

DAB Pump 1 / 2 / 3 NV 50

WITH MULTISTAGE VERTICAL AXIS CENTRIFUGAL PUMPS

Characterised by the use of "KV" type multi-impeller vertical axis electric pumps, these sets are acclaimed for their high efficiency, application versatility, and very low noise operation.

Utilised in large scale civil and industrial installations, selection of these sets must be performed by skilled engineers capable of assessing the effective requirements of the systems on which they are to be installed.

HYDRAULIC SECTION

- 1-2-3 vertical multistage electric pumps KV 50;
- Skid in galvanised steel complete with 4 rubber anti-vibration feet;
- Flanged suction and discharge manifolds in galvanized steel complete with blank flange;
- Isolator valves on suction and discharge
- Flanged check valve on suction side;
- Antivibration flexible coupling for connection to discharge pipe;
- BY-PASS circuit complete with isolator valve and automatic safety valve;
- Radial pressure gauge with isolator valve;
- Galvanized steel column for adjustable mounting of the control panel;
- Membrane pressure tanks.

ELECTRICAL SECTION CONTROL PANEL

Direct Starting for unit power ratings up to 7.5 kW inclusive.

Star-Delta starting for unit power ratings up to 9.2 kW inclusive.

Cabinet in sheet steel with IP 55 protection rating and lever handle with lock. Door lock switch, remote motor protectors with thermal relays and electric pump fuses, low voltage control circuit (24 Volt) feeding remote motor protectors, adjustable delayed pumps stop time (supplementary run), system to change starting sequence for sets of 2-3 electric pumps. Selector for Automatic (my means

of pressure switches installed on discharge manifold) or Manual operation of electric pumps. Terminal board for connection of minimum pressure switch for pump stopping, float switch to protect against dry running, remote pump start command.

CONTROL PRESSURE SWITCHES

Electric pump control pressure switches precalibrated and installed on the discharge manifold.

The pressure switches operate the remote motor protectors to invert the electric pumps in cascade mode.

JOCKEY PUMP – COMPENSATION FUNCTION (cuts in to compensate for small quantity water demand to avoid wasteful starting of the main electric pumps) The sets are available also with the KV 3 jockey pump complete with valves and connected to the suction and discharge manifolds.

Electric control and protection circuit for jockey pump in main electric pump control cabinet for 1-2 K sets. Separate control cabinet for 3 K pump sets.

WEEKLY TEST RUN (must be requested at time of order - cannot be retrofitted)

The pump sets are available also with a weekly test run system, composed of a programmable weekly timer, an audible illuminated alarm, a drain solenoid valve on the discharge manifold, an automatic reset emergency stop pushbutton, and a minimum pressure switch.

With the weekly test run the electric pumps are started periodically for a few minutes to prevent mechanical seizure during prolonged periods of disuse.

At the end of the test any faults are signalled by the alarm function. The 1-2-3 KV 50/7 - 1-2-3 KV 50/6 - 1-2-3 KV 50/8 - 1-2-3 KV 50/9 pump sets are supplied without membrane pressure tanks and without flexible couplings. The pump sets are supplied in a strong carton on a wooden pallet complete with instruction leaflet and wiring diagram.



TECHNICAL DATA - 1 KV 50



1 PUMP

MODEL	CODE
1 KV50/3 T	500410730
1 KV50/4 T	500410740
1 KV50/5 T	500410750
1 KV50/6 T	500410760
1 KV50/7 T	500410770
1 KV50/8 T	500410780
1 KV50/9 T	500410790

1 PUMP + PILOT PUMP

MODEL	CODE
1 KV50/3 T pilot pump 3/12 T	500415300
1 KV50/4 T pilot pump 3/15 T	500415310
1 KV50/5 T pilot pump 3/18 T	500415320

1 PUMP + WEEKLY TEST

MODEL	CODE
1 KV50/3 T + PS	500411730
1 KV50/4 T + PS	500411740
1 KV50/5 T + PS	500411750
1 KV50/6 T + PS	500411760

1 PUMP + PILOT PUMP + WEEKLY TEST

MODEL	CODE
1 KV50/3 T (pilot pump 3/12 T) + PS	500415800
1 KV50/4 T (pilot pump 3/15 T) + PS	500415810
1 KV50/5 T (pilot pump 3/18 T) + PS	500415820

* The unit is supplied without membrane tanks and vibration dampening joints.

1/2/3 KV 50

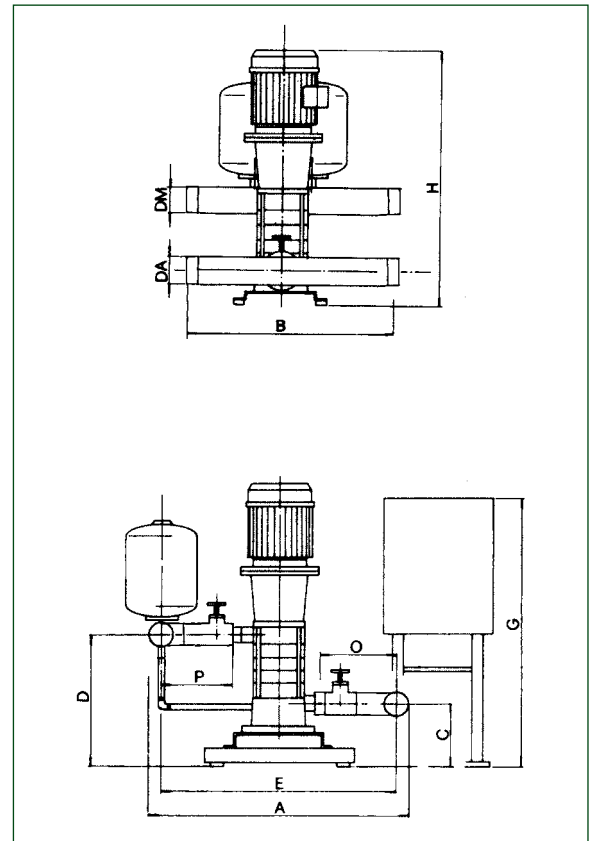
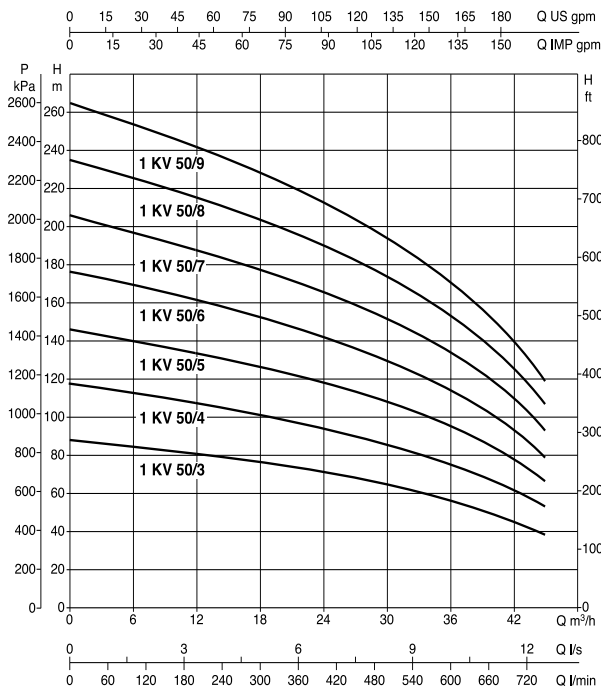
WITH MULTISTAGE VERTICAL AXIS CENTRIFUGAL PUMPS

MODEL	CODE	VOLTAGE 50 Hz	P2 NOMINAL		In A	PRESSURE SWITCH SETTING IN BAR	MAX PRESSURE OBTAINABLE BAR	PILOT PUMP			
			kW	HP				TYPE	CODE	P2	
1 KV 50/3 T*	500410730	3x400 V ~	9,2	12,5	18	6÷7	8,6	KV 3/12 T	500415300	1,5	2
1 KV 50/4 T*	500410740	3x400 V ~	11	15	22	8÷9	11,5	KV 3/15 T	500415310	1,85	2,5
1 KV 50/5 T*	500410750	3x400 V ~	15	20	30	10÷11	14,8	KV 3/18 T	500415320	2,2	3
1 KV 50/6 T	500410760	3x400 V ~	18,5	25	36	12÷13	17,6	—	—	—	—
1 KV 50/7 T	500410770	3x400 V ~	22	30	40	14÷15	20,4	—	—	—	—
1 KV 50/8 T	500410780	3x400 V ~	22	30	40	16÷17	23	—	—	—	—
1 KV 50/9 T	500410790	3x400 V ~	30	40	56	18÷19	26	—	—	—	—

* Pilote pump available on demand.

DIMENSIONS AND WEIGHTS 1 KV 50

1 KV 50



MODEL	A	B	C	D	E	G	H	O	P	I	L	M	Fxn°	Ø MANIFOLD		WEIGHT Kg.
														SUCTION	DELIVERY	
1 KV 50/3	1175	550	233	423	855	1005	1060	250	235	130	200	160	18x4	DN 80 - PN 16	DN 80 - PN 16	390
1 KV 50/4	1175	550	233	477	855	1005	1180	250	235	130	200	160	18x4	DN 80 - PN 16	DN 80 - PN 16	418
1 KV 50/5	1175	550	233	531	855	1005	1310	250	235	130	200	160	18x4	DN 80 - PN 16	DN 80 - PN 16	470
1 KV 50/6	1175	550	233	585	855	1005	1405	250	235	130	200	160	18x4	DN 80 - PN 16	DN 80 - PN 16	485
1 KV 50/7	1175	550	233	639	855	1005	1485	250	235	130	200	160	18x4	DN 80 - PN 25	DN 80 - PN 25	503
1 KV 50/8	1175	550	233	693	855	1005	1540	250	235	130	200	160	18x4	DN 80 - PN 25	DN 80 - PN 25	513
1 KV 50/9	1175	550	233	747	855	1005	1690	250	235	130	200	160	18x4	DN 80 - PN 25	DN 80 - PN 25	650

1/2/3 KV 50

WITH MULTISTAGE VERTICAL AXIS CENTRIFUGAL PUMPS

TECHNICAL DATA - 2 KV 50

1 PUMP

MODEL	CODE
2 KV50/3 T	500420730
2 KV50/4 T	500420740
2 KV50/5 T	500420750
2 KV50/6 T	500420760
2 KV50/7 T	500420770
2 KV50/8 T	500420780
2 KV50/9 T	500420790

* The unit is supplied without membrane tanks and vibration dampening joints.

1 PUMP + WEEKLY TEST

MODEL	CODE
2 KV50/3 T + PS	500421730
2 KV50/4 T + PS	500421740
2 KV50/5 T + PS	500421750
2 KV50/6 T + PS	500421760

* The unit is supplied without membrane tanks and vibration dampening joints.

1 PUMP + PILOT PUMP

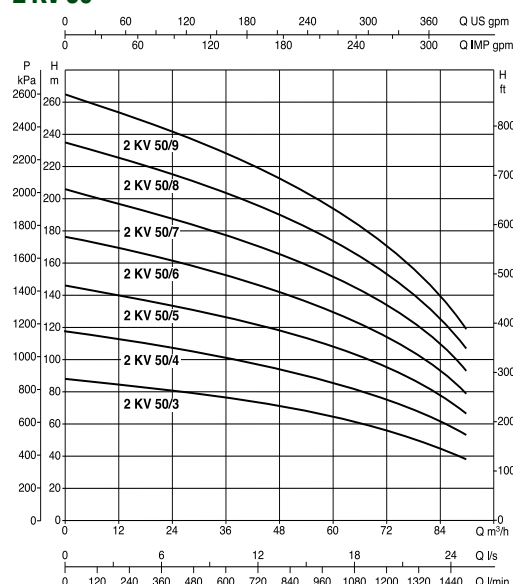
MODEL	CODE
2 KV50/3 T (pilot pump 3/12 T)	500422300
2 KV50/4 T (pilot pump 3/15 T)	500422310
2 KV50/5 T (pilot pump 3/18 T)	500422320

1 PUMP + PILOT PUMP + WEEKLY TEST

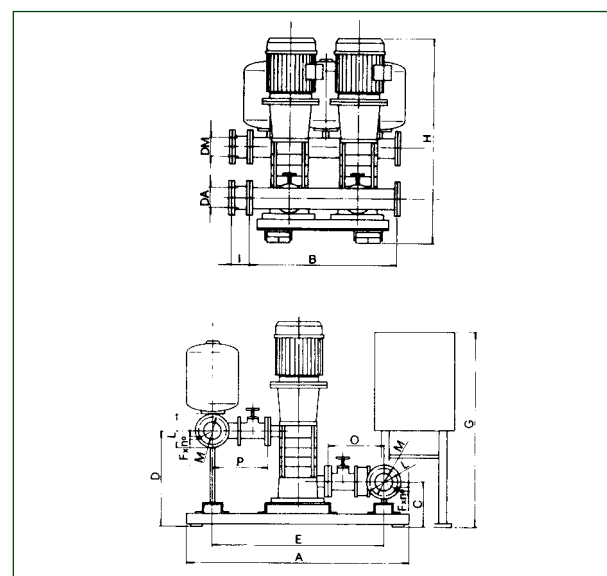
MODEL	CODE
2 KV50/3 T (pilot pump 3/12 T) + PS	500422800
2 KV50/4 T (pilot pump 3/15 T) + PS	500422810
2 KV50/5 T (pilot pump 3/18 T) + PS	500422820

MODEL	CODE	VOLTAGE 50 Hz	P2 NOMINAL		In A	PRESSURE SWITCH SETTING IN BAR	MAX PRESSURE OBTAINABLE BAR	PILOT PUMP			
			kW	HP				TYPE	CODE	P2	
2 KV 50/3 T*	500420730	3x400 V ~	2x9,2	2x12,5	2x18	5,5÷7	8,6	KV 3/12 T	500422300	1,5	2
2 KV 50/4 T*	500420740	3x400 V ~	2x11	2x15	2x22	7,5÷9	11,5	KV 3/15 T	500422310	1,85	2,5
2 KV 50/5 T*	500420750	3x400 V ~	2x15	2x20	2x30	9,5÷11	14,8	KV 3/18 T	500422320	2,2	3
2 KV 50/6 T	500420760	3x400 V ~	2x18,5	2x25	2x36	11,5÷13	17,6	—	—	—	—
2 KV 50/7 T	500420770	3x400 V ~	2x22	2x30	2x40	13,5÷15	20,4	—	—	—	—
2 KV 50/8 T	500420780	3x400 V ~	2x22	2x30	2x40	15,5÷17	23	—	—	—	—
2 KV 50/9 T	500420790	3x400 V ~	2x30	2x40	2x56	17,5÷19	26	—	—	—	—

2 KV 50



DIMENSIONS AND WEIGHTS 2 KV 50



MODEL	A	B	C	D	E	G	H	O	P	I	L	M	Fxn°	Ø MANIFOLD		WEIGHT Kg.
														SUCTION	DELIVERY	
2 KV 50/3	1400	1000	300	483	1130	1250	1120	500	270	170	250	210	18x8	DN 125 - PN 16	DN 125 - PN 16	740
2 KV 50/4	1400	1000	300	537	1130	1250	1240	500	270	170	250	210	18x8	DN 125 - PN 16	DN 125 - PN 16	790
2 KV 50/5	1400	1000	300	591	1130	1250	1380	500	270	170	250	210	18x8	DN 125 - PN 16	DN 125 - PN 16	885
2 KV 50/6	1400	1000	300	645	1130	1250	1465	500	270	170	250	210	18x8	DN 125 - PN 16	DN 125 - PN 16	906
2 KV 50/7	1400	1000	300	699	1130	1250	1545	500	270	170	250	210	18x8	DN 125 - PN 25	DN 125 - PN 25	942
2 KV 50/8	1400	1000	300	753	1130	1250	1600	500	270	170	250	210	18x8	DN 125 - PN 25	DN 125 - PN 25	976
2 KV 50/9	1400	1000	300	807	1130	1250	1750	500	270	170	250	210	18x8	DN 125 - PN 25	DN 125 - PN 25	1200

1/2/3 KV 50

WITH MULTISTAGE VERTICAL AXIS CENTRIFUGAL PUMPS

TECHNICAL DATA - 3 KV 50

1 PUMP

MODEL	CODE
3 KV50/3 T	500430730
3 KV50/4 T	500430740
3 KV50/5 T	500430750
3 KV50/6 T	500430760
3 KV50/7 T	500430770
3 KV50/8 T	500430780
3 KV50/9 T	500430790

* The unit is supplied without membrane tanks and vibration dampening joints.

1 PUMP + WEEKLY TEST

MODEL	CODE
3 KV50/3 T + PS	500431730
3 KV50/4 T + PS	500431740
3 KV50/5 T + PS	500431750
3 KV50/6 T + PS	500431760

* The unit is supplied without membrane tanks and vibration dampening joints.

1 PUMP + PILOT PUMP

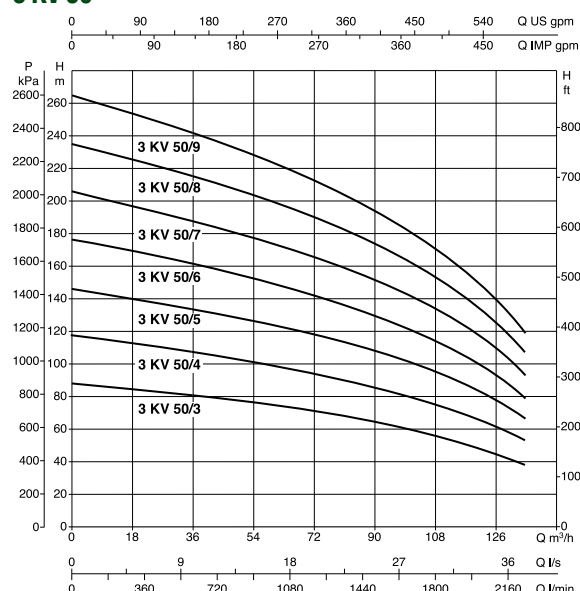
MODEL	CODE
3 KV50/3 T (pilot pump 3/12 T)	500432300
3 KV50/4 T (pilot pump 3/15 T)	500432310
3 KV50/5 T (pilot pump 3/18 T)	500432320

1 PUMP + PILOT PUMP + WEEKLY TEST

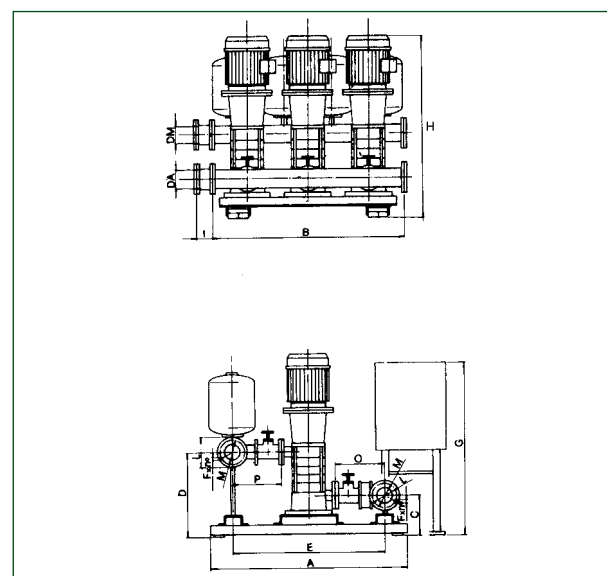
MODEL	CODE
3 KV50/3 T pilot pump 3/12 T + PS	500432800
3 KV50/4 T pilot pump 3/15 T + PS	500432810
3 KV50/5 T pilot pump 3/18 T + PS	500432820

MODEL	CODE	VOLTAGE 50 Hz	P2 NOMINAL		In A	PRESSURE SWITCH SETTING IN BAR	MAX PRESSURE OBTAINABLE BAR	PILOT PUMP			
			KW	HP				TYPE	CODE	P2	
3 KV 50/3 T*	500430730	3x400 V ~	3x9,2	3x12,5	3x18	5÷7	8,6	KV 3/12 T	500432300	Kw	HP
3 KV 50/4 T*	500430740	3x400 V ~	3x11	3x15	3x22	7÷9	11,5	KV 3/15 T	500432310	1,5	2
3 KV 50/5 T*	500430750	3x400 V ~	3x15	3x20	3x30	10÷12	14,8	KV 3/18 T	500432320	1,85	2,5
3 KV 50/6 T	500430760	3x400 V ~	3x18,5	3x25	3x36	12÷14	17,6	—	—	2,2	3
3 KV 50/7 T	500430770	3x400 V ~	3x22	3x30	3x40	13÷15	20,4	—	—	—	—
3 KV 50/8 T	500430780	3x400 V ~	3x22	3x30	3x40	16÷18	23	—	—	—	—
3 KV 50/9 T	500430790	3x400 V ~	3x30	3x40	3x56	18÷20	26	—	—	—	—

3 KV 50



DIMENSIONS AND WEIGHTS 3 KV 50



MODEL	A	B	C	D	E	G	H	O	P	I	L	M	Fxn°	Ø MANIFOLD		WEIGHT Kg.
														SUCTION	DELIVERY	
3 KV 50/3	1400	1200	300	483	1160	1250	1120	510	280	180	285	240	22x8	DN 150 - PN 16	DN 150 - PN 16	1050
3 KV 50/4	1400	1200	300	536	1160	1250	1240	510	280	180	285	240	22x8	DN 150 - PN 16	DN 150 - PN 16	1156
3 KV 50/5	1400	1200	300	591	1160	1250	1380	510	280	180	285	240	22x8	DN 150 - PN 16	DN 150 - PN 16	1290
3 KV 50/6	1400	1200	300	645	1160	1250	1465	510	280	180	285	240	22x8	DN 150 - PN 16	DN 150 - PN 16	1325
3 KV 50/7	1400	1200	300	699	1160	1250	1465	510	280	180	285	240	22x8	DN 150 - PN 25	DN 150 - PN 25	1390
3 KV 50/8	1400	1200	300	753	1160	1250	1600	510	280	180	285	240	22x8	DN 150 - PN 25	DN 150 - PN 25	1450
3 KV 50/9	1400	1200	300	807	1160	1250	1750	510	280	180	285	240	22x8	DN 150 - PN 25	DN 150 - PN 25	1770