (Tubing Pump)

Type	API Number	OD		ID		Thread
		(in)	(mm)	(in)	(mm)	(in)
C1	B13-175	2,260 / 2,230	57,40 / 56,64	1,752 / 1,750	44,50 / 44,45	2,2380-11,5
C2	B13-225	2,760 / 2,730	70,10 / 69,34	2,252 / 2,250	57,20 / 57,15	2,7380-11,5
C3	B13-275	3,260 / 3,230	82,80 / 82,04	2,752 / 2,750	69,90 / 69,85	3,2380-11,5
C4	B13-375	4,260 / 7,773	108,20 / 197,44	3,752 / 3,750	95,30 / 95,25	4,2380-11,5

Example of the selection

BB3IH16R = Barrel B12-150 (1.50 inch inside diameter), stainless steel, chromed high layer inside, 16 feet in length, and threaded ends

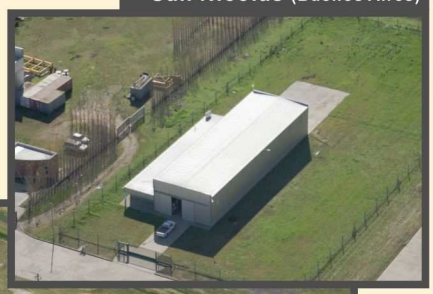
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Associated companies:

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