

STARLINE DUAL SET

In-Line, Standby Pumping Unit

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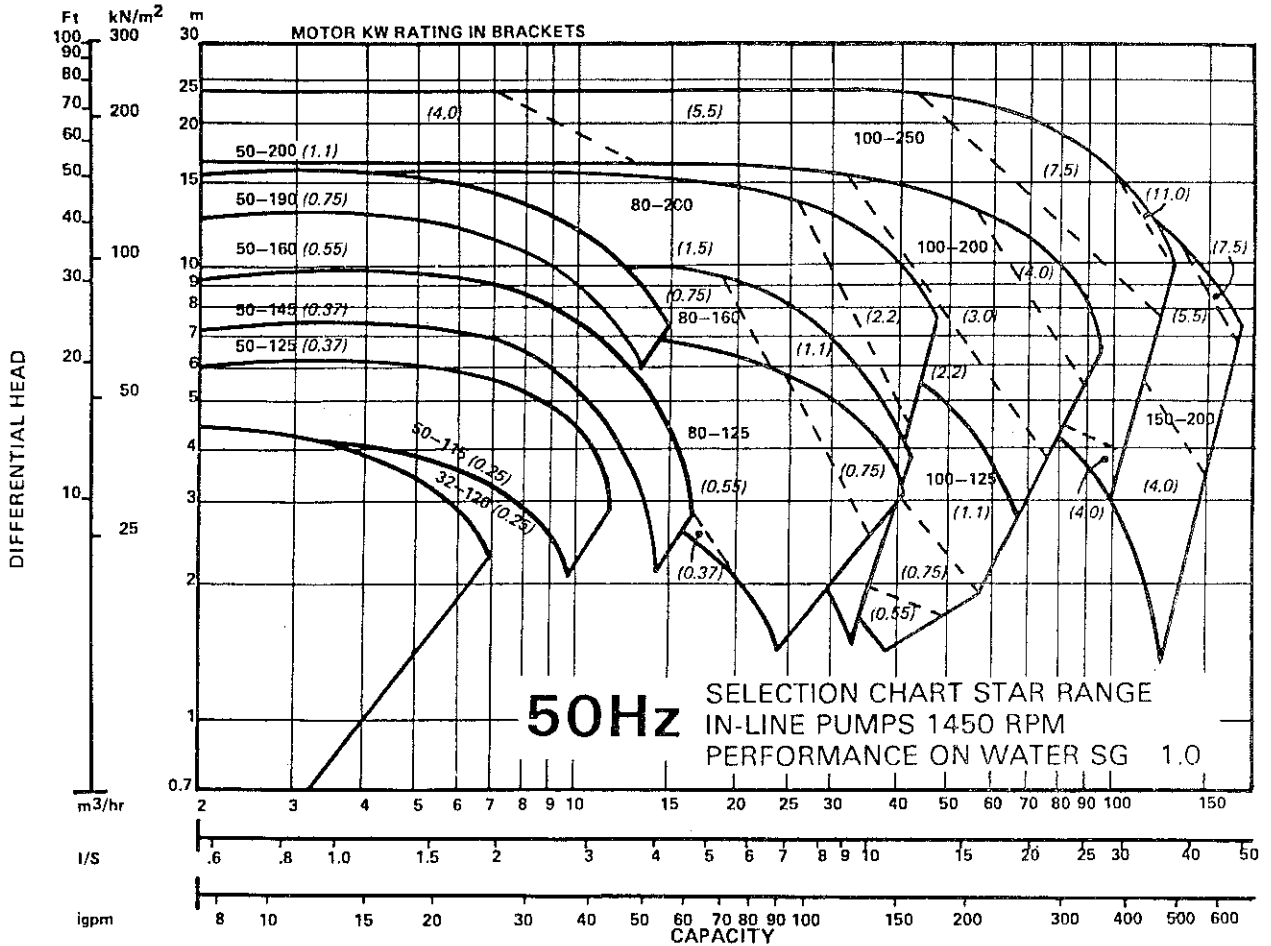
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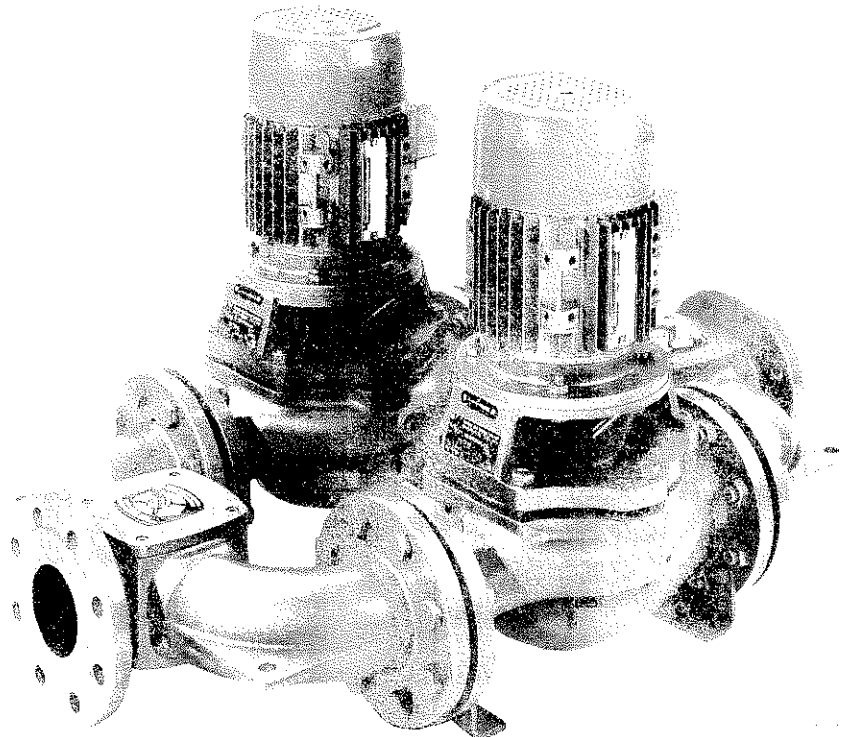
Holden and Brooke Limited

JULY 1988



GENERAL INFORMATION

Dual sets have a compact, space saving design, suitable for operation in horizontal pipelines. Certain pump sizes can also be used in vertical pipelines (see note 4 on dimension drg.). The manifolds incorporate an isolating device in both suction and delivery, and a flap type non-return valve in the delivery. The sets utilise our standard range of STARLINE pumps requiring the minimum of maintenance during service. The dual set has two separate pumps having the advantage of being able to remove the rotating element of one unit, without having to stop the duty pump. This operation can be carried out without the need to use separate isolating valves and blanking plates.



OPERATING CONDITIONS

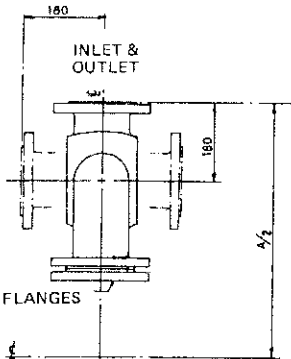
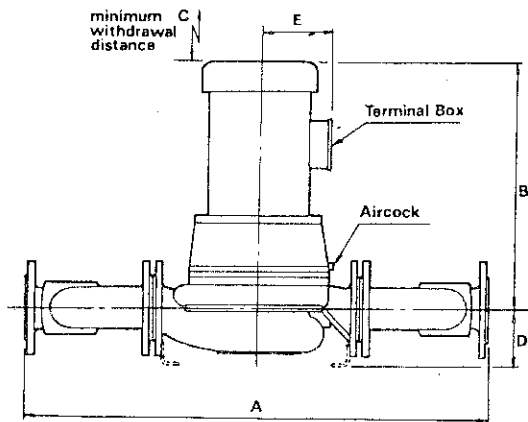
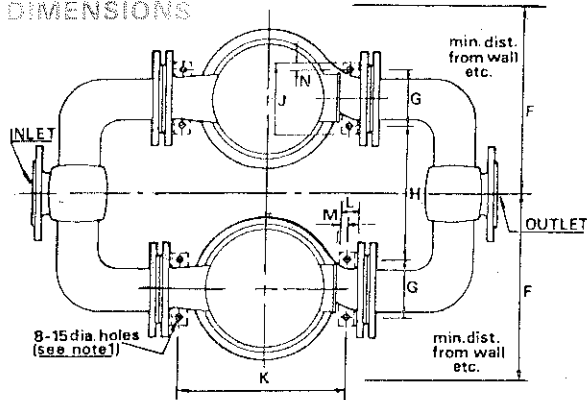
Maximum working temperature: — 110°C
 Maximum working pressure: — 32-120 6 bar (87 p.s.i.)
 all other sizes 10 bar (145 p.s.i.)

MATERIAL SPECIFICATION

Body Cast Iron BS 1452 Gr.260 (Gr.220 on 32 pump size)
Pedestal Cast Iron BS 1452 Gr.260 (Gr.220 on 32 pump size)
Impeller Cast Iron BS 1452 Gr.260 (G.M. BS 1400 Gr.LG2C on 32 pump size)
Shaft Stainless Steel BS 970 431S29
Seal DIN Standard uncooled. Carbon/Ni.Resist
Manifold Cast Iron BS 1452 Gr.220
Motor T.E.F.V BS 2048PTI BS 5000 & BS 4999 CL.F. Flange mounted.
 CL.B. on 32 pump size).
Connections Manifolds supplied with tapped connections on 32 pump size. All other sizes are flanged to BS 4504 16 Bar rating.

NOMINAL BORE	50	80	100	150
THICKNESS (INC. R.F.)	20	22	24	26
FLANGE DIA.	165	200	220	285
No. & SIZE OF BOLTS (EQUI-SPACED OFF CL)	4 M16	8 M16	8 M16	8 M20
P.C. DIA.	125	160	180	240
RAISED FACE DIA.	102	138	158	212

DIMENSIONS



PUMP SIZE	MOTOR F. SIZE	INLET & OUTLET DETAILS	A	B	C	D	E	F	G	H	J	K	L	M	N	WEIGHT Kg
32 - 120	B 42	TAPPED 1/4" BSP	560	320	46	/	100	265	/	/	/	/	/	/	/	41.5
	B 56			379			120									44.5
50 - 125 (50-115)	B 42	FLANGED 50 N/B	649	344	120	127	100	380	114	206	162	150	57	19	19	110
	B 56			415			120									121
50 - 160 (50-145)	D 90	FLANGED 50 N/B	713	436	120	127	140	385	114	206	162	214	57	19	19	134
	B 56			415			120									138
50 - 200 (50-190)	D 100	FLANGED 50 N/B	743	463	130	127	138	410	114	206	162	244	57	19	19	162
	D 112			483			167									180
80 - 125	B 56	FLANGED 80 N/B	849	440	140	112	120	405	110	260	150	262	40	15	20	146
	D 90			481			140									154
80 - 160	D 100	FLANGED 80 N/B	873	518	130	112	138	420	110	260	150	286	40	15	20	176
	D 112			536			167									194
80 - 200	D 132	FLANGED 80 N/B	893	603	140	112	140	440	110	260	150	306	40	15	20	226
	D 160			773			176									230
100 - 125	B 56	FLANGED 100 N/B	1183	443	140	117	120	540	110	490	180	302	40	15	35	212
	D 90			464			140									230
100 - 160	D 100	FLANGED 100 N/B	1271	519	160	145	138	570	110	490	180	410	40	15	35	272
	D 112			539			167									300
100 - 200	D 132	FLANGED 100 N/B	1313	628	170	145	140	600	110	490	180	452	40	15	35	356
	D 160			829			176									470
100 - 250	D 180	FLANGED 100 N/B	1410	850	180	155	167	641	110	373	220	495	50	20	55	524
	D 200			940			176									672
150 - 200	D 100	FLANGED 150 N/B	1410	512	180	155	138	541	110	373	220	495	50	20	55	340
	D 112			532			167									368
150 - 250	D 132	FLANGED 150 N/B	1410	636	180	155	176	541	110	373	220	495	50	20	55	392
	D 160			838			167									540
150 - 300	D 180	FLANGED 150 N/B	1410	943	180	155	176	541	110	373	220	495	50	20	55	800
	D 200			1044			239									935

NOTE

- DUAL SETS FEATURING PUMP SIZE 32-120 ARE NOT FITTED WITH SUPPORT FEET THEREFORE THE PIPEWORK AT BOTH SIDES OF THE SET MUST BE SUPPORTED.
- PUMPS MUST BE VENTED BEFORE STARTING UP WITH RADIATOR TYPE AIRCOCK (SCREWDRIVER SLOT) ON THE PEDESTAL.
- MOTOR TERMINAL BOX CAN BE TURNED THROUGH 180° FROM POSITION SHOWN.
- THE MANIFOLD FOR PUMP SIZE 150-200 IS SUITABLE FOR OPERATION ONLY WHEN MOUNTED IN HORIZONTAL PLANE. ALL OTHER MANIFOLDS, FOR PUMPS WITH MOTORS UP TO D90 FRAMESIZE, ARE SUITABLE FOR MOUNTING HORIZONTALLY OR VERTICALLY.
- MAX. WORKING PRESSURE - 10 BAR
 MAX. WORKING TEMPERATURE 110°C
 MAX. OPERATING CONDITION (NOT NECESSARILY A COMBINATION OF BOTH)
- THE MANIFOLDS FOR PUMP SIZES 100-125, 100-200 AND 100-250 ONLY CAN HAVE THE INLET/OUTLET BRANCHES TURNED THRO. 90° C/W OR CC/W. FROM NORMAL POSITION AS SHOWN.

See Note 6 CERTIFIED DRAWINGS WILL BE SUPPLIED ON APPLICATION.

Specifications subject to change without notice.

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