



C11—Cage, Top Open

Sucker rod thread	Part No.	API No.
3/4"	C11-20 (XX)	C11-20
3/4"	C11-25 (XX)	C11-25
3/4"	C11-30 (XX)	C11-30
7/8"	C11-30-7/8 (XX)	_
7/8"	C11-40-7/8 (XX)	_
1"	C11-40 (XX)	C11-40



The upper open bonnet is standard on tubular pumps. The upper part is connected with the sucker rod string, the lower part is connected with the plunger, and the traveling valve is placed in it. Material selection and structural strength are the key factors in product design. In order to strengthen the protection of the valve hood, there are alloy lined valve hood designed for thermal production and high flushing oil Wells. There is a rubber lined valve cover designed for cold production and high stroke oil Wells.

Note:

1) "XX" is Material identification symbol.

C11A—Cage, Top Open, Hard Lined

Sucker rod thread	Part No.	Replaceable API standard parts
3/4"	C11A-20 (XX)	C11-20
3/4"	C11A-25 (XX)	C11-25





3/4"	C11A-30 (XX)	C11-30
7/8"	C11A-30-7/8 (XX)	_
7/8"	C11A-40-7/8 (XX)	_
1"	C11A-40 (XX)	C11-40

Note:

- "XX" is Material identification
 symbol;
- 2) Internal surface hard alloy surfacing for valve ball guidance, hardness 35HRC ~ 45 HRC, thickness of one side 0.050in ~ 0.125 in (1.27mm ~ 3.175 mm);
- 3) With hard alloy valve ball, it can protect the cage.

C11R—Cage, Top Open, Hard Lined

Sucker rod thread	Part No.	Replaceable API standard parts
3/4"	C11R-20 (XX)	C11-20
3/4"	C11R-25 (XX)	C11-25
3/4"	C11R-30 (XX)	C11-30
7/8"	C11R-30-7/8 (XX)	<u> </u>
1"	C11R-30-1 (XX)	_
7/8"	C11R-40-7/8 (XX)	P -
1"	C11R-40 (XX)	C11-40



Note:

- 1) "XX" is Material identification symbol;
- 2) Inner surface lined with hydrogenated nitrile rubber for valve ball guidance, Hardness HA85-95, temperature resistance 120 $\,^{\circ}\text{C}\,$;
- 3) It can protect the valve ball in high stroke wells and sand-containing wells.

C12—Cage, Top Plunger

The plunger upper valve hood is a standard component on rod type oil pumps. The upper part is connected with the valve stem, the lower part is connected with the plunger, and the traveling valve is placed in it. Material selection and structural strength are the key factors in product



design. There are material selection and structural strength design for the breaking of the connecting valve stem. Similarly, in order to strengthen the protection of the valve hood, there are alloy lined valve hoods designed for thermal production and high flushing oil Wells; There is a rubber lined valve cover designed for cold production and high stroke oil Wells.

Valve rod	Part No.	API No.	Lq, mm
11/16"	C12-106 (XX)	C12-106	19.10
11/16"	C12-125 (XX)	C12-125	19.10
11/16"	C12-150-20 (XX)	C12-150-20	19.10
7/8"	C12-150-25 (XX)	C12-150-25	19.10
7/8"	C12-175 (XX)	C12-175	19.10
7/8"	C12-200 (XX)	C12-200	19.10
1 1/16"	C12-225 (XX)	C12-225	19.10
1 1/16"	C12-250 (XX)	C12-250	19.10
1 1/4"	C12-325 (XX)	<u> </u>	19.10



- 1) "XX" is Material identification symbol.
- 2) Lq is the counterbore depth at the thread end of the pipeline.

C12M—Cage, Top Open

Valve rod	Part No.	API No.	Lq, mm
11/16"	C12M-106 (XX)	C12M-106	38.10
11/16"	C12M-125 (XX)	C12M-125	38.10
11/16"	C12M-150-20 (XX)	C12M-150-20	38.10
7/8"	C12M-150-25 (XX)	C12M-150-25	38.10





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7/8"	C12M-175 (XX)	C12M-175	38.10	
7/8"	C12M-200 (XX)	C12M-200	38.10	
1 1/16"	C12M-225 (XX)	C12M-225	38.10	Note:
1 1/16"	C12M-250 (XX)	C12M-250	38.10	1
1 1/4"	C12M-325 (XX)	_	38.10	

is Material

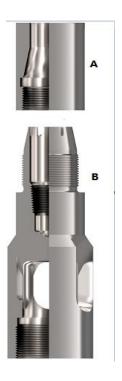
1) "XX"

identification symbol;

2) Lq is the counterbore depth at the thread end of the pipeline. The increase in Lq length effectively reduces the occurrence of fractures at the valve rod threads, suitable for deep well and high SPM well.

C12Q—Cage, Top Open, Collet Type

Valve rod	Part No.	API No.
11/16"	C12Q-106 (XX)	C12Q-106
11/16"	C12Q-125 (XX)	C12Q-125
11/16"	C12Q-150-20 (XX)	C12Q-150-20
7/8"	C12Q-150-25 (XX)	C12Q-150-25
7/8"	C12Q-175 (XX)	C12Q-175
7/8"	C12Q-200 (XX)	C12Q-200
1 1/16"	C12Q-225 (XX)	C12Q-225
1 1/16"	C12Q-250 (XX)	C12Q-250
1 1/4"	C12Q-325 (XX)	_
1 1/2"	C12Q-325 (XX) D	_



Note:

1) "XX" is Material identification symbol;

2) Product structure can effectively avoid tripping and breakage of the root of valve rod thread, and be suitable for deep well and high SPM well.

C13—Cage, Closed, Pin Plunger

Exposed grain plunger closed valve hood is the standard part on the plunger of the oil pump. Places the traveling valve inside. There is a large flow channel structure designed for the flow channel area; There is a guide structure for inclined Wells to shorten the drop time of the valve ball. In order to strengthen the protection of the valve hood, there is a valve hood with alloy lining designed for thermal recovery and high flush-rate oil Wells, and a valve hood with insert cage structure. There is a rubber lined valve cover designed for cold production and high flushing oil Wells. There is an anti-air lock hood designed for air lock.

Part No.	API No.
C13-106 (XX)	C13-106
C13-125 (XX)	C13-125
C13-150 (XX)	C13-150
C13-175 (XX)	C13-175
C13-200 (XX)	C13-200
C13-225 (XX)	C13-225
C13-250 (XX)	C13-250
C13-275 (XX)	C13-275
C13-375 (XX)	C13-375





- 1) "XX" is Material identification symbol;
- 2) Ball cavity guidance, reduce the ball swing, and make the valve ball fall quickly.
 - 3) It is suitable for inclined well.

C13P—Cage, Closed, Pin Plunger, Flat Type

Part No.	API No.
C13P-106 (XX)	C13-106
C13P-125 (XX)	C13-125
C13P-150 (XX)	C13-150
C13P-175 (XX)	C13-175
C13P-200 (XX)	C13-200
C13P-225 (XX)	C13-225
C13P-250 (XX)	C13-250
C13P-275 (XX)	C13-275
C13P-375 (XX)	C13-375



- 1) "XX" is Material identification symbol;
- 2) Large runner area without guidance, reducing heavy oil flow resistance.
 - 3) It is suitable for wells with sufficient fluid or heavy oil.

C13A—Cage, Closed, Pin Plunger, Hard Lined

Part No.	API No.
C13A-106 (XX)	C13-106
C13A-125 (XX)	C13-125
C13A-150 (XX)	C13-150
C13A-175 (XX)	C13-175
C13A-200 (XX)	C13-200
C13A-225 (XX)	C13-225
C13A-250 (XX)	C13-250
C13A-275 (XX)	C13-275
C13A-375 (XX)	C13-375



- 1) "XX" is Material identification symbol;
- 2) Internal surface hard facing for valve ball guidance, hardness 35HRC~45HRC, per side thickness 0.050in~0.125in
- (1.27mm~3.175mm);
- 3) With hard alloy valve ball, it can protect the cage.

C13FQ—Cage, Closed, Pin plunger

Part No.	API No.
C13FQ-125 (XX)	C13-125
C13FQ-150 (XX)	C13-150
C13FQ-175 (XX)	C13-175
C13FQ-200 (XX)	C13-200
C13FQ-225 (XX)	C13-225
C13FQ-250 (XX)	C13-250





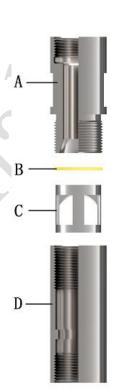
C13FQ-325 (XX) —

Note:

- 1) "XX" is Material identification symbol;
- 2) It is used with C14FQ in anti-gas rod pump.

C13L—Cage, Closed, Pin Plunger, Insert

Part No.	A	В	С	D
C13L-125				
C13L-150		red copper/Press ure-resistant combination washer	Steel/Alloy	Steel/Alloy
C13L-175	G4-11:4-		steel	steel
C13L-200	Stellite		/Nickel copper alloy	/Nickel copper alloy
C13L-225			/Brass	/Brass
C13L-250				. 7



- 1) A Stellite alloys have high wear resistance and erosion resistance;
 - 2) The cage has a large flow passage area.

C13R—Cage, Closed, Pin Plunger, Rubber Lined

Part No.	API No.
C13R-175 (XX)	C13-175
C13R-200 (XX)	C13-200
C13R-225 (XX)	C13-225
C13R-250 (XX)	C13-250
C13R-275 (XX)	C13-275
C13R-375 (XX)	C13-375





Note:

- 1) "XX" is Material identification symbol;
- 2) The inner surface is lined with hydrogenated nitrile rubber for valve ball guidance, hardness HA85-95, temperature resistance 120 $^{\circ}$ C;
- 3) It can protect the valve ball in high SPM wells and sand-containing wells.



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