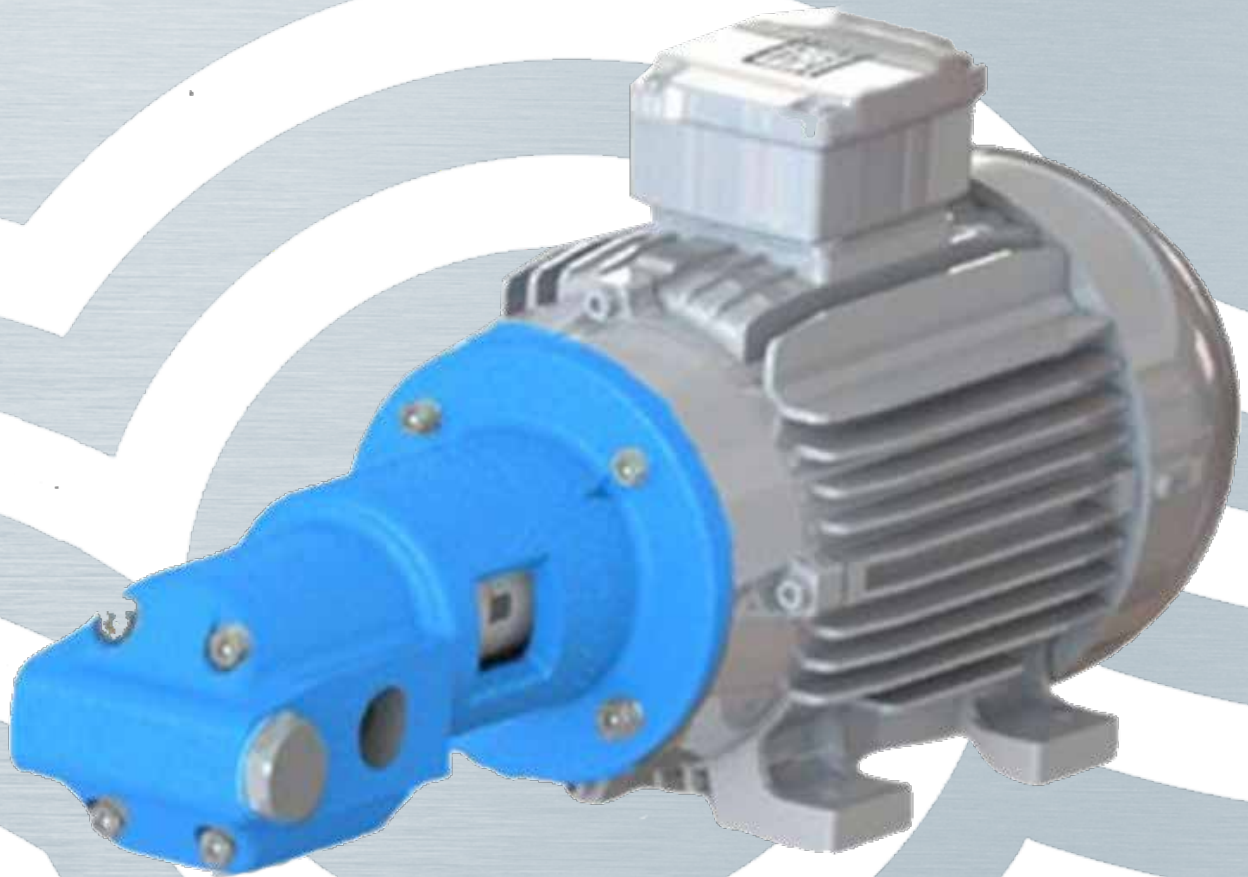


GN: Gear Pump 25, 40 & 56 Series



G: Gear type pump range

G: N Style:



Materials: CI

Heating and ventilation pumps

The GN range is a competitively priced pump available on very short lead times. Offering an economical solution, this range features a close coupled design and is often face mounted. The pump also offers alternative mounting options. Various layouts include foot or flange mounted, and skirt mounted direct to a motor. The GN range is also made as our GD range, which is a Duplex pump set with a filter as one unit, often used for pumping generator fuel in buildings.



Albany's 24-page brochure is available as a download at www.albany-pumps.co.uk



Maximum working pressure 10 barg	Pump size range 1/4" - 2 1/2"	Maximum temperature 85°C (95°C - 56 frames)	Flow rate 0-300 L/min
---	--------------------------------------	--	------------------------------

AL Aluminium | CS Cast Steel | CI Cast Iron | GM Gunmetal | HY Hastelloy | NR Ni-resist | NY Nylon | PP Polypropylene | SD Super Duplex | SS Stainless Steel
 General and Chemical Bitumen Fire Dispenser Machines Food Industry Lubrication Marine Oil & Gas Refrigeration Sugar

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Albany Pumps

G: N Style: 25 and 40 Series Heating & Ventilation pumps



Compact and robust gear pumps with cast iron casings, steel rotors and shafts. Adjustable internal relief valves are available on all pumps.

FEATURES

- Self-priming
- Rotational speeds between 100 rev/min and 1725 rev/min
- Packed adjustable gland, lip seal or mechanical seal
- Choice of bearings
- Motor drive or bare drive shaft
- Electric or air motor drive for normal, extreme or hazardous conditions
- Individually tested

PRESSURE, FLOW & SUCTION

25 and 40 Series gear pumps can produce pressures up to 10 bar depending on available power supply (kW) and liquid. Powers listed in performance tables cover relief valve pattern pumps with discharge pressures up to that stated.

The 56 series can produce pressures over 10 bar, which should be reviewed with Albany Sales. Suction lift will vary according to the shaft speed, viscosity and the vapour pressure.

SEALING AND CONSTRUCTION

P type is pedestal mounted for use on a baseplate with a coupling to a motor or other drive. This type is available with either mechanical seals or packed glands.

F type is flange mounted, generally for building into a machine. This type has a lip seal.

O type is suitable for mounting onto an induction motor with a coupling. We normally supply the products complete. This type is available with nitrile mechanical seals, with optional viton. For the 56 series, the O type uses a housing adaptor.

TEMPERATURE

Running at recommended speeds standard pumps can handle liquids at temperatures from 0°C – 85°C (95°C for the 56 series). Special pumps are available for liquids at extreme temperatures.

ROTORS

25, 40 and 56 Series pumps are fitted with spur gear rotors. The 56 Series is available with optional helical gear rotors, for smooth and quiet operation.

ROTATION

Standard rotation is clockwise, looking from the drive shaft end of the pump. This direction of rotation will be supplied unless otherwise requested.

APPLICATIONS

Machine tools, sprayers, packaging machinery, bottle washing, de-icing, damp proofing, timber treatment, oil and solvent recycling, fuel oil systems, pressure testing, processing, degreasing, general circulation, lubrication and transfer duties.

LIQUIDS HANDLED

Fuel oils, coolants, lubricants, solvents, bitumen, liquid wax, molasses, cooking oil, glue, varnish, detergents, anti-freeze, insecticides, sodium hydroxide, paints etc.

VISCOSITY

All GN style gear pumps are individually tested on oil. The performance details shown are based on these tests at the viscosities stated. Viscosity will rise as temperature falls. Viscous liquids may cavitate at high running speeds. Cavitation can be prevented by heating liquids to reduce viscosity, or pumping at low speeds or both. Pumps are suitable for 4 cSt to 1250 cSt. higher or lower viscosities can be reviewed with Albany Sales.

RELIEF VALVES

Relief valves are pre-set to protect the motor from overload. They are not suitable for use as control valves. The relief valve can be supplied for external relief if needed.

SUCTION CONDITIONS

Pumps are suitable for suction lifts up to 3m. However, it is advisable for lifts over 2m, long suction runs and suction losses over 0.4 bar to contact Albany sales for advice. **NOTE:** Suction head and static discharge head on lip seal models must not exceed 0.34 barg.

SPECIAL OPTIONS FOR THE 56 SERIES

The 56 Series lends itself to adaptation for extreme temperatures and pressures and also for different configurations. We can supply designs for the following:

- Heated Pumps
- Vertical Models
- Pumps in Gunmetal, steel and stainless steel.

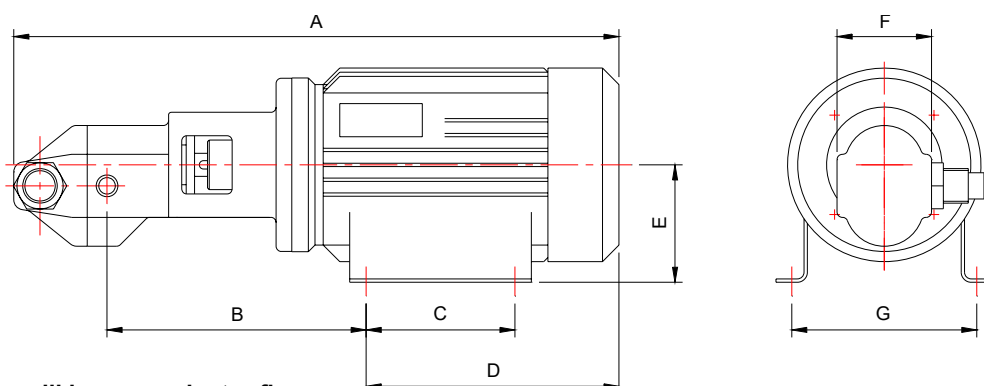
Contact Albany Sales to discuss any special versions of our products.



Gear	Viscosity in		Capacity in L/min at these pressures (barg)						kW at these pressures (barg)					
	cSt	RPM	0	2	4	6	8	10	0	2	4	6	8	10
25 Series from 3.5 to 30 L/min														
375	4 cSt Diesel	1420	5.0	3.1	1.9	1.2			0.27	0.31	0.34	0.37		
375	130	960	3.5	3.2	2.8	2.6	2.6	2.3	0.29	0.31	0.33	0.35	0.38	0.42
375	130	1420	5.1	4.3	4.2	4.1	4.1	3.9	0.34	0.36	0.37	0.39	0.43	0.46
750	4 cSt Diesel	960	7.1	5.5	5.2	4.4	3.5	3.2	0.26	0.30	0.36	0.39	0.42	0.50
750	4 cSt Diesel	1420	10.9	9.3	8.6	7.8	7.4	6.9	0.29	0.34	0.39	0.43	0.47	0.53
750	130	960	7.2	7.1	7.0	6.9	6.8	6.6	0.30	0.31	0.38	0.41	0.46	0.50
750	130	1420	10.9	10.6	10.5	10.3	9.9	9.6	0.33	0.36	0.40	0.43	0.49	0.54
1500	4 cSt Diesel	960	14.0	13.2	12.7	11.2	9.9	9.4	0.26	0.35	0.43	0.52	0.60	0.69
1500	4 cSt Diesel	1420	20.3	20.2	19.5	18.4	17.4	16.7	0.29	0.39	0.48	0.57	0.69	0.80
1500	130	960	14.5	13.9	13.7	13.6	13.3	13.2	0.30	0.37	0.46	0.54	0.60	0.70
1500	130	1420	22.0	21.1	20.8	20.6	19.9	19.0	0.35	0.43	0.51	0.59	0.69	0.81
2000	4 cSt Diesel	960	18.4	15.4	13.0	11.4	8.9	7.1	0.24	0.42	0.50	0.60	0.74	0.84
2000	4 cSt Diesel	1420	26.5	24.2	22.2	20.2	18.2	16.2	0.32	0.48	0.57	0.68	0.86	1.05
2000	130	960	19.6	18.1	17.9	17.5	16.7	16.5	0.29	0.40	0.50	0.60	0.73	0.83
2000	130	1420	29.0	27.9	27.7	27.4	26.3	26.0	0.40	0.49	0.61	0.72	0.85	1.04
40 Series from 25 to 100 L/min														
1300	4 cSt Diesel	1420	45.4	40.6	36.4	32.6	29.0	26.0	0.35	0.48	0.65	0.80	0.98	1.20
1300	94	960	33.3	31.2	29.3	27.5	25.4	23.0	0.52	0.54	0.62	0.73	0.82	0.98
1300	94	1420	50.0	47.6	45.9	43.9	42.0	39.1	0.39	0.52	0.69	0.85	1.01	1.24
1750	4 cSt Diesel	1420	60.0	51.9	44.5	39.2	33.5		0.39	0.59	0.82	1.06	1.33	
1750	83	960	44.4	39.2	35.2	31.1	27.2	23.0	0.63	0.67	0.75	0.84	0.93	1.00
1750	83	1420	65.0	59.8	55.8	52.0	47.5	43.1	0.44	0.62	0.87	1.09	1.36	1.67
2750	4 cSt Diesel	960	65.1	55.8	48.9	43.4	38.0	32.2	0.21	0.45	0.68	0.90	1.24	1.70
2750	4 cSt Diesel	1420	96.6	88.1	81.8	75.4	70.8	65.4	0.24	0.68	1.02	1.47	1.76	2.32
2750	83	960	67.6	63.6	57.7	53.7	49.5	46.0	0.26	0.42	0.71	0.91	1.26	1.68
2750	83	1420	99.1	95.9	90.9	86.0	83.0	78.0	0.36	0.75	1.10	1.46	1.86	2.37
56 Series from 55 to 320 L/min														
2250	4 cSt Diesel	960	105.3	100.7	95.9	89.9	84.5	80.4	0.14	0.52	0.98	1.39	1.78	2.18
2250	4 cSt Diesel	1420	158.7	155.8	150.5	144.4	139.8	135.9	0.46	0.91	1.50	2.14	2.69	3.30
2250	80	960	114.5	112.5	110.3	108.7	107.0	105.8	0.80	1.20	1.70	2.00	2.40	2.90
2250	80	1420	164.1	162.2	161.0	160.4	159.5	157.8	0.60	1.30	1.90	2.50	3.10	3.80
3250	4 cSt Diesel	960	154.2	147.2	142.0	134.6	130.6	124.4	0.18	0.77	1.27	1.90	2.38	3.00
3250	4 cSt Diesel	1420	233.3	224.4	217.6	213.9	207.4	202.4	0.67	1.40	2.14	2.96	3.73	4.54
3250	60	960	162.5	160.7	158.9	154.5	152.2	149.4	1.00	1.70	2.50	3.40	4.10	5.10
3250	60	1420	242.0	240.5	237.5	235.5	231.1	228.0	1.00	1.70	2.90	3.90	4.80	5.80
4500	4 cSt Diesel	960	206.0	192.0	186.3	180.3	171.9	162.7	0.37	1.06	1.84	2.58	3.51	4.30
4500	4 cSt Diesel	1420	308.5	303.0	290.7	280.6	274.4	268.7	1.32	1.72	3.06	5.00	6.52	7.00
4500	48	960	215.1	211.7	208.5	203.0	200.5	194.0	1.00	1.90	2.90	4.10	5.50	8.30
4500	48	1420	326.0	322.6	317.7	312.6	307.4	298.1	1.30	2.50	4.10	5.70	7.10	8.80

G: N Style: 25 Series Economy – heating and ventilation pump

MODEL TYPE 'O' 25 motorised available with: MECHANICAL SEAL



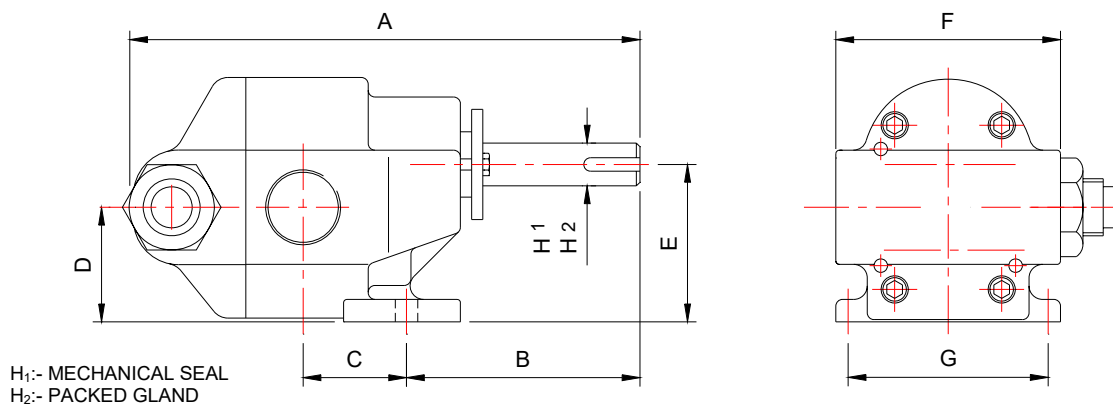
Note: D90 motors will have an adaptor flange.

MODEL 'O'	MOTOR		mm								BRANCH BSP female	WEIGHT kg	
			A	B	C		D	E	F	G			
25375	D71C		398	166	90		176	71	60	112	1/4"	9.5	
25750	D71C		407	172	90		176	71	60	112	1/2"	10	
25150	D71C		427	172	90		176	71	60	112	1/2"	10.5	
25200	D71C		439	172	90		176	71	60	112	1/2"	11.0	
25375	D80C		432	171	100		205	80	60	125	1/4"	12.0	
25750	D80C		441	177	100		205	80	60	125	1/2"	12.5	
25150	D80C		461	177	100		205	80	60	125	1/2"	13	
25200	D80C		473	177	100		205	80	60	125	1/2"	13.5	
25150	D90S	D90L	420	183	100	125	214	90	60	140	1/2"	16.5	18.5
25200	D90S	D90L	432	183	100	125	214	90	60	140	1/2"	17.0	19.0

Pumps for liquids with viscosities less than 4 centistokes and over 750 centistokes must be referred to Albany sales for selection.

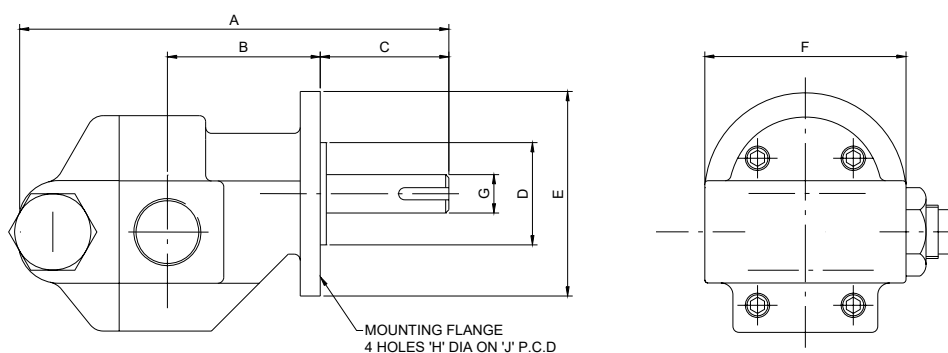
G: N Style: 25 Series Economy – heating and ventilation pump

MODEL TYPE 'P' 25 pedestal mounting, available with: PACKED GLAND or MECHANICAL SEAL



Model 'P'	mm									Branch BSP female	WEIGHT kg
	A	B	C	D	E	F	G	H ₁	H ₂		
25375	134	69	14	38	51	60	67	10	13	1/4"	2.2
25750	142	68	18	38	51	60	67	10	13	1/2"	2.5
25150	161	68	19	38	51	60	67	10	13	1/2"	3.0
25200	176	68	19	38	51	60	67	10	13	1/2"	3.4

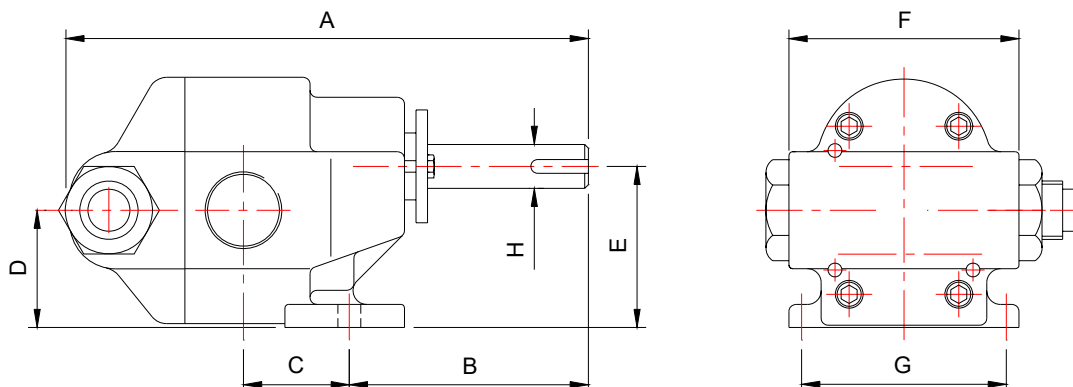
MODEL TYPE 'F' 25 flange mounting with: LIP SEAL



MODEL 'F'	mm							MOUNTING FLANGE		BRANCH BSP female	WEIGHT kg
	A	B	C	D	E	F	G	H	J		
25375	116	30	32	51	102	60	14	9	82.5	1/4"	2.2
25750	126	30	36	51	102	60	14	9	82.5	1/2"	2.5
25150	145	30	36	51	102	60	14	9	82.5	1/2"	3.0
25200	157	30	36	51	102	60	14	9	82.5	1/2"	3.4

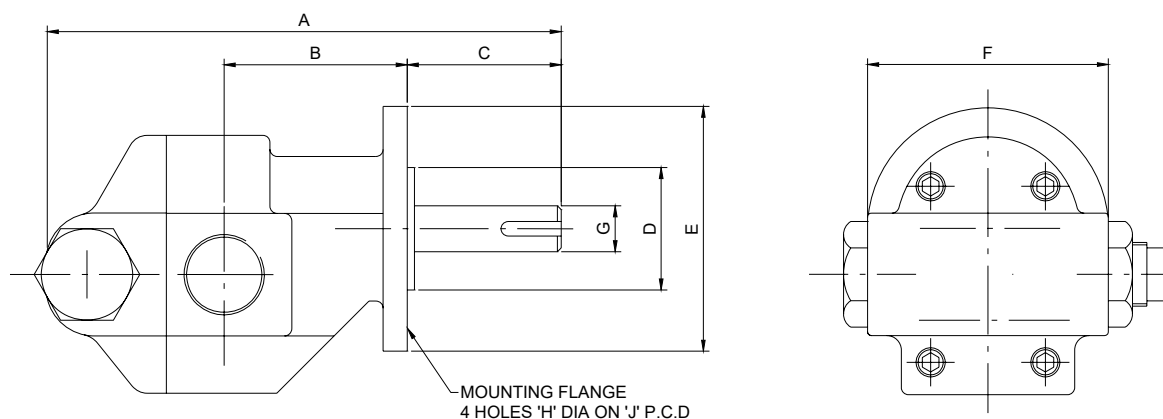
G: N Style: 40 Series Economy – heating and ventilation pump

MODEL TYPE 'P' 40 pedestal mounting, available with: **PACKED GLAND** or **MECHANICAL SEAL**



Model 'P'	mm								Branch BSP female	WEIGHT kg
	A	B	C	D	E	F	G	H		
40130	214	102	34	51	70	100	76	19	1"	6.4
40175	225	101	34	51	70	100	76	19	1"	7.2
40275	251	101	38	51	70	100	76	19	1.1/4"	8.9

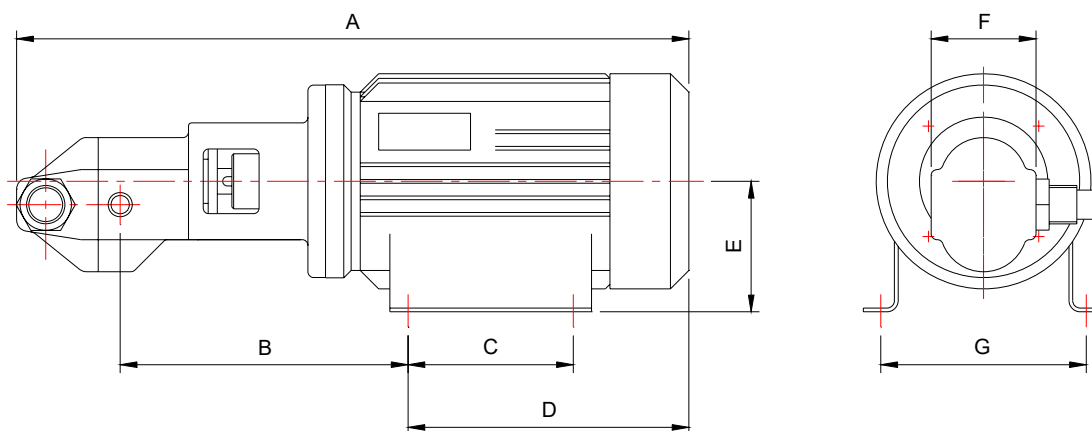
MODEL TYPE 'F' 40 flange mounting with: **LIP SEAL**



MODEL 'F'	mm							MOUNTING FLANGE		BRANCH BSP female	WEIGHT kg
	A	B	C	D	E	F	G	H	J		
40130	214	63	76	51	102	100	19	7	76	1"	6
40175	225	62	76	51	102	100	19	7	76	1"	6.8
40275	251	62	80	51	102	100	19	7	76	1.1/4"	8.5

G: N Style: 40 Series Economy – heating and ventilation pump

MODEL TYPE 'O' 40 motorised available with: MECHANICAL SEAL

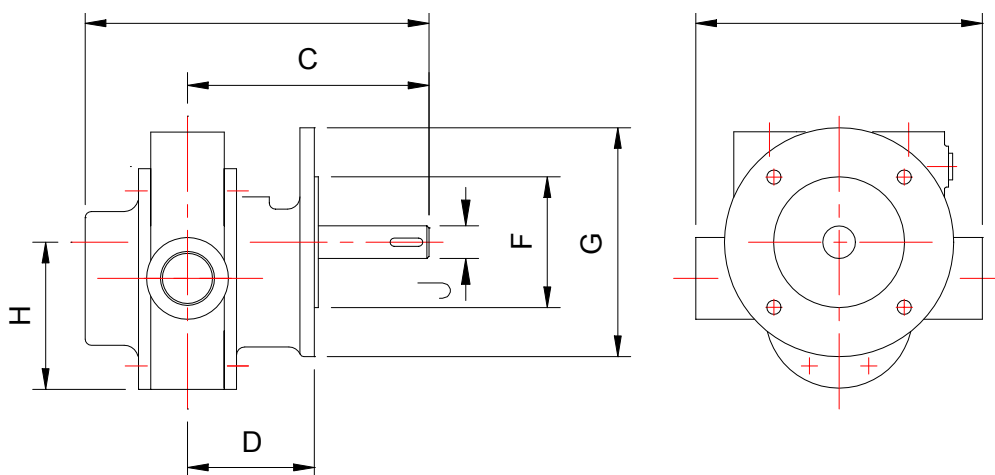


Note: D100 & D112 motors will have an adaptor flange.

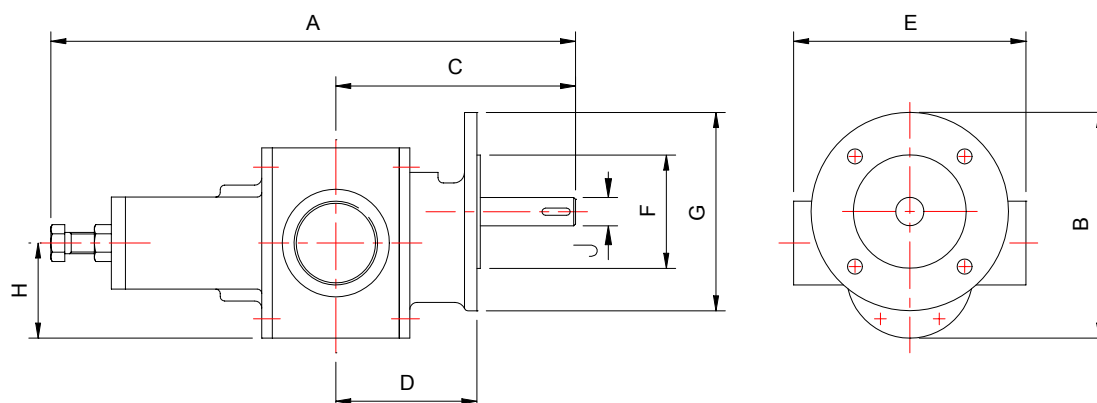
MODEL 'O'	MOTOR		mm								BRANCH BSP female	WEIGHT kg	
			A	B	C		D	E	F	G			
40130	D90SC	D90LC	514	223	100	125	216	90	100	140	1"	21.7	23.7
40175	D90SC	D90LC	525	223	100	125	216	90	100	140	1"	22.5	24.5
40275	D90SC	D90LC	551	227	100	125	216	90	100	140	1.1/4"	24.2	26.2
40130	D100C		555	230	140		245	100	100	160	1"	33	
40175	D100C		566	230	140		245	100	100	160	1"	33.8	
40275	D100C		592	234	140		245	100	100	160	1.1/4"	35.5	
40130	D112C		561	237	140		248	112	100	190	1"	41	
40175	D112C		572	237	140		248	112	100	190	1"	41.8	
40275	D112C		598	241	140		248	112	100	190	1.1/4"	43.5	

Pumps for liquids with viscosities less than 4 centistokes and over 750 centistokes must be referred to Albany sales for selection.

G: N Style: 56 Series Economy – heating and ventilation pump



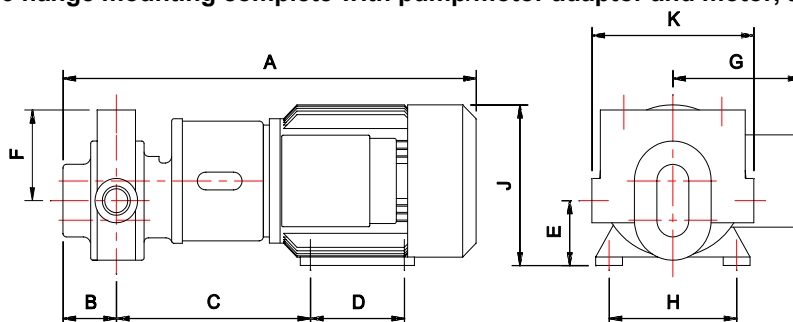
MODEL 'F'	mm												BRANCH BSP female	WEIGHT Kg	
	A		B		C	D	E		F	G	H	J		RV	NON RV
	RV	NON RV	RV	NON RV			RV	NON RV							
56225	267		260	203	187	98	222	172	102	178	114	25.4	1¼"	17	13
56325	292		260	203	200	111	241	152	102	178	114	25.4	1½"	21	17



MODEL 'F'	mm												BRANCH BSP female	WEIGHT Kg	
	A		B		C	D	E		F	G	H	J		RV	NON RV
	RV	NON RV	RV	NON RV			RV	NON RV							
56450	497	324	203		216	127	165		102	178	114	25.4	2½"	24	20

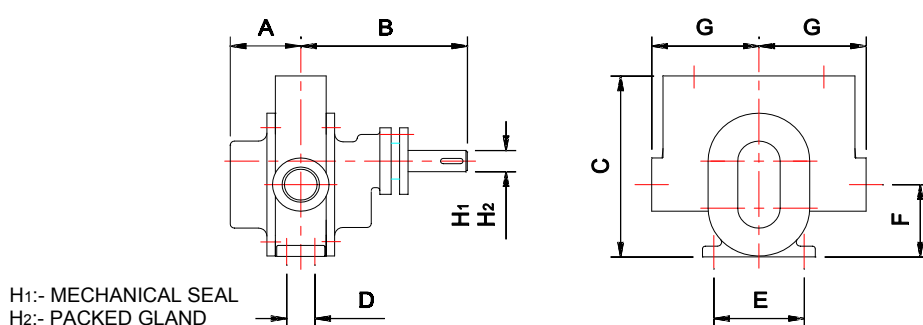
G: N Style: 56 Series Economy – heating and ventilation pump

MODEL TYPE 'F' 56 flange mounting complete with pump/motor adaptor and motor, available with: LIP SEAL



MODEL 'F'	MTR	mm													BRANCH BSP female	WEIGHT Kg	
		A		B		C	D	E	F		G	H	J	K			
		RV	NON RV	RV	NON RV				RV	NON RV				RV			NON RV
56225	D90L	557		79		264	125	62	175	85	154	140	178	242	171	1.1/4"	38
56225	D100L	609		79		282	140	72	175	85	180	160	204	242	171	1.1/4"	38
56225	D112M	610		79		289	140	84	175	85	191	190	223	242	171	1.1/4"	44
56225	D132M	795		79		133	114	124	175	85	214	216	285	242	171	1.1/4"	94
56325	D90L	583		92		277	125	62	175	85	154	140	178	242	152	1.1/2"	44
56325	D100L	835		92		295	140	72	175	85	180	160	204	242	152	1.1/2"	44
56325	D112M	636		92		302	140	84	175	85	191	190	223	242	152	1.1/2"	48
56325	D132M	821		92		146	114	124	175	85	214	216	285	242	152	1.1/2"	98
56450	D112M	843	667	284	108	318	140	84	85		191	190	223	165		2.1/2"	61
56450	D132M	1028	852	284	108	162	114	124	85		214	216	285	165		2.1/2"	111
56450	D160L	1110	934	284	108	162	114	124	85		273	216	317	165		2.1/2"	161

MODEL TYPE 'P' 56 pedestal mounting, available with: PACKED GLAND or MECHANICAL SEAL



MODEL 'P'	mm												BRANCH BSP female	WEIGHT Kg
	A		B	C		D	E	F	G		H1	H2		
	RV	NON RV		RV	NON RV				RV	NON RV				
56225	79		187	260	171	32	102	86	121	85.5	19	25.4	1.1/4"	17
56325	92		200	260	171	38	102	86	121	76	19	25.4	1.1/2"	21
56450	259	108	216	171		76	124	86	82.5		19	25.4	2.1/2"	34

G: N Style: 56 Series
Economy – heating and ventilation pump

Rotation and flow

TOP DRIVE ANTI- CLOCKWISE DRIVE SHAFT C/L RELIEF VALVE ADJUSTER DELIVERY SIDE SUCTION SIDE DRIVE SHAFT C/L BOTTOM DRIVE CLOCKWISE	TOP DRIVE ANTI-CLOCKWISE DRIVE SHAFT C/L RELIEF VALVE ADJUSTER DELIVERY SIDE SUCTION SIDE DRIVE SHAFT C/L BOTTOM DRIVE CLOCKWISE
TOP DRIVE CLOCKWISE DRIVE SHAFT C/L RELIEF VALVE ADJUSTER SUCTION SIDE DELIVERY SIDE DRIVE SHAFT C/L BOTTOM DRIVE ANTI-CLOCKWISE	TOP DRIVE CLOCKWISE DRIVE SHAFT C/L RELIEF VALVE ADJUSTER SUCTION SIDE DELIVERY SIDE DRIVE SHAFT C/L BOTTOM DRIVE ANTI-CLOCKWISE
DRIVE END VIEWS 'F' & 'P' 56-2250 & 56-3250	DRIVE END VIEWS 'F' & 'P' 56-4500