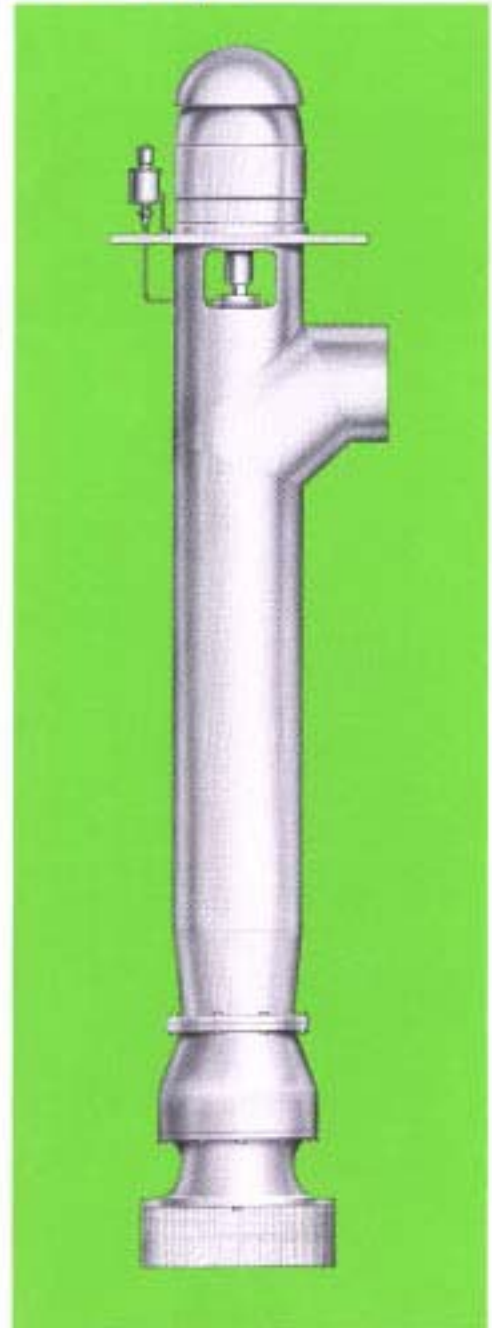


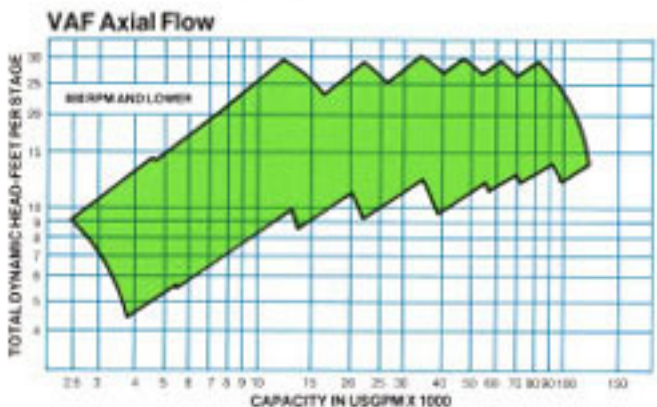
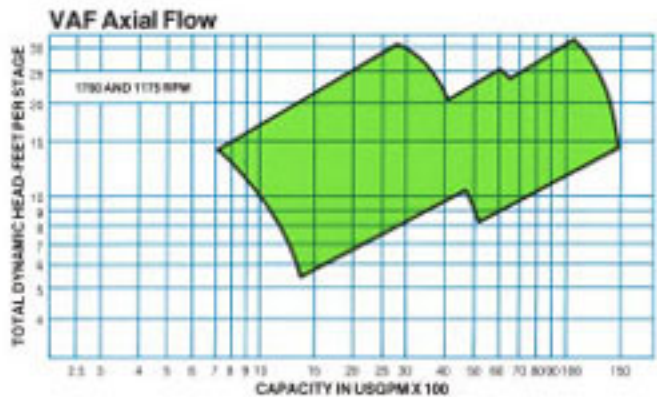
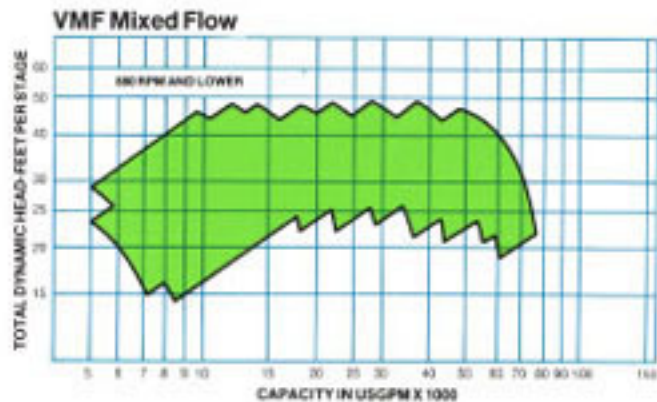
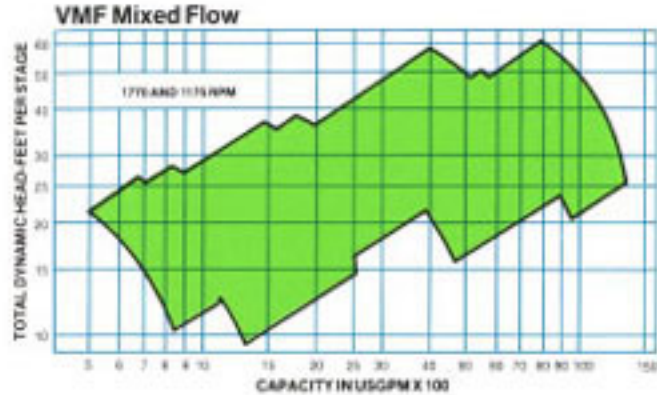


GOULDS PUMPS

Models VMF/VAF-Mixed Flow and Axial Flow Pumps



Hydraulic Coverage



Goulds Models VMF/VAF

Mixed Flow and Axial Flow Pumps

- Capacities to 150,000 GPM (34,065 m³/h)
- Heads to 50 feet (15m) per stage

Design Features

Design Efficiency Goulds VMF/VAF designs cover a wide range of hydraulic conditions for each pumping service with optimum efficiency.

Ease of Installation Automatic alignment and simplified piping assure less costly installation.

Self-Priming Submerged impellers allow pump to be started without priming, resulting in lower initial and operating cost.

Design Flexibility Available in oil or product lubrication, surface or underground discharge, vertical or horizontal configurations.

Long Life/Low Maintenance Models VMF/VAF standard with:

- Fabricated head and column
- Flanged connections
- Diffuser design

Materials Available in a wide range of alloys.

Services

- Pollution Control
- Medium and Low Head Circulation
- Effluent Disposal
- Flood Control
- Dewatering
- River Water Intake
- Cooling Tower
- Irrigation and Drainage
- Dry docks



Goulds Models VMF/VAF Mixed Flow/Axial Flow Pumps

Design Features for Reliable, Efficient Service

Alternate Flanged Coupling for Solid Shaft Driver



Goulds flexibility of design allows the use of a wide range of materials and design features to meet the custom requirements of the user. No matter what the requirements, whether low first cost, ease of maintenance, optimum efficiency, tough service conditions, Goulds can make the pump to best satisfy the requirements.

Models VMF/VAF Product Lubrication

Stuffing Box



HEAVY DUTY BRONZE THROTTLE BUSHING
optional water flush and grease lubrication available

Bearing Retainer Assembly



416 SS LINESHAFT
FABRICATED STEEL RETAINER
BRONZE BACKED RUBBER BEARINGS

Bowl Assembly

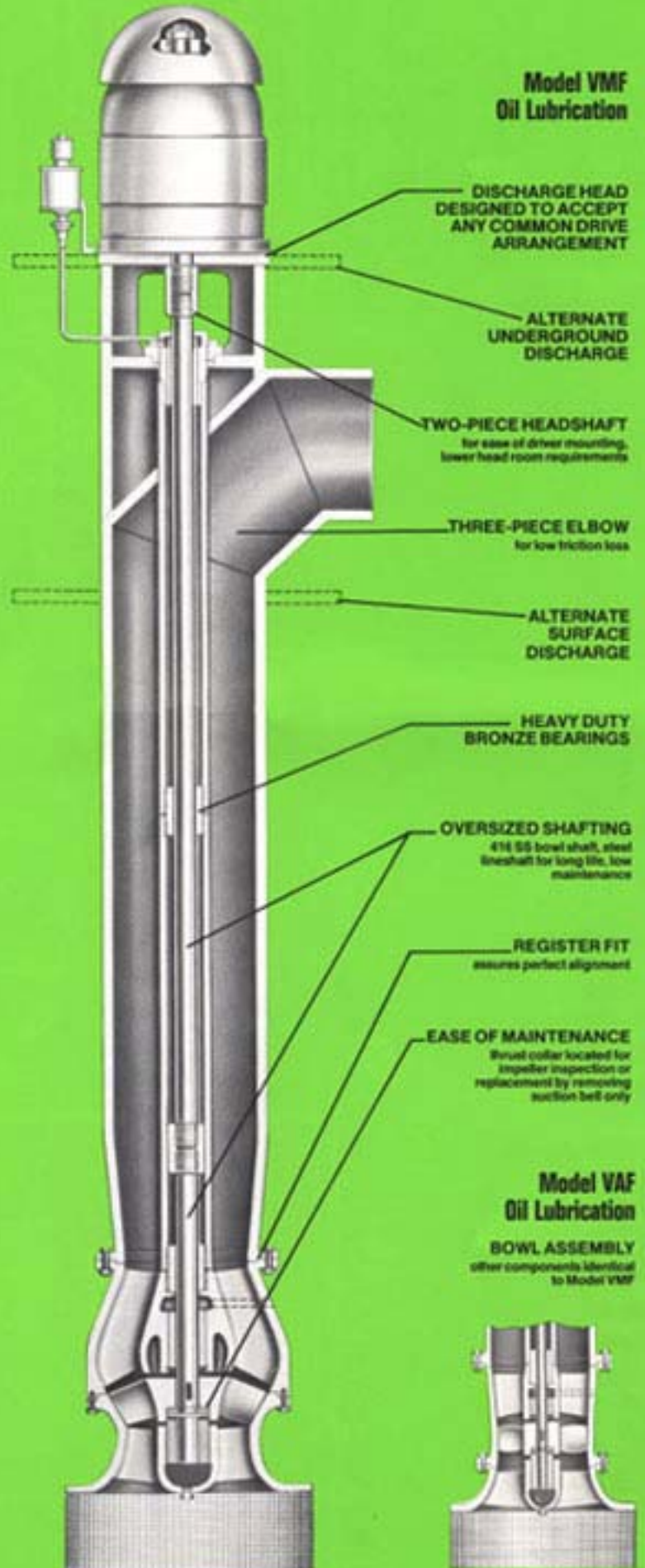


MODEL VMF



MODEL VAF

Model VMF Oil Lubrication

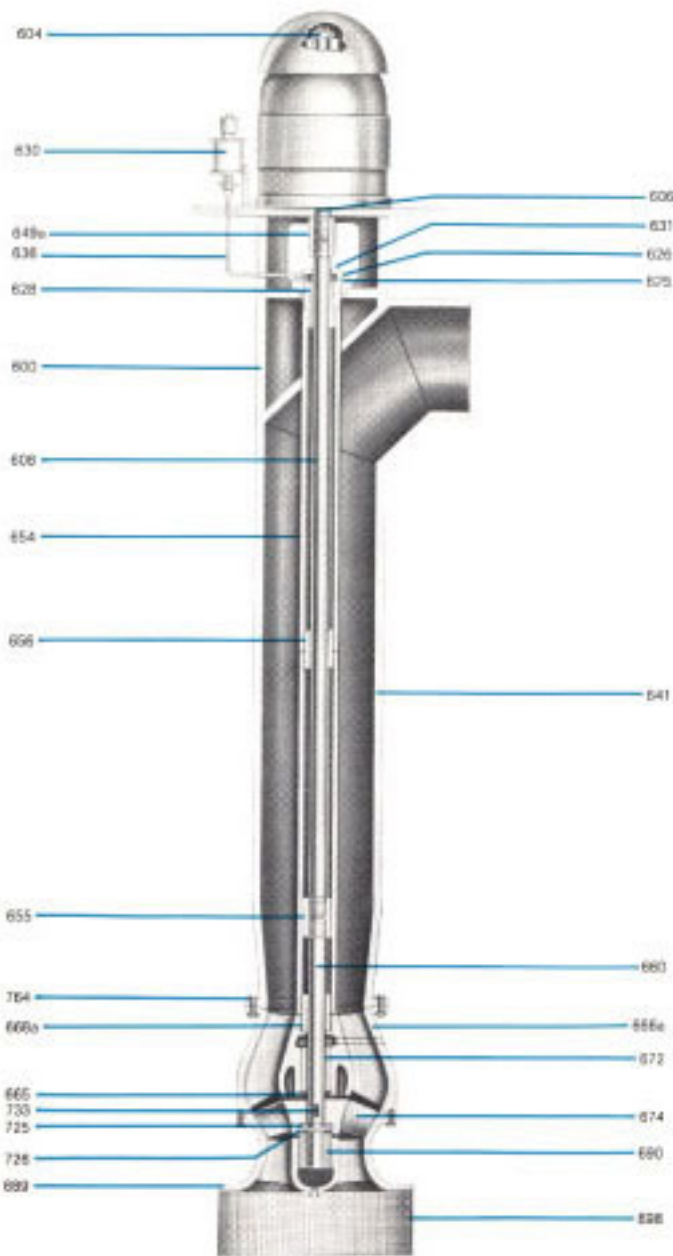


Model VAF Oil Lubrication

BOWL ASSEMBLY
other components identical to Model VMF

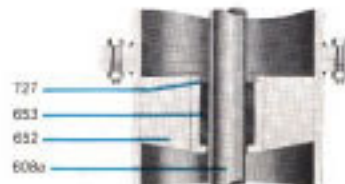


Sectional View

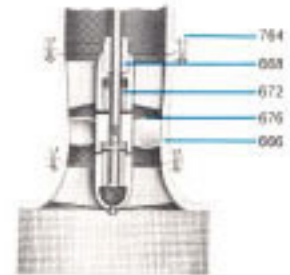


Parts List and Materials of Construction

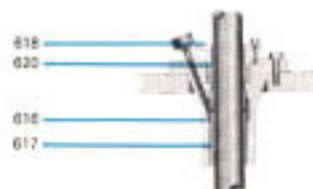
Part No.	Part Name	Material
		Bronze-Fitted
600	Discharge Head	Steel
604	Adjusting Nut	Steel
606	Head Shaft	Steel
608	Driveshaft ⁽¹⁾	Steel
608a	Driveshaft ⁽¹⁾	416 SS
616	Stuffing Box	Cast Iron
617	Stuffing Box Bushing ⁽¹⁾	Bronze
618	Stuffing Box Gland ⁽¹⁾	Bronze
620	Packing ⁽¹⁾	Graphited Yarn
625	Tension Nut	Steel
626	Tension Nut Lock Ring	Steel
628	Tension Nut Body Bushing	Bronze
630	Oil Reservoir	Aluminum
631	Tension Nut Body	Cast Iron
636	Oil Line	Copper
641	Column Pipe	Steel
649a	Headshaft Coupling	Steel
652	Bearing Retainer	Steel
653	Bearing ⁽¹⁾	Bronze
654	Enclosing Tube	Steel
655	Pump Shaft Coupling ⁽¹⁾	Steel
656	Tube Shaft Bearing	Bronze
660	Pump Shaft	416 SS
665	Seal	Rubber
666	Discharge Bowl	Cast Iron
666a	Discharge Bowl w/Ports	Cast Iron
668	Discharge Bowl Bearing	Bronze
668a	Tube Adapter Bearing	Bronze
672	Bowl Bearing	Bronze
674	Impeller — VMF	Bronze
676	Propeller — VAF	Bronze
689	Suction Bell	Cast Iron
690	Suction Bell Bearing	Bronze
698	Strainer (Optional)	Steel
725	Split Ring Halves	416 SS
726	Snap Ring Thrust Col. Ret.	416 SS
727	Bearing Lock Ring	Steel
733	Impeller Key	416 SS
764	Bowl Bolt	Steel



Open Line Shaft



Model VAF
Axial Flow

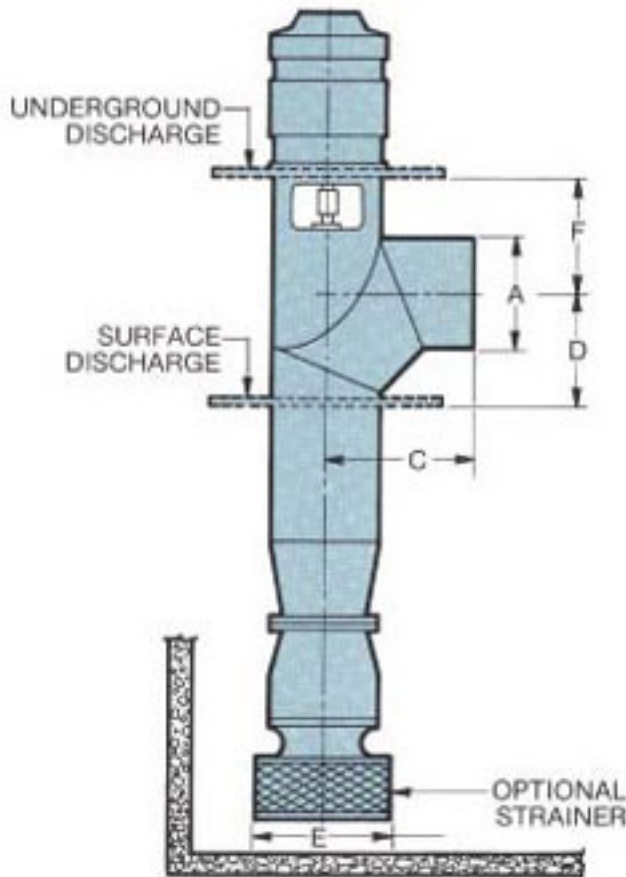


Packed Stuffing Box on Open
Line Shaft Construction

⁽¹⁾ Open Line Shaft Construction
Line Shaft Bearings are Rubber
Line Shaft is 416 SS

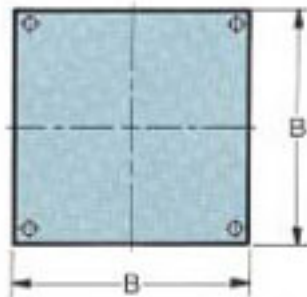
Dimensions Models VMF & VAF

All dimensions in inches. Not to be used for construction.



Dimensions — Model VMF						
Pump Size	A Col. Size	B	C	D	E	F
6	6	19	14	8	13	14
8	8	23	15	8	17	17
10	10	22	16	10	16	19
12	12	25	22	12	19	23
16	16	32	28	12	26	25
18	18	34	30	14	28	29
20	20	38	32	14	32	29
24	24	47	38	16	41	33
30	30	56	42	18	50	39
36	36	62	50	20	55	44
42	42	70	60	24	64	44

Dimensions — Model VAF						
Pump Size	A Col. Size	B	C	D	E	F
8	8	24	16	7	14	7
10	10	24	16	9	16	8
12	12	30	18	11	20	9
14	14	30	18	13	24	10
16	16	36	22	15	26	11
18	18	36	24	18	28	12
20	20	48	30	20	32	13
24	24	48	30	23	36	15
30	30	54	35	29	40	18
36	36	60	42	34	46	21
48	48	72	60	48	60	27



BASEPLATE MOUNTING FOR SURFACE DISCHARGE

NOTES:

1. Dimensions are approximate and may vary for specific hydraulic conditions.
2. Dimensions apply to standard plain end elbow suitable for Dresser Style 38 or similar coupling. Flanged discharge elbow is also available. Dimensions will vary.

Goulds Pumps

