

PRO BEARING

Produttori di cuscinetti per
l'industria pesante
Bearings manufacturer for
the heavy industry



Drilling Materials

Drilling Material

Brake Drilling Oil & Gas

BRAKE DRILLING OIL & GAS

For the oil and gas sector Ima can supply different braking solutions, standard as per API brake block code specifications or custom made, with long lasting and silent friction materials during machining. These items are suitable for OnShore/OffShore machining. The company has the ability to create preformed and drilled brake blocks complete with screws and bolts.



Creation on drawing of braking details:

Perforation blocks in SWR material
Preformed pile driver brake
Friction material in roll suitable SWR

Made with a revolutionary formula, this material has excellent friction properties, minimal wear and excellent stability even in high temperature applications.

Chemical/Material Composition:

SWR material is asbestos-free, loosely woven, composed of finely carded fibers and brass wire.

It is a dense, hard material and exhibits resistance to heat and compression when placed under load.

It is not affected by small contamination of oil and/or water and grease.



Technical Advantages:

Very low decibel noise emission both in drilling (rotary and sliding) and in maneuvering.

Ability to dissipate heat even above 250°C, avoiding the formation of cracks or hardening of the ferode.

Consequently we have a greater mechanical seal and a durability twice or three times as long as the classic fabric ferode or similar currently on the market. Greater braking coefficient, hence smoother stops and less jolting. There is no wear around the bolt, so there is no play between the ferrule and the drum and, consequently, the usual vibrations are eliminated. consequently, the usual vibrations are eliminated.

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DRILLING MANUAL

Information in this Section is adapted from API Spec 7, Section 18.

I. Service

Brake Blocks for various types of services such as sand reel, draw works, hoisting drum, servicing rigs, etc., furnished to this specification shall conform to requirements given in Tables F1-1 and 2

II. Thickness

Brake block thickness is not stipulated for any given block size. However, several standard thicknesses are provided. When ordering blocks according to this specification, it is necessary to specify block thicknesses and brake rim diameter.

III. Screws

Screws for fastening brake blocks to the brake bend, shall be 3/8" in 120° flathead, brass machine screws as shown in Figure F1-1. Screw threads shall be 3/8"-16 UNC-2A.

Table F1-1
4 Hole API brake Block

All Dimensions in inches

1	2	3	4
API Block No.	D	E	F
10	6	1 1/2	3 1/2
11	7	1 1/2	4
12	8	1 1/2	5
13	9	1 1/2	6
14	10	1 1/2	7

Brake Block Thickness				
T	5/8	3/4	7/8	1

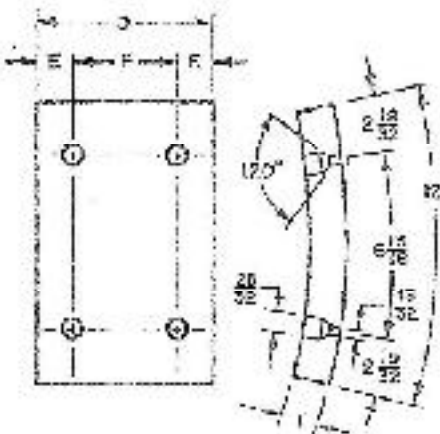


Figure F1-1
4 Hole API brake Block

BRAKES

Brake Block Specification

IV. Marking

Brake blocks conforming to this specification shall be marked with the manufacturer's name or mark, the API monogram, the block number and the block thickness.

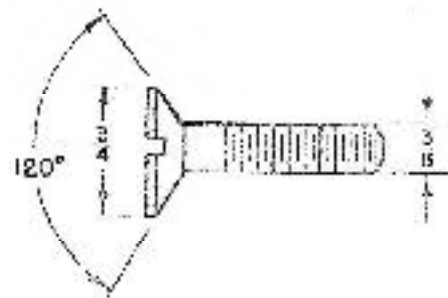


Figure F1-2
120° Flathead Machine Screw

Table F1-2
6 Hole API brake Block

All Dimensions in inches

1	2	3	4
API Block No.	A	B	C
1	6	1 1/4	3 1/2
2	7	1 1/2	4
3	8	1 3/4	4 1/2
4	9	2	5
5	10	2 1/4	5 1/2
6	11	2 1/2	6
7	12	2 3/4	6 1/2

Brake Block Thickness						
T	5/8	3/4	7/8	1	1 1/8	1 1/4

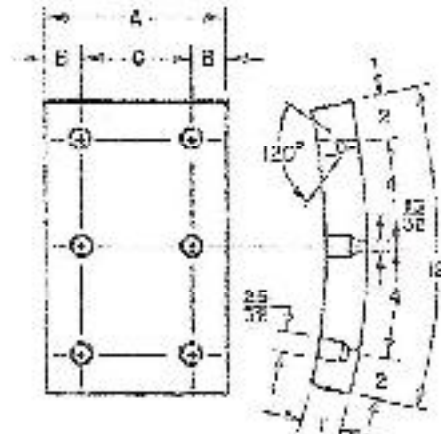


Figure F1-3
6 Hole API brake Block

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