

3-Tube Assembly, Traveling Barrel Rod Pump

Pump Assemblies

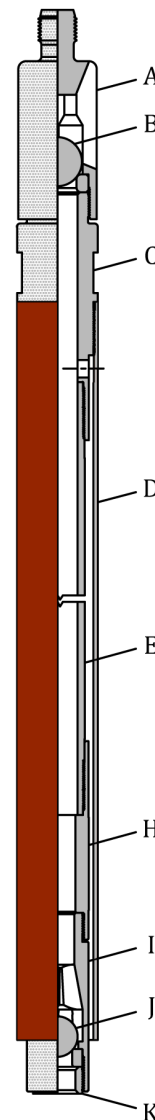
Item	Description	No. Req'd	Bore Size				
			2-3/8" x 1-1/4"(1)		2-7/8" x 1-3/4"(2)		
3- Tube Assembly							
A	Cage, Top Open	1	CF44-1		CF64-1		
B	Valve, Ball and Seat		Ball	Seat	Ball	Seat	
			Alloy	B072	S042	B092	S062
			Titanium	B073	S043	B093	S063
	Nickel Carbide		B075	S045	B095	S065	
C	Connector, Upper Barrel	1	FS1110		FS2210		
D	Tube, Outer	1					
			25' Pump	FS2130-25		FS223-25	
			30' Pump	FS2130-30		FS223-30	
E	Tube, Pull, Standard Stroke	1					
			25' Pump	FS117-112		FS227-102	
			30' Pump	FS117-172		FS227-162	
			Tube, Pull Extended Stroke				
			25' Pump	FS117-172		FS227-168	
			30' Pump	FS117-233		FS227-232	
F	Plug, Pull, for 3-Tube Pump		FS115		FS225		
H	Tube, Inner (Plunger) Standard Stroke	1					
			25' Pump	FS2160-15		FS226-16	
			30' Pump	FS2160-15		FS226-16	
			Tube, Inner (Plunger) Extended Stroke				
			25' Pump	FS2160-10		FS226-10	
			30' Pump	FS2160-15		FS226-10	
I	Cage, Closed Plunger	1	CF23		FS228		
J	Valve, Ball and Seat (Plgr.)	1	Ball	Seat	Ball	Seat	
			Alloy	B032	S022	B072	S042
			Titanium	B033	S023	B073	S043
			Nickel Carbide	B035	S025	B075	S045
K	Plug, Seat Retainer	1	PS221		PS421		
L	Tube, Standing	1					
			25' Pump	FS2140-25		FS224-25	
			30' Pump	FS2140-30		FS224-30	
N	Cage, Closed Std. Valve	1	FS112		FS222		
O	Valve, Ball and Seat (Std.)	1	Ball	Seat	Ball	Seat	
			Alloy	B072	S042	B092	S062
			Titanium	B073	S043	B093	S063
			Nickel Carbide	B075	S045	B095	S065
P	Seating Assembly	1	HD41-3		HD51-3		

The (3) Tube Pump design originated when it was found that there was a need for a pump that could pump sand or dirty fluid without the plunger becoming stuck in the barrel. When the fit is kept close, chances of sticking become great; however, when the plunger fit is loosened up, more sand or mud can slip by without seizing the plunger.

Recommended applications for the (three-tube) are:

1. In new wells where drilling muds or fluids are left in the well.
2. In sandy wells where formation sand or decomposed shales tend to cause a conventional metal-to-metal pump to stick.

Traveling Assembly



Stationary Assembly

