

## YFZ-A型机械式分级注水泥器

Model YFZ-A Mechanical Stage Collar

### 特点

1. 防转机构可确保钻内套时不会损坏关闭套;
2. 打开、关闭时, 均不存在小腔液体压缩问题;
3. 全部附件均由可钻性好的材料制成, 容易钻除;
4. 配合顶替型打开塞, 可用于连续分级注水泥作业。

### Features

1. Anti-rotation mechanism protects the closing sleeve from damage while drilling out the opening and closing seats.
2. No fluid trapping while opening and closing the ports.
3. All internal parts are made of easily drillable material.
4. A Pump-Down Opening Plug can be used for a continuous two-stage cementing operation.

### 技术参数 Specifications

套管规格 Casing Size	最大外径 Max O.D.		最小内径 Min. I.D.		总长 Overall Length	
	mm	in.	mm	in.	mm	in.
7	208	8.189	157	6.181	1140	44.882
7-5/8	230	9.055	174.2	6.858	1140	44.882
9-5/8	282.5	11.122	220.5	8.681	1170	46.063
10-3/4	310	12.205	252	9.921	1211	47.677
13-3/8	384	15.118	315	12.402	1211	47.677

## CFZ-A型液压式分级注水泥器

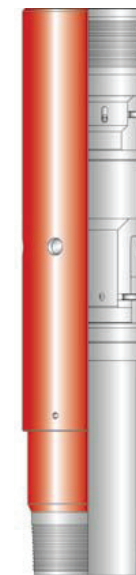
Model CFZ-A Mechanical Stage Collar

### 特点

1. 通过液压打开循环孔, 不需投重力塞, 不受井斜限制;
2. 采用内关闭且设防转机构, 钻除附件时不会损伤关闭套;
3. 全部附件均由可钻性好的材料制成, 容易钻除;
4. 可根据用户需求, 调整打开压力。

### Features

1. The circulation ports can be hydraulically opened, eliminating the need to use a free-fall opening plug. Therefore, it is not restricted to well inclination.
2. Internal closing structure and anti-rotation mechanism protect the closing sleeve from damage while drilling out the opening and closing seats.
3. All internal parts are made of easily drillable material.
4. Opening pressure adjustable upon customer request.



### 技术参数 Specifications

套管规格 Casing Size	套管公称质量 Casing Weight		最大外径 Max O.D.		钻后内径 Drill-out I.D.		总长 Overall Length	
	kg/m	lb/ft	mm	in.	mm	in.	mm	in.
5-1/2	25.30	17.00	172	6.772	124	4.882	780	30.709
	29.76	20.00			121	4.764		
	34.23	23.00			119	4.685		
7	38.69	26.00	210	8.268	159	6.260	930	36.614
	43.16	29.00			157	6.181		
	47.62	32.00			155	6.102		
7-5/8	44.20	29.70	230	9.055	175	6.890	1120	44.094
	50.15	33.70			172	6.772		
	58.04	39.00			168	6.614		
9-5/8	59.53	40.00	282.5	11.122	224	8.819	1170	46.063
	64.74	43.50			222	8.740		
	69.94	47.00			221	8.701		
10-3/4	75.90	51.00	302	11.890	250	9.843	1210	47.992
	82.59	55.50			248	9.764		
	90.33	60.70			245	9.646		