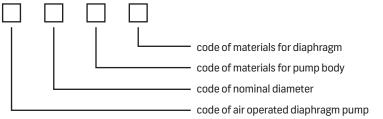


Aluminium Air Operated Diaphragm Pump DQBY40AAB / DQBY50AAB



ESTABLISHMENT METHOD OF PUMP MODEL

The pump model is composed of four units and is established according to the following sequence



code of air operated diaphragm pump: QBY

code of nominal diameter: 10(3/8)", 15 (1/2)",25(1)",40 (11/2)", 50 (2)",180 (3)",100(4)"

CODE OF MATERIALS FOR PUMP BODY

Material of pump body	Code	Material of pump body	Code
Aluminium alloy	L	Stainless steel	В
Cast iron	Z	Rubber lining	ZCJ
Engineering plastic	S	Fluorine lined	CF

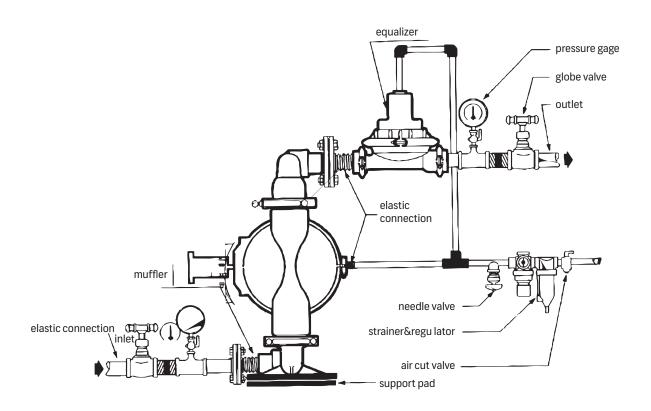
CODE OF MATERIALS FOR DIAPHRAGM

Material of pump body	Code	Material of pump body	Code
Buna-N	NBR	Neoprene	CR
Viton	F	Teflon	F46
Ethylene-propylene rubber	EPDM	Synthetic plastic	PP

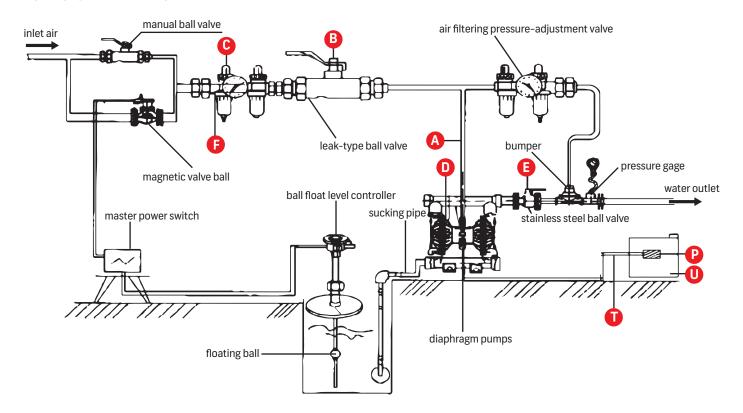
NOTE

In order to select suitable material and design of diaphragm pump, process conditions like applied environment, temperature, medium, flow rate, pump head, pressure, pump body material, diaphragm material are required.

Please be kindly noted that our diaphragm pump has two constructions in inlet and outlet, one is in the side, the other is in the center of the body. Please specify it when placing orders.



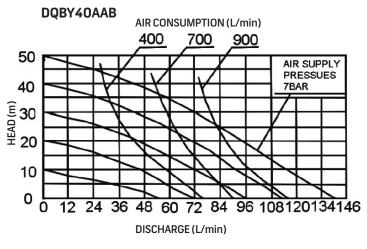
PUMP SYSTEM DRAWING

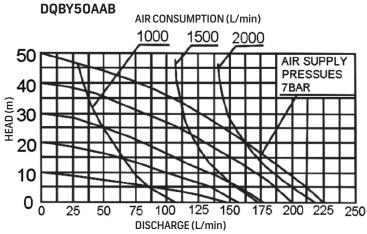


- A Gas Pipeline
- B Cuprum Ball Valve
- Air Pressure Regulator
- Intake Pipe Quick Connection
- Leak Type Cuprum Ball Valve
- Pneumatic FRL

- Muffler
- Exhaust Pipe
- Container For Exhaust

PERFORMANCE GRAPH





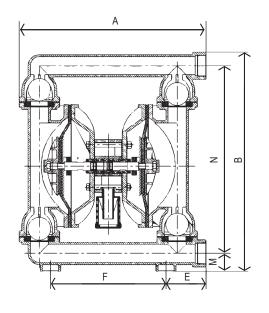
GENERAL SPECIFICATIONS

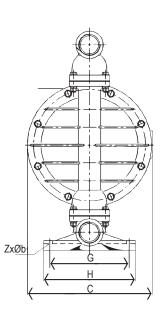
	Suct	ion	Disc	Discharge Type of co			Type of connection			Ma	aterial of pump	body	
Туре	inc	mm	inc	mm	NPT	BSPT	ANSI Flanged	DIN Flanged	Cast iron Z	Aluminium alloy L	Stainless Steel B	Engineering plastic PP/PVDF	Fluorinw Lined CF
DQBY40AAB	1 ½	40	1 1/2	40	•	•	-	-	•	•	•	•	•
DQBY50AAB	2	50	2	50	•	•	•	•	•	•	•	•	•

MAIN SPECIFICATIONS

						Material Of Diaphragm					
Туре	Max Flow Rate (L/Min)	Discharge Pressure (Bar)	Sucked Lift(m)	Max Grain Diameter (mm)	Max Air Consumption (L/min)	Buna-N	Neoprene	EPDM	Viton	Teflon	PP
DQBY40AAB	140	6.9	5	4.5	600	•	•	•	•	•	•
DQBY50AAB	240	6.9	5	8	900	•	•	•	•	•	•

MAIN EXTERNAL DIMENSION

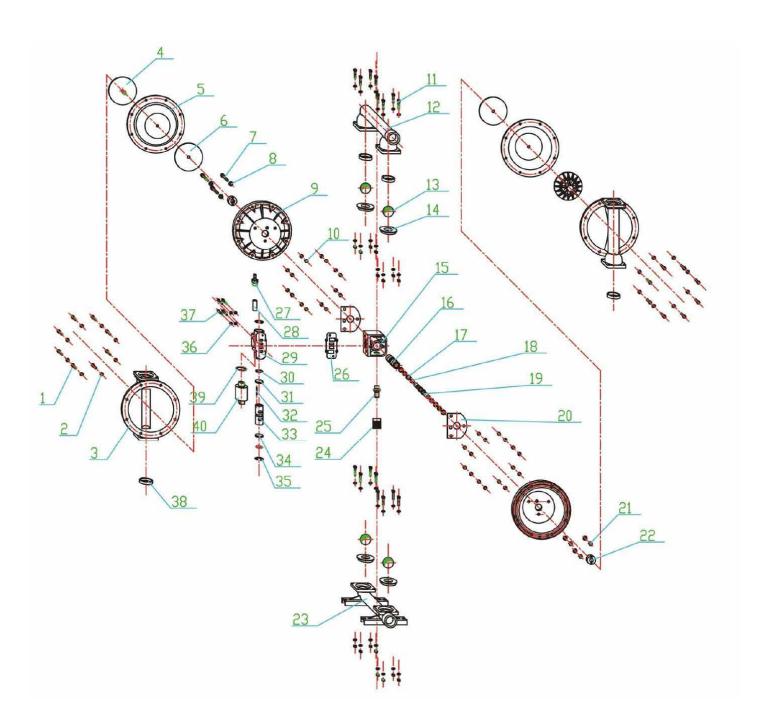




CODE	DQBY40AA	DQBY50AA
A	379	518
В	420	642
С	248.4	347
M	46	83
N	346	521
E	87.5	110
F	236	320
G	146	220
Н	190	254
Z*b	4*12	4*14

(mm)

3



1	Bolt	11	Bolt	21	Nut	31	Baffle
2	Gasket	12	Up cover	22	Site ring	32	Site billot
3	Stand column	13	Ball	23	Bottom cover	33	Piston
4	Outside platen	14	Tee	24	Muffler cover	34	Baffle
5	Diaphragm	15	Pump body	25	Muffler body	35	Spring collar
6	Endo platen	16	Cuprum series	26	Air valve gasket	36	Spring cushion
7	Bolt	17	O-ring	27	Air connector	37	Bolt
8	Gasket	18	O-ring	28	Into gases percolator	38	Tee pressure annulus
9	Clapboard	19	Shaft	29	Air distributive valve	39	O-ring
10	Nut	20	Body gasket	30	O-ring	40	Oil cup

CHARACTERISTIC OF DIAPHRAGM

Variety				
Medium	Nitrile Rubber	Chloroprene Rubber	Fluorine Rubber	PTFE
Smoke nitric acid	Χ	X	Δ	Δ
Density nitric acid	Χ	X	Δ	Δ
Density sulfuric acid	Χ	X	0	Δ
Density hydrochloric acid	Χ	Δ	Δ	Δ
Density phosphoric acid	Χ	Δ	Δ	Δ
Density acetic acid	Χ	X	X	Δ
Density Sodium hydroxide	0	0	Δ	Δ
Non-aqueous ammonia	Δ	Δ	Δ	Δ
Thin nitric acid	Χ	X	0	Δ
Thin sulfuric acid	Δ	Δ	Δ	Δ
Thin hydrochloric acid	Х	0	Δ	Δ
Thin phosphoric acid	Χ	X	Δ	Δ
Thin sodium hydroxide	0	0	Δ	Δ
Liquid ammonia	Δ	Δ	X	
Benzene	Χ	X	0	0
Gasoline	0	0	0	0
Petroleum	Δ	Х	0	0
Carbon tetrachloride	0		0	0
Carbon disulphite	0		X	0
Alcohol	0	0	0	0
Acetone	Х	Δ	X	0
Cresol	Χ	Δ	Δ	0
Acetic aldehyde	Χ	X	Δ	0
Ethylbenzene	Х	Х	Δ	0
Acryloniterile	Δ	Δ	X	0
Butanol	0	0	0	0
Butadience	0	X	Δ	0
Styrene	Χ	X	Δ	0
Vinyl acetate resin	Χ	X	X	0
Ether	Х	Х	X	0

NOTE: \bigcirc - means the long service life, \triangle - means common service life, X- means use forbidden. This table is only considered from the anti-corrosion. Because the PTFE elasticity is worse than that in rubber. The actual use life will be affected because of the pressure and pump stroke factors.