



Control System for Surface Mounted Bop Stacks

The control system for surface mounted BOP stacks is important equipment for the controlling of BOP stacks. choke and kill valve for well control. The products not only meet the requirements of domestic standards but also have gotten the certificate of API SPEC I6D.

Product Features:

The system is equipped with two pump groups. Electric pump with different flow rate, and air—operated oil pump which ensures the system to work normally in case of power failure.

The design of accumulator unit meets the requirement of closing all BOP stacks and opening hydraulic valve. If any accumulator bottle fails to work, the total liquid loss will not exceed 25%. Our company can offer the accumulator with ASME mark that complies with the requirements of API SPEC I6D.

The pressure of annular provender circuit in control system may be adjusted by remote air—operated regulation. It characters reverse adjusting. In case of sudden failure of air supply, the pressure can be reset to the initial set value automatically. The control manifold of the remote control panel is equipped with an orifice as an inlet of the pressure source. For example, the nitrogen backup system offered by Our company provides emergent auxiliary energy. If the accumulator and / or the pump cannot provide the control manifold with enough power fluid, the nitrogen backup system may be used to provide high-pressure air to close the provender. The nitrogen backup system may also provide emergency air supply for the driller’s panel and the auxiliary control panel.

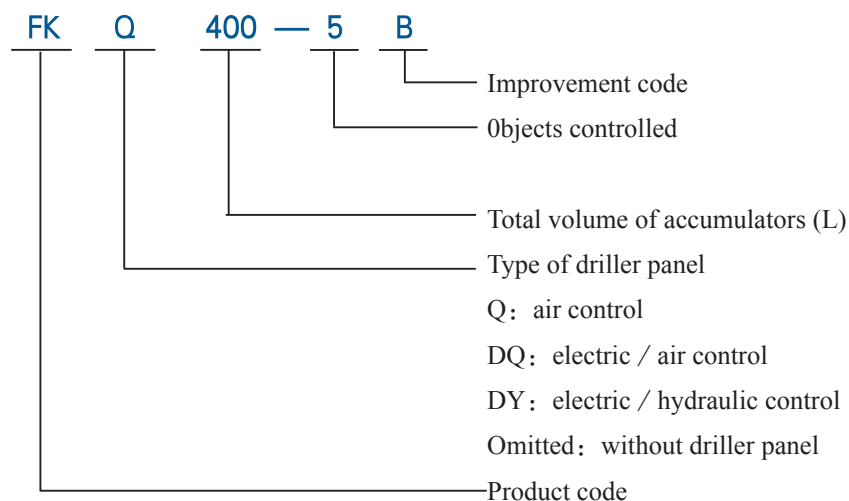
The system may provide an alarm device. It monitors the accumulator pressure, air supply pressure and the liquid level in oil tank. When the above parameters exceed the alarm limits, the signal of sound and light will be given.

The system can be equipped with auxiliary control panel. Air-operated control is adopted of air control type and electric control of electric control type in the auxiliary control panel. The system may be operated by driller panel and or auxiliary control panel.

The system can also be equipped with electrical heating device of oil tank and air cable. The system may also be equipped with a housing with air-conditioner, explosion-proof electrical heating board and explosion-proof air-conditioner.

Besides the products listed in the table, we can design special models according to the customer’s requirements.

Model Illustration :



Specifications

Model	Controlled object and its quantity					Accumulators				Fuel tank volume	Motor power	Flow-rate of pumps		
	Total	Annular	Ram	Choke	Backup	Total volume	usable volume	Effective volume	Arrangement			Electrical	Pneumatic	Manual
						L	L	L		L	kW	L/min	ml/stroke	ml/stroke
*FKQ1440-16	16	1	4	7	4	60 × 24	720	504	rear	2600	18.5 × 2	46 × 2	165 × 3	
*FKQ1920-10	10	1	4	4	1	60 × 32	960	672	rear	2300	18.5 × 2	46 × 2	165 × 3	
△*FKDQ1280-8	8	1	4	2	1	80 × 16	640	496	side	1800	18.5 × 2	46 × 2	165 × 2	
*FKDY320-4	4	1	2	1	-	40 × 8	160	128	side	920	15	35	165	
*FKDQ1200-9	9	1	3	3	2	60 × 20	600	420	rear	2200	18.5 × 2	46 × 2	165 × 3	
*FKDQ1200-9B	9	1	3	4	1	60 × 20	600	420	rear	2200	18.5 × 2	46 × 2	165 × 3	
*FKDQ960-7	7	1	3	2	1	60 × 16	480	336	rear	2200	18.5 × 2	46 × 2	165 × 2	
*FKDQ960-7B	7	1	2	4	-	60 × 16	480	336	rear	2200	18.5 × 2	46 × 2	165 × 2	
FKDQ800-7	7	1	3	2	1	40 × 20	400	320	side	1330	18.5 × 2	46 × 2	165 × 2	
FKDQ800-7A	7	1	3	2	1	40 × 20	400	320	side	1330	18.5 × 2	46 × 2	165 × 2	
*FKDQ640-7	7	1	3	2	1	40 × 16	320	256	rear	1660	18.5	46	165 × 2	
FKDQ640-6	6	1	3	1	1	40 × 16	320	256	side	1160	18.5	46	165 × 2	
FKDQ640-6A	6	1	3	1	1	80 × 8	320	248	side	1160	18.5	46	165 × 2	
FKDQ480-5	5	1	3	1	-	40 × 12	240	192	side	1160	18.5	35	165 × 2	
*FKQ1440-14	14	1	4	7	2	60 × 24	720	504	rear	2300	18.5 × 2	46 × 2	165 × 3	
△*FKQ1280-12	12	1	3	1	7	80 × 16	640	496	side	2400	18.5 × 2	46 × 2	165 × 3	
△*FKQ1440-10	10	1	5	2	2	80 × 18	720	558	side	2150	18.5 × 2	46 × 2	165 × 3	
△*FKQ1280-10	10	1	4	4	1	80 × 16	640	496	side	2150	18.5 × 2	46 × 2	165 × 3	
*FKQ1200-10	10	1	4	4	1	60 × 20	600	420	side	2150	18.5 × 2	46 × 2	165 × 3	
*FKQ1200-9	9	1	3	3	2	60 × 20	600	420	rear	2200	18.5 × 2	46 × 2	165 × 4	
*FKQ1320-8	8	1	4	2	1	60 × 22	660	462	rear	2000	18.5 × 2	46 × 2	165 × 3	
△*FKQ1280-8	8	1	3	3	1	80 × 16	640	496	side	1650	18.5 × 2	46 × 2	165 × 2	
△*FKQ1280-8B	8	1	4	2	1	80 × 16	640	496	side	1795	18.5 × 2	46 × 2	165 × 3	
△*FKQ1280-8C	8	1	4	2	1	80 × 16	640	496	side	1795	18.5 × 2	46 × 2	165 × 2	
*FKQ1280-8D	8	1	4	2	1	80 × 16	640	496	side	1795	18.5 × 2	46 × 2	165 × 3	
*FKQ1200-8	8	1	3	3	1	60 × 20	600	420	side	1650	18.5 × 2	46 × 2	165 × 2	
*FKQ960-8	8	1	3	3	1	60 × 16	480	336	side	1650	18.5 × 2	46 × 2	165 × 2	
*FKQ840-8	8	1	3	3	1	60 × 14	420	294	side	1650	18.5	46	165 × 2	
*FKQ840-8A	8	1	3	2	2	60 × 14	420	294	side	1600	18.5	46	165 × 2	
*FKQ840-8B	8	1	3	2	2	60 × 14	420	294	side	1600	18.5	46	165 × 2	
FKQ800-8	8	1	3	3	1	40 × 20	400	320	side	1650	18.5	46	165 × 2	
*FKQ1600-7	7	1	3	2	1	80 × 20	800	620	side	2150	18.5 × 2	46 × 2	165 × 3	
△*FKQ1280-7	7	1	3	2	1	80 × 16	640	496	side	1600	18.5 × 2	46 × 2	165 × 2	
*FKQ1200-7	7	1	3	2	1	60 × 20	600	420	side	1500	18.5 × 2	46 × 2	165 × 2	
△*FKQ960-7	7	1	3	2	1	80 × 12	480	372	side	1600	18.5 × 2	46 × 2	165 × 2	
*FKQ960-7B	7	1	3	2	1	60 × 16	480	336	side	1650	18.5 × 2	46 × 2	165 × 2	
*FKQ960-7D	7	1	3	2	1	80 × 12	480	372	side	1795	18.5 × 2	46 × 2	165 × 2	
FKQ800-7B	7	1	3	2	1	40 × 20	400	320	side	1600	18.5	46	165 × 2	

Model	Controlled object and its quantity					Accumulators				Fuel tank volume	Motor power	Flow-rate of pumps		
	Total	Annular	Ram	Choke	Backup	Total volume	usable volume	Effective volume	Arrangement			Electrical	Pneumatic	Manual
						L	L	L		L	kW	L/min	ml/stroke	ml/stroke
△*FKQ800-7D	7	1	3	2	1	40 × 20	400	320	side	1500	18.5	46	165 × 2	
*FKQ800-7E	7	1	3	2	1	40 × 20	400	320	side	1500	18.5	46	165 × 2	
FKQ800-7F	7	1	3	2	1	40 × 20	400	320	rear	1280	18.5	46	165 × 2	
FKQ800-7G	7	1	3	2	1	40 × 20	400	320	side	1800	18.5 × 2	46 × 2	60 × 4	
FKQ800-7H	7	1	3	2	1	40 × 20	400	320	side	1500	18.5 × 2	46 × 2	165 × 2	
FKQ800-7J	7	1	3	1	2	40 × 20	400	320	side	1500	18.5	46	165 × 3	
*FKQ800-7K	7	1	3	2	1	40 × 20	400	320	side	1600	18.5	46	165 × 2	
FKQ640-7	7	1	3	2	1	80 × 8	320	248	side	1600	18.5	46	165 × 2	
△*FKQ800-6F	6	1	3	2	-	80 × 10	400	310	side	1600	18.5	46	165 × 2	
*FKQ720-6	6	1	3	2	-	60 × 12	360	252	side	1290	18.5	46	165 × 2	
*FKQ720-6A	6	1	2	2	1	60 × 12	360	252	side	1160	18.5	46	165 × 2	
FKQ640-6	6	1	3	2	-	40 × 16	320	256	rear	1120	18.5	46	165 × 2	
△*FKQ640-6G	6	1	3	2	-	40 × 16	320	256	side	1290	18.5	46	165 × 2	
FKQ640-6J	6	1	3	2	-	40 × 16	320	256	side	1290	18.5	46	165 × 2	
FKQ640-6K	6	1	3	2	-	40 × 16	320	256	side	1500	18.5	46	165 × 2	
△*FKQ640-6M	6	1	3	2	-	40 × 16	320	256	rear	1120	18.5	46	165 × 2	
FKQ640-6S	6	1	3	2	-	40 × 16	320	256	side	1290	18.5	46	165 × 2	
FKQ480-5	5	1	3	1	-	80 × 6	240	186	side	1100	18.5	35	165 × 2	
FKQ480-5C	5	1	3	1	-	40 × 12	240	192	side	1100	18.5	35	165 × 2	
*FKQ480-5E	5	1	3	1	-	40 × 12	240	192	rear	1100	18.5	35	165 × 2	
FKQ400-5B	5	1	3	1	-	40 × 10	200	160	side	1100	18.5	35	165 × 2	
FKQ400-5D	5	1	3	1	-	40 × 10	200	160	rear	1100	18.5	35	165 × 2	
FKQ320-4E	4	1	2	1	-	40 × 8	160	128	rear	790	18.5	46	165 × 1	
△*FKQ320-4G	4	1	2	1	-	40 × 8	160	128	side	790	15	35	60 × 1	
FKQ320-3C	3	1	2	-	-	40 × 8	160	128	rear	790	18.5	46	165 × 1	
FKQ240-4	4	-	2	1	1	40 × 6	120	96	rear	720	11	20	60 × 1	
FKQ160-4W	4	-	2	2	-	40 × 4	80	64	rear	720	11	20	60 × 1	
FK240-3D	3	1	2	-	-	40 × 6	120	96	rear	630	11	20	60 × 2	
FK250-4	4	-	2	2	-	25 × 10	125	100	side	630	11	20		14/28
FK240-4	4	-	2	1	1	40 × 6	120	96	rear	630	11	20		14/28
FK240-4A	4	-	2	1	1	40 × 6	120	96	rear	720	11	20		14/28
FK240-4B	4	1	2	1	-	40 × 6	120	96	rear	630	11	20		14/28
FK160-4	4	-	2	2	-	40 × 4	80	64	rear	720	11	20		14/28
FK125-4	4	-	2	1	1	25 × 5	62.5	50	rear	630	11	20		14/28
FK100-4	4	-	2	1	1	25 × 4	50	40	rear	630	11	20		14/28
FK240-3	3	1	2	-	-	40 × 6	120	96	side	456	11	20		14/28
FK240-3E	3	-	2	1	-	40 × 6	120	96	rear	500	11	20	60 × 1	
FK160-3	3	-	3	-	-	40 × 4	80	64	rear	630	11	20		14/28
FK125-3	3	-	3	-	-	25 × 5	62.5	50	rear	440	11	20		14/28

Model	Controlled object and its quantity					Accumulators				Fuel tank volume	Motor power	Flow-rate of pumps		
	Total	Annular	Ram	Choke	Backup	Total volume	usable volume	Effective volume	Arrangement			Electrical	Pneumatic	Manual
						L	L	L		L	kW	L/min	ml/stroke	ml/stroke
FK125-3B	3	1	2	-	-	25 × 5	62.5	50	rear	440	11	20		14/28
FK125-3F	3	-	3	-	-	25 × 5	62.5	50	rear	440	11	20		14/28
FK125-2D	2	-	1	1	1	25 × 5	62.5	50	rear	440	15	31		14/28
FK125-2F	2	-	1	1	1	25 × 5	62.5	50	rear	440	15	31		14/28
FK50-1	1	-	1	-	-	25 × 2	25	20	rear	98	3	7		14/28

