

INSTALLATION TYPES

1) AUTOMATIC COUPLING (DUCK FOOT BEND)

It is an economic and practical installation form for stationary systems.. The automatic coupling system consists of duck foot bend fixed on sump floor, guide rail (2 galvanised pipes fixed together) and fixing flange which is fitted to the pump. The automatic coupling set components and discharge piping have to be installed before sump get filled with the medium.

Operating principle: The fixing flange which is fitted to the pump slides through the guide rails and the pump is lowered to the sump by means of a chain. To take the pump out of the sump by pulling pump by chain is enough, no dismantling or bolt removal is required.

2) Dry Installation:

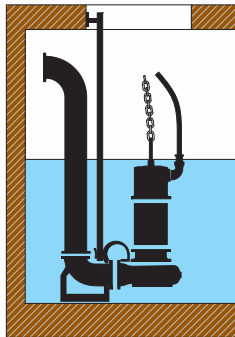
This installation form is for DAC-SC type pumps with cooling jacket and DAC-Y type oil cooled pumps. Since these pumps can cool themselves they can operate out of water continuously. These pumps have advantages of dry operation which are maintenance and operational advantages and advantages of submerged operation which are less space requirement and handling tough operation conditions. Sump and pump are separated by a wall in dry installation. The pump room's floor is dry and maintenance and repair work can be done easily in pump room. Since pumps are fixed on concrete basement firmly operation is vibration free, and station is more reliable. Pumps have suction bends. On the suction side of the pump there is one non return valve and 1 dismantling piece. A small drainage pump must be installed in the pump room for leakage water.



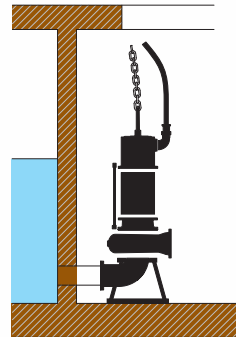
3) VERTICAL FREE STANDING HOSE CONNECTION

This installation form is suitable for pumps with smooth and flat floors. The pump must stay on the floor freely. The pump can be removed from the sump by pulling out by chain. Can be used for small pumps.

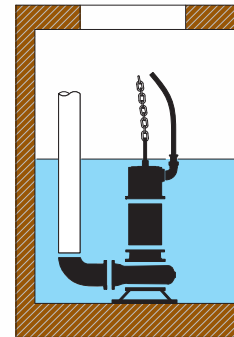
- In all installation forms discharge lines must be fitted with, valve, non return valve, dismantling piece and expansion joint.



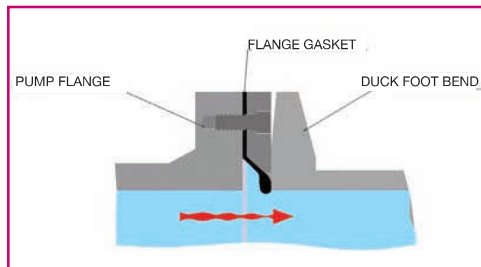
(1)



(2)



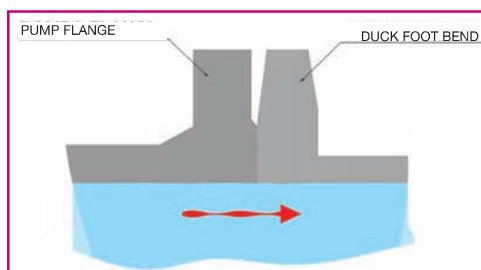
(3)



Sealing in Automatic coupling

a) Sealing with gasket :

A gasket with special design is fitted between guide flange and pump flange. When the pump operates, pressure on discharge of the pump forces the gasket to expand on guide flange. 100 % sealing achieved with gasket. This is the sealing used by Turbosan as standard.



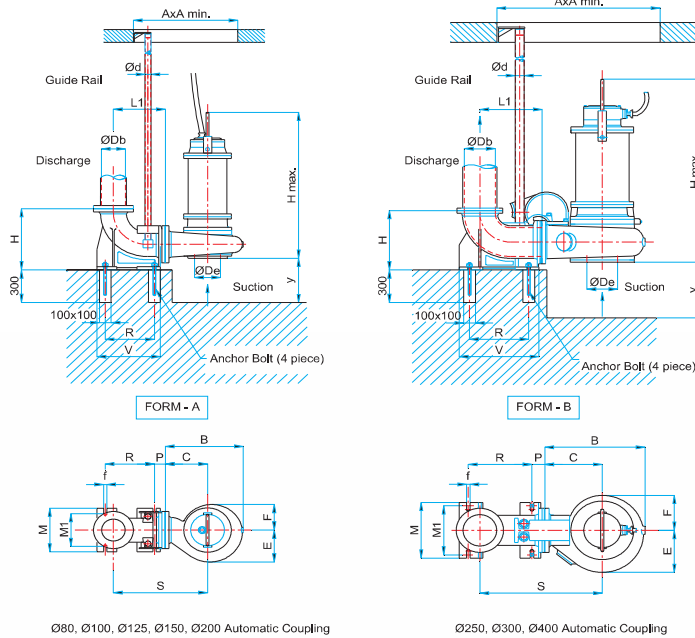
b) Metal on Metal sealing

The sealing between pump discharge flange and duck foot bend flange achieved by a very smoothly machined pump flange surface, and duck foot bend flange surface. This sealing used in special applications.



DAC-Y AND DAS TYPE SUBMERSIBLE PUMPS AND DUCK FOOT BEND DIMENSIONS TABLE

DAS TYPE SUBMERSIBLE PUMP AND AUTOMATIC COUPLING INSTALLATION DIMENSIONS



Ø80, Ø100, Ø125, Ø150, Ø200 Automatic Coupling

Ø250, Ø300, Ø400 Automatic Coupling

PUMP TYPE	DIMENSIONS																							
	Ød	Suction Øde	Discharge ØDo PN10	C	B	E	F	S	L1	P	R	M1	f	Anchor Bolt	V	M	H	H max	y	AxA min.	FORM			
DAS 80/250	Z"	80	80	280	475	175	150	514	234	64	220	140	23	M20x250	290	210	250	980	100	725x725	A			
DAS 80/250V		280		490	220	190	514	348									1040	150						
*DAS-EFF 80/280		315		540	218	200	549	250									1010	100						
DAS 80/270 / V		340		585	255	235	574	250									1080							
DAS 80/315 / V		125	300	545	245	220	593	352	250	348	1140	150			775x775	125	850x850							
*DAS-EFF 80/320		246	440	173	158	516	1060																	
DAS 100/200		300	500	220	180	570	1060																	
DAS 100/250 / V		300	540	280	210	696	1140	200																
*DAS-EFF 100/260		150	315	515	198	197	585	270	240	150	320	220			280	1040	125	850x850						
DAS 100/270 / V		100	575	248	220	610	1090																	
DAS 100/315 / V		150	340	590	285	225	1130																	
*DAS-EFF 100/320		100	625	300	270	1300																		
DAS 125/315 / V		125	125	315	570	267	235	608	293	270	180	25	M22x250	352	250	348	1495	150	1000x1000	B				
DAS 125/400		370	670	315	280	663	1555																	
DAS-EFF 125/500		150	150 (125)	450	790	385	335	846	1280															
DAS 150/315		150	380	635	290	240	776	1350																
DAS-EFF 150/315		200	150	400	650	280	220	796	1315	396	96	360	240	28	M24x250	480	330	450	1385		250	1000x1000	A	
DAS 150/400					500	840	365	305	942															1300
DAS-EFF 150/500					370	670	335	275	812															1335
DAS 200/315 N					500	860	395	290	942															1390
DAS 200/315 F	200	200	530	895	375	355	972	1715	442	112	420	300	28	M24x250	540	400	560	1810	2700		300	1200x1200		B
*DAS-EFF 200/320				500	845	385	305	942																
DAS 200/400 F				560	960	425	355	1002												2100				
DAS-EFF 200/500				440	760	355	290	982												2170				
DAS 250/315 F	250	200	480	836	387	336	1022	542	107	532	375	682	500	665	2080	2100	2050	300	1400x1400	B				
DAS 250/400 M				600	1000	445	330	1142	2300															
DAS 250/400 F				650	1176	555	485	1192	2210															
*DAS-EFF 250/420				750	1330	620	540	1292	2830															
DAS 250/600	300	350	600	1030	475	325	1204	604	129	575	425	775	565	618	2100	2170	350	1400x1400	B					
DAS 250/700				585	1060	525	430	1289	2300															
DAS-EFF 300/400				600	1030	475	325	1204	2370															
DAS 300/500 F				650	1176	555	485	1192	2400															
DAS-EFF 350/420	350	350	800	1385	640	490	1675	875	180	825	550	36	M33x300	925	700	1245	2350	2840			550	1500x1500	A	
*DAS-EFF 350/520				1380	475	2370																		
DAS-EFF 350/630				1090	620	476	2400																	
DAS 400/400 F				1355	630	430	2350																	
*DAS-EFF 400/500	500	400	700	1215	570	471	1545	1000	1625	685	576	1845	925	700	1245	2350	2840	550		1500x1500	A			
DAS 400/600 F				1090	620	476	2400																	
DAS-EFF 400/700				1355	630	430	2350																	
DAS 400/700				1000	1625	685	576	1845	-	550														

NOTE:

- 1) Dimensions "mm". Turbosan reserves right to make any changes in dimensions without giving prior notice.
- 2) Flanges conforming to DIN 2501 and TS EN 1092-2
- 3) For pump weight information in accordance with motor power please consult to Turbosan.
- 4) (*) Turbosan reserves the right to make any changes in dimensions without giving prior notice.