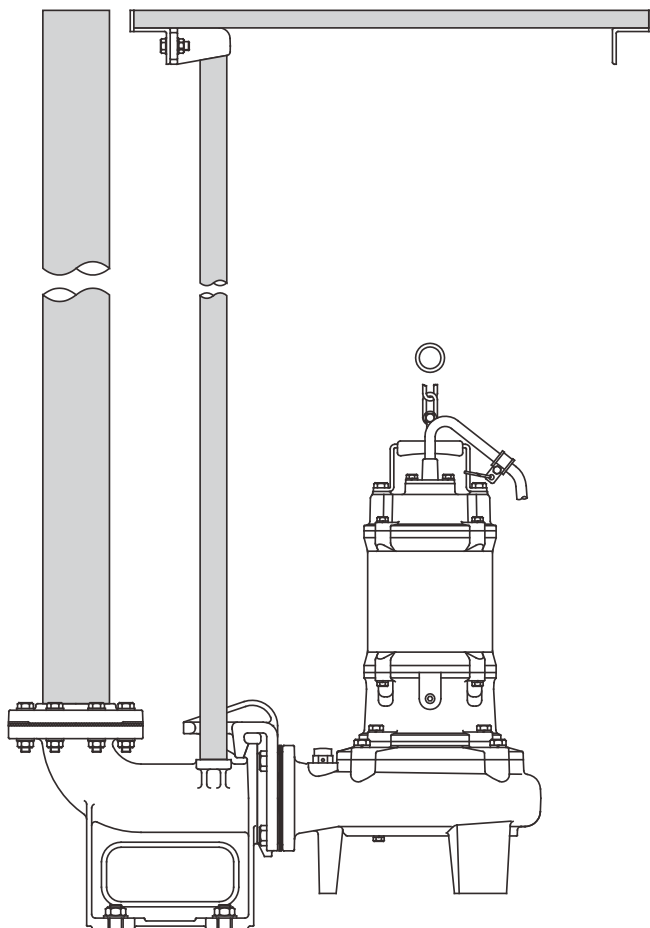




Guide Rail System-Instruction Manual

GRS 著脫裝置 - 產品操作說明書

※ 若需閱讀繁體中文版說明，請翻至 11 頁



- Make sure you are familiar with this Instruction Manual and that you understand installation and operation procedures of this product.
- Provide this 'Instruction Manual' to technicians in charge of maintenance and inspection of this product. Store the Instruction Manual in a safe place where it can be accessed easily.
- Improper handling of this pump or operating it in unsuitable environment may reduce product performance and present hazards that can lead to accident.
- Please pay close attention to the 'Warning' , 'Caution' and 'Note' parts of this 'Instruction Manual'.
- When encountering any issues with the pump please contact with local dealer or HCP sales representative for further assistance. Improper handling of this pump may reduce its performance or result in accident leading to injuries.
- This pump must be operated by qualified technician. Operating this pump by unqualified personel may lead to fire, electrical shock and other injuries.



This is the safety alert symbol. Paying constant attention to safety is always extremely important.



Warning

Indicates a hazardous situation which, if not avoided **MAY** result in **DEATH, SERIOUS INJURY,PROPERTY DAMAGE**



Caution

Indicates a hazardous situation which, if not avoided **MAY** result in **MINOR or MODERATE INJURY,PROPERTY DAMAGE.**

- ※ The manufacturer respect the product quality and safety. It is important users to pay attention to all safety matters and their own personal safety.

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1

Guide Rail System (GRS)

- All the GRS can be applied in sewage, effluent or dewatering with side discharge submersible pumps. GRS is auto coupling system used in tanks for easy automatic engagement and disengagement for removing the pump for service or repair without draining or enter the Basins.

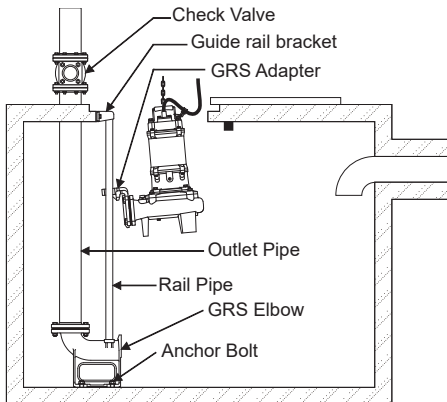


Figure 1

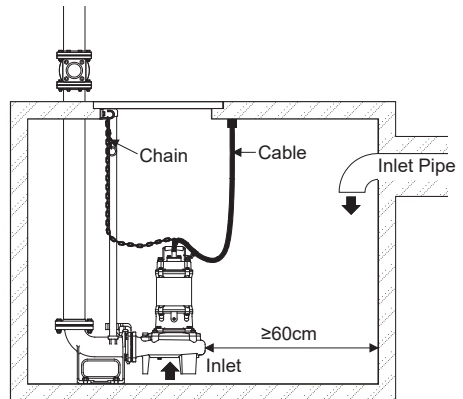


Figure 2

2

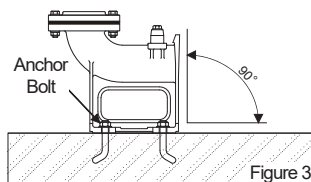
Pre-installation checks

- Please make sure GRS package with correct size of Elbow, Bracket, Adapter, 4m Stainless 304 Chain and packing/bolts accessories.
- Make sure Rail and can fit GRS. Make sure tapped holes fits GRS Elbow and Pump. (Please refer to pump dimensions)
- Pump need to avoid direct impact from inlet. Maintain 60cm (2 feet) distance between pump and inlet pipe. (Figure 2)

3 GRS installation

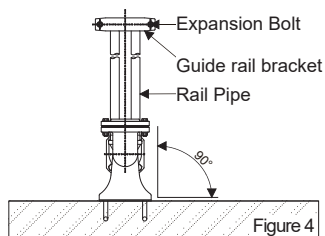
- GRS Elbow:

GRS Elbow need to place properly and leveled on bottom base. (Figure 3)



- Guide Rail Bracket:

Guide rail bracket needs to place properly and line up with GRS Elbow. (Figure 4)

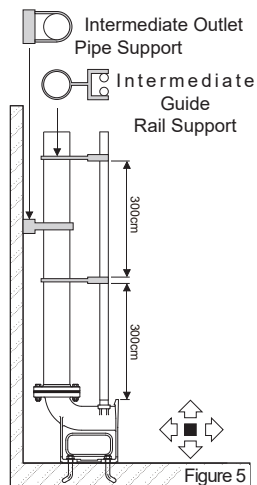


- Rail :

Place two proper size and length rail pipes between GRS Elbow and Guide rail bracket. The Intermediate Guide Rail Support is required for every 300cm (3m) of rail pipe. (Figure 5) (Rail Pipe specification please refer to Section 9. GRS Specification Table)

- Outlet Flange:

The GRS elbow needs to be properly connected to outlet pipe line, and install proper check valve to prevent from back flow. (Figure 5) The intermediate Outlet Pipe support is recommended for every 300cm (3m).



- Inspection

Check GRS is firmly anchored on the ground, all parts are firmly tightened and the discharge connection is leveled.

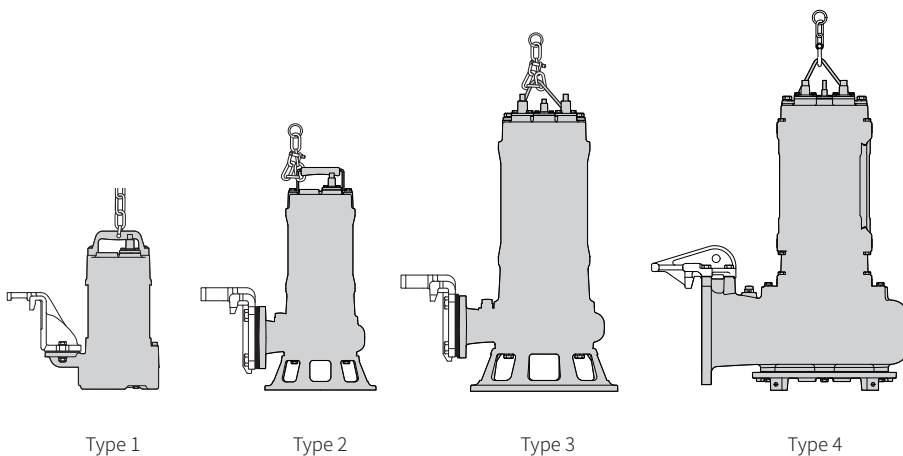
4 GRS Operatio

- GRS Adapter:

Mount GRS adapter on pump outlet flange, remove pump elbow or flange before mounting. (Refer to Section 9. GRS Specification Table for GRS models.)

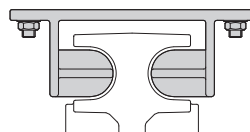
- Lifting Stainless Chain:

Mounted stainless chain or lifting cable on the pump handle or lifting ring.



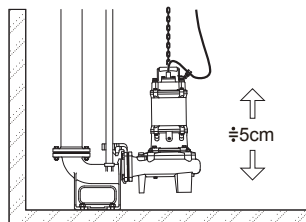
- Connecting pump to GRS Elbow:

Position Pump to Guide rail bracket so the guide rail pipes are captured the GRS adapter.



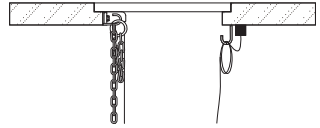
- Inspection

Check the pump is seated correctly on GRS Elbow, by lifting pump 5cm and then lower the pump until rests.



- Secure lifting Chain and Power Cable:

Secure lifting chain and power cable separately on top of manhole after pump connected with GRS.

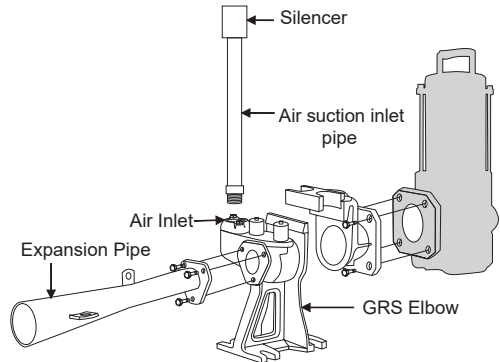


- Operation Test

Turn on power to check if pump function properly. Insure the pump is submerged in water before testing. Turn off the pump immediately if any abnormal operation is found. Please contact with authorized local dealers or sales representative.

5 Jet GRS Installation

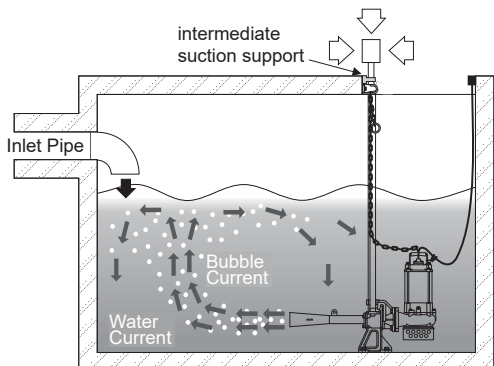
- Mounted expansion pipe to Jet GRS Elbow.
- Jet GRS Elbow need to place properly and leveled on bottom base. Jet GRS Bracket needs to place properly and line up with Jet GRS Elbow. Place two proper size and length rail pipes between Jet GRS Elbow and Jet GRS Bracket.



- Suction and Optional Silencer:

Mounted appropriate pipe length on Jet GRS Elbow air suction inlet. Optional Silencer can be mounted on air suction inlet.

- Follow Section 4. GRS pump installation step for Jet GRS pump installing.



6

Notice

- Check pump specifications and performances when design pump installation and piping (pipe diameter, length...etc), to avoid any damage and efficiency loss.
- Insure the water level is never below the Lowest Water level (L.W.L.) to prevent pump cavitation and performance losses.
- Operating water level below Continuous Running Water Level (C.W.L.); it can lead to motor failure from overheating caused by insufficient submerged condition.
- Pump might not be easily pulled up or lowered down when pump is interfered with other objects or pump is not seated in proper position. Trying to pulling up or lowering down pump in different position carefully to avoid pump damage.
- Pump cable and GRS chain must be secured in order to avoid damage which is caused by wavering of cable or chain.

Warning

- Cable end or joint shall never be contacted with water or submerged in water, which may result in electricity leakage.

Caution

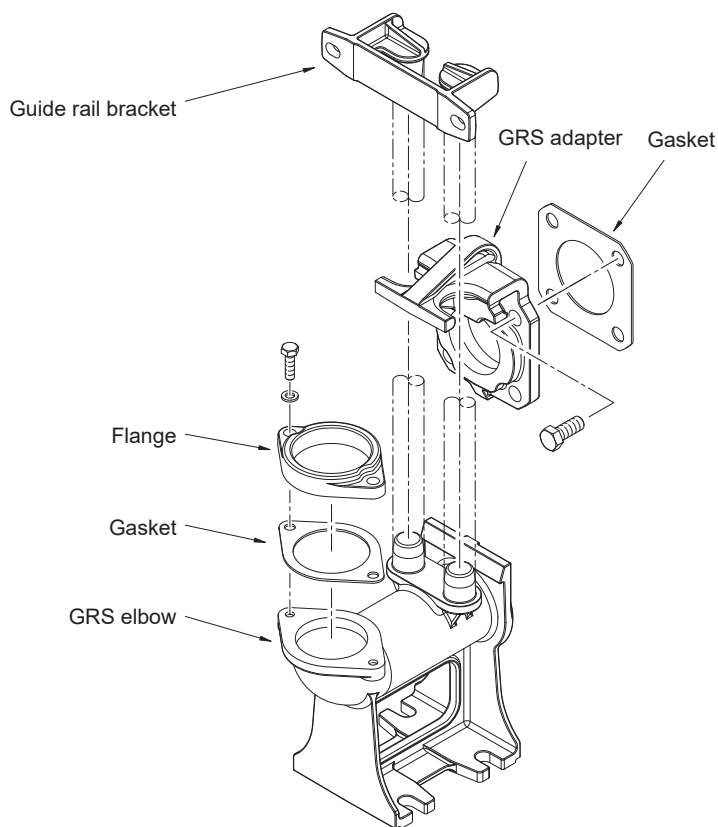
- Do not lift, carry or hang pump by power cable. Secure lifting chain and power cable separately on top of manhole.
- Do not lifting pump if power cable is interfere with any objects when lifting pump. It can cause product damage.
- At least two people (or more than two people) have to be assigned and proper equipments for confined space job. Must following Atmospheric Testing Confined Spaces Regulation, Entry or reentry must Not be permitted before any Atmospheric conditions has been approved. Dangerous atmospheres can kills worker in confined space as well as those attempting rescue.

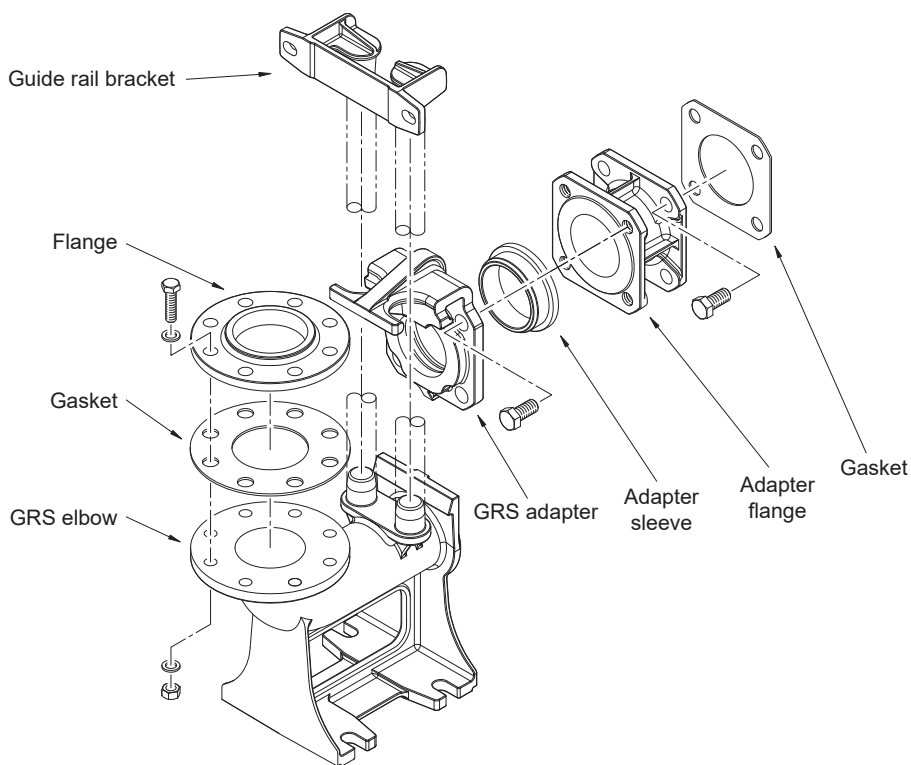
7

Disassembly and Assembly

Warning

- Disconnect power supply before disassembly and assembly of pump. Keep hands dry when making contact with power switch and plug.
- Do not attempt to operate the pump during installation, servicing. It could result personal injury or product or property damage.
- When damage observed on the product, please contact with authorized local dealers or sales representative.
- GRS Sectional drawing is for reference only. Please contact authorized local dealers or sales representative for GRS sectional drawing.





8

Troubleshooting

Symptom	Possible Cause	Recommendation
Unable to be pulled up	inappropriate chain position.	Adjust the Chain position and to aligned vertically with pump.
	Chain Loosen	Mounted Chain on the pump handle.
	Power cable or chain tangle with rail pipe or GRS Elbow.	Loosening cable or chain from rail pipe or GRS Elbow.
	Rail pipe is not straight.	Replace rail pipe.
Pumping low flow and air	Pump is not properly seated on GRS Elbow.	Pull up the pump and then lower the pump until rests.
	Pipe leaks.	Inspect and replace piping.
	Worn and damaged impeller.	Replace new impeller.
	Cavitations	Reposition liquid level control.
	Clogged pipe or suction	Remove foreign matter
	Incorrect rotation.	Check the power connection
	Water level is too high on J series installation	Lower the water level
Abnormal sound	Loose screw on pump or piping	Tighten the screw
	Pump is not properly seated on GRS Elbow.	Pull up the pump and then lower the pump until rests.
	Clogged pipe or suction	Remove foreign matter
	Incorrect rotation.	Check the power connection

Model	Discharge inch (mm)	Flange PCD*Holes inch (mm)	Recommendation on stainless steel guide pipe	Chain Diameter Size(mm)	shackle (mm)	Anchor / Bolt Specification		Application Model
						GRS elbow	Guide rail bracket	
T2-32(50)	1 1/4" 32mm	84*2	3/4" : Outside Diameter 27.2mm Thickness 2.0mm	3.7	6.0	M16x120	M10x40	32GF21.0~22.2
T2-50 PCD84	2" 50mm	84*2		2.9	4.0			F-05~21, A-05~21, AN-21A~21.5H, 50AFU2.4~2.8
T2-50 PCD96		96*2						
T50E	2" 50mm	96*2	1": Outside Diameter 34mm Thickness 2.0mm	3.7	6.0			F-05~21, A-05~21, 50AFU2.4~21.5, FN-22U
T50I		96*2						AN-22~23 50AL21.5~22.2
T50F	2" 50mm	105*4						50AFU4.4~4.8, 50AFU2.4L~2.8L 50GF22.2~23.7
T50(80)E	3"—2" 50mm	145*4						FN-32~33, AN-32~33, 80AFP/U21.5~22.2
T50G	2" 50mm	105*4						50GF25.5/H~211/H
T2-80	3" 80mm	145*4	1 1/4" : Outside Diameter 42.7mm Thickness 2.0mm	4.5	7.0			FN-32~33, AN-32~33, 80AFP/U21.5~22.2, 80AFP/U41.5, 80AL21.5~22.2
T80E	3" 80mm	145*4						FN-32~33, AN-32~33, 80AFP/U41.5~43.7, 80AFP21.5~23.7A 80AFU21.5~23.7A(L) 80AL21.5~23.7A 80(100)AFE42.2/43.7
T80EH	3" 80mm	145*4						FN-35, AN-35, 80AL23.7A, 80(100)AFP/AL25.5~215, 80AFU25.5~211(L)
T100(80)E	3"—4" 100mm	145*4						AN-43, 80(100)AFP43.7 80(100)AFE42.2 80(100)AFE43.7
T100(80)EH		145*4	80(100)AFP25.5~215 80(100)AL25.5~215					
T100C	4" 100mm	165*4	2" : Outside Diameter 60.5mm Thickness 2.0~3.0mm	6.0	9.0	M20x200	M12x40	100AFU45.5~47.5 100(150)AFE45.5~47.5
T100CH		165*4						100(150)AFE411~430
T150(100)B	4"—6" 150mm	165*4						100(150)AFE45.5~47.5
T150(100)BH		165*4						100(150)AFE411~430
T150A	6" 150mm	240*4						M12x45
T200(150)A	6"—8" 200mm	240*4					150(200)AFE411~430	
T150B	6" 150mm	240*4					AF-610~615A, AF-620A(60Hz)	
T200	8" 200mm	-					AF-815A~820A	
T200A	8" 200mm	-					200(250)AFE411~430	
T250(200)A	8"—10" 250mm	-					200(250)AFE411~430	
T250	10" 250mm	-					2 1/2" : Outside Diameter 76.3mm Thickness 2.0~3.0mm	12
T350	14" 350mm	-	4" : Outside Diameter114.3mm Thickness 2.0~3.0mm	M30x300	M30x300	AF-1430~1440		
T400(350)	16" 400mm	-				AF-1650~1660		

Model	Discharge inch (mm)	Flange PCD*Holes inch (mm)	Recommendation on stainless steel guide pipe	Chain Diameter Size(mm)	shackle (mm)	Anchor / Bolt Specification		Application Model
						GRS elbow	Guide rail bracket	
ST2-50	2" 50mm	96*2	3/4" : Outside Diameter 27.2mm Thickness 2.0mm	2.9	4.0	M16x120	M10x40	50SFU2.4A/B~22.2 50SA2.4A/B~2.8A/B
ST50C	2" 50mm	96*2		-				
ST50(80)	3"—→2" 50mm	145*4		80SFU21.5~22.2 80SFP21.5~22.2 80SA21.5~22.2				
ST2-80	3" 80mm	145*4	1" : Outside Diameter 34mm Thickness 2.0mm	3.7	6.0			80SFU21.5~22.2 80SFP21.5~22.2 80SA21.5~22.2
ST80D	3" 80mm	145*4						80SFU21.5~23.7 80SFP21.5~23.7 80SA21.5~23.7
ST80DH		145*4						80SFU25.5~211 80SFP25.5~215 80SA25.5~215
ST100(80)BH	3"—→4" 100mm	145*4	2": Outside Diameter 60.5mm Thickness 2.0~3.0mm	4.5	7.0			100SFP25.5~215 100SA25.5~215
ST100A	4" 100mm	165*4						100AFU45.5~47.5 100(150)AFE45.5~47.5
ST100AH		165*4						100(150)AFE411~430

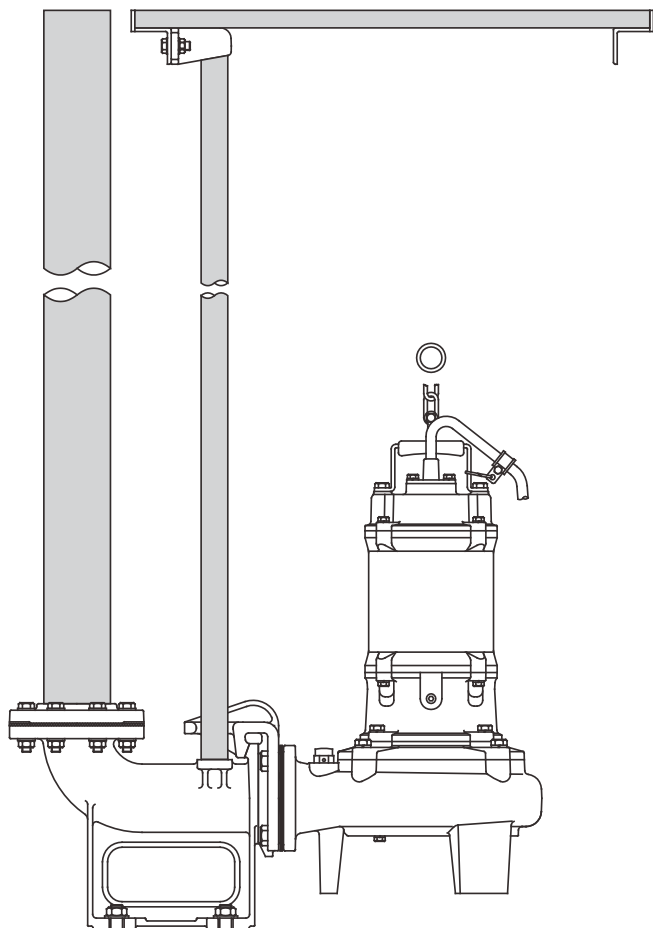
GRS for Submersible Ejector Pump

Model	Discharge inch (mm)	Flange PCD*Holes inch (mm)	Recommendation on stainless steel guide pipe	Chain Diameter Size(mm)	shackle (mm)	Anchor / Bolt Specification		Application Model
						GRS elbow	Guide rail bracket	
JT-1AP	1" Female thread	-	1" : Outside Diameter 34mm Thickness 2.0mm	3.7	6.0	M16x120	M10x40	25JFP2.8 25JNP2.8
JT-1¼BP	1¼"	84*2	1¼" : Outside Diameter 42.7mm Thickness 2.0mm					32JNP/U21.5~22.2 32JPP/U21.5~22.2
JT-2CP	2"		2" : Outside Diameter 60.5mm Thickness 2.0~3.0mm					50JPP/U43.7 50JPP25.5~211
JT-2D				4.5	7.0			50JPE45.5 50JPU45.5~47.5



產品操作說明書

繁體中文版



前言

感謝您選用河見牌沉水泵浦

- 使用本產品前，請務必詳讀此操作說明書並瞭解所有內容，且正確使用本產品。
- 使用本產品於不適合的環境，可能會降低產品性能，甚至造成意外的危險發生。
- 請泵浦安裝人員將此操作說明書妥善交付給該設備之操作、維修與檢查人員，並放置在容易取得之處，方便隨時參照本說明書。
- 安裝使用前若發現本產品有任何毀損或缺件，請與您購買此產品的商家聯繫，或向當地授權經銷商聯繫。
- 為防止使用人員發生傷害，請正確、安全的使用本產品，並遵守安全警告與注意事項。



為防止使用人員發生傷害，請正確、安全的使用本產品，並遵守以下的安全警告與注意事項 !!!

⚠ 警告

潛在性的危險。如不遵照此指示，最重可能會造成人員死亡和嚴重的受傷意外。

⚠ 注意

如不遵守此指示，可能會造成人員傷害或泵浦損壞。

※ 本公司對產品的品質及安全性相當的重視，但本說明書無法包括所有的安全事項，所以使用人員或維修人員亦要重視本身安全。

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一、著脫說明	1
二、安裝前檢查	1
三、著脫安裝	2
四、著脫使用	3
五、曝氣著脫安裝	5
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一 著脫說明

- 泵浦裝置自動著脫設備，將著脫本體固定於水槽地面，並藉由吊鍊讓泵浦順導桿而下，泵浦出口便會自動密合於著脫本體入口處。如需拉起時，泵浦與著脫本體亦會自動分離，工作人員可在極短的時間內吊起泵浦，不必再抽乾水槽的水及進入水槽拆裝泵浦，可大幅提升作業時的便利以及安全性。因為著脫裝置容易拆裝，所以當泵浦有問題時，可迅速吊起保養維護，並暫時使用備用泵浦，待維護完畢後再裝回即可，如此，可消除停工時的不便及損失。

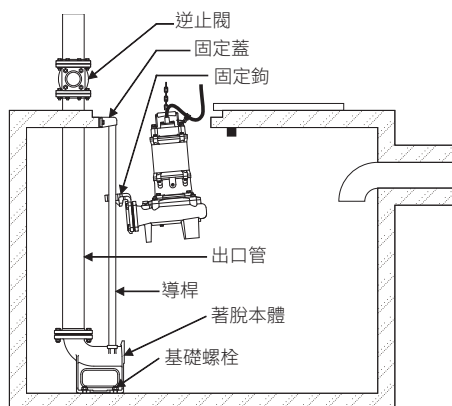


圖 1

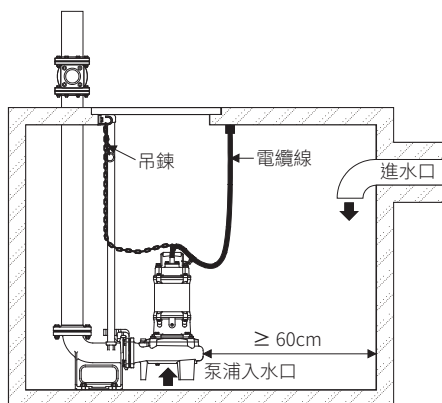


圖 2

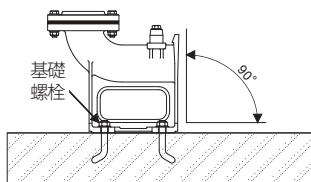
二 安裝前檢查

- 檢查是否已準備好安裝時所需的全部零件，包含導桿以及配管和各項固定螺栓。
- 確認人孔大小是否足以安裝著脫與泵浦。(請參考泵浦外型尺寸圖)
- 水槽進水口與泵浦入水口，應至少距離 60 公分以上，並避免水直接沖擊泵浦。(如圖 2)

三 著脫安裝

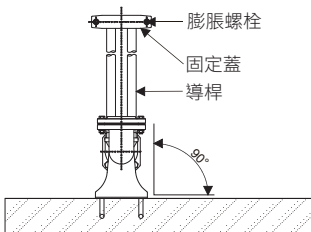
● 著脫本體

使用基礎螺栓將著脫本體水平固定於安裝位置（須使用地表平面校驗）。著脫本體固定方式可視客戶需求，自行決定裝設位置，或將著脫本體放置定位後，以灌漿或化學螺絲方式水平固定著脫本體，如著脫裝置沒有被適當的固定導致傾斜，可能會影響泵浦正常運作效能。



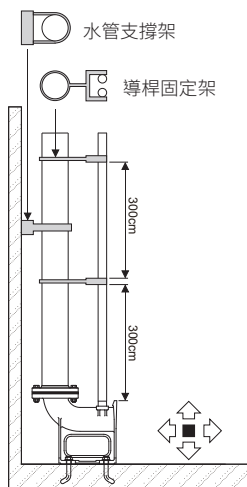
● 定位固定蓋

先於欲固定之人孔壁上或牆上做好垂直記號，使得垂線在著脫本體入水口平面中心，再以該垂線作為固定蓋之安裝對稱基準。



● 安裝導桿

依著脫本體和固定蓋圓錐體之間的距離，準備兩根相同長度之導桿，分別套入著脫本體和固定蓋之間，使其垂直固定後，即可旋緊該系統中所有的固定螺栓。注意，導桿和水管建議長度超過 3M 時，必須加強固定（如右圖），否則導桿可能會因強度不足而變形或脫落，並影響著脫裝置的正常運作。（導桿規格請參考九．著脫規格表）



● 安裝固定蓋

將固定蓋中心線對齊安裝基準線後，依其孔距先在池口壁鑽出螺栓底孔，並安裝膨脹螺栓將其固定。

● 出口法蘭

將出水管接到著脫本體的出口法蘭上，並且適當支撐與固定出水管管路，不可讓出水管管路重量完全作用於著脫之法蘭。

● 安裝確認

檢查各安裝步驟是否正確無誤後，並確認自動著脫裝置各部件在垂直與水平方向均無鬆動情形，即可完成著脫裝置安裝。

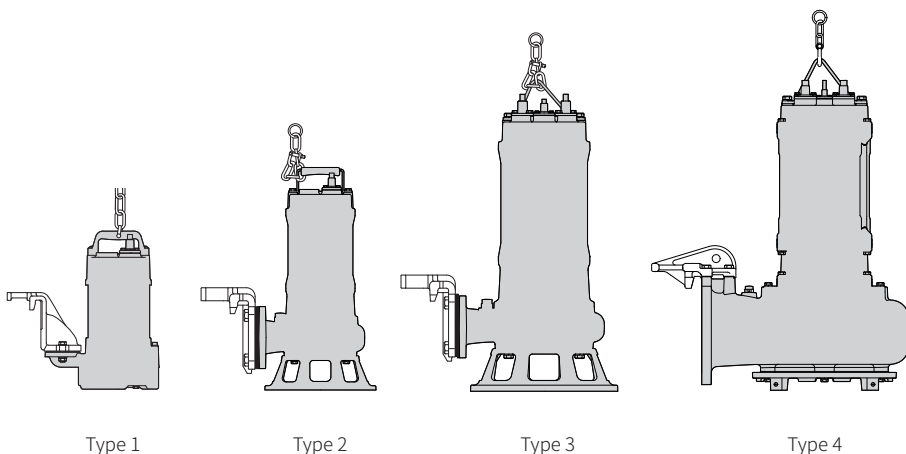
四 著脫使用

● 安裝固定鉤

將著脫固定鉤安裝固定於泵浦上，如泵浦出口裝置有彎管法蘭，必須先拆除後才可安裝。
(固定鉤型號請參考九. 著脫規格表)

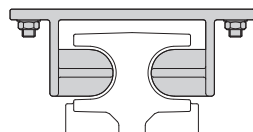
● 安裝吊鍊

將鍊條或鋼索繫於泵浦手把或扣環上，如使用鏈條連接把手時，中間請用鉤環扣住。



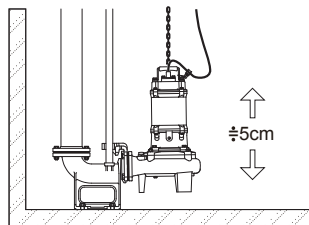
● 安裝泵浦

將泵浦吊起，讓固定鉤沿固定蓋導入導桿中，並緩慢降下泵浦直到嵌入著脫本體，著脫本體會和機組自動接合。注意，過程中須隨時保持鍊條或鋼索及電纜線與地面垂直。



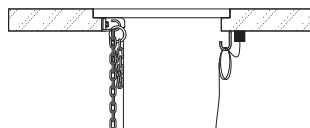
● 安裝檢查

為確保裝置安裝正確，泵浦安裝完成後，請再將泵浦往上提高約 5 公分後再放下，確認繩索與鍊條不會對裝置有任何干擾，才算安裝完成。



- 鍊條位置

泵浦安裝完成後，須將鏈條或鋼索固定在固定蓋或人孔附近位置，亦可在人孔上設置起重裝置，以方便日後泵浦維修或更換。



- 測試操作

當泵浦完成安裝後，可以把浸入水中的泵浦啟動關閉數次，看泵浦運作是否正常，如有異常請立即關閉泵浦，並參閱問題解決方式檢查問題，並尋求專業工程師解決問題。

五 曝氣著脫安裝

● 安裝擴散管

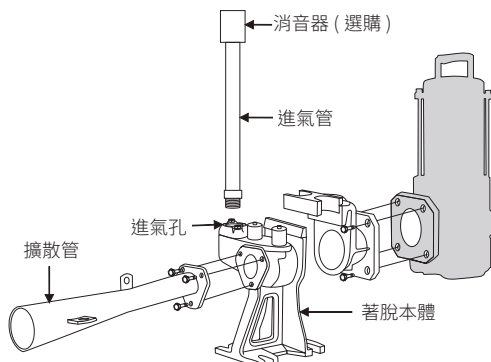
將擴散管使用內附之螺絲安裝於著脫本體。(如右圖)

● 著脫本體及導桿固定蓋安裝

程序同三. 著脫安裝之程序。(著脫本體 > 定位固定蓋 > 安裝導桿 > 安裝固定蓋)

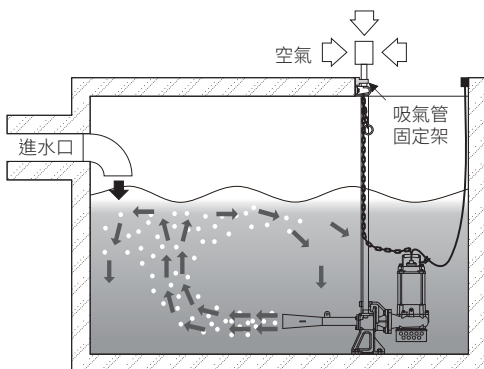
● 安裝吸氣管及消音器 (選購)

依水槽高度準備一根吸氣管與滑接頭 (吸氣管安裝後之高度不得低於水槽頂端，規格請參閱八. 著脫規格表之曝氣著脫規格表)，先將滑接頭連接固定於吸氣管上，如有使用消音器，可將消音器連接在吸氣管之另一端。檢查確認連接牢固後，將吸氣管組安裝於著脫本體上之吸氣孔，並於吸氣管頂端加裝固定架固定。(如下圖)



● 安裝確認

檢查各安裝步驟是否正確無誤後，並確認自動著脫裝置各部件在垂直與水平方向均無鬆動情形，即可完成曝氣著脫裝置安裝。



六 注意事項

- 泵浦的安裝高度、管路長度、直徑等應符合設計需求，以減少著脫結構損壞。
- 請隨時注意泵浦最低運轉水位，假如水位低於最低運轉水位，空氣會被吸入直罩殼內，泵浦除了無法進行排水動作外，可能因馬達散熱不足而燒損。
- 如泵浦黏到其他物體或在不正確的位置操作泵浦升降，導致升降有困難時，請勿硬拉，應改變位置來操縱泵浦升降，並且小心移動以避免損壞泵浦。
- 電纜線與鍊條務必要確實固定，以免脫落或搖晃而造成毀損，並且運轉中如有異音，必須立即停止運轉，並參閱故障排除表排除故障，如故障無法排除，請尋找專業維護工程師做故障排除處理。

⚠ 警告

- 嚴禁將電纜接線處直接浸入水中，可能會導致泵浦因馬達進水及漏電之危險。

⚠ 注意

- 嚴禁讓電纜線承載泵浦重量以及直接提、拉，應將電纜線固定在池壁上，並且與鏈條必須分開固定，以防止因水流造成與池壁或其他物體摩擦而毀損漏電。
- 當泵浦升降時，請小心進行並且嚴禁拉扯到馬達電纜線，以避免電纜線被切斷或造成損壞漏電之情形。
- 如須進入儲水槽中作業時，必須兩人以上共同執行，並有一人處於通風良好處，隨時注意儲水槽中之作業人員安全及通風狀況，以防止沼氣或漏電等意外狀況。

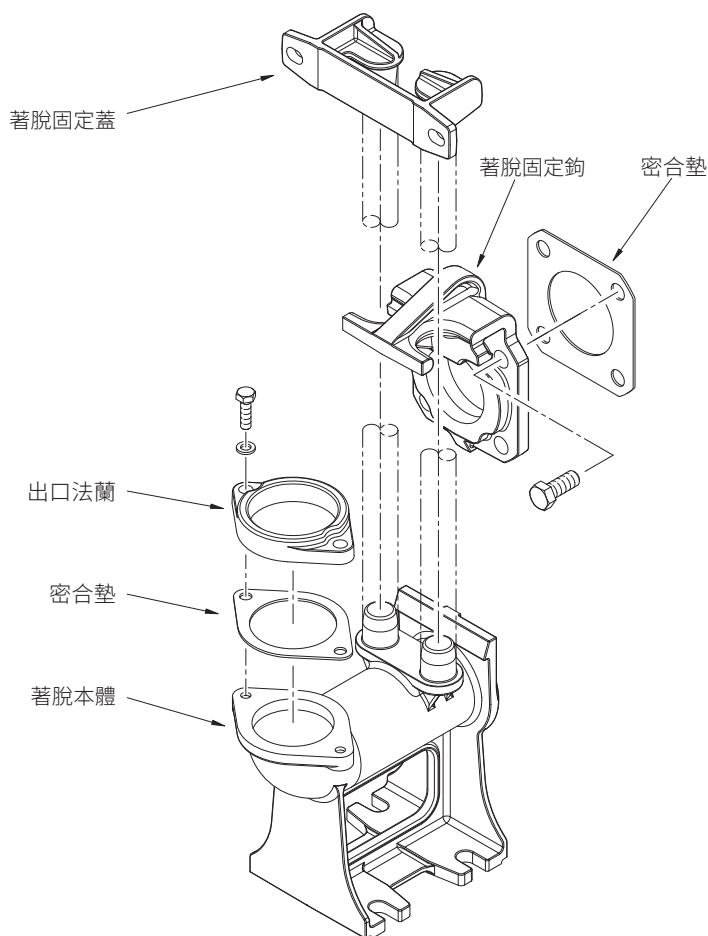
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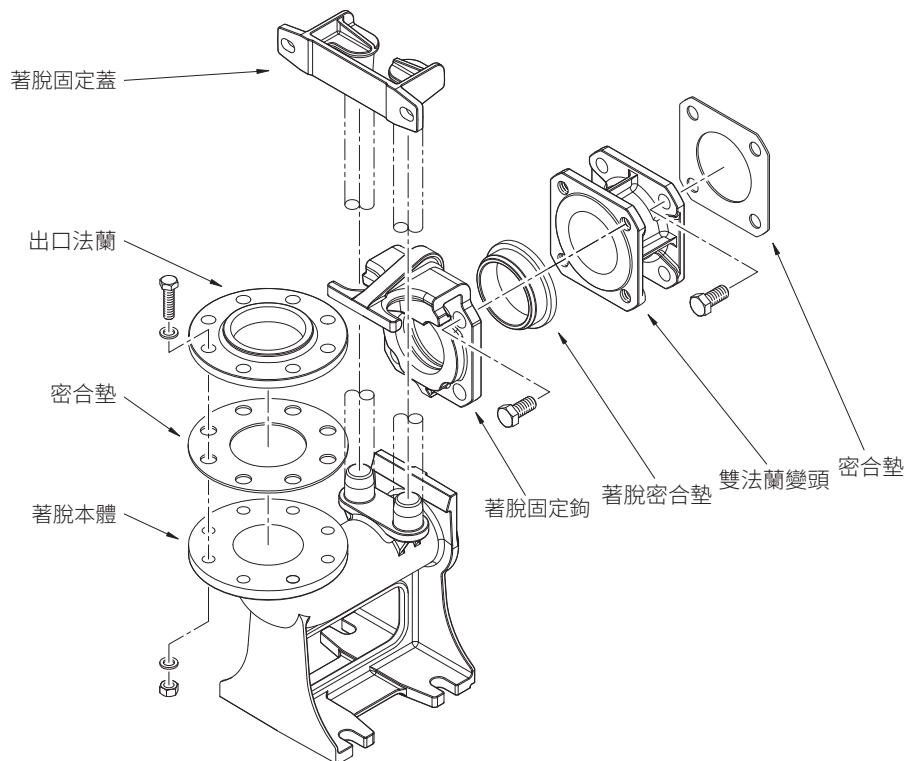
零件說明及拆解與重組

- 若您有拆解、維修泵浦的需求，如機械軸封、電纜線和馬達等，需使用特殊設備，請您與購買此產品的商家或當地授權經銷商聯繫。
- 分解零件構造圖，會因機型而有所差異，請以實際機型為主。

⚠ 警告

- 拆解與重組前，請確認電源已斷電，且不要用潮濕的手碰觸插頭或開關，以避免觸電。
- 拆解和重組時，不可作啟動測試，若不遵守此規則，會導致人員發生嚴重的意外和傷害。





八 故障排除

狀況	原因	處理對策
無法拉升	泵浦與吊鍊拉升方向沒有垂直	改變拉升位置
	泵浦手把上的吊鍊鬆脫	將吊鍊重新固定在手把上
	電線或鍊條纏繞到導桿或著脫本體	小心的把電線或鍊條從導桿或著脫本體解開
	導桿變形或毀損	更換導桿
水量不足 或 曝氣量不足	泵浦與著脫本體縫隙過大	重新調整著脫安裝位置
	管路洩漏	檢修管路與調整著脫系統
	泵浦葉輪鬆脫或磨損	重新安裝或更換葉輪
	管路內有空氣	設法將空氣排出
	異物堵住泵浦或進出水管	設法將異物清除
	泵浦馬達反轉	檢查泵浦接線方式
	曝氣池內水位過高	降低水位
聲音異常	泵浦或管路螺絲鬆脫	設法將螺絲旋緊
	著脫裝置或泵浦安裝不當	重新安裝
	異物阻塞管路或入口	清除異物
	泵浦馬達反轉	檢查泵浦接線方式

九 著脫規格表

GRS 著脫型式	GRS 法蘭口徑	著脫固定鉤 PCD(mm)* 孔	導桿規格 (配管竈面)	吊鍊尺寸 (mm)	卸扣 (mm)	螺栓規格		適用泵浦型式	
						著脫本體	固定蓋		
T2-32(50)	1 1/4" 32mm	84*2	3/4" 外徑 27.2mm 厚度 2.0mm	3.7	6.0	M16x120	M10x40	32GF21.0~22.2	
T2-50 PCD84	2" 50mm	84*2		2.9	4.0			F-05~21, A-05~21, AN-21A~21.5H, 50AFU2.4~2.8	
T2-50 PCD96		96*2						F-05~21, A-05~21, 50AFU2.4~21.5, FN-22U	
T50E	2" 50mm	96*2	1" 外徑 34mm 厚度 2.0mm	3.7	6.0			AN-22~23 50AL21.5~22.2	
T50I		96*2						50AFU4.4~4.8, 50AFU2.4L~2.8L, 50GF22.2~23.7	
T50F	2" 50mm	105*4						FN-32~33, AN-32~33, 80AFP/U21.5~22.2	
T50(80)E	3"→2" 50mm	145*4						50GF25.5/H~211/H	
T50G	2" 50mm	105*4						FN-32~33, AN-32~33, 80AFP/U21.5~22.2, 80AFP/U41.5, 80AL21.5~22.2	
T2-80	3" 80mm	145*4						11/4" 外徑 42.7mm 厚度 2.0mm	4.5
T80E	3" 80mm	145*4	FN-35, AN-35, 80AL23.7A, 80(100)AFP/AL25.5~215, 80AFU25.5~211(L)						
T80EH	3" 80mm	145*4	AN-43, 80(100)AFP43.7 80(100)AFE42.2 80(100)AFE43.7						
T100(80)E	3"→4" 100mm	145*4	80(100)AFP25.5~215 80(100)AL25.5~215						
T100(80)EH		145*4	100AFU45.5~47.5 100(150)AFE45.5~47.5						
T100C	4" 100mm	165*4	100(150)AFE411~430						
T100CH		165*4	100(150)AFE45.5~47.5						
T150(100)B	4"→6" 150mm	165*4	2" 外徑 60.5mm 厚度 2.0~3.0mm	6.0	9.0	M20x200	M12x40	100(150)AFE411~430	
T150(100)BH		165*4						150(200)AFE411~430	
T150A	6" 150mm	240*4						AF-610~615A, AF-620A(60Hz)	
T200(150)A	6"→8" 200mm	240*4						AF-815A~820A	
T150B	6" 150mm	240*4						200(250)AFE411~430	
T200	8" 200mm	-						M12x45	200(250)AFE411~430
T200A	8" 200mm	-							
T250(200)A	8"→10" 250mm	-							
T250	10" 250mm	-	21/2" 外徑 76.3mm 厚度 2.0~3.0mm	12	16	M24x300	M20x300	AF-1050~1060	
T350	14" 350mm	-	4" 外徑 114.3mm 厚度 2.0~3.0mm			M30x300	M30x300	AF-1430~1440	
T400(350)	16" 400mm	-						AF-1650~1660	

GRS 著脫型式	GRS 法蘭口徑	著脫固定鉤 PCD(mm)* 孔	導桿規格 (配管霧面)	吊鍊尺寸 (mm)	卸扣 (mm)	螺栓規格		適用泵浦型式
						著脫本體	固定蓋	
ST2-50	2" 50mm	96*2	3/4" 外徑 27.2mm 厚度 2.0mm	2.9	4.0	M16x120	M10x40	50SFU2.4A/B-22.2 50SA2.4A/B-2.8A/B
ST50C	2" 50mm	96*2		3.7	6.0			-
ST50(80)	3"--2" 50mm	145*4						80SFU21.5~22.2 80SFP21.5~22.2 80SA21.5~22.2
ST2-80	3" 80mm	145*4	80SFU21.5~22.2 80SFP21.5~22.2 80SA21.5~22.2					
ST80D	3" 80mm	145*4	80SFU21.5~23.7 80SFP21.5~23.7 80SA21.5~23.7					
ST80DH		145*4	80SFU25.5~211 80SFP25.5~215 80SA25.5~215					
ST100(80)BH	3"--4" 100mm	145*4	2" 外徑 60.5mm 厚度 2.0~3.0mm	4.5	7.0			100SFP25.5~215 100SA25.5~215
ST100A	4" 100mm	165*4						100AFU45.5~47.5 100(150)AFE45.5~47.5
ST100AH		165*4						100(150)AFE411~430

曝氣著脫規格

GRS 著脫型式	GRS 法蘭口徑	著脫固定鉤 PCD(mm)* 孔	導桿規格 (配管霧面)	吊鍊尺寸 (mm)	卸扣 (mm)	螺栓規格		適用泵浦型式		
						著脫本體	固定蓋			
JT-1AP	1" 內牙	-	1" : 外徑 34mm 厚度 2.0mm	3.7	6.0	M16x120	M10x40	25JFP2.8 25JNP2.8		
JT-1¼BP	1¼"	84*2	1¼" : 外徑 42.7mm 厚度 2.0mm					32JNP/U21.5~22.2 32JPP/U21.5~22.2		
JT-2CP	2"		2" : 外徑 60.5mm 厚度 2.0~3.0mm					4.5	7.0	50JPP/U43.7 50JPP25.5~211
JT-2D										50JPE45.5 50JPU45.5~47.5



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