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High Purity PTFE Pump

Bellows Pump



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Industry applications

SKYLINK AC-Series High Purity PTFE Pump and BFA-Series Bellows Pump is a custom-designed pneumatic pump specifically developed for the semiconductor and electronics sectors. It boasts strong corrosion resistance, durability, and high reliability, making it ideal for transferring high-purity or highly corrosive materials.

Primary applications

- Transport of chemically corrosive agents
- Electronic wastewater treatment
- Chemical recirculation in wet process systems
- Transport of acid and alkali reagents
- Grinding fluid collection
- Transport of neutralizing fluids and other acid and alkali reagents



AC-SERIES High Purity PTFE Pump

Product Features

SKYLINK AC-Series is specifically engineered for handling chemicals used in semiconductor manufacturing, with a strong emphasis on material purity. Each model in the AC-Series is designed for high-purity or corrosive environments, ensuring compatibility with the most demanding conditions. SKYLINK provides a range of high-purity PTFE pneumatic diaphragm pumps, each offering distinct levels of purity and corrosion resistance to meet diverse industry needs.

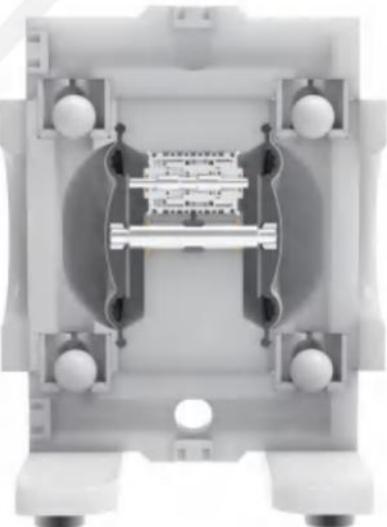
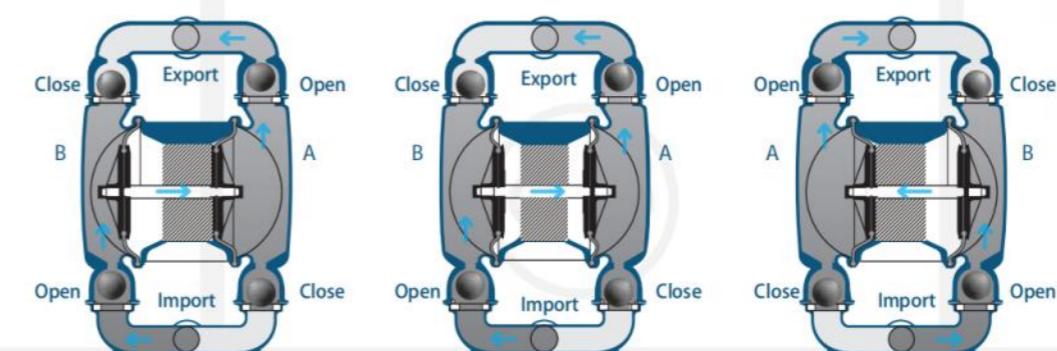
All liquid-contacting parts are manufactured from 100% pure polytetrafluoroethylene (PTFE) or ultra-high molecular weight polyethylene (UPE), with each model designed to offer

Each model is designed to provide various levels of operational performance and backup redundancy, guaranteeing long-term, uninterrupted operation.

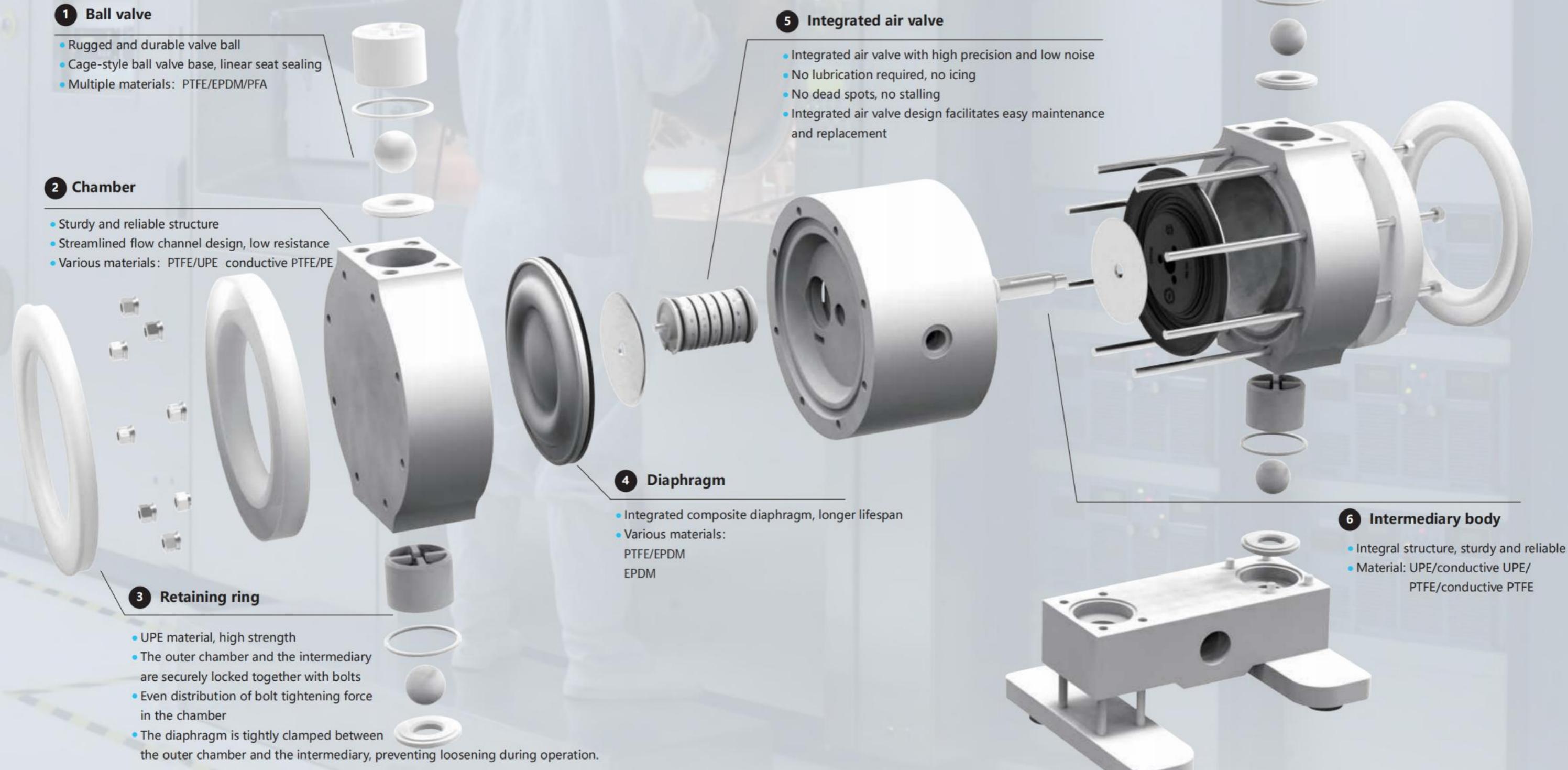
- High-strength structural design
- Inlet and outlet material: UPE/PTFE/conductive UPE/conductive PTFE
- Diaphragm and valve ball materials: PTFE/EPDM, EPDM
- Excellent dry and wet suction capabilities
- No motors, rotating parts, or shaft seals in liquid contact areas
- Stable, safe, and reliable long-term operation
- Adhere to strict quality control standards and procedures, with production under cleanroom conditions, deionized water testing, and nitrogen purification

Operating principle

The SKELEC high-purity pneumatic diaphragm pump operates using compressed air as the power source. After the pilot valve adjusts, compressed air enters the left diaphragm chamber, driving the diaphragm to move either right or left. This movement changes the volumes of the chambers on both sides, enabling the intake and discharge of materials.



High Purity PTFE Pump exploded diagram



AC SERIES



Model	AC	25	/	PE	PE	/	MT	T	T	/	OBO
S/N	1	2		3	4		5	6	7		8

S/N	Coding description										
1 2	Grade		Diameter								
	AC=Electronic High Purity PTFE Pump		08=1/4"	40=1-1/2"							
			15=1/2"	50=2"							
			25=1"								
3 4	Casing material		Intermediary body material								
	PE=UPE		PE=UPE								
	DE=conductive UPE		DE=conductive UPE								
	PT=PTFE		PA=MC Nylon								
	DT=conductive PTFE		PT=PTFE								
			DT=conductive PTFE								
5 6 7	Diaphragm material		Valve ball base material		Ball valve material						
	MM=EPDM double-layer diaphragm		T=PTFE		T=PTFE						
	MT=PTFE/EPDM double-layer diaphragm		P=PFA		P=PFA						
			E=UPE								
8	Others		AFO=ANSI Flanged								
	OBO=BSPT Threaded		JFO=NPT Flanged								
	ONO=NPT Threaded										
	DO=DIN Flanged										

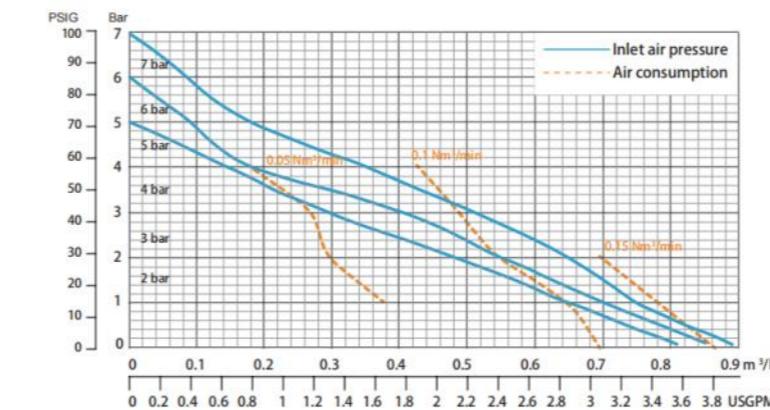
Technical specifications

Model	Maximum flow (lpm)	Inlet and outlet dimensions	Inlet size	Particle diameter (mm)	Dry suction capability(m)	Wet suction capability(m)	Displacement per stroke
AC 08	13	1/4"	1/8"	3	2	8	0.08(0.017)
AC 15	42	1/2"	1/4"	4	3.5	8.5	0.08(0.017)
AC 25	117	1"	1/2"	6	5	9	0.08(0.017)
AC 40	340	1-1/2"	3/4"	6	5	9	0.08(0.017)
AC 50	560	2"	3/4"	11	5	9	0.08(0.017)

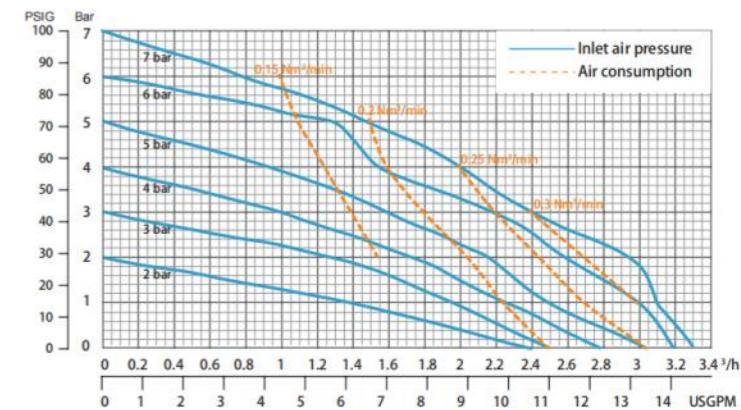
Operating pressure: 6.9Bar(100psi)

Connection methods: BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged)

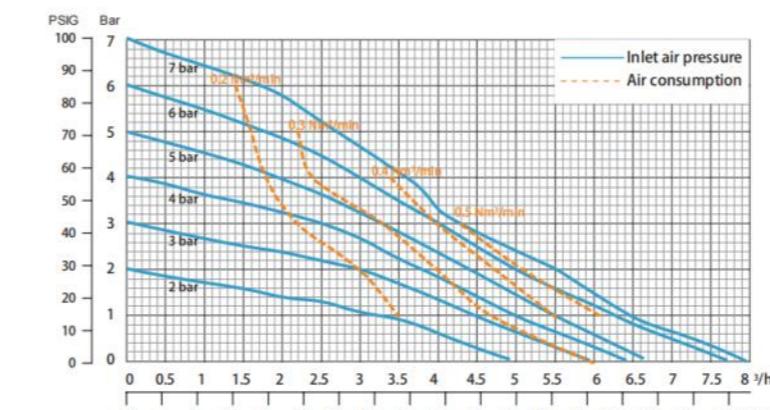
Casing temperature resistance: -30~80°C(UPE)/-37~104°C(PTFE) Intermediary body temperature resistance: 0~70°C(PE/DE)/70~100°C(PA)



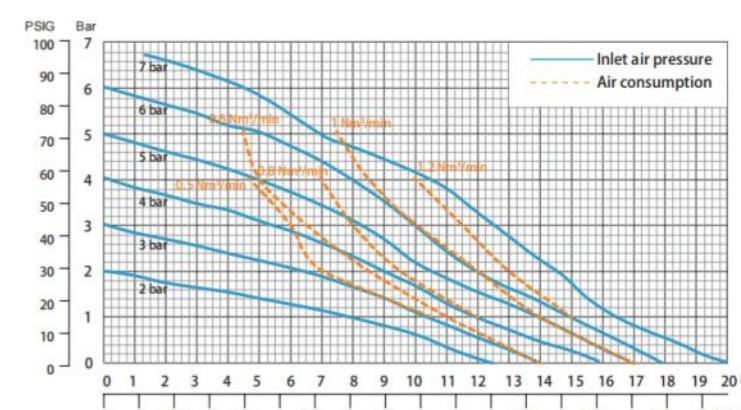
AC 08



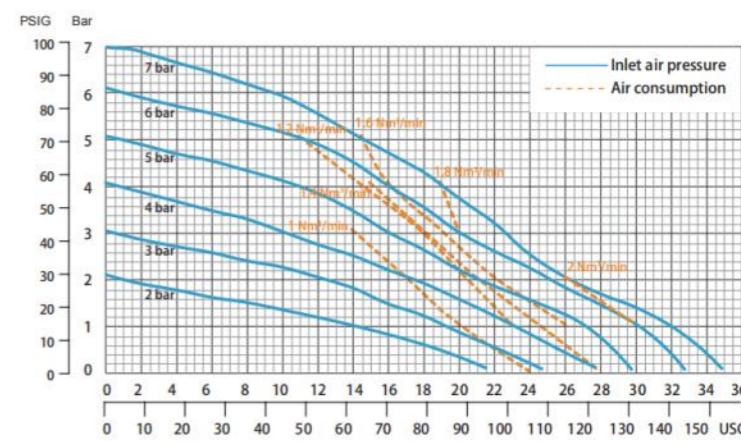
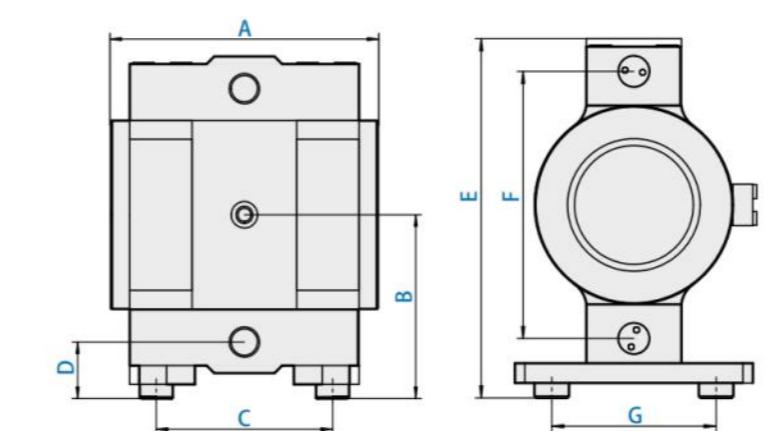
AC 15



AC 25



AC 40



AC 50

Model	A	B	C	D	E	F	G
AC 08	144	100	87	37	177	126	80
AC 15	203	154	131	54	277	200	116
AC 25	285	195	187	60	363	270	166
AC 40	430	276	260	90	521	370	230
AC 50	464	316	282	95	606	442	330



AD SERIES



Model	AD	25	/	PE	PE	/	MT	T	T	/	OBO
S/N	1	2		3	4		5	6	7		8

Coding description											
S/N											
1 2		Grade AD=Non-electronic High Purity PTFE Pump						Diameter 08=1/4" 40=1-1/2" 15=1/2" 50=2" 25=1"			
3 4		Casing material PE=UPE DE=conductive UPE PT=PTFE DT=conductive PTFE						Intermediary body material PE=UPE DE=conductive UPE PA=MC Nylon PT=PTFE DT=conductive PTFE			
5 6 7		Diaphragm material MM=EPDM double-layer diaphragm MT=PTFE/EPDM double-layer diaphragm						Valve ball base material T=PTFE P=PFA			
8		Ball valve material T=PTFE P=PFA						Others OBO=BSPT Threaded ONO=NPT Threaded DF0=DIN Flanged			

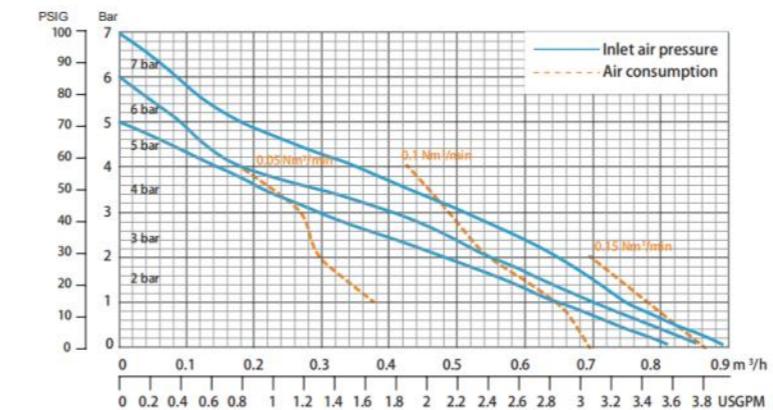
Technical specifications

Model	Maximum flow (lpm)	Inlet and outlet dimensions	Inlet size	Particle diameter (mm)	Dry suction capability(m)	Wet suction capability(m)	Displacement per stroke
AD 08	13	1/4"	1/8"	3	2	8	0.08(0.017)
AD 15	42	1/2"	1/4"	4	3.5	8.5	0.08(0.017)
AD 25	117	1"	1/2"	6	5	9	0.08(0.017)
AD 40	340	1-1/2"	3/4"	6	5	9	0.08(0.017)
AD 50	560	2"	3/4"	11	5	9	0.08(0.017)

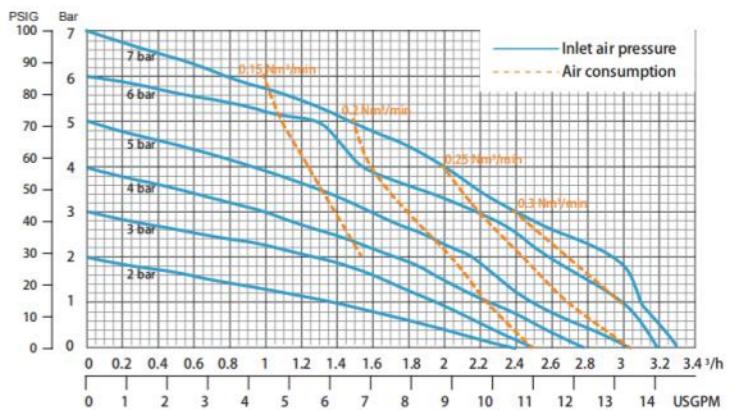
Operating pressure: 6.9Bar(100psi)

Connection methods: BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged)

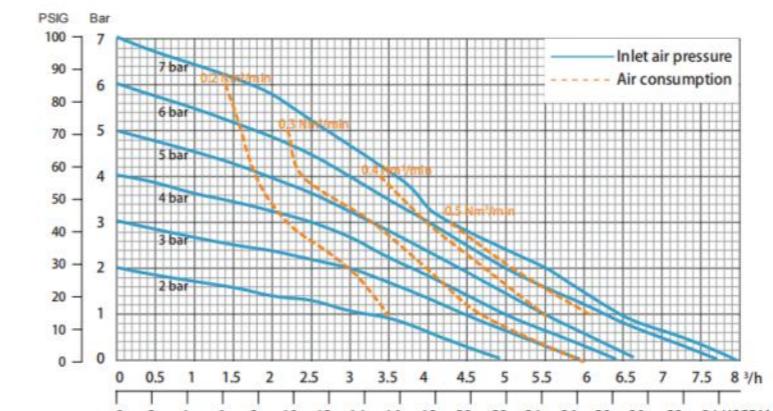
Casing temperature resistance: -30~80°C(UPE)/-37~104°C(PTFE) Intermediary body temperature resistance: 0~70°C(PE/DE)/70~100°C(PA)



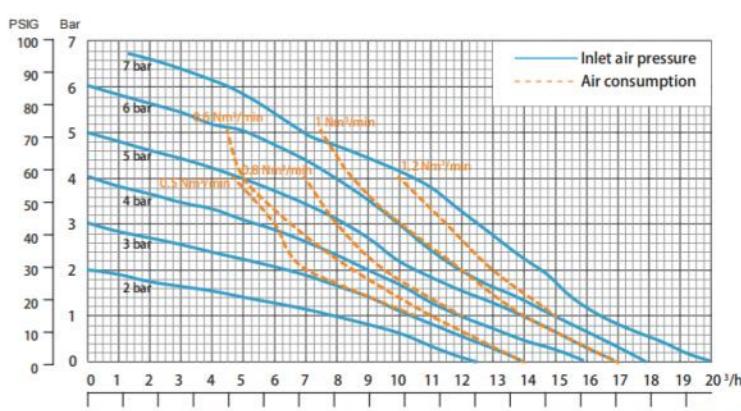
AD 08



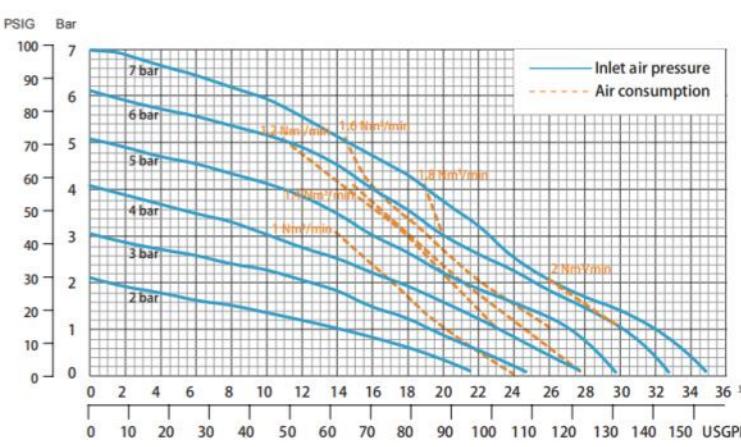
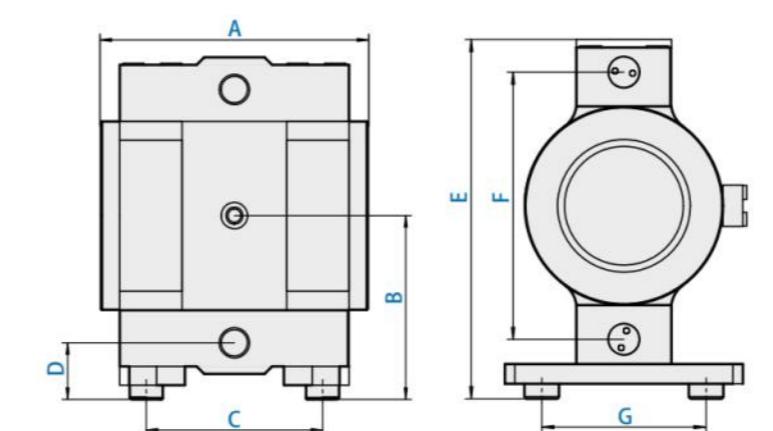
AD 15



AD 25



AD 40



AD 50



Model	A	B	C	D	E	F	G
AD 08	144	100	87	37	177	126	80
AD 15	203	154	131	54	277	200	116
AD 25	285	195	187	60	363	270	166
AD 40	430	276	260	90	521	370	230
AD 50	464	316	282	95	606	442	330

BFA-SERIES Bellows Pump

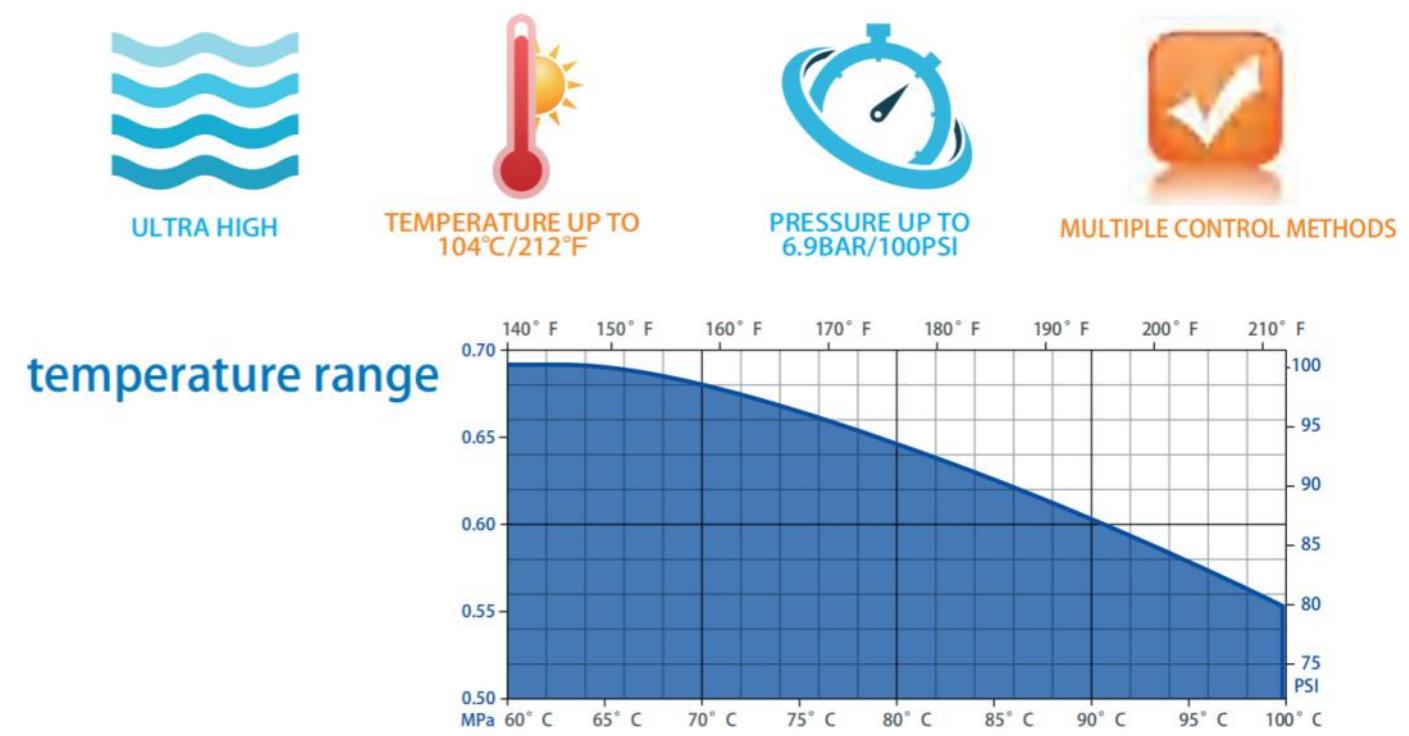
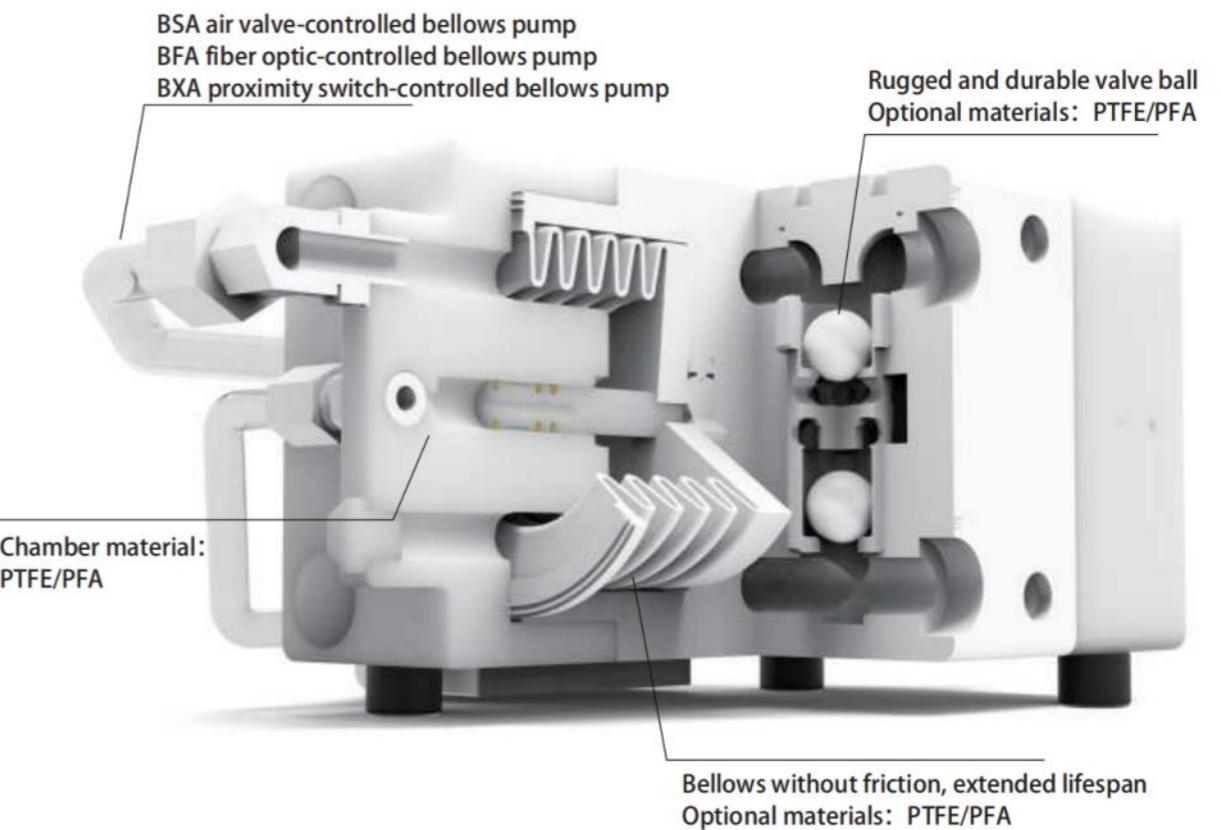
The SKELEC bellows pumps are specifically engineered for the semiconductor sector. These custom, non-metallic pneumatic bellows pumps offer truly pollution-free, reliable, and corrosion-resistant fluid transport, ensuring safe and efficient operations.

Utilizing high-purity PTFE and PFA materials in the fluid path, these pumps are free from metals, rubber O-rings, impellers, or motors. The streamlined and reliable design uses minimal components, allowing continuous operation throughout the warranty period and supporting various application scenarios with different series.



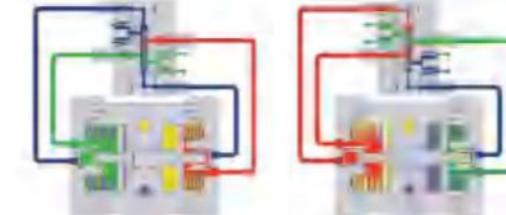
Product Features

- Suitable for high-purity, highly corrosive environments
- Manufactured and tested in cleanroom environments
- Stable performance, meeting diverse application requirements
- Easy to disassemble and maintain
- Maximum temperature resistance up to 100° C
- High reliability, prevents contamination
- Non-metallic structure, pure PTFE/PFA fluid path
- No motor structure, does not generate heat
- Fiber optic sensor controls stroke length



temperature range

BSA-SERIES

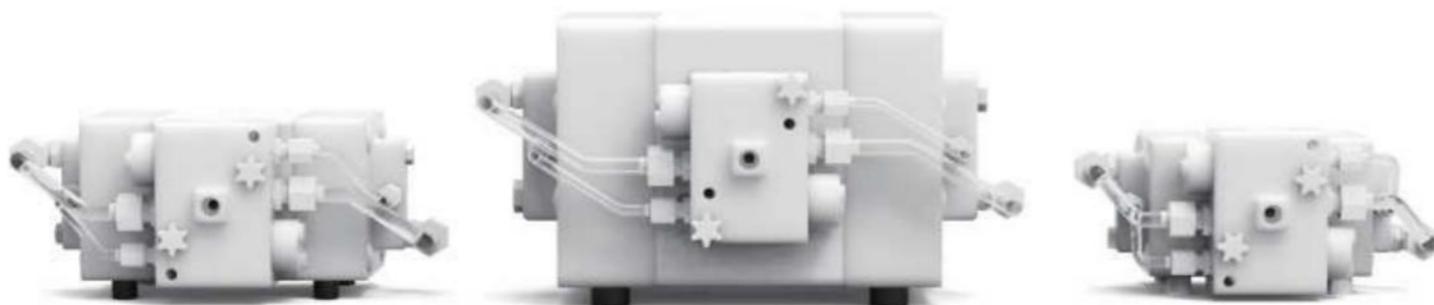


BFA/BXA-SERIES



- Air supply
- Exhaust
- Ambient air
- Switching signal
- Liquid suction
- Liquid discharge

BSA SERIES



Model	BSA	30	/	PT	PT	/	PT	T	T	/	0B	0
S/N	1	2		3	4		5	6	7		8	9

S/N	Coding description		
1 2	Grade	Model	
	BSA=Air valve-controlled bellows pump	15=15L/min	
		30=25.8L/min	
		100=100L/min	
3 4	Fluid contact material	Air path material	
	PT=PTFE	PT=PTFE	
	PF=PFA	PF=PFA	
	PE=UPE	PE=UPE	
5 6 7	Air cushion material	Valve ball base material	Ball valve material
	PT=PTFE	T=PTFE	T=PTFE
	PF=PFA	F=PFA	F=PFA
8 9	Other	Auxiliary device	
	OB=BSPT Threaded	0=No accessory	
	ON=NPT Threaded	L=With leakage detection only	
	DF=DIN Flanged	S=With optical fiber stroke detection only	
	AF=ANSI Flanged	M=With both leakage detection and optical fiber stroke detection	
	JF=JIS Flanged		

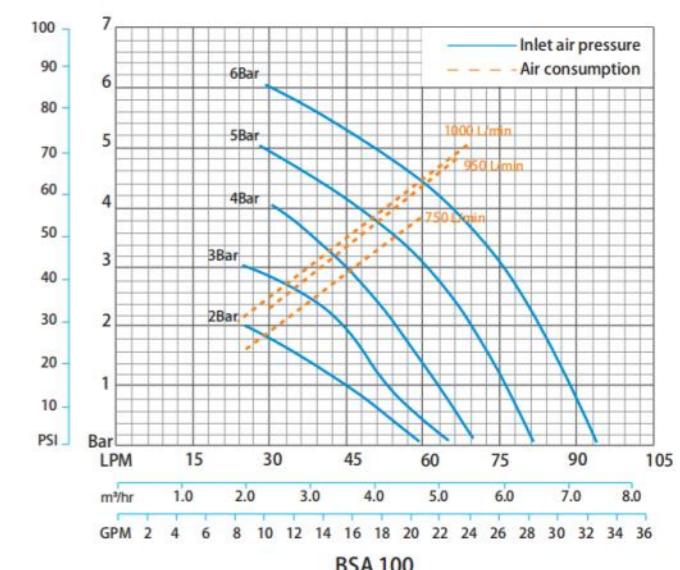
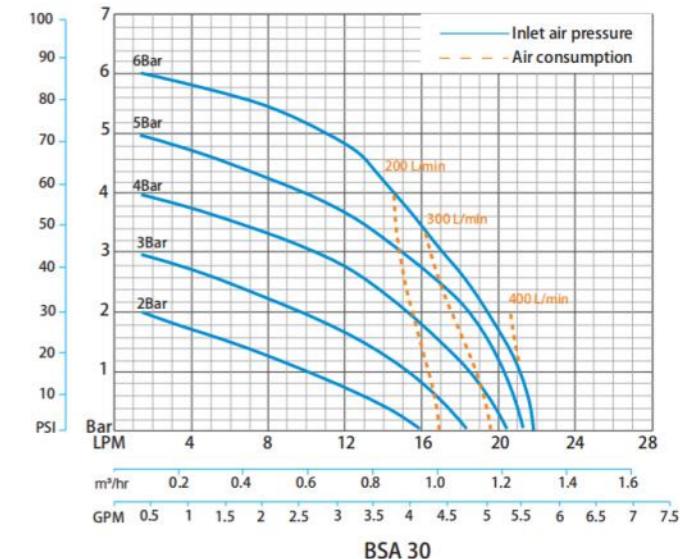
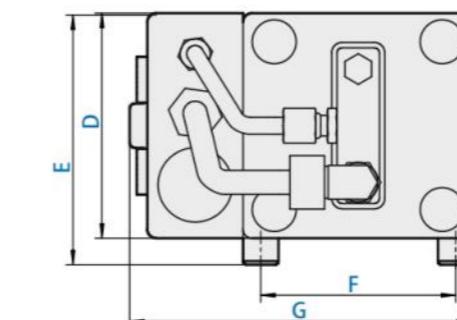
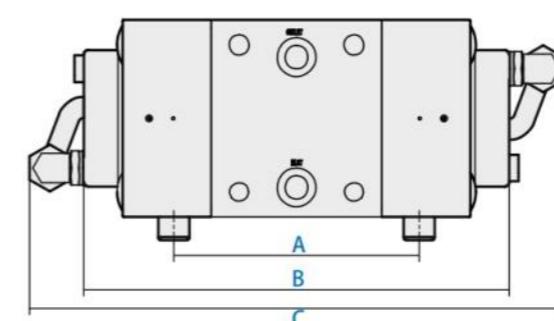
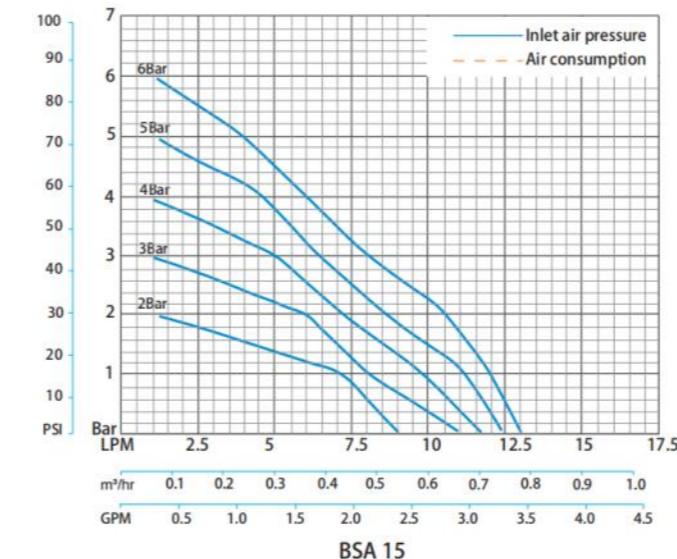
Technical specifications

Model	Maximum flow (lpm)	Inlet and outlet dimensions	Inlet size	Particle diameter (mm)	Dry suction capability(m)	Wet suction capability(m)	Weight
BSA 15	13	1/2"	3/8"	1.5	3	8.5	4.4
BSA 30	25.8	3/4"	3/8"	3	3.5	9	8
BSA 100	100	1-1/4"	3/8"	3	3.5	9.5	24.55

Operating pressure: 6.9Bar(100psi)

Casing temperature resistance: -37-104°C(PTFE)

Connection methods: BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged)



BFA SERIES



型号	BFA	30	/	PT	PT	/	PT	T	T	/	OB	0
序号	1	2		3	4		5	6	7		8	9

S/N	Coding description		
1 2	Grade	Model	
	BSA=Fiber optic-controlled bellows pump	15=15L/min 30=25.8L/min 100=100L/min	
3 4	Fluid contact material	Air path material	
	PT=PTFE PF=PFA	PT=PTFE PF=PFA PE=UPE	
5 6 7	Air cushion material	Valve ball base material	Ball valve material
	PT=PTFE PF=PFA	T=PTFE F=PFA	T=PTFE F=PFA
8 9	Other	Auxiliary device	
	OB=BSPT Threaded ON=NPT Threaded DF=DIN Flanged AF=ANSI Flanged JF=JIS Flanged	0=No accessory L=With leakage detection only (with built-in magnifying glass) S=With optical fiber stroke detection only (with built-in magnifying glass) M=With both leakage detection and optical fiber stroke detection (with built-in magnifying glass)	

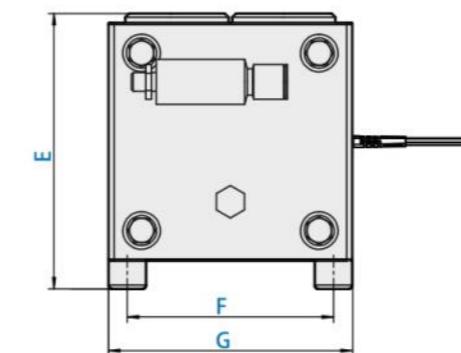
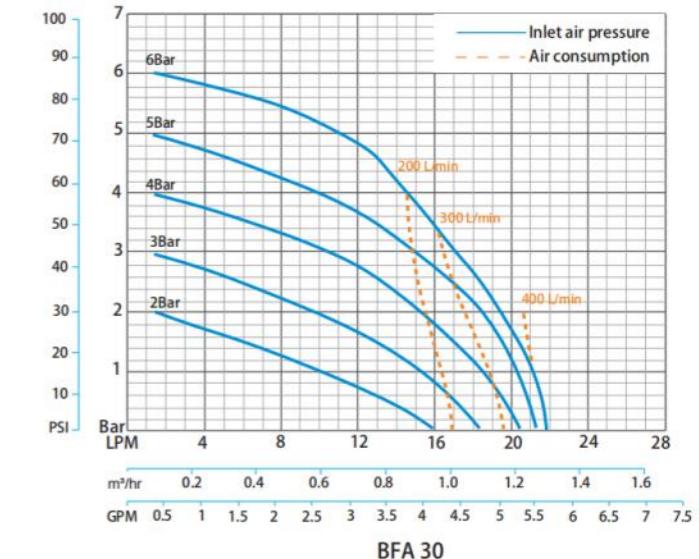
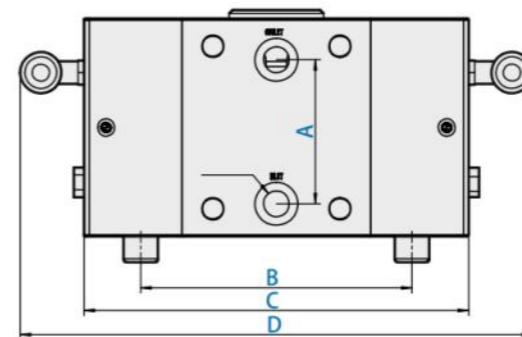
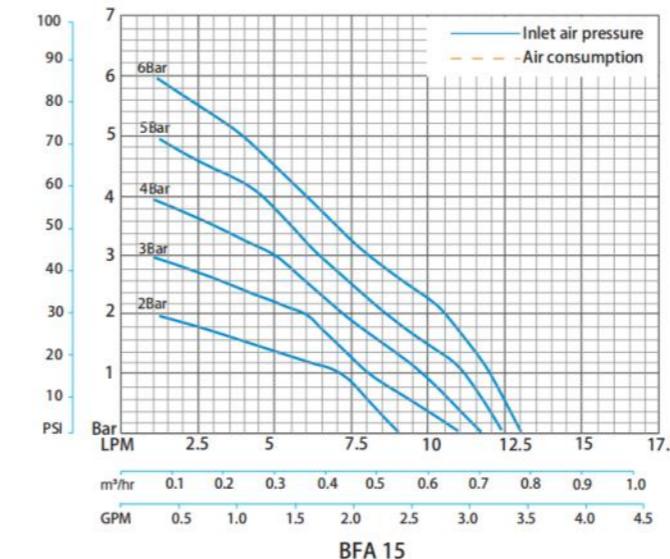
Technical specifications

Model	Maximum flow (lpm)	Inlet and outlet dimensions	Inlet size	Particle diameter (mm)	Dry suction capability(m)	Wet suction capability(m)	Weight
BFA 15	13	1/2"	3/8"	1.5	3	8.5	4.4
BFA 30	25.8	3/4"	3/8"	3	3.5	9	8
BFA 100	100	1-1/4"	3/8"	3	3.5	9.5	24.55

Operating pressure: 6.9Bar(100psi)

Casing temperature resistance: -37-104°C(PTFE)

Connection methods: BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged)



Model	A	B	C	D	E	F	G
BFA 15	57	128	176	250.4	124	85.5	110
BFA 30	84	158	224	298.4	147	110	130
BFA 100	138	214	294	383.8	219	180	206



BXA SERIES



Model	BXA	30	/	PT	PT	/	PT	T	T	/	OB	0
S/N	1	2		3	4		5	6	7		8	9

S/N	Coding description		
1 2	Grade	Model	
	BSA=Proximity switch-controlled bellows pump	15=15L/min 30=25.8L/min 100=100L/min	
3 4	Fluid contact material	Air path material	
	PT=PTFE PF=PFA	PT=PTFE PF=PFA PE=UPE	
5 6 7	Air cushion material	Valve ball base material	Ball valve material
	PT=PTFE PF=PFA	T=PTFE F=PFA	T=PTFE F=PFA
8 9	Other	Auxiliary device	
	OB=BSPT Threaded ON=NPT Threaded DF=DIN Flanged AF=ANSI Flanged JF=JIS Flanged	0=No accessory L=With leakage detection only (with built-in magnifying glass) S=With optical fiber stroke detection only (with built-in magnifying glass) M=With both leakage detection and optical fiber stroke detection (with built-in magnifying glass)	

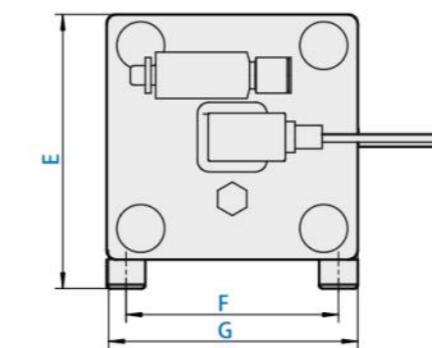
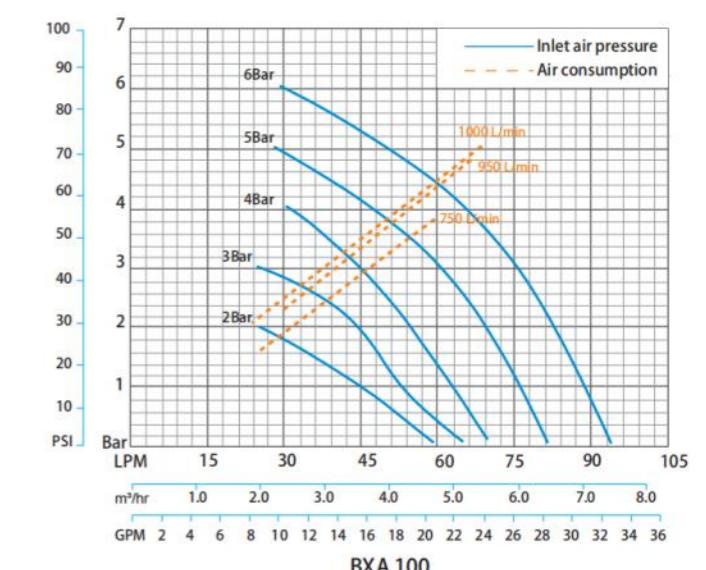
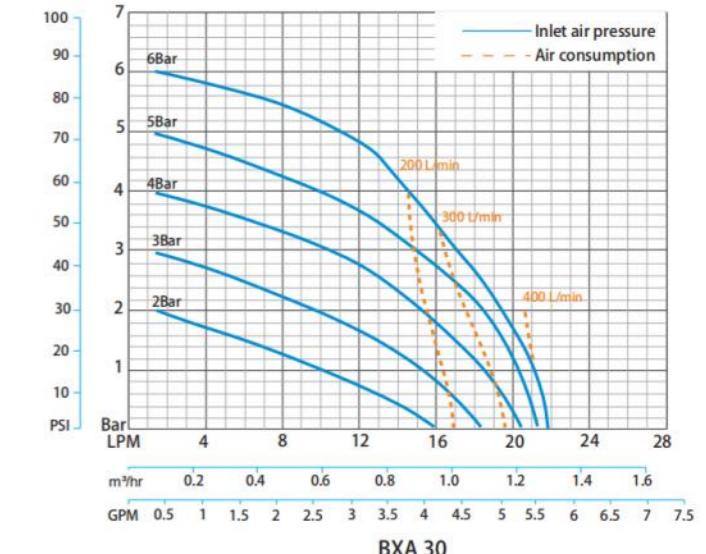
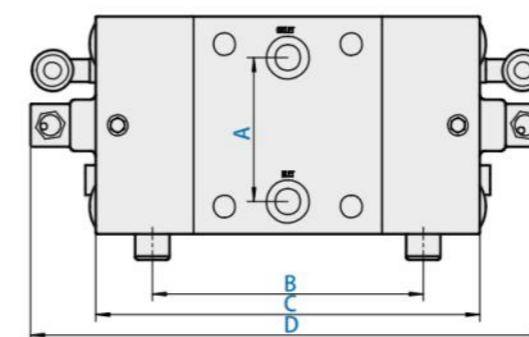
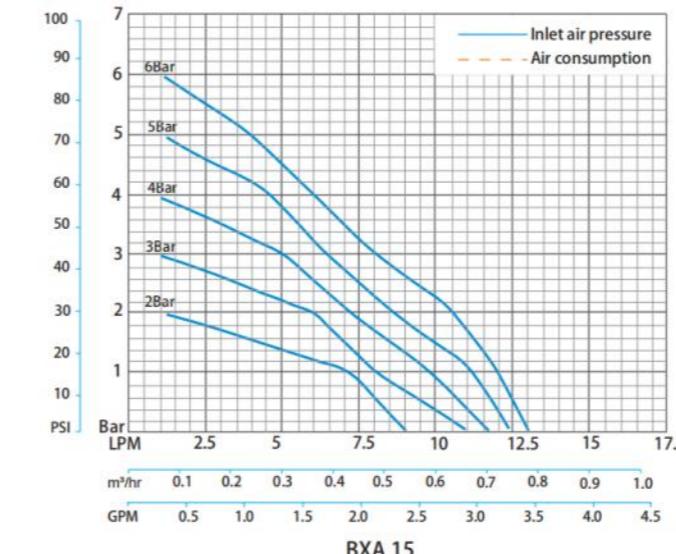
Technical specifications

Model	Maximum flow (lpm)	Inlet and outlet dimensions	Inlet size	Particle diameter (mm)	Dry suction capability(m)	Wet suction capability(m)	Weight
BXA 15	13	1/2"	3/8"	1.5	3	8.5	4.4
BXA 30	25.8	3/4"	3/8"	3	3.5	9	8
BXA 100	100	1-1/4"	3/8"	3	3.5	9.5	24.55

Operating pressure: 6.9Bar(100psi)

Casing temperature resistance: -37-104°C(PTFE)

Connection methods: BSPT/NPT (Threaded) ANSI/DIN/JIS (Flanged)



Model	A	B	C	D	E	F	G
BXA 15	57	128	176	252	124	85.5	110
BXA 30	84	158	224	300	142	110	129
BXA 100	138	214	294	383.8	221	160	206



D-SERIES

Pressure tank



- Capable of reducing pulse amplitude by 50%-60% to stabilize pressure
- Enhance pipeline safety, preventing excessive impacts
- Reduce pipeline vibration and noise
- Simple installation

Model	D	15	/	PT	PE	/	MT	/	OBO
S/N	1	2		3	4		5		6

S/N	Coding description	
2	Diameter	
	08=1/4"	40=1.5"
	15=1/2"	50=2"
	25=1"	
3 4	Casing material	Intermediary body material
	PE=UPE	PE=UPE
	DE=Conduct electricity UPE	DE=Conduct electricity UPE
	PT= PTFE	PT= PTFE
	DT=Conduct electricity PTFE	DT=Conduct electricity PTFE
5 6	Diaphragm material	Other
	MM=EPDM double-layer diaphragm	OBO=BSPT Threaded
	MT=PTFE/EPDM double-layer diaphragm	

