POWER PIPING GROUP LTD.

ACCUMULATOR BOP CONTROL SYSTEM

Accumulator BOP Control System

Accumulator BOP control system, also called as BOP closing unit, is on important system in drilling and work-over operation.

As per different working conditions, accumulator BOP control system can be pneumatic, hydraulic or electric control.

All accumulator BOP control system (BOP closing unit) that PPGL provides are made according to API Spec 16D, they can be used to replace Koomey closing unit (Koomey accumulator).

Customized BOP closing unit can be available too.

Accumulator BOP Control System

Technical specifications of Accumulator BOP Control System (BOP Closing Unit)

Item	Accumulator Model	Number of Controlled Objects				Accumulator Sets		
		Annular	Ram	Choke	Spare	Nomi. Volume (L)	Eff. Volume (L)	Alignment
1	PPGL-FK50-2C		1	1		25x2	25	Rear
2	PPGL-FK75-2		1		1	25x3	37.5	Rear
3	PPGL-FK125-2		1		1	25x5	62.5	Rear
4	PPGL-FK125-3		1	1	1	25x5	62.5	Rear
5	PPGL-FK150-2		1		1	25x6	75	Rear
6	PPGL-FK240-3	1	1		1	40x6	120	Rear
7	PPGL-FKQ320-3	1	2			40x8	160	Rear
8	PPGL-FKQ320-4	1	2		1	40x8	160	Rear
9	PPGL-FKQ320-4H	1	2		1	40x12	160	Rear
10	PPGL-FKQ480-5	1	2	1	1	40x12	240	Rear
11	PPGL-FKQ480-5A	1	2	1	1	40x12	240	Rear
12	PPGL-FKQ480-6	1	2	1	2	40x14	240	Rear
13	PPGL-FKQ560-6	1	3	1	1	40x14	280	Side
14	PPGL-FKDQ560-6	1	3	1	1	40x16	280	Side
15	PPGL-FKQ640-6H	1	3	1	1	40x16	320	Side
16	PPGL-FKDQ640-6	1	3	2	1	40x16	320	Side
17	PPGL-FKDQ640-7	1	3	2	1	40x16	320	Side
18	PPGL-FKDQ640-7	1	3	2	1	40x18	320	Side
19	PPGL-FKQ720-6	1	3	2	1	40x18	360	Side
20	PPGL-FKQ720-7	1	3	2	1	40x18	360	Side
21	PPGL-FKQ720-7A	1	3	2	1	40x20	360	Side
22	PPGL-FKQ800-6	1	3	1	1	40x20	400	Side
23	PPGL-FKDQ800-6	1	3	1	1	40x20	400	Side
24	PPGL-FKQ800-7	1	3	2	1	40x20	400	Side

25	PPGL-FKDQ800-7	1	3	2	1	40x20	400	Side
26	PPGL-FKQ800-8	1	3	2	2	40x20	400	Side
27	PPGL-FKDQ800-8	1	3	2	2	40x20	400	Side
28	PPGL-FKQ840-8	1	3	2	2	40x21	420	Side
29	PPGL-FKQ1280-8	1	3	2	2	80x16	640	Side
30	PPGL-FKQ1600-9	1	4	2	2	80x20	800	Side

Item	Volume of Oil Reservoir (L)	Flow Volume of Pump			Motor Power (Kw)	WP(Kw)	Dimension (mm)
		Elec. Pump (L/min)	Pneu. Pump (m/min)	Manual Pump (ml/stroke)			
1	160	3.5		11	1.1	21	1,500x1,400x2,300
2	170	12		11	5.5	21	1,836x1,190x2,028
3	320	18		11	7.5	21	2,719x1,530x2,340
4	320	18		11	7.5	21	2,719 x1,530x2,340
5	250	24		11	11	21	2,500x1,900x2,340
6	440	24	11x1		11	21	3,000x1,900x2,280
7	630	24	11x1		11	21	3,400x2,156x2,400
8	650	24	11x1		11	21	3,400x2,156x2,400
9	650	24	11x1		11	21	2,600x1,400x2,020
10	890	32	11x2		15	21	3,145x1,630x2,165
11	890	32	11x2		15	21	3,900x2,156x2,400
12	920	32	11x2		15	21	3,000x2,210x2,165
13	1050	42	11x2		18.5	21	4,500x1,700x2,165 4,500x2,170x2,420
14	1050	42	11x2		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420
15	1310	42	11x2		18.5	21	4,000x1,620x2,165 5,000x2,478x2,420
16	1310	42	11x2		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420
17	1510	42	11x2		18.5	21	5,420x2,170x2,420 5,420x2,478x2,420
18	1510	42	11x2		18.5	21	5,420x2,170x2,420 5,420x2,478x2,420
19	1310	42	11x2		18.5	21	5,000x2,170x2,420
20	1510	42	11x2		18.5	21	5,420x2,170x2,420 5,420x2,478x2,420
21	1510	42	11x2		18.5	21	5,420x2,170x2,420 5,420x2,478x2,420
22	1510	42	11x3		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420

23	1510	42	11x3		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420
24	1510	42	11x3		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420
25	1510	42	11x3		18.5	21	5,000x2,170x2,420 5,000x2,478x2,420
26	1730	42	11x3		18.5	21	5,840x2,170x2,440 5,840x2,478x2,440
27	1730	42	11x3		18.5	21	5,840x2,170x2,440 5,840x2,478x2,440
28	1730	42	11x3		18.5	21	5,840x2,478x2,440
29	2000	42	11x3		18.5x2	21	6,700x2,560x2,600
30	2500	42	11x3		18.5x2	21	6,700x2,560x2,600

Components Option of Accumulator BOP Control System (BOP Closing Unit)

Item	Model	Annular Pressure Control	Electric Pump	Air Pump	Manual Pump	Double Electric Pump	Alarm Device	Spare Nitrogen System
1	PPGL-FK50-2C		●		●			
2	PPGL-FK75-2		●		●			
3	PPGL-FK125-2		●		●			
4	PPGL-FK125-3		●		●			
5	PPGL-FK150-2		●		●			
6	PPGL-FK240-3	●	●	●				
7	PPGL-FKQ320-3	●	●	●				
8	PPGL-FKQ320-4	●	●	●				
9	PPGL-FKQ320-4H	●	●	●				
10	PPGL-FKQ480-5	●	●	●				
11	PPGL-FKQ480-5A	●	●	●				
12	PPGL-FKQ480-6	●	●	●				
13	PPGL-FKQ560-6	●	●	●				
14	PPGL-FKDQ560-6	●	●	●				
15	PPGL-FKQ640-6H	●	●	●			○	
16	PPGL-FKDQ640-6	●	●	●			●	○
17	PPGL-FKDQ640-7	●	●	●			○	
18	PPGL-FKDQ640-7	●	●	●			○	○
19	PPGL-FKQ720-6	●	●	●			○	○
20	PPGL-FKQ720-7	●	●	●			○	○
21	PPGL-FKQ720-7A	●	●	●			○	○
22	PPGL-FKQ800-6	●	●	●			○	○

23	PPGL-FKDQ800-6	●	●	●			○	○
24	PPGL-FKQ800-7	●	●	●			○	○
25	PPGL-FKDQ800-7	●	●	●			○	○
26	PPGL-FKQ800-8	●	●	●			○	○
27	PPGL-FKDQ800-8	●	●	●			○	○
28	PPGL-FKQ840-8	●	●	●			○	○
29	PPGL-FKQ1280-8	●	●	●		●	○	○
30	PPGL-FKQ1600-9	●	●	●		●	○	○

Item	Enclosure	Heating System	Air Conditioner	Pressure Oil Heating	Driller's Panel	Auxiliary Control Panel	Pipe Lines	Safety Device
1	●						○	
2	●			○			○	
3	●			○			○	
4	●			○			○	
5	●			○			○	
6	●	○		○			○	
7	●	○		○	○		○	
8	●	○		○	○		○	
9	●	○		○	○		○	○
10	●	○		○	○		○	○
11	●	○		○	○		○	○
12	●	○		○	○		○	○
13	●	○		○	●		○	○
14	●	○		○	●		○	○
15	●	○		○	○	○	○	○
16	●		○	○	●		○	○
17	●	○			●		○	○
18	●	○	○	○	●	○	○	○
19	●	○	○	○	●		○	○
20	●	○	○	○	●	○	○	○
21	●	○	○	○	●	○	○	○
22	●	○	○	○	●	○	○	○
23	●	○	○	○	●	○	○	○
24	●	○	○	○	●	○	○	○
25	●	○	○	○	●	○	○	○
26	●	○	○	○	●	○	○	○
27	●	○	○	○	●	○	○	○

28	●	○	○	○	●	○	○	○
29	●	○	○	○	●	○	○	○
30	●	○	○	○	●	○	○	○

Note: 1. Mark "●" in the table refers to standard components and mark "○" in the table refers to optional components.

2. Blank in the table means that it can be designed and manufactured in accordance with the customer's special requirements.

3. Anti-lifting Safety Device is specially designed for help drilling. FT Ⅰ for less 6 controlled objects control system; FT Ⅱ for over 6 controlled objects control system.