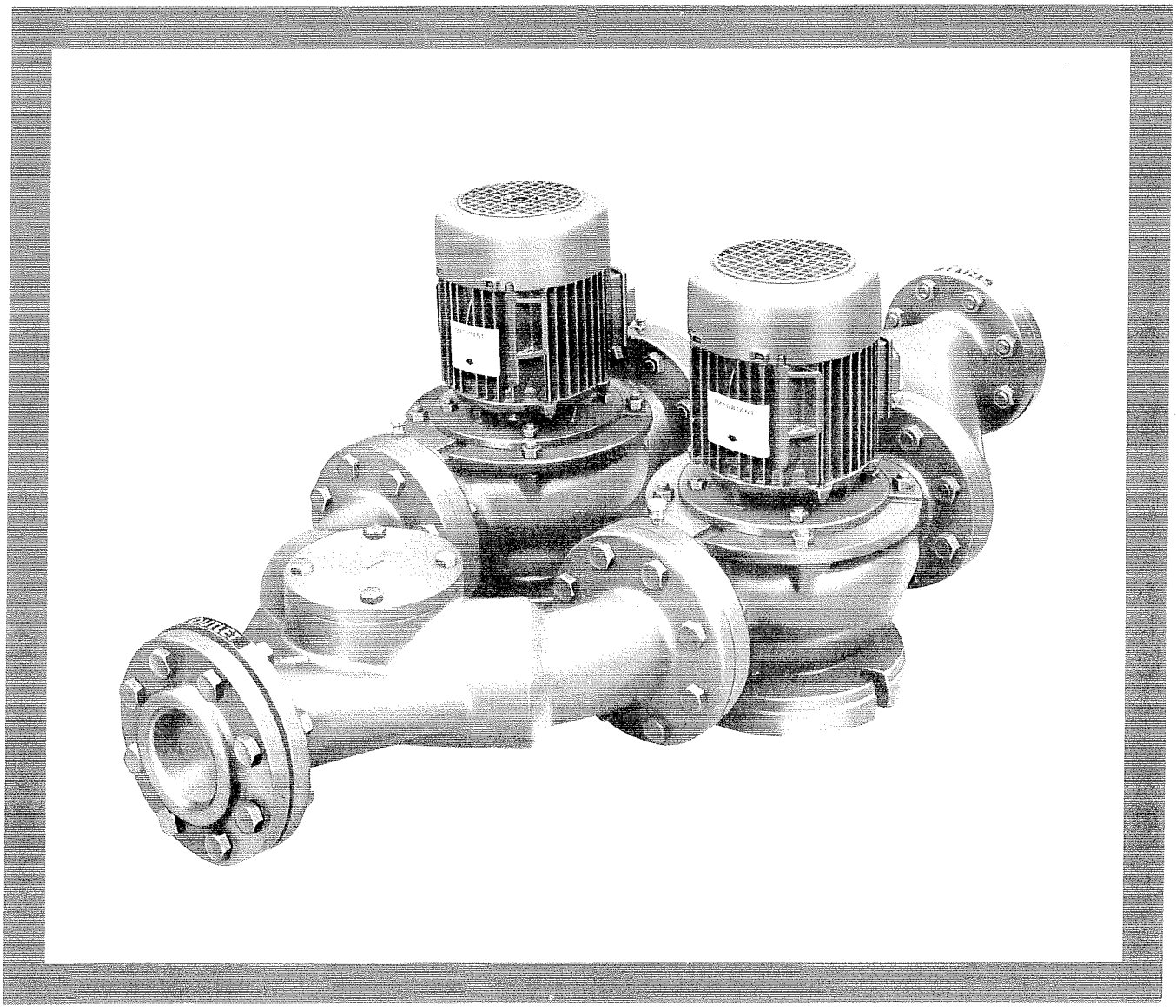
Sfb(50)	Leaflet No. DP201M

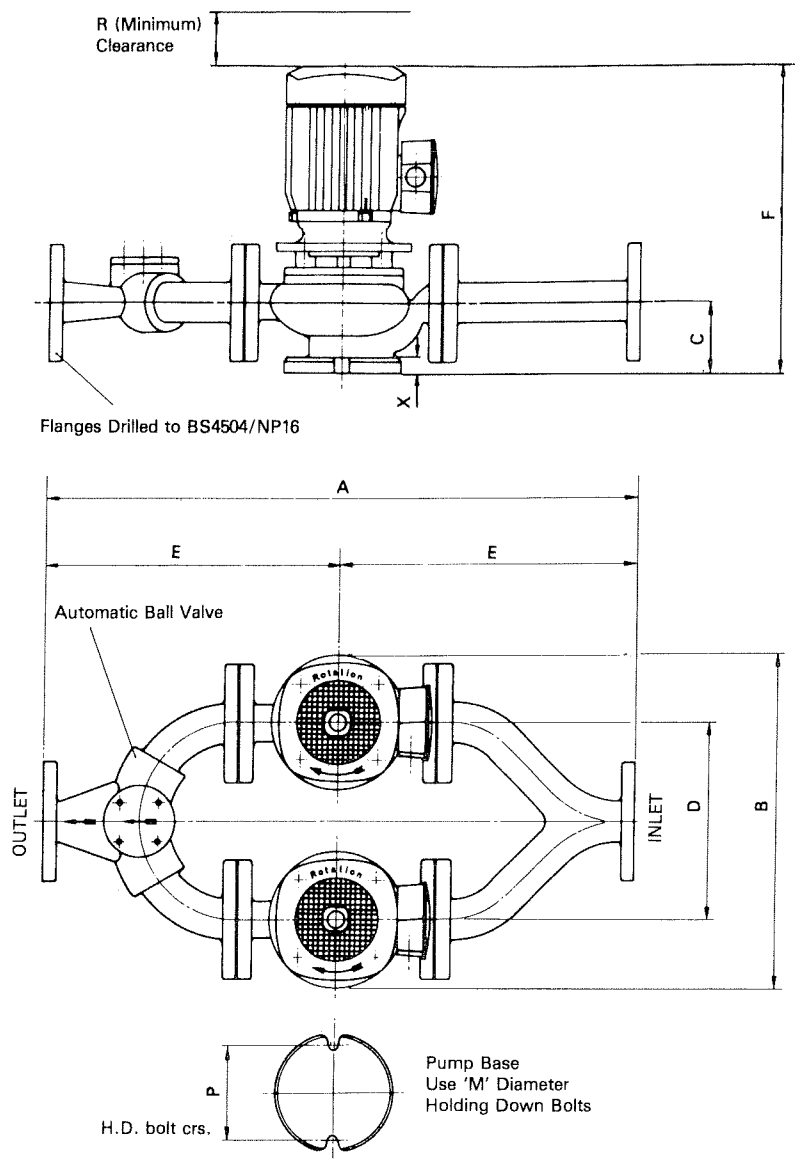
Pullen

Duopul Mk II



Twin-pump units for Central Heating Hot Water Supply* and Chilled Water

Dimensions (millimetres unless otherwise stated)



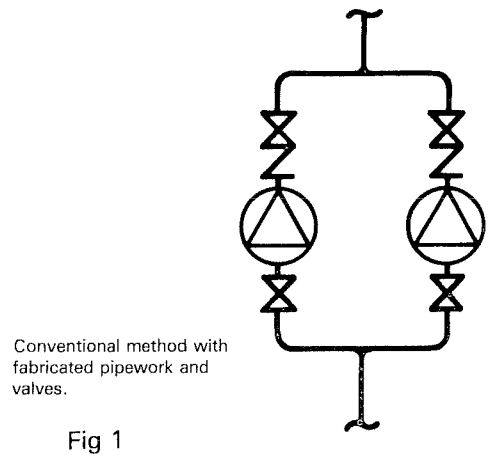
Pump	Branch Dia		A	B	C	D	E	F*	F**	M	P	R	X	Approx Weight kg.
SK32	32	1¼"	694	390	84	230	347	346	346	10	112	100	20	64.54
SK40	40	1½"	834	423	93	250	417	359	379	10	130	110	22	86.36
SK40B	40	1½"	904	467	85	250	452	366	417	10	140	100	25	94.36
SK50	50	2"	934	489	105	280	467	373	450	10	155	110	28	105.9
SK50B	50	2"	1004	545	95	280	502	379	542	10	175	100	30	123.9
SK65	65	2½"	1034	549	111	320	517	397		10	175	120	29	140.18
SK65B	65	2½"	1144	623	110	320	572	445		12	195	110	30	162.18
SK80	80	3"	1164	587	127	330	582	430		12	200	130	36	166.81
SK80B	80	3"	1384	765	130	420	692	535		12	245	130	30	282.0

*Maximum Dimension with 1450 rpm Motors
**Maximum Dimension with 2900 rpm Motors

Weight will vary according to motor used.

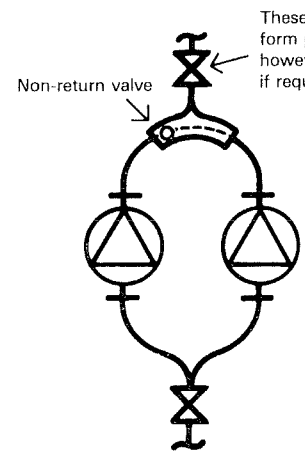
Advantages of Pullen Duopul

The Pullen Duopul Mk II provides a compact and economic arrangement for duty and standby pumps. It has been specifically designed and developed to reduce capital cost, plantroom space and installation time by reducing the number of valves and pipe fittings required, as compared in figures 1 and 2, yet at the same time maintains the high standards of reliability and performance.



Conventional method with fabricated pipework and valves.

Fig 1



Duopul Method

Fig 2

The savings have been made by the use of common suction and discharge branches, the latter incorporating a special ball-check valve to prevent recirculation of water through the standby pump. This corrosion-resistant ball has been specifically designed to have a very low inertia and low coefficient of restitution. The low inertia, combined with a short ball travel, minimises the momentum created when pumps are changed over, thereby giving a smoother change, whereas the low coefficient of restitution ensures a positive engagement with the seat. Being hollow the ball is extremely light when immersed in water, so that the set can confidently be mounted with the branches in the vertical plane, in addition to the floor mounting arrangement with the branches horizontal.

There are only two connections to make to the Duopul Mk II, one to the common suction and one to the common discharge. As shown in figure 2 these will be via gate valves which can be supplied as an optional extra.

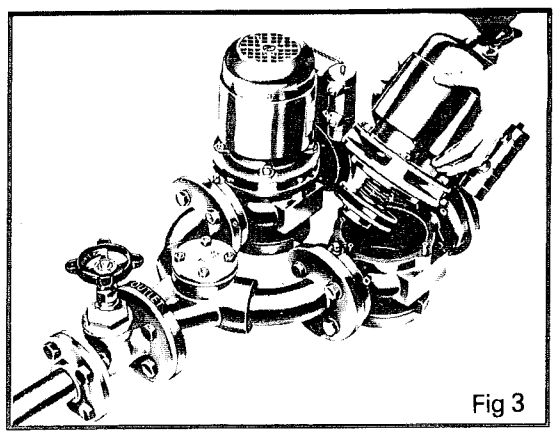


Fig 3

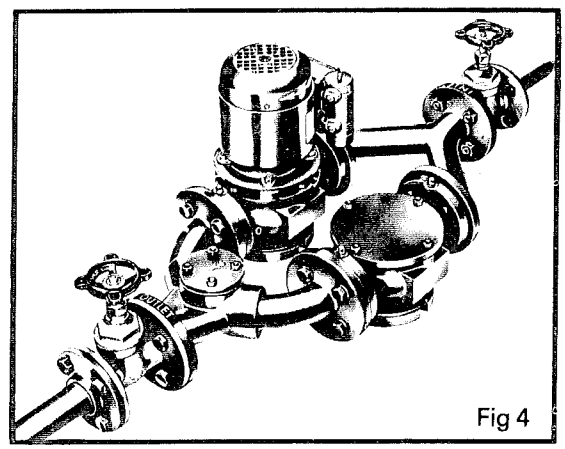


Fig 4

In the event of one pump requiring maintenance, the system need only be shut down for a short period whilst the motor and rotating element are removed and a blanking plate installed. (See figures 3 and 4).

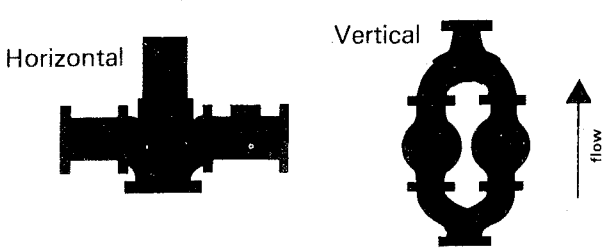
The long established Pullen type SK pumps are used in the Duopul Mk II, making the unit suitable for central heating, hot water supply and chilled water duties. Details of the SK range of pumps are given in leaflet SK201M.

Specifications

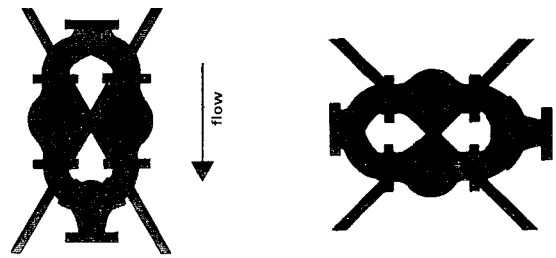
Suction Branch ...	High grade cast iron to BS 1452
Discharge Branch*	High grade cast iron to BS 1452
Operating Limitations	Max. temp. 115°C (240°F); Max. press. — SK32-SK65 7 bar, SK80 & all SK 'B' pumps 8.2 bar.
Pumps	See leaflet SK201M
Ball	Rubber-coated aluminium shell

*H.W.S. Secondary systems must have a gunmetal discharge manifold fitted.

Mounting Arrangements



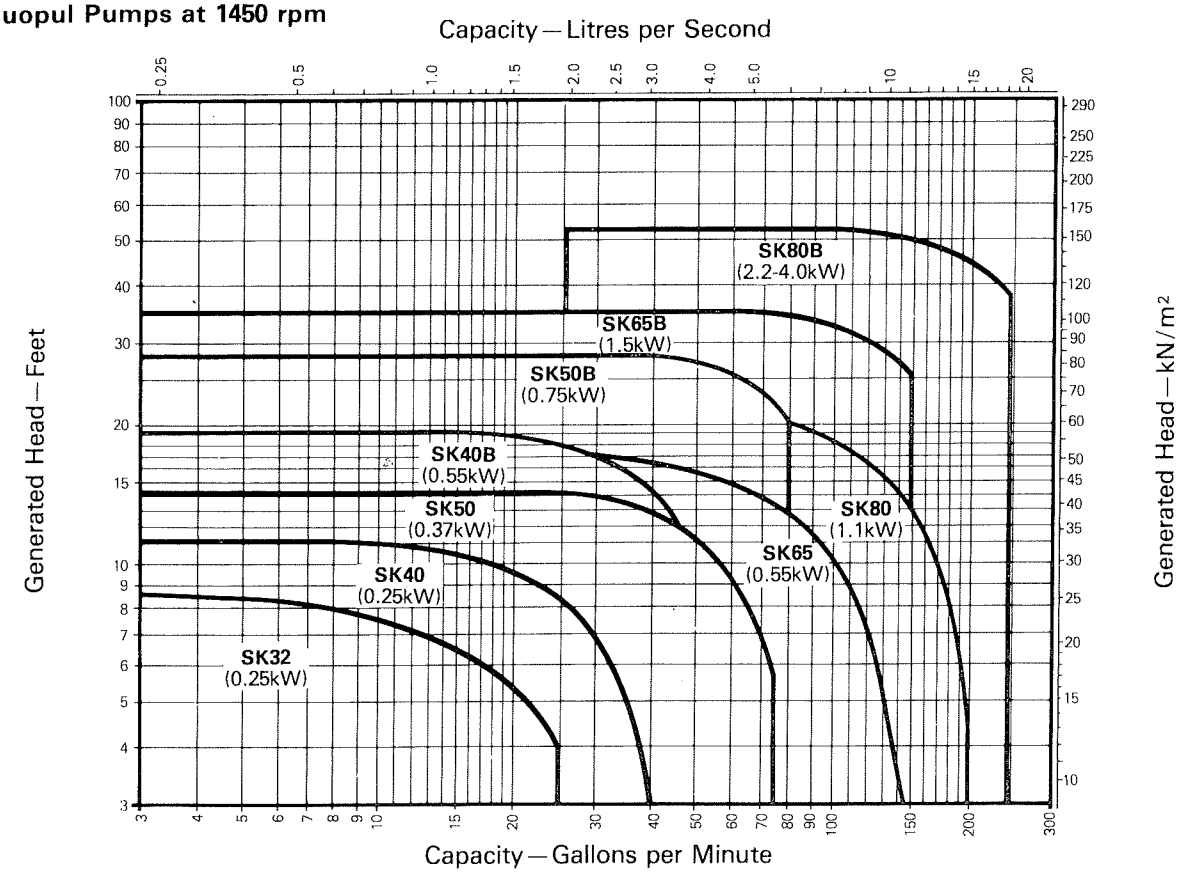
Recommended



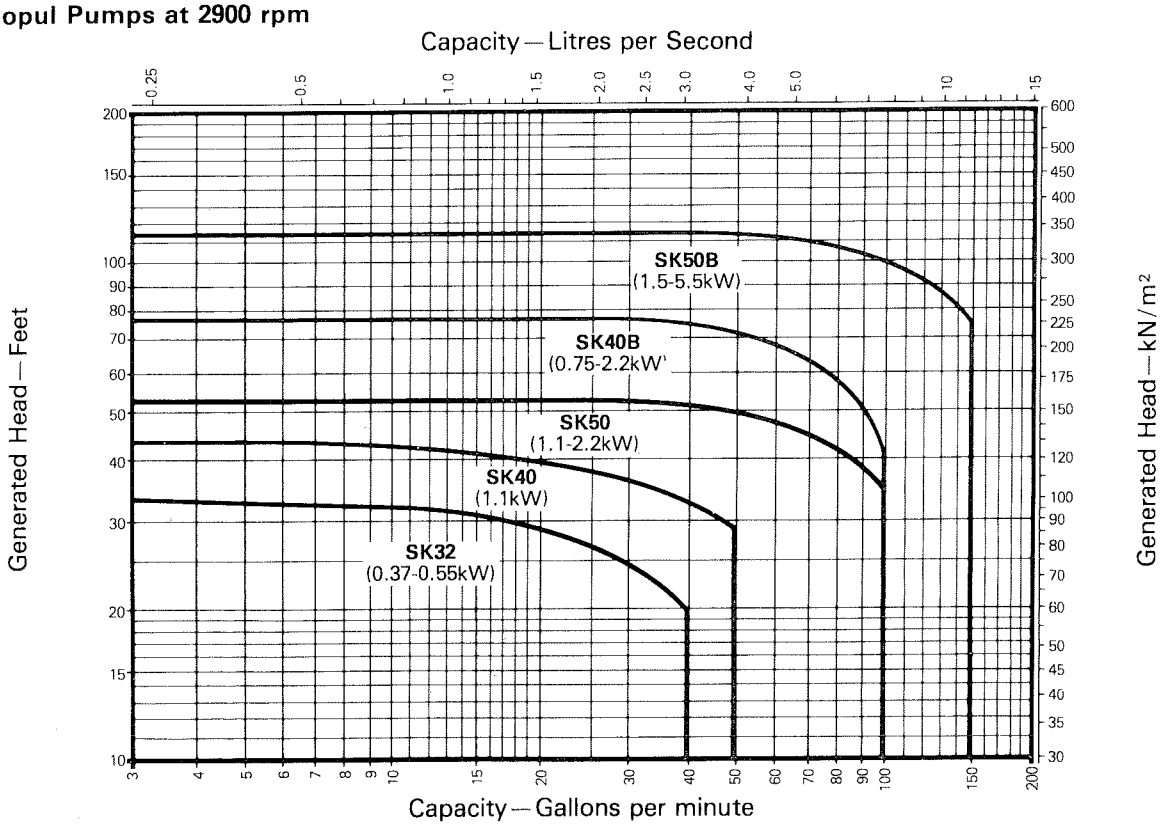
Not Recommended

Performance Curves

SK Duopul Pumps at 1450 rpm



SK Duopul Pumps at 2900 rpm



As we are constantly endeavouring to improve standards, we reserve the right to alter details given without prior notice.

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