

全塑化氣動雙隔膜泵浦



Phoenix

CE   EAC

- (1) 材質：PP, PVDF, ALUMINIUM, SS AISI 316, POMc
- (2) 流量：8 lts/min to 1000 lts/min
- (3) 口徑：¼" to 3"



Phoenix Atex

CE   EAC

- (1) 材質：PP+CF, PVDF+CF, ALUMINIUM, SS AISI 316, POMc+CF
- (2) 流量：8 lts/min to 1000 lts/min
- (3) 口徑：¼" to 3"



FDA 食品級

CE  FDA  EAC

- (1) 材質：SS AISI 316 electro-polished
- (2) 流量：18 lts/min to 1000 lts/min
- (3) 口徑：Tri-Clamp Connection.



脈衝吸收器

CE  FDA  EAC

- (1) 材質：PP, PVDF, ALUMINIUM, SS AISI 316, POMc
- (2) 口徑：¾" to 2"

型號規格

<u>P</u>	<u>0160</u>	<u>P-</u>	<u>MT</u>	<u>T</u>	<u>P</u>	<u>V</u>	<u>1</u>	<u>-</u>	<u>AB</u>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
機型	規格	泵體	膜片	球閥	球座	O環	接口型式	ATEX規範	入出口方向

■ 義大利 fluimac Phoenix 氣動式雙隔膜泵浦

(1) 機型：

P：全塑化機體氣動式雙隔膜泵
 PF：符合FDA食品級全塑化機體氣動式雙隔膜泵(316SS+拋光)



(2) 規格：

0007：¼" (max 8 L/min)
 0018：⅜" (max 20 L/min)
 0030：½" (max 35 L/min)
 0050：½" (max 55 L/min)
 0100：¾" (max 110 L/min)
 0160：1" (max 170 L/min)
 0250：1.2" (max 250 L/min)
 0400：1.5" (max 400 L/min)
 0700：2" (max 700 L/min)
 1000：3" (max 1050 L/min)

(3) 泵體材質：

P-：PP
 S-：SS316
 A-：ALU
 O-：POM
 PC：PP+CF
 KC：PVDF+CF
 OC：POMC+CF
 SS：SS316+POLISHED
 (食品級)

(4) 膜片材質：

M-：Santoprene
 H-：Hytrel
 N-：NBR
 D-：EPDM
 MT：Santoprene+PTFE
 HT：Hytrel+PTFE
 NT：NBR+PTFE

(5) 球閥材質：

T：PTFE
 S：SS316
 D：EPDM
 N：NBR

(6) 球座材質：

P：PP
 A：ALU
 S：SS316
 Z：UPE
 KC：PVDF+CF

(7) O環材質：

V：FKM(VITON)
 D：EPDM
 N：NBR
 T：PTFE

(8) 接口型式：

1：BSP內牙
 2：DIN法蘭口
 5：NPT內牙

(9) ATEX規範：

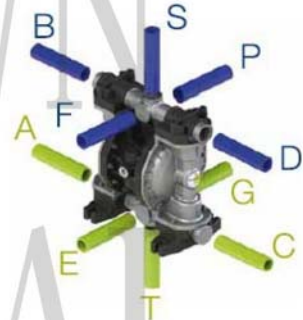
-：Zone 2
 X：Zone 1 (泵體為金屬或可導電型材)

(10) 入出口方向：

標準：AB方向(側入側出)
 其它依客製化條件訂做

■ 特點：

1. 氣室免潤滑，只需提供乾淨與乾燥的空氣即可。
2. 氣室為全塑化成型，重量輕，耐蝕性高。
3. 氣室採非平衡閥式設計，長時間低壓運轉絕不卡機，
4. 本產品可空轉、可自吸、可有限度吸入雜質及用於有黏度的液體。
5. 全系列產品通過ATEX認證，泵體可採用金屬或導電型塑材，可用於Zone 1 Ex II 2/2 GD C II B T135°C
6. PF食品級系列為316SS拋光，全系列符合FDA規範



■ 說明：

fluimac Phoenix 氣動式雙隔膜泵浦擁有創新設計，可提供出入口尺寸由¼"~3"，可提供材質有PP、PVDF、POM、Aluminium、SUS316..等，結構簡單，零件少，維修方便，可大幅降低操作成本，全塑化機體，可耐蝕，氣室結構穩固，可承受最大氣壓8bar

■ 運行原理：

採用氣壓差非平衡方式分配氣源，使兩側氣室反覆充/排氣，進而透過膜片將液體吸入與排出，氣室內不採用彈簧等機械結構分配氣源，保證不卡機

Cycle 1

空氣充滿右側氣室時，左側膜片產生吸力，綠色的球閥會開啟，紅色的球閥會逆止，此時左側膜片吸入液體，右側膜片則同時排出液體



Cycle 2

空氣充滿左側氣室時，右側膜片產生吸力，綠色的球閥會開啟，紅色的球閥會逆止，此時右側膜片吸入液體，左側膜片則同時排出液體



Phoenix P7

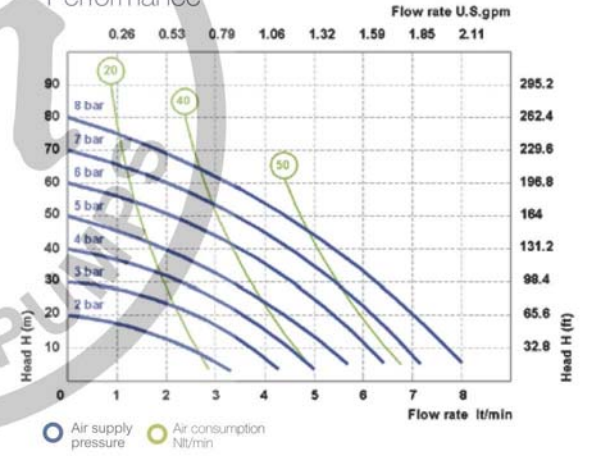


Technical data

Fluid connections:	1/4" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	4 mm	Max Solid passing:	2,5 mm
Max flow-rate:	8 lt/min	Noise level:	62 dB
Max air pressure:	8 Bar	Displacement for cycle:	8 cc
Max delivery head:	80 mt	Max Viscosity:	6.000 cps
Max Suction Lift Dry:	3 mt		

EX II 3/3 GD c IIB T 135°C

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0007	P = PP KC = PVDF+CF O = POMc	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 5 = NPT	- = zone 2	AB = STANDARD

Phoenix P18

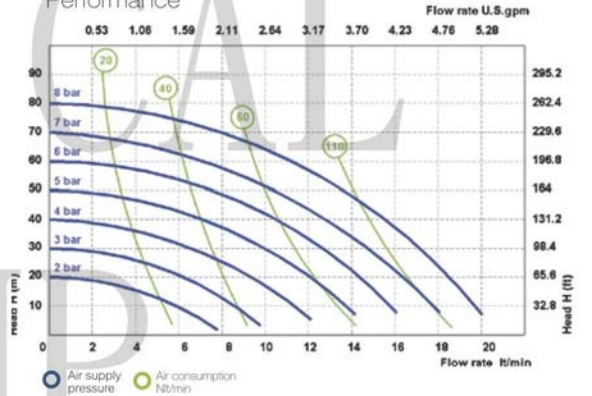


Technical data

Fluid connections:	3/8" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	6 mm	Max Solid passing:	3 mm
Max flow-rate:	20 lt/min	Noise level:	65 dB
Max air pressure:	8 Bar	Displacement for cycle:	30 cc
Max delivery head:	80 mt	Max viscosity:	12.000 cps
Max Suction Lift Dry:	6 mt		

EX II 3/3 GD c IIB T 135°C

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0018	P = PP KC = PVDF+CF O = POMc S = SS	NT = NBR+PTFE	T = PTFE S = SS	P = PP K = PVDF O = POMc S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 5 = NPT	- = zone 2	AB = STANDARD

Phoenix P30

Technical data

Fluid connections:	1/2" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	6 mm	Max Solid passing:	3,5 mm
Max flow-rate:	35 lt/min	Noise level:	65 dB
Max air pressure:	8 Bar	Displacement for cycle:	50 cc
Max delivery head:	80 mt	Max Viscosity:	15.000 cps
Max Suction Lift Dry:	5 mt		

EX II 3/3 GD c IIB T 135°C

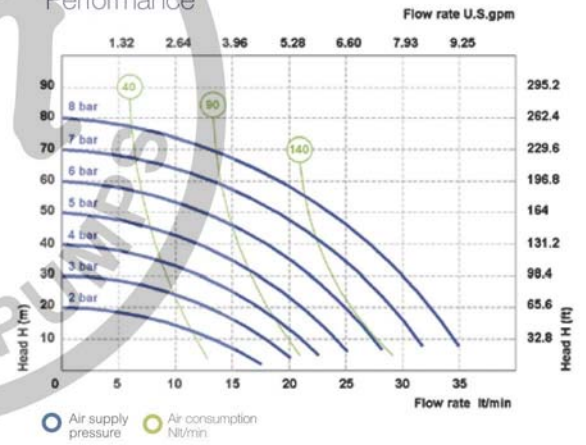


PVDF+CF

POMc

AISI 316

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0030	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP	= zone 2	AB = STANDARD
	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	KC = PVDF+CF	V = VITON	2 = FLANGED		
	O = POMc	H = HYTREL	D = EPDM	O = POMc	N = NBR	5 = NPT		
	S = SS	M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			

Phoenix P50

Technical data

Fluid connections:	1/2" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	1/4" BSP	Max Solid passing:	3,5 mm
Max flow-rate:	55 lt/min	Noise level:	68 dB
Max air pressure:	8 Bar	Displacement for cycle:	85 cc
Max delivery head:	80 mt	Max Viscosity:	20.000 cps
Max Suction Lift Dry:	6 mt		

EX II 3/3 GD c IIB T 135°C



PVDF+CF

ALU

AISI 316

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0050	P = PP	HT = HYTREL+PTFE	T = PTFE	P = PP	D = EPDM	1 = BSP	= zone 2	AB = STANDARD
	KC = PVDF+CF	MT = SANTOPRENE+PTFE	S = SS	KC = PVDF+CF	V = VITON	2 = FLANGED		
	A = ALU	H = HYTREL	D = EPDM	A = ALU	N = NBR	5 = NPT		
	S = SS	M = SANTOPRENE	N = NBR	Z = PE-UHMWE	T = PTFE			

Phoenix P100

Technical data

Fluid connections:	3/4" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	3/8" BSP	Max Solid passing:	3,5 mm
Max flow-rate:	110 lt/min	Noise level:	72 dB
Max air pressure:	8 Bar	Displacement for cycle:	100 cc
Max delivery head:	80 mt	Max Viscosity:	25.000 cps
Max Suction Lift Dry:	6 mt		

EX II 3/3 GD c IIB T 135°C



PP



PVDF+CF

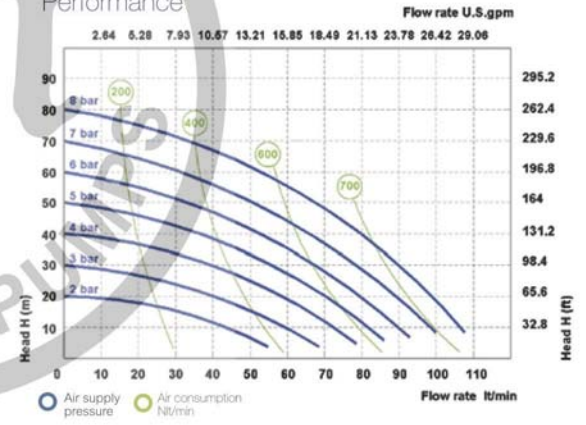


ALU



AISI 316

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0100	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP KC = PVDF+CF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	= zone 2	AB = STANDARD

Phoenix P160

Technical data

Fluid connections:	1" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	1/2" BSP	Max Solid passing:	7,5 mm
Max flow-rate:	170 lt/min	Noise level:	75 dB
Max air pressure:	8 Bar	Displacement for cycle:	330 cc
Max delivery head:	80 mt	Max Viscosity:	35.000 cps
Max Suction Lift Dry:	6 mt		

EX II 3/3 GD c IIB T 135°C



PP



PVDF+CF

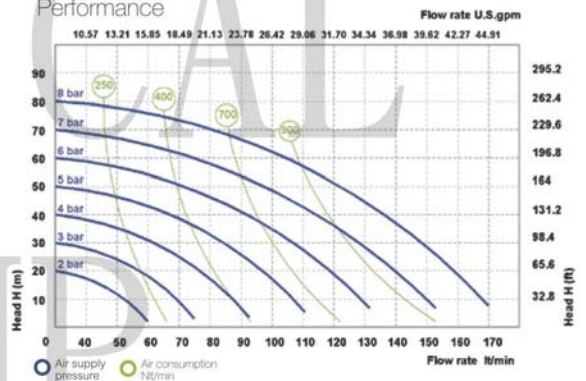


ALU



AISI 316

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0160	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP KC = PVDF+CF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	= zone 2	AB = STANDARD

Phoenix P250

Technical data

Fluid connections:	1" 1/4 BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	1/2" BSP	Max Solid passing:	7,5 mm
Max flow-rate:	250 lt/min	Noise level:	75 dB
Max air pressure:	8 Bar	Displacement for cycle:	330 cc
Max delivery head:	80 mt	Max Viscosity:	35.000 cps
Max Suction Lift Dry:	6 mt		

EX II 3/3 GD c IIB T 135°C

PP



PVDF+CF



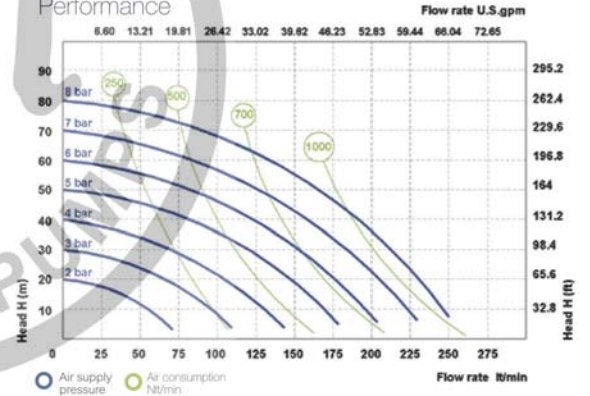
ALU



AISI 316



Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0250	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP KC = PVDF+CF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	= zone 2	AB = STANDARD

Phoenix P400

Technical data

Connection:	1"1/2 BSP Dn 40	Max pressure:	8 bar
Max flow-rate:	400 lt/min	Materials:	PP,PVDF,INOX
Air connection:	3/4" BSP	Noise level:	78 dB
Max head:	80 m	Max viscosity:	45000 cps
Self-priming capacity:	5 m		
Diameter passing solids:	6 mm		

EX II 3/3 GD c IIB T 135°C

PP



PP



PVDF+CF



AISI 316



Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0400	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP KC = PVDF+CF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	= zone 2	AB = STANDARD

Phoenix P700

PP



PVDF+CF



ALU



AISI 316

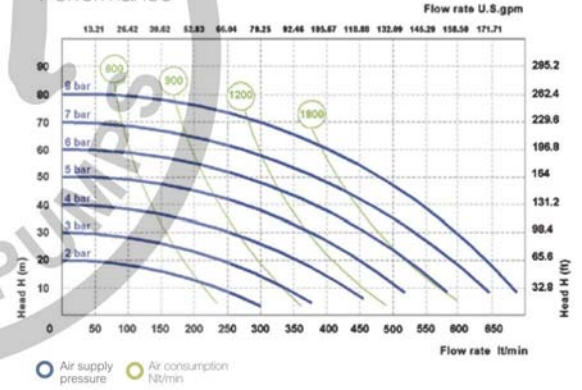


Technical data

Fluid connections:	2" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	3/4" BSP	Max Solid passing:	8,5 mm
Max flow-rate:	700 lt/min	Noise level:	78 dB
Max air pressure:	8 Bar	Displacement for cycle:	1250 cc
Max delivery head:	80 mt	Max Viscosity:	50.000 cps
Max Suction Lift Dry:	5 mt		

EX II 3/3 GD c IIB T 135°C

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P0700	P = PP KC = PVDF+CF A = ALU S = SS	HT = HYTREL+PTFE MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE D = EPDM N = NBR	T = PTFE S = SS D = EPDM N = NBR	P = PP KC = PVDF+CF A = ALU S = SS Z = PE-UHMWE	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED 5 = NPT	= zone 2	AB = STANDARD

Phoenix P1000

PP



PVDF



ALU



AISI 316

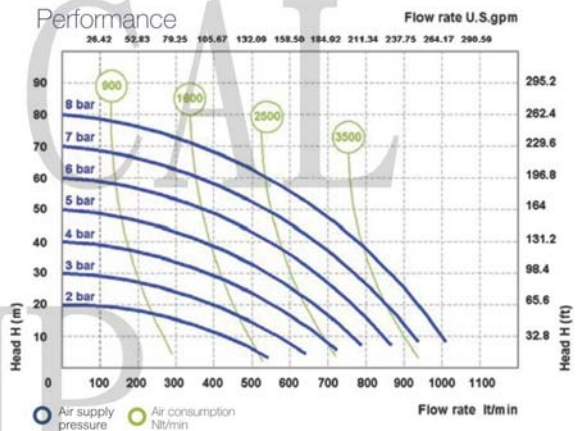


Technical data

Fluid connections:	3" BSP	Max Suction Lift Wet:	9,8 mt
Air connection:	3/4" BSP	Max Solid passing:	10 mm
Max flow-rate:	1050 lt/min	Noise level:	78 dB
Max air pressure:	8 Bar	Displacement for cycle:	2825 cc
Max delivery head:	80 mt	Max Viscosity:	55.000 cps
Max Suction Lift Dry:	5 mt		

EX II 3/3 GD c IIB T 135°C

Performance



Composition

MODEL	CASING	DIAPHRAGM	BALLS	SEATS	GASKET	CONNECTIONS	ATEX	PORTS
P1000	P = PP K = PVDF A = ALU S = SS	MT = SANTOPRENE+PTFE H = HYTREL M = SANTOPRENE	T = PTFE S = SS D = EPDM N = NBR	P = PP K = PVDF A = ALU S = SS	D = EPDM V = VITON N = NBR T = PTFE	1 = BSP 2 = FLANGED	= zone 2	AB = STANDARD

脈衝吸收器

D020 ↓	P- ↓	H ↓	T ↓	X ↓
型式	本體	空氣側膜片	液體側膜片	防爆區別
D020	P- : PP	H : Hytrel	T : PTFE	None : Zone 2
D025	KC : PVDF+CF	M : Santoprene		X : Zone 1
D040	S- : AISI 316			
D050	A- : ALU			

主動追隨型脈衝吸收器
 採用氣壓自動調整膜片背壓，
 配置於高背壓的應用場合
 可有效吸收70%~80%的脈衝
 接液膜片材質為PTFE
 可廣泛用於各種化學葯液

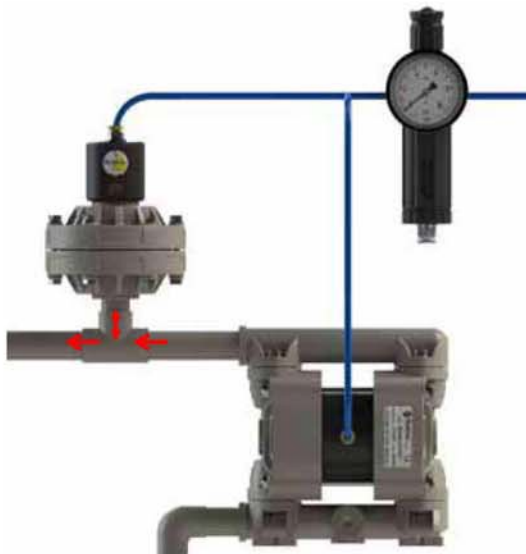
■ 結構圖



■ 規格表

型式	液體口徑 (BSP)	氣源口徑	最高氣壓	接液材質	建議搭配 泵浦機型	外部尺寸 mm
D020	3/4"	6 mm	8 bar	PP/PVDF/POMC/AISI	P7~P30	Ø119*143H
D025	1"	8 mm	8 bar	PP/PVDF/POMC/AISI	P50~P100	Ø181*195H
D040	1.5"	10 mm	8 bar	PP/PVDF/POMC/AISI	P160~P250	Ø233*270H
D050	2"	12 mm	8 bar	PP/PVDF/ALU/AISI	P400~P1000	Ø404*420H

■ 配置圖



鈦城科技有限公司
 TI TOWN TECHNOLOGY CO., LTD
 桃園市龜山區忠義路二段332號
 Web site : www.titown.net
 E-MAIL : titown.pump@msa.hinet.net
 pump@titown.net

