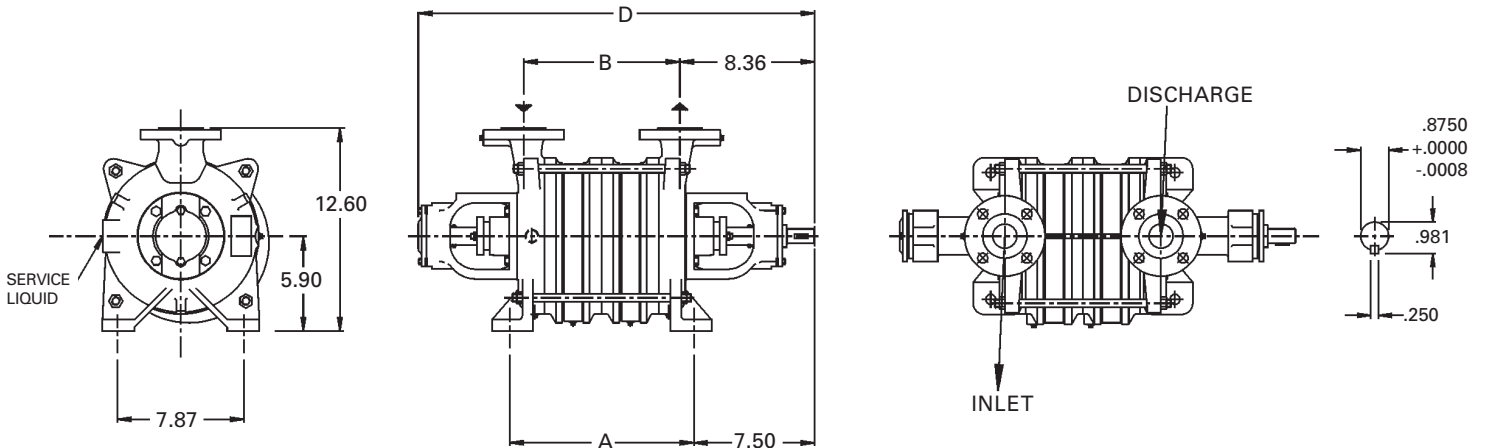


Dimensions (inches)

Pump Model	A	B	C	D
3704	11.45	9.71		24.61

For connection sizes/ratings and motor sizes refer to engineering data table on reverse.



For baseplate mounting, please obtain factory certified dimensions.

Capacity Table

Pump Model - KPH 3704										
Speed (RPM)	2 PSIG		5 PSIG		10 PSIG		15 PSIG		20 PSIG	
	scfm	HP	scfm	HP	scfm	HP	scfm	HP	scfm	HP
1750	38.0	3.0	38.0	3.6	38.0	4.5	37.0	5.5	35.0	6.7
1450	33.0	2.0	33.0	2.6	33.0	3.3	31.0	3.9	27.0	4.8

This data represents average values for pumps in standard materials. Derate capacity of stainless steel pumps by 10%. Capacity in cubic feet per minute free air at 68°F (20°C) using 60°F (16°C) water as a service liquid. Discharge pressure measured at the pump flange.

ENGINEERING DATA

PUMP MODEL	3704
Gas Conn. Size/Rating (U)	1½"/150 RF
Service Liq. Line Size/Rating (U _B)	½"/NPT
Cont. Drain Size/Rating (U _{se})	N/A
Motor (@ 1750 rpm) HP	7.5
Bare Pump Wt. (lb)	130
4 Direct Dr. Basemount (lb)	587
5 Min. V-Belt Sheave Dia.	6.3"
T-Separator/Trap Model	Upon request
Separator Size - Recirc. (Gal.)	24
1/2 Norm. Max. Gas Temp. (°F)	248
2 Max. Service Liq. Temp. (°F)	212
3 Sound Level (dBA)	70
Moment of Inertia Wr ² (lb. ft ²)	2.85
Casing Max. WP / Hydro (psi)	30/45

1. Max. gas temperature with saturated gases.
2. Higher temperatures possible on request.
3. At 3 ft., 1750 RPM w/o motor (not certified).
4. Basemount includes pump, motor, coupling, guard, and base.
5. Special pump bearings required for V-Belt applications.

SERVICE LIQUID RATES (USGPM)

PUMP MODEL- KPH 3704												
Pump Speed	5 PSIG			10 PSIG			15 PSIG			20 PSIG		
	A	B	C	A	B	C	A	B	C	A	B	C
1750	2.4	1.0	0.7	3.5	1.4	0.9	4.6	1.7	1.1	6.6	2.2	1.4
1450		0.9	0.5		1.1	0.7		1.4	0.8		1.8	1.0

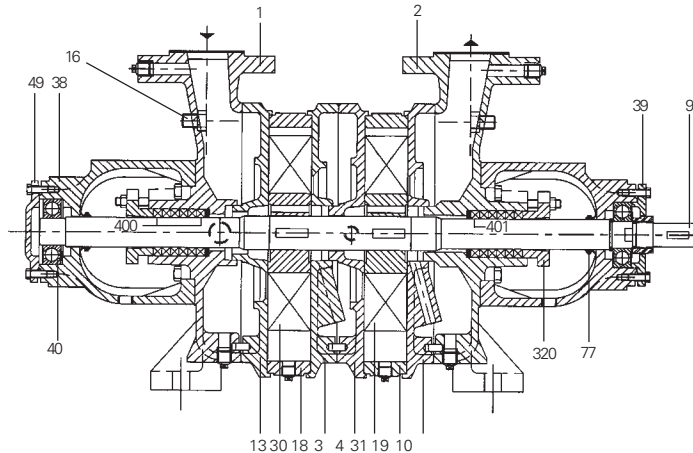
Column 'A' is the flow in USGPM required - once through.
 Column 'B' is the make-up flow required when make-up water is 5°C (9°F) cooler than service water.

Column 'C' is the make-up flow when make-up water is 10°C (18°F) cooler than service water.

For continuous operation, the service liquid supply pressure should be at least the suction pressure, plus 80% of the differential pressure from suction to discharge.

Note: The service liquid supply pressure may vary with pump speed and discharge pressure. Please consult factory engineering department for additional information.

SECTIONAL



Standard rotation 'AB' (clockwise) viewed from driven end. 'AL' (counter clockwise) upon request.

PARTS LIST

- | | | | |
|--------------------|-----------------------|----------------------|----------------|
| 1. Suction Cover | 13. Intermediate | 38. Bearing Housing | 400. Packing |
| 2. Discharge Cover | 16. Tie Bolt Assembly | 39. Bearing Retainer | 401. Neck Ring |
| 3. Intermediate | 18. Centerbody | 40. Ball Bearing | |
| 4. Intermediate | 19. Centerbody | 49. Bearing Cover | |
| 9. Shaft | 30. Impeller | 77. Splash Ring | |
| 10. Intermediate | 31. Impeller | 320. Gland | |

MATERIALS

ITEM	0E	4B
Casing-Wetted	Cast Iron	316 SS
Intermediates	Cast Iron	316 SS
Impeller(s)	Bronze	316 SS
Shaft	420 SS QT	316 SS
Shaft Sleeves	N/A	N/A
Shaft Sealing	ADB ⁶	ADB ⁶
Casing-Non Wetted	Cast Iron	Cast Iron

⁶ADB = single o-ring pusher seal with viton o-rings, carbon vs. SiC faces