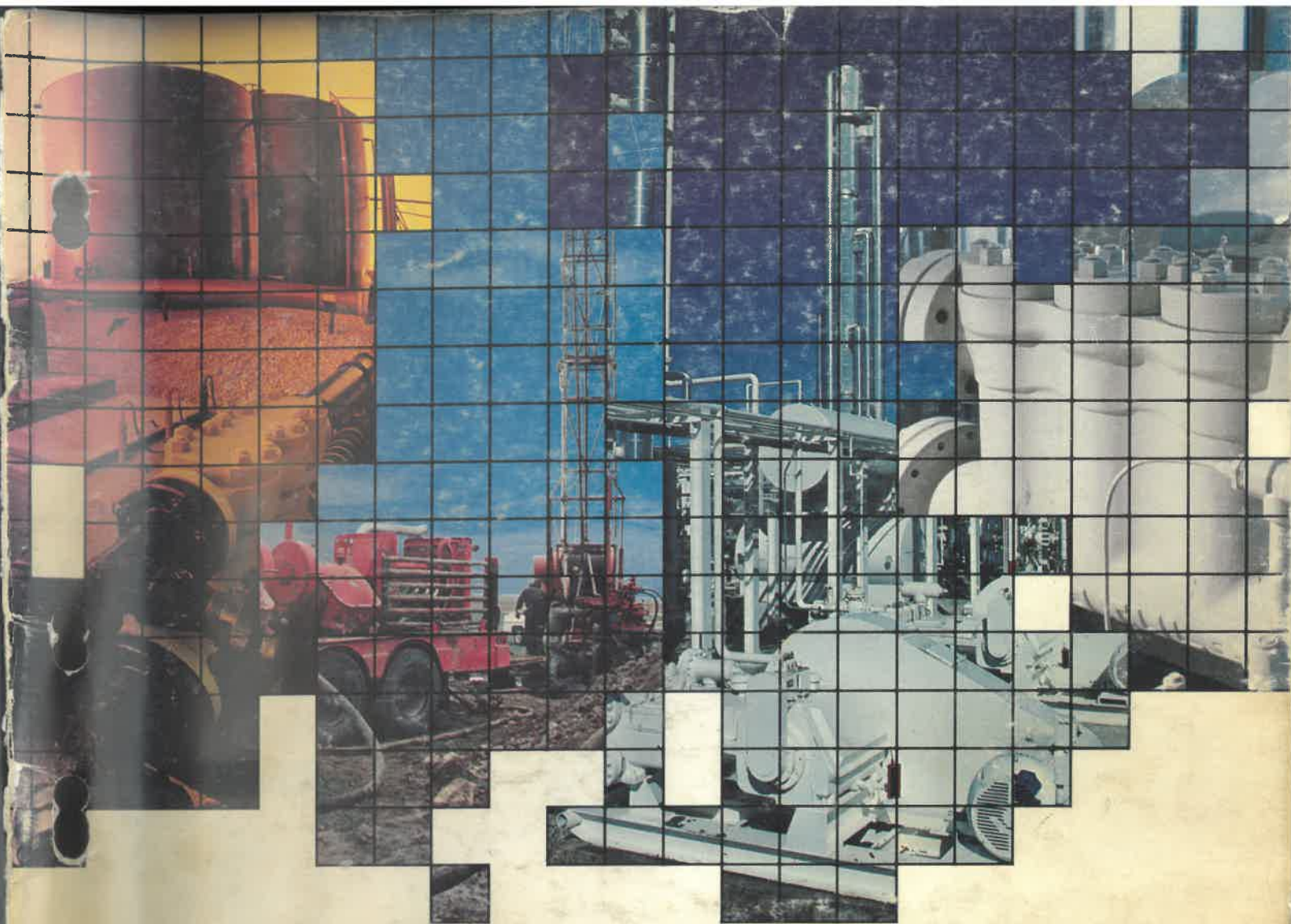




We're experts at moving fluids.

Gasco

Gasco Pumps, Inc., Tulsa, Okla.

STANDARD LINE CATALOG

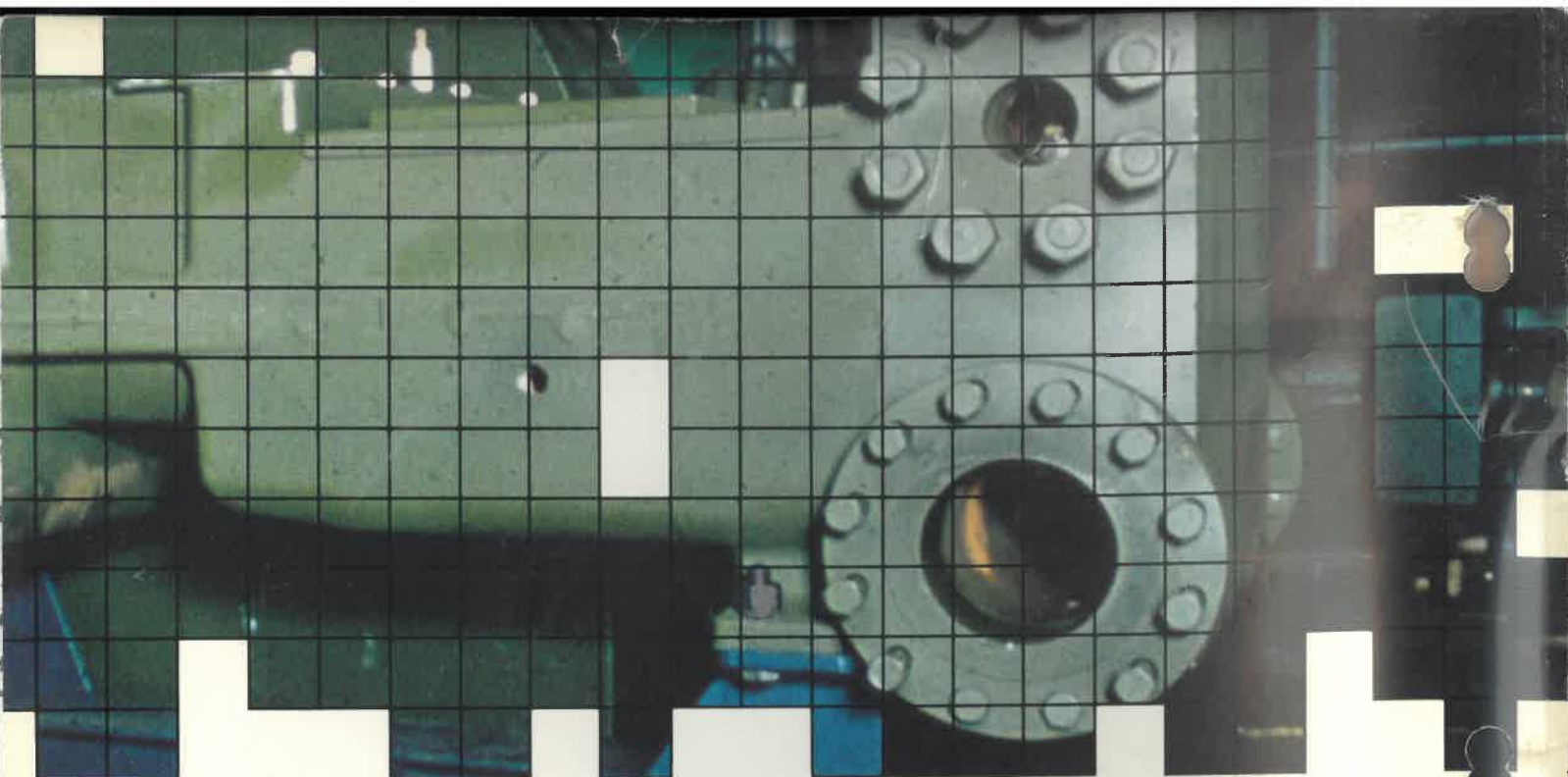


Fig. 3088-M 1-1/2" to 2-1/4" x 3-1/2"

Triplex Plunger Pump with steel billet liquid end and optional 3-feed pressure lubricator piped to the plunger stuffing boxes.

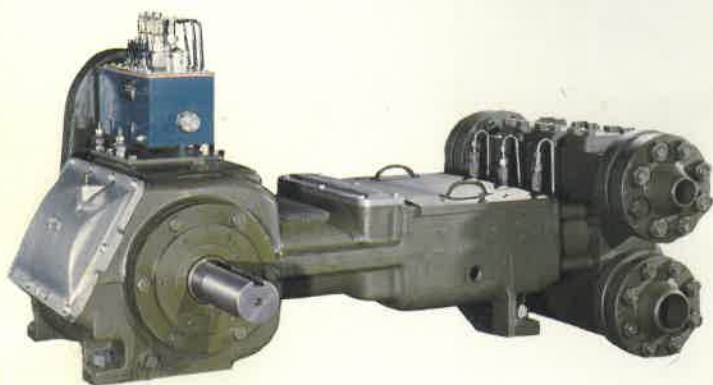


Fig. 3113-H 1" to 1-1/4" x 3-1/2"

Triplex Plunger Pump with steel billet liquid end. Vbelt driven by top-mounted electric motor.

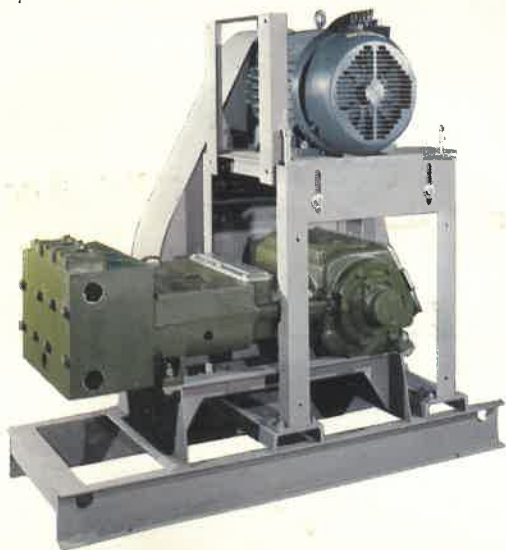


Fig. 5885 2-1/4" to 3-1/4" x 5"

Quintuplex Plunger Pump with steel billet liquid end. Vbelt driven by electric motor.

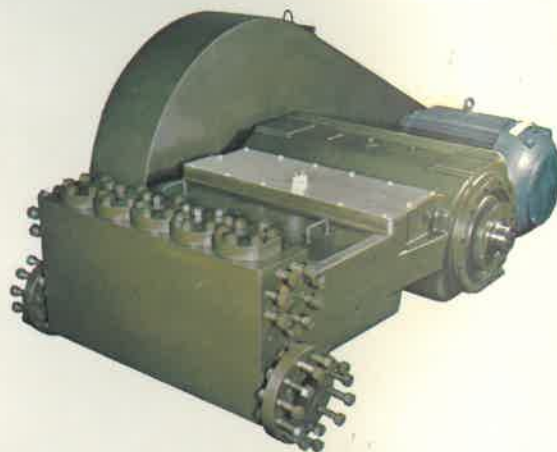
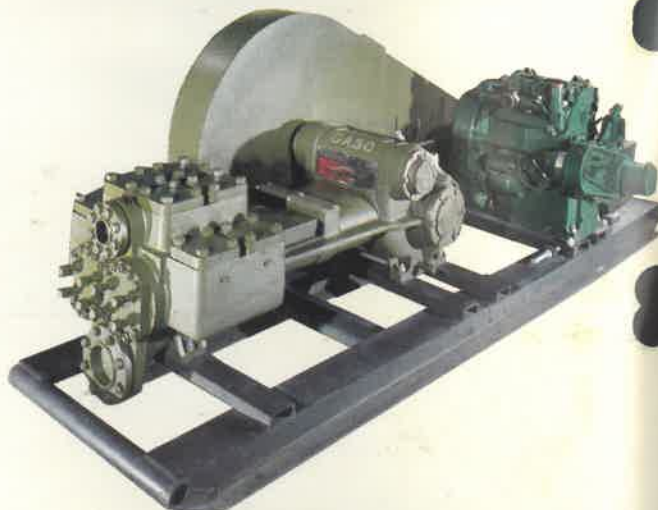


Fig. 1847-A 2-1/2" to 4-1/2" x 6"

Duplex Piston Pump with cast ductile iron liquid end. Vbelt driven by air-cooled diesel engine.



Gasol piston and plunger pumps.

For your convenience, here is a sampling of Gasol piston and plunger pumps. This should give you an excellent idea of what we can do for you. Our complete line, with more detailed information, can be found on the following 28 product pages.

Fig. 5350-MF 1-1/2" to 2-1/4" x 3-1/2"

Quintuplex Plunger Pump with cast aluminum bronze liquid end and optional 5-feed pressure lubricator piped to the plunger stuffing boxes.

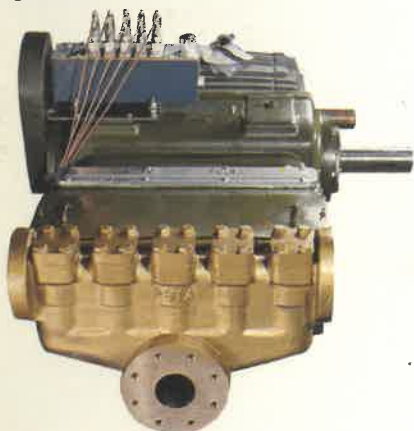


Fig. 3113-M 1-1/2" to 2-1/4" x 3-1/2"

Triplex Plunger Pump with cast aluminum bronze liquid end.

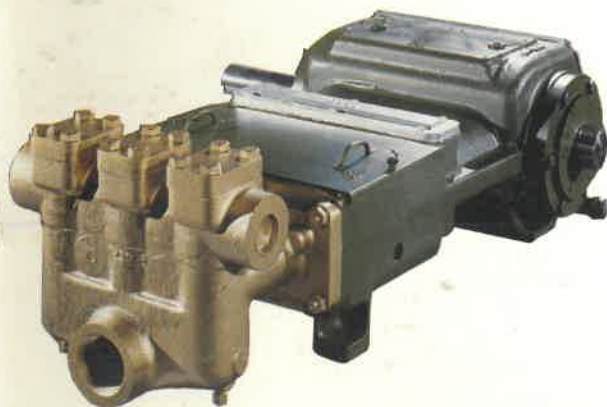


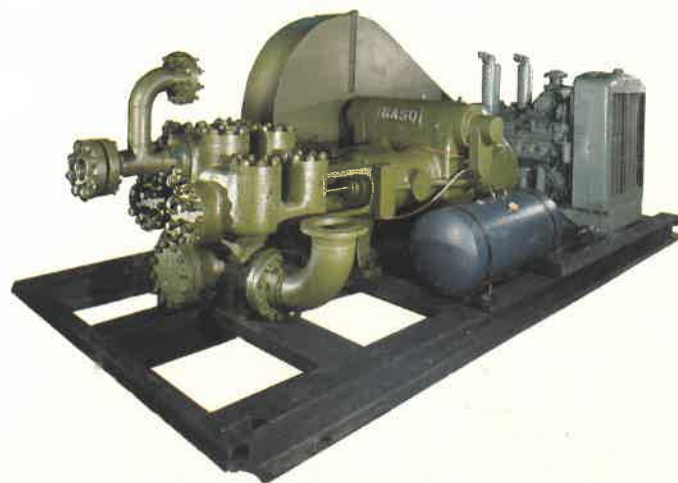
Fig. 1753 4" to 7-1/2" x 10"

Duplex Piston Pump with cast steel liquid end and optional companion flanges.



Fig. 2652 4" to 7-1/4" x 12"

Duplex Piston Pump with cast steel liquid end and optional piping for mounting suction and discharge stabilizers. V-belt driven by diesel engine.



A Gaso tradition since 1916:

Making rugged, long-lasting, efficient pumps.

In your business, you move fluids. Ours is to help you do just that with the best-made pumps on the market today. Gaso manufactures rugged, long-lasting, efficient reciprocating power pumps.

Gaso pumps are built to take it. And they're built to last year after

year after year.

Gaso has the people, the technical expertise, and the quality materials, to meet your demanding requirements.

And when you have Gaso pumps working for you, you'll also be getting the best field service

program in the industry.

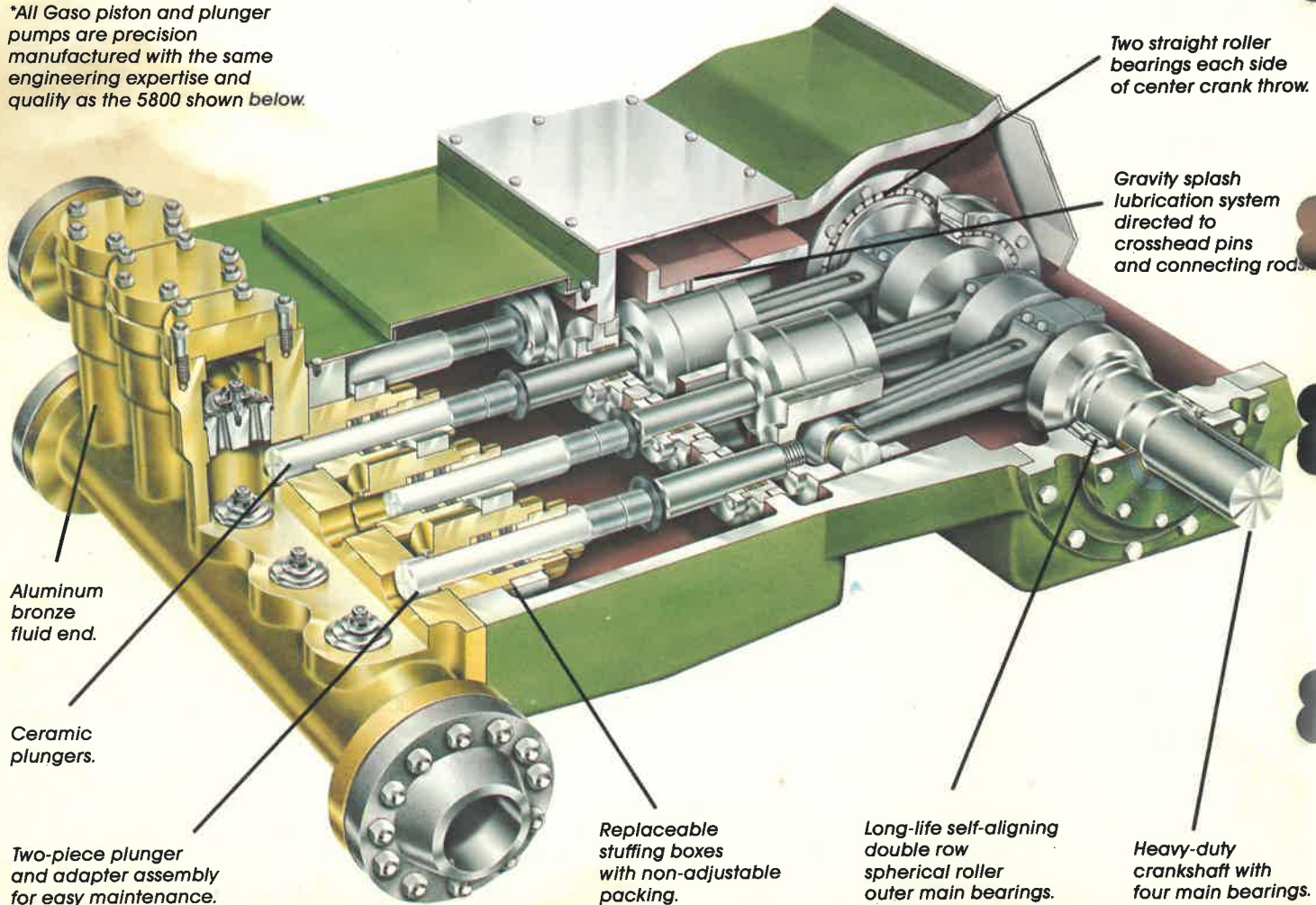
In short, we're experts at moving fluids.

We can help you solve problems. We've been solving fluid moving problems since 1916.

So talk to Gaso about your fluid-moving needs.

The inside story on Gaso's Quintuplex Pump

**All Gaso piston and plunger pumps are precision manufactured with the same engineering expertise and quality as the 5800 shown below.*



GASO PUMPS, INC.
P. O. BOX 2069
TULSA, OKLAHOMA 74101
(918) 446-4551

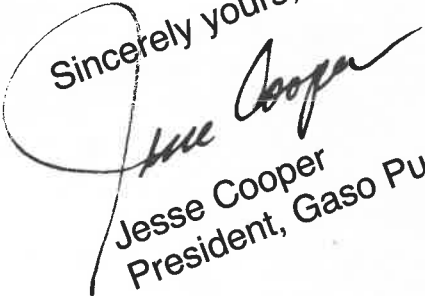
We're experts at moving fluids.
GASO

Dear Gaso Customer:
This is your new Gaso catalog. We have reorganized it and made it easier to use.
What we did not change is the quality built into every Gaso Pump. They are conservatively rated for sure performance.

We have been manufacturing positive displacement pumps for over 65 years, and nobody knows more about them than the people at Gaso.
We are also proud to note that we have expanded our facilities by 50% to meet your increasing requirements.

Please turn to the next page for the index. It has just about everything you are looking for in outstanding piston and plunger pumps.

Sincerely yours,


Jesse Cooper
President, Gaso Pumps.

PLANT LOCATION: 6750 SOUTH 57 WEST AVENUE, TULSA, OKLAHOMA 74131

If you have a fluid moving problem, we have the answer.

DEFINITION OF TERMS

Plunger Load or Piston Rod Load =
Pd X Face Area* of Piston or Plunger.

Torque = $\frac{5252 \times \text{H.P.}}{\text{RPM}}$

RPM = Revolutions Per Minute of Crankshaft.

GPM = U.S. Gallons Per Minute.

U.S. Gallon = 231 Cu. In.

One Barrel = One Petroleum Barrel.

Petroleum Barrel = 42 U.S. Gallons.

BPH = Barrels Per Hour.

BPD = Barrels Per Day.

GPM = BPH x .7

GPM = $\frac{\text{BPD}}{34.3}$

BPH = $\frac{\text{GPM}}{.7}$

Horsepower Required = Input at the Pump Pinion or Crankshaft.

TO CALCULATE HORSEPOWER

Horsepower for Single Acting Plunger Pump =

$\frac{(\text{GPM}) (\text{Pd}) (100)}{(1714) (\text{Em.})}$

Horsepower for Double Acting Piston Pump =

$\frac{(\text{GPM}) (\text{Pd-Ps}) (100)}{(1714) (\text{Em.})}$

Where: Pd = Pump Discharge Pressure, Pounds per Square Inch.

Ps = Pump Suction Pressure, Pounds per Square Inch.

Em = Pump Mechanical Efficiency.

*See Conversion Chart Page 28.

We're experts at moving fluids.

GASO

QUICK REFERENCE PUMP SELECTION GUIDE

PUMP FIG. NO.	PUMP SIZE	WORKING PRESSURE LBS. PER SQ. INCH (PSI)	DISPLACEMENTS		REQUIRED HORSEPOWER (HP)
			GALLONS PER MIN. (GPM)	BARRELS PER HOUR (BPH)	
3211	7/8-2 1/4x2	550-3300	6.2-41.3	8-59	14.6
3364	1 1/4-2 1/2x3	890-3300	19-76.5	27-109	43.8
2913	1 1/4-3 1/4x3	525-2900	19-129	27-184	43.9
2888	1 1/4-3 1/4x3	525-3300	19-129	27-184	43.9
3113 3088	1 1/4-3 1/4x3 1/2	620-4180	27-188	40-269	75
3466	2-3 1/2x4	665-2035	65-200	93-286	85
3500	1 1/4-4x5	630-5000	29-294	41-420	119
3700	1 1/2-4x5	955-5000	41-294	59-420	180
5350 5698	1 1/2-3 1/4x3 1/2	620-2900	67-314	96-449	125
5800	1 1/2-4x5	955-5000	69-490	98-699	300
1847-A	2 1/2-4 1/2x6	305-900	41-144	59-206	28.3
1550	2 1/2-5x10	330-1320	65-282	93-402	59.8
1654	2 1/2-5x8	560-1440	47-222	68-318	80.1
1700	2 1/2-7 1/2x10	295-1440	59-637	85-910	121.0
2600	4-7 1/4x12	535-1760	195-702	278-1003	234.4



INDEX

TRIPLEX PLUNGER PUMPS

Triplex Pump Specifications	3
Series 3200	4
Series 3300	5-6
Series 2900	7
Series 2800	8
Series 3113	9
Series 3113H & 3088	10
Series 3466	11
Series 3800	12
Series 3500	13-14
Series 3900	15
Series 3700	16

QUINTUPLEX PLUNGER PUMPS

Quintuplex Pump Specifications	17
Series 5350	18
Figure 5698	19
Series 5800	20

DUPLEX PISTON PUMPS

Duplex Pump Specifications	21
Figure 1847-A	22
Figure 1654	23
Figure 1550	24
Series 1700	25-26
Series 2600	27

Conversion Table	28
Gasol Pipe Clamps	28
Well Service Pumps	
See Well Service Catalog	



Ratings published herein are intended to be used only for preliminary planning purposes, and as such, carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

GASO TRIPLEX PLUNGER PUMPS

Gaso Pumps are engineered to deliver the plus values which have distinguished GASO PUMPS for over sixty years and to provide longer life and lower maintenance costs. Important design features include:

POWER END SPECIFICATIONS

Power Frame. High strength Meehanite® GD-35 gray iron casting with heavy wall sections well ribbed to insure rigid construction.

Crankshaft. Mounted with center line of shaft on center line of crossheads. Crankshaft may extend from either side.

Crankshaft Bearings. Interchangeable heavy duty tapered roller bearings.

Connecting Rods. All triplex plunger pumps are equipped with "H" type construction rods, with renewable babbitt lined steel backed shell bearings at the crank end and bronze bushings at crosshead end.

Crossheads. Series 3200, 3300, 3113, 3088, 3400, 3600 and 3700 pumps are furnished with cylindrical-type high strength alloy castings. Series 3500 and 3900 pumps are furnished with semi-cylindrical type casting. Crosshead pins are hardened and ground steel.

Lubrication. All power end parts are lubricated by splash system from oil in crankcase reservoir. Power frame has an oil return channel, from front of crossheads back to crankcase, to permit constant circulation of oil and to help keep oil cool. Positive power end lubrication is optional.

Stuffing Boxes. Series 3200, 3300, 3113, 3088, 3400, 3500, 3800 and 3900 pumps are furnished with Double Lip "U" Cup packing. Series 3700 pumps are furnished with a set of four non-crushable lip-type packing rings.

LIQUID END SPECIFICATIONS

Liquid End Body. Standard materials available from stock are ductile iron for crude oil and fresh water service, and steel for pumping petroleum products in hazardous locations. Aluminum bronze alloys are used for saltwater and other corrosive liquids. Special alloys such as Hastelloy C, Carpenter #20, Inconel or Stainless Steel can be furnished upon request.

Valves. Series 3200 and 3300 pumps are furnished standard with wing guided type valves and seats. Series 3113, 3088, 3400, 3500, 3800, 3900, 3600 and 3700 pumps are furnished standard with stem guided disc-type valve assemblies.

Cylinder Heads and Valve Covers. 3200 and 3300 pumps with aluminum bronze and ductile iron liquid ends have threaded valve covers and cylinder-heads; all others are bolt-on type.

Plungers. Plunger materials available are: Colmonoy surfaced steel, solid ceramic, and chrome plated steel. Other materials or surfacing available on request.

Stuffing Boxes. All triplex pump boxes, with the exception of Figure 3583, and Series 3088, 3800, 3900, and 3700 pumps, are bored directly into the fluid body. Stuffing boxes for Figure 3583 and Series 3088, 3800, 3900, and 3700 pumps are replaceable type.

Packing. Standard packing is a set of non-crushable lip type packing rings. Other packing can be furnished for special applications.

Plunger Lubrication. Optional, depending on application. Furnished by use of drip oilers or a regulated flow of oil from a force feed lubricator. Lubricator is mounted on pump with separate oil lines to each plunger.

GASO 3300

SERIES 3300 A-3" STROKE TRIPLEX PLUNGER PUMPS

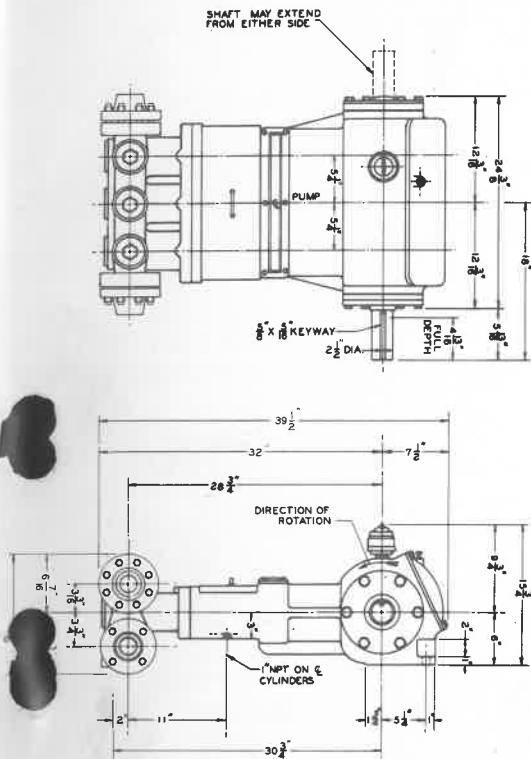


Fig. 3364 A with Cast Liquid End Flanged

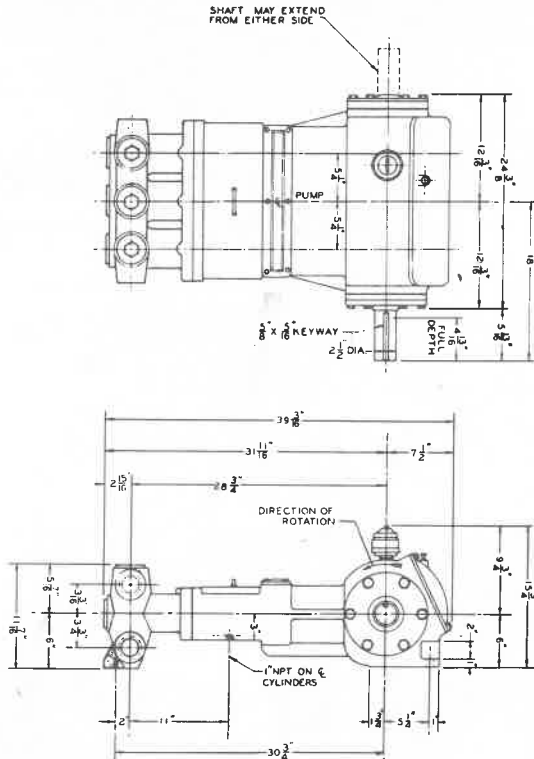


Fig. 3364 A with Cast Liquid End

SPECIFICATIONS

- No. of Plungers-3
- Stroke Length-3"
- Plunger Load-4370 lbs.
- Crankshaft Pin Dia.-3.25"
- Oil Capacity-2 U.S. gallons
- Pump Weight-720 lbs.
- Connections-Fig. 3364A-S
 - Standard
 - 2 1/2" NPT suction
 - 2" NPT discharge
 - Optional
 - 2"-150# ANSI suction
 - 2"-2000# APT RTJ discharge
- Connections-Fig. 3364A-M, L, & O
 - Standard
 - 2 1/2" NPT suction
 - 2" NPT discharge
 - Optional
 - 2"-150# ANSI suction
 - 2"-600# ANSI discharge
- Standard Materials for Liquid End Bodies
 - 3364A-S } Cast Alum. Bronze
 - 3364A-M }
 - 3364A-O }
 - 3364A-L Cast Ductile Iron

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT									
				100 RPM		200 RPM		300 RPM		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3364A-S	1 1/4	1815	.0478	4.8	165	9.6	330	14.3	490	16.7	575	19.1	655
	1 1/2	1815	.0688	6.9	235	13.8	475	20.6	705	24.1	825	27.5	945
	1 3/4	1815	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
3364A-M	1 3/4	1390	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2 1/4	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.2	1860	61.9	2125
3364A-L	1 3/4	1390	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2 1/4	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.2	1860	61.9	2125
3364A-O	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2 1/4	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.3	1860	61.9	2125
	2 1/2	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
Brake Horsepower Required				10.9		21.9		32.8		38.3		43.8	

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.

GASO 3300

SERIES 3300-3" STROKE TRIPLEX PLUNGER PUMPS

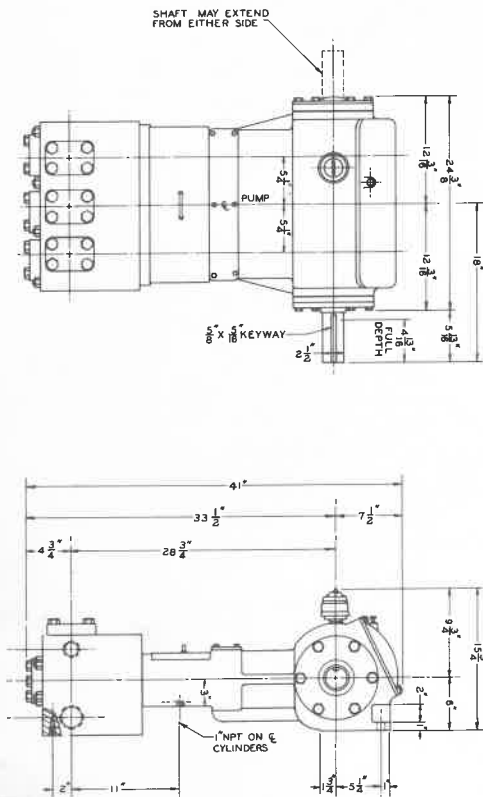


Fig. 3364 with Billet Liquid End

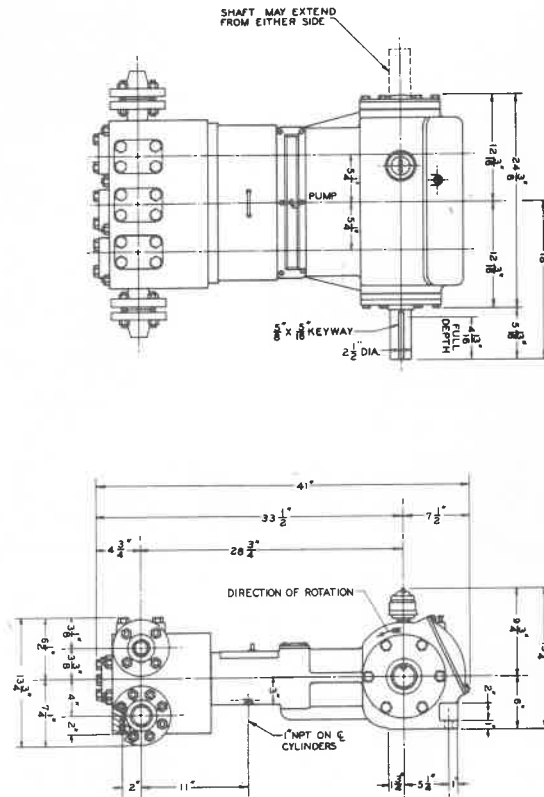


Fig. 3364 with Billet Liquid End, Flanged

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

SPECIFICATIONS

- No. of Plungers-3
- Stroke Length-3"
- Plunger Load-4370 lbs.
- Crankshaft Pin Dia.-3.25"
- Oil Capacity-2 U.S. gallons
- Pump Weight-1070 lbs.
- Connections-Fig. 3364-HU & S
 - Standard
 - 2" NPT suction
 - 1 1/2" NPT discharge
 - Optional
 - 2"-1500# ANSI suction
 - 1 1/2"-1500# ANSI discharge
- Connections-Fig. 3364-O
 - Standard
 - 2" NPT suction
 - 1 1/2" NPT discharge
 - Optional
 - 2"-600# ANSI suction
 - 1 1/2"-600# ANSI discharge

Standard Materials for
Liquid End Bodies

- 3364-HU } Steel Billet
- 3364-S }
- 3364-O }

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT									
				100 RPM		200 RPM		300 RPM		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3364-HU	1	3300	.0306	3.1	105	6.1	210	9.2	315	10.7	367	12.2	420
	1 1/4	3300	.0478	4.8	165	9.6	330	14.3	490	16.7	575	19.1	655
3364-S	1 1/2	2470	.0688	6.9	235	13.8	475	20.6	705	24.1	825	27.5	945
	1 3/4	1815	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
3364-O	1 3/4	1390	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2 1/4	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.2	1860	61.9	2125
	2 1/2	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
Brake Horsepower Required				10.9		21.9		32.8		38.3		43.8	

Horsepower required based on 90%
Mechanical Efficiency.
Displacements indicated are based on 100%
Volumetric Efficiency.

SERIES 2900-3" STROKE TRIPLEX PLUNGER PUMPS

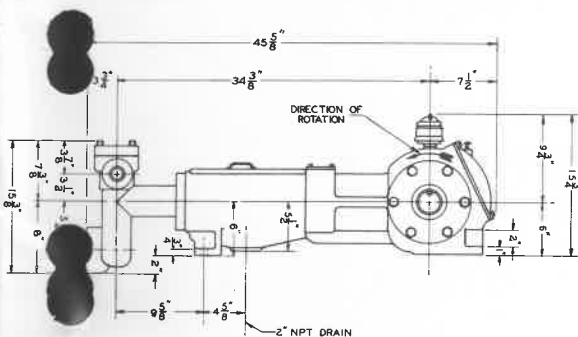
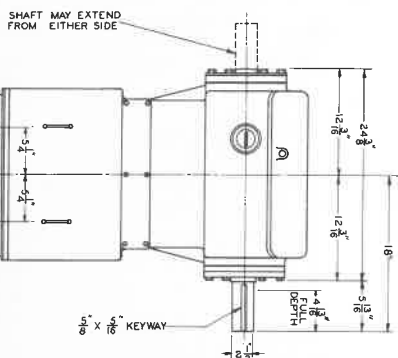


Fig. 2913-M

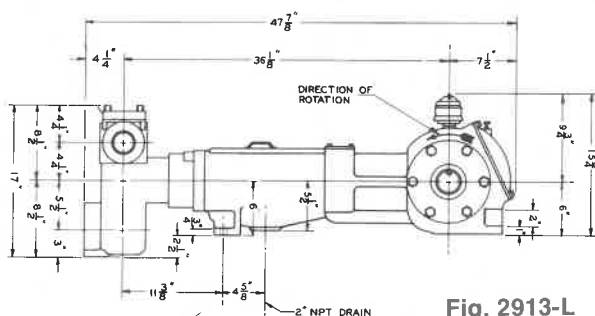
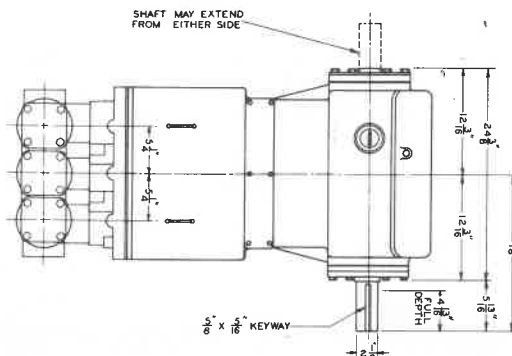


Fig. 2913-L

SPECIFICATIONS

No. of Plungers-3

Stroke Length-3"

Plunger Load-4370 lbs.

Crankshaft Pin Dia.-3.25"

Oil Capacity—2 U.S. gallons

Pump Weight—Fig. 2913-M

Tapped Liquid End 890 lbs.

Flanged Liquid End 1040 lbs.

Pump Weight—Fig. 2913-L

Tapped Liquid End 940 lbs.

Flanged Liquid End 1090 lbs.

Connections-Fig. 2913-M

Standard-3" NPT suction

2" NPT discharge

Optional-3"-600# ANSI suction

2"-1500# ANSI

discharge

Connections—Fig. 2913-L

Standard-4" NPT suction

2" NPT discharge

Optional-4"-600# ANSI suction

2"-600# discharge

Standard Materials for Liquid End Bodies

2913-MS	} Cast Alum. Bronze
2913-MM	
2913-I	

2913-MS	} Cast Alum. Bronze
2913-MM	
2913-I	

2913-1	Bronze
--------	--------

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

 MP NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT									
				100 RPM		200 RPM		300 RPM		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
2913-MS	1¼	2900	.0478	4.8	165	9.6	330	14.3	490	16.7	575	19.1	655
	1½	2470	.0688	6.9	235	13.8	475	20.6	705	24.1	825	27.5	945
	1¾	1815	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
2913-MM	1¾	1815	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2¼	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.2	1860	61.9	2125
	2½	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
	2½	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
 3-L	2¾	735	.2314	23.1	790	46.2	1585	69.4	2380	81.0	2775	92.5	3175
	3	620	.2754	27.5	945	55.1	1890	82.6	2835	96.4	3305	110.2	3775
	3¼	525	.3232	32.3	1110	64.6	2215	97.0	3325	113.1	3880	129.3	4430
	Brake Horsepower Required				10.9		21.9		32.9		38.4		43.9

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.

GASO 2800

SERIES 2800-3" STROKE TRIPLEX PLUNGER PUMPS

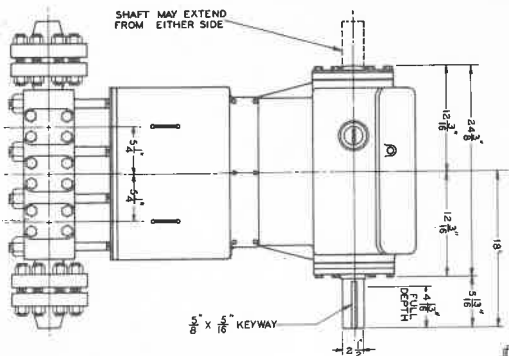


Fig. 2888-M

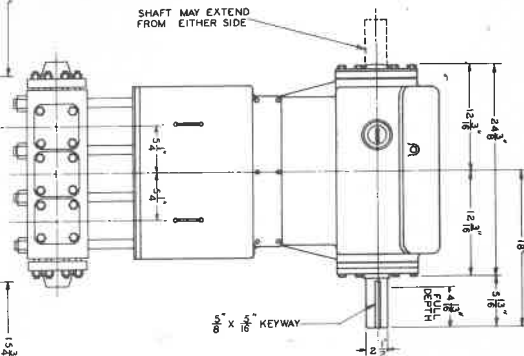


Fig. 2888-L

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT									
				100 RPM		200 RPM		300 RPM		350 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
2888-M	1 1/4	3300	.0478	4.8	165	9.6	330	14.3	490	16.7	575	19.1	655
	1 1/2	2470	.0688	6.9	235	13.8	475	20.6	705	24.1	825	27.5	945
	1 3/4	1815	.0937	9.4	320	18.7	640	28.1	965	32.8	1125	37.5	1285
	2	1390	.1224	12.2	420	24.5	840	36.7	1260	42.8	1465	49.0	1680
	2 1/4	1100	.1549	15.5	530	31.0	1060	46.5	1595	54.2	1860	61.9	2125
	2 1/2	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
2888-L	2 1/2	890	.1912	19.1	655	38.2	1310	57.4	1970	66.9	2295	76.5	2620
	2 3/4	735	.2314	23.1	790	46.2	1585	69.4	2380	81.0	2775	92.5	3175
	3	620	.2754	27.5	945	55.1	1890	82.6	2835	96.4	3305	110.2	3775
	3 1/4	525	.3232	32.3	1110	64.6	2215	97.0	3325	113.1	3880	129.3	4430
Brake Horsepower Required				10.9		21.9		32.9		38.4		43.9	

SPECIFICATIONS

No. of Plungers-3

Stroke Length-3"

Plunger Load-4370 lbs.

Crankshaft Pin Dia.-3.25"

Oil Capacity-2 U.S. gallons

Pump Weight-Fig. 2888-M 1340 lbs.
Fig. 2888-L 1490 lbs.

Connections-Fig. 2888-M

Standard-3"-600# ANSI suction
2"-1500# ANSI
discharge

Connections-Fig. 2888-L

Standard-4"-150# ANSI suction
2"-600# ANSI
discharge

Standard Materials for
Liquid End Bodies

2888-M } Steel Billet
2888-L }

GASO 3100

SERIES 3100-3½" STROKE TRIPLEX PLUNGER PUMPS

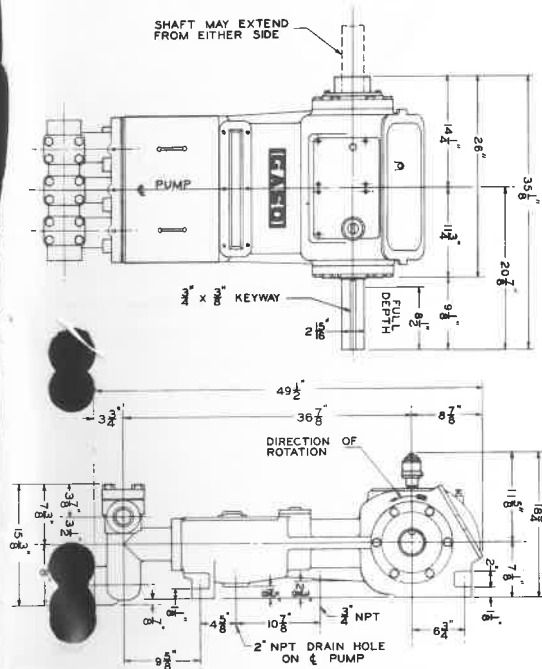


Fig. 3113-MS & MM

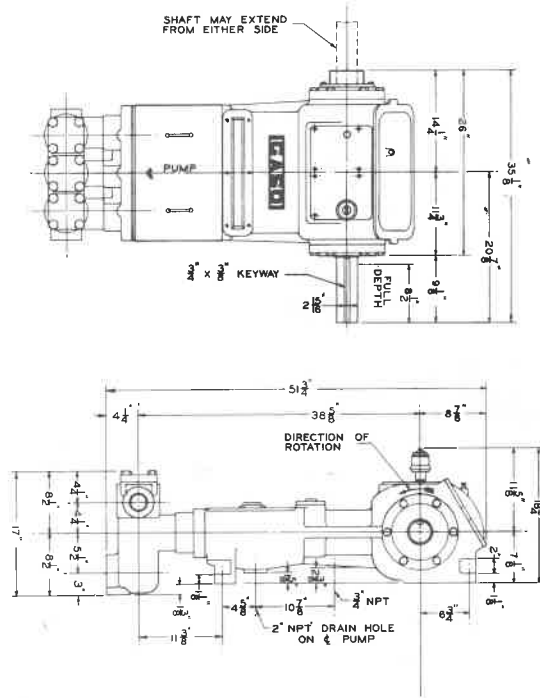


Fig. 3113-L

SPECIFICATIONS

No. of Plungers-3

Stroke Length-3½"

Plunger Load-5130 lbs.

Crankshaft Pin Dia.-3.5"

Oil Capacity-3¼ U.S. gallons

Pump Weight-Fig. 3113-M

Tapped Fluid End-950 lbs.

Flanged Fluid End-1100 lbs.

Pump Weight-Fig. 3113-L

Tapped Fluid End-1000 lbs.

Flanged Fluid End-1150 lbs.

Connections-Fig. 3113-M

Standard-3" NPT suction

2" NPT discharge

Optional-3"-600# ANSI suction

2"-1500# ANSI discharge

Connections-Fig. 3113-L

Standard-4" NPT suction

2" NPT discharge

Optional-4"-600# ANSI suction

2" 600# ANSI discharge

Standard Materials for
Liquid End Bodies

3113-MS } Cast Alum.
3113-MM }
3113-L } Bronze

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT											
				100 RPM		200 RPM		300 RPM		400 RPM		450 RPM		500 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3113-MS	1½	2900	.0803	8.0	275	16.1	550	24.1	825	32.1	1100	36.1	1240	40.2	1375
	1¾	2130	.1093	10.9	375	21.9	750	32.8	1125	43.7	1500	49.2	1685	54.7	1875
3113-MM	1¾	1815	.1093	10.9	375	21.9	750	43.7	1500	43.7	1500	49.2	1685	54.7	1875
	2	1635	.1428	14.3	490	28.6	980	42.8	1470	57.1	1960	64.3	2205	71.4	2450
	2¼	1290	.1807	18.1	620	36.1	1240	54.2	1860	72.3	2480	81.3	2785	90.4	3100
3113-L	2½	1045	.2231	22.3	765	44.6	1530	66.9	2295	89.2	3060	100.4	3440	111.6	3825
	2¾	865	.2700	27.0	925	54.0	1850	81.0	2775	108.0	3705	121.5	4165	135.0	4630
	3	725	.3213	32.1	1100	64.3	2205	96.4	3305	128.5	4405	144.6	4960	160.7	5510
	3¼	620	.3771	37.7	1295	75.4	2585	113.1	3880	150.8	5170	169.7	5820	188.6	6465
Brake Horsepower Required				15.0		30.0		45.0		60.0		70.0		75.0	

For Applications in areas having Shaded Numerals, Consult Factory.

Horsepower required based on 90%
Mechanical Efficiency.

Displacements indicated are based on 100%
Volumetric Efficiency.

GASO 3113-H & 3088

Fig. 3113-H & Series 3088-3½" STROKE TRIPLEX PLUNGER PUMPS

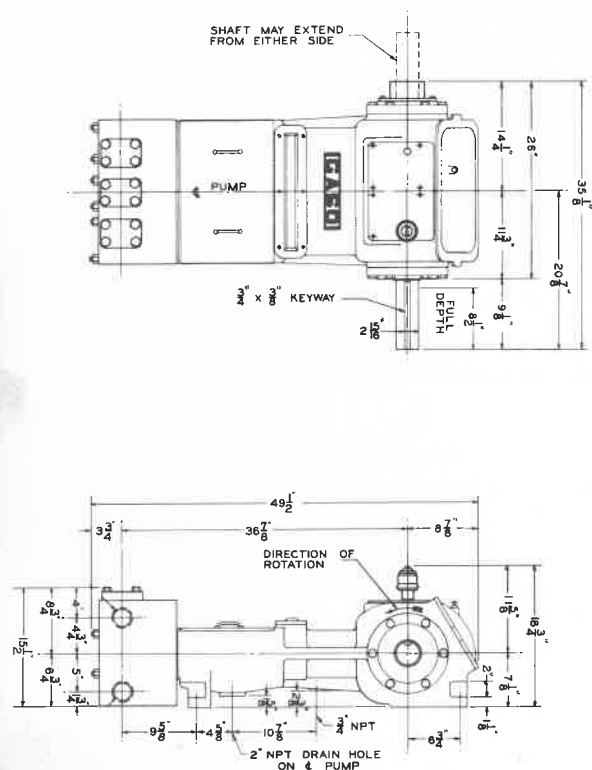


Fig. 3113-H

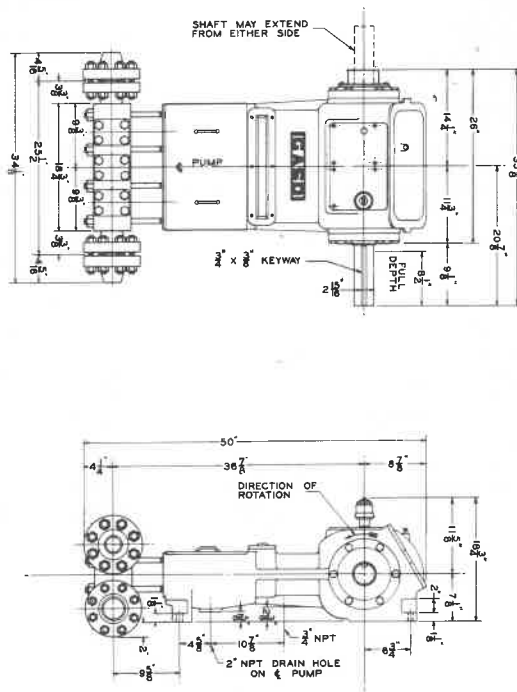


Fig. 3088

SPECIFICATIONS

- No. of Plungers-3
- Stroke Length-3½"
- Plunger Load-5130 lbs.
- Crankshaft Pin Dia.-3.5"
- Oil Capacity-¾ U.S. gallons
- Pump Weight-Fig. 3113-H
 - Tapped Fluid End-1475 lbs.
 - Flanged Fluid End-1670 lbs.
- Pump Weight-Fig. 3088-M-1475 lbs.
- Fig. 3088-L-1625 lbs.
- Connections-Fig. 3113-H
 - Standard-2" NPT suction
 - 2" NPT discharge
 - Optional-2"-1500# ANSI suction
 - 2"-1500# ANSI discharge
- Connections-Fig. 3088-M
 - Standard-3"-600# ANSI suction
 - 2"-1500# ANSI discharge
- Connections-Fig. 3088-L
 - Standard-4"-150# ANSI suction
 - 2"-600# ANSI discharge
- Standard Materials for Liquid End Bodies
 - 3113-HU } Steel Billet
 - 3088-M }
 - 3088-L }

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS. PSI	DISP. GAL. PER REV.	DISPLACEMENT											
				100 RPM		200 RPM		300 RPM		400 RPM		450 RPM		500 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3113-HU	1	4180	.0357	3.6	120	7.1	245	10.7	365	14.3	490	16.0	549	17.9	610
	1¼	4180	.0558	5.6	190	11.2	385	16.7	575	22.3	765	25.1	860	27.9	955
3088-M	1½	2900	.0803	8.0	275	16.1	550	24.1	825	32.1	1100	35.1	1205	40.2	1375
	1¾	2130	.1093	10.9	375	21.9	750	32.8	1125	43.7	1500	49.2	1685	54.7	1875
	2	1635	.1428	14.3	490	28.6	980	42.8	1470	57.1	1960	64.3	2205	71.4	2450
	2¼	1290	.1807	18.1	620	36.1	1240	54.2	1860	72.3	2480	81.3	2785	90.4	3100
3088-L	2½	1045	.2231	22.3	765	44.6	1530	66.9	2295	89.2	3060	100.4	3440	111.6	3825
	2¾	865	.2700	27.0	925	54.0	1850	81.0	2775	108.0	3705	121.5	4165	135.0	4630
	3	725	.3213	32.1	1100	64.3	2205	96.4	3305	128.5	4405	144.6	4960	160.7	5510
	3¼	620	.3771	37.7	1295	75.4	2585	113.1	3880	150.8	5170	169.7	5820	188.6	6465
Brake Horsepower Required				15.0		30.0		45.0		60.0		67.0		75.0	

For Applications in areas having Shaded Numerals, Consult Factory.

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.

GASO 3400

SERIES 3400-4" STROKE TRIPLEX PLUNGER PUMPS

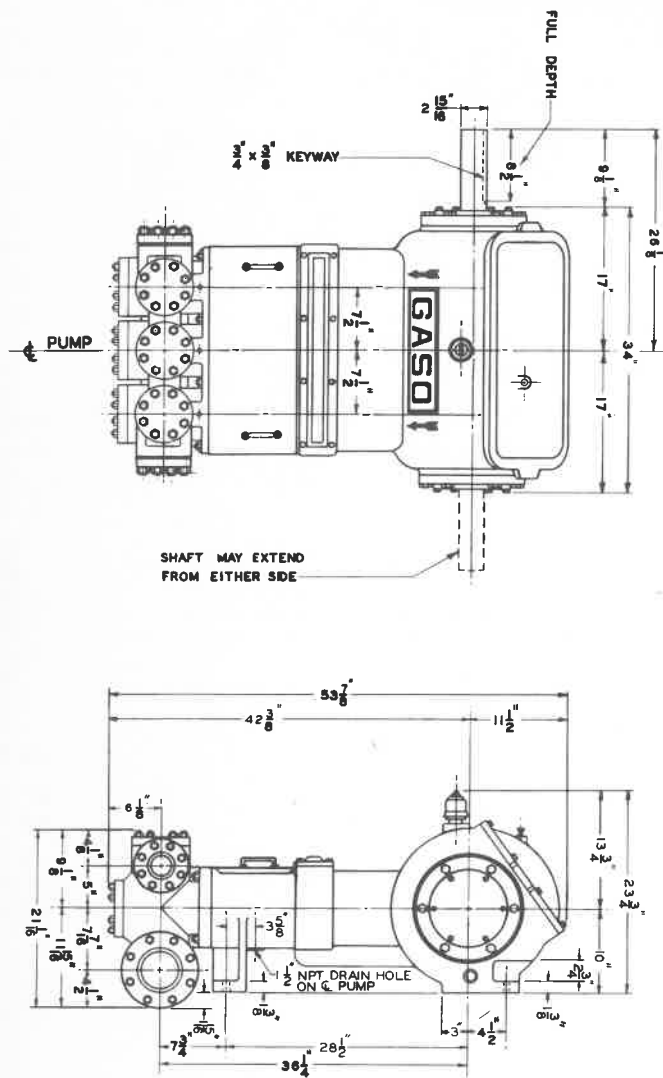


Fig. 3466

SPECIFICATIONS

No. of Plungers-3

Stroke Length-4"

Plunger Load-6800 lbs.

Crankshaft Pin Dia.-3.75"

Oil Capacity-8 U.S. gallons

Pump Weight-2150 lbs.

Connections-Fig. 3466

4"-150# ANSI

suction

2"-2000# API

discharge

Standard Materials for

Liquid End Bodies

3466-S } Cast Alum.

3466-L } Bronze

Fig. 3466
Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3466-S	2	2000	.1632	16.3	560	32.6	1120	49.0	1680	65.3	2240
	2¼	1710	.2065	20.7	710	41.3	1415	62.0	2125	82.6	2830
	2½	1385	.2550	25.5	875	51.0	1750	76.5	2625	102.0	3495
	2¾	1145	.3086	30.9	1060	61.7	2115	92.6	3175	123.4	4230
3466-L	3	960	.3672	36.7	1260	73.4	2515	110.2	3780	146.9	5035
	3¼	820	.4310	43.1	1480	86.2	2955	129.3	4435	172.4	5910
	3½	705	.4998	50.0	1715	100.0	3430	149.9	5140	199.9	6855
Brake Horsepower Required				22.7		45.4		68.1		90.8	

Horsepower required based on 90% Mechanical Efficiency.

Displacements indicated are based on 100% Volumetric Efficiency.

GASO 3800

SERIES 3800-4" STROKE TRIPLEX PLUNGER PUMPS

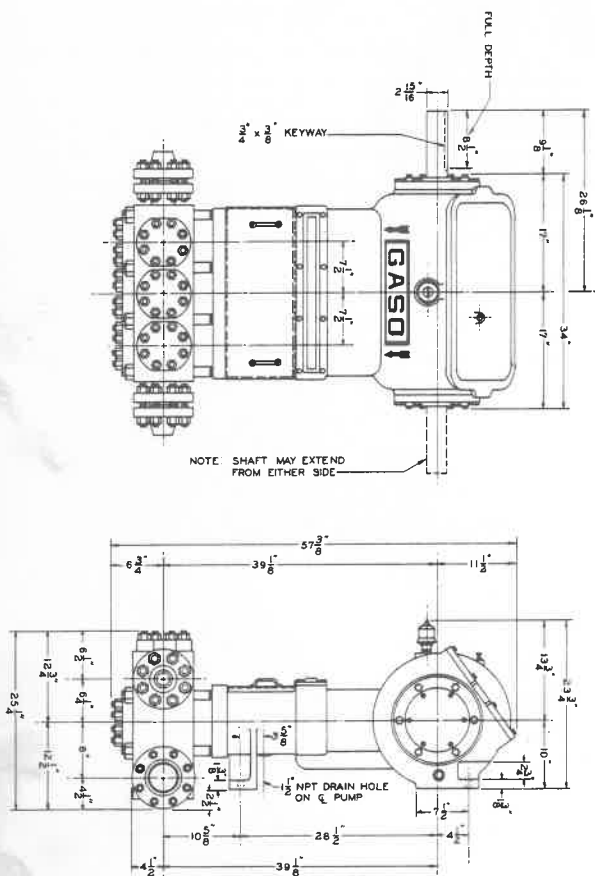


Fig. 3868

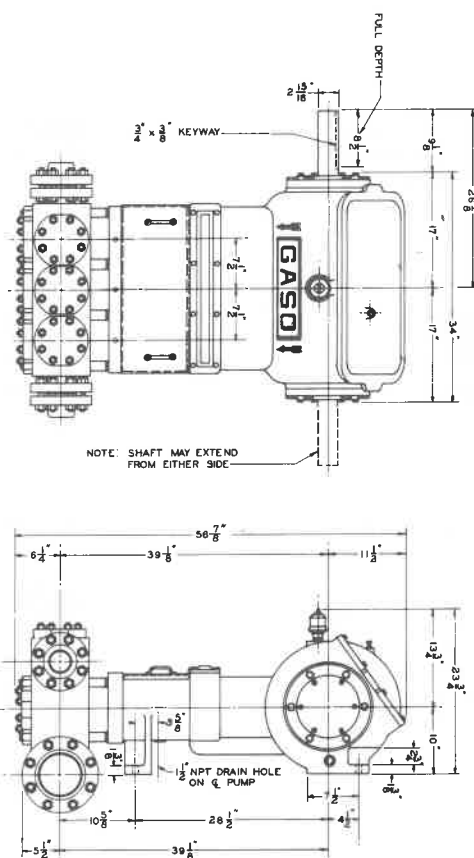


Fig. 3869

SPECIFICATIONS

No. of Plungers-3

Stroke Length-4"

Plunger Load-6800 lbs.

Crankshaft Pin Dia.-3.75"

Oil Capacity-8 U.S. gallons

Pump Weight-3250 lbs.

Connections-Fig. 3868

4"-150# ANSI suction

2"-1500# ANSI discharge

Connections-Fig. 3869

6"-150# ANSI suction

3"-600# ANSI discharge

Standard Materials for
Liquid End Bodies

3868 } Steel Billet
3869 }

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		400 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3868	2	2165	.1632	16.3	560	32.6	1120	49.0	1680	65.3	2240
	2 1/4	1710	.2065	20.7	710	41.3	1415	62.0	2125	82.6	2830
	2 1/2	1385	.2550	25.5	875	51.0	1750	76.5	2625	102.0	3495
	2 3/4	1145	.3085	30.9	1060	61.7	2115	92.6	3175	123.4	4230
	3	960	.3672	36.7	1260	73.4	2520	110.2	3775	146.9	5035
3869	3	960	.3672	36.7	1260	73.4	2520	110.2	3775	146.9	5035
	3 1/4	820	.4309	43.1	1475	86.2	2955	129.3	4430	172.4	5910
	3 1/2	705	.4998	50.0	1715	100.0	3425	149.9	5140	199.9	6855
	3 3/4	615	.5737	57.4	1965	114.7	3935	172.1	5900	229.5	7870
	4	540	.6528	65.3	2240	130.6	4475	195.8	6715	261.1	8955
Brake Horsepower Required				22.7		45.4		68.1		90.8	

Horsepower required based on 90%
Mechanical Efficiency.
Displacements indicated are based on 100%
Volumetric Efficiency.

GASO 3500

SERIES 3500-5" STROKE TRIPLEX PLUNGER PUMPS

SPECIFICATIONS

No. of Plungers-3

Stroke Length-5"

Plunger Load-7885 lbs.

Crankshaft Pin Dia.-4.5"

Oil Capacity-9 U.S. gallons

Pump Weight

Fig. 3581-3350 lbs.

Fig. 3582-3175 lbs.

Connections-Fig. 3581

4"-150# ANSI suction

2"-1500# ANSI discharge

Connections-Fig. 3582

6"-150# ANSI suction

3"-600# ANSI discharge

Standard Materials for
Liquid End Bodies

3581-S

3581-L } Cast Alum.

3582-S } Bronze

3582-L

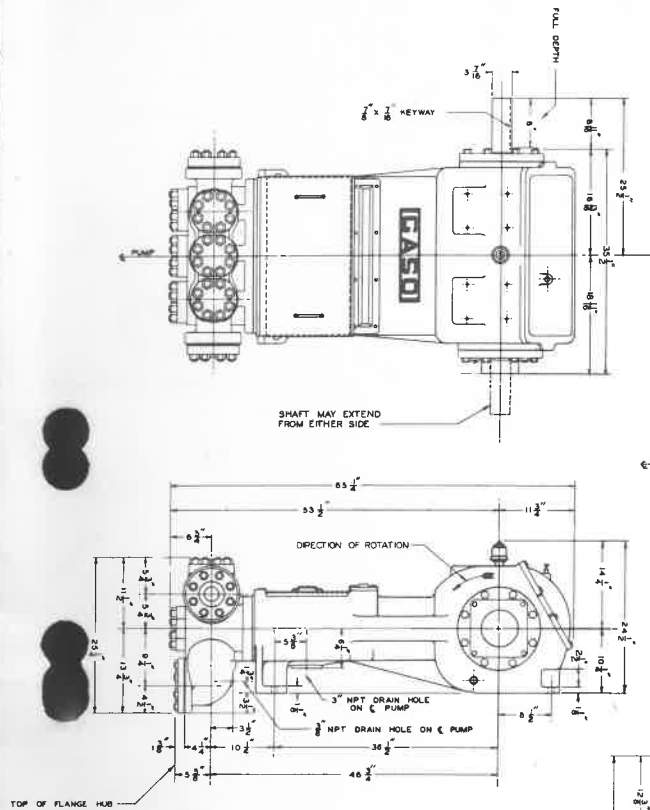


Fig. 3581

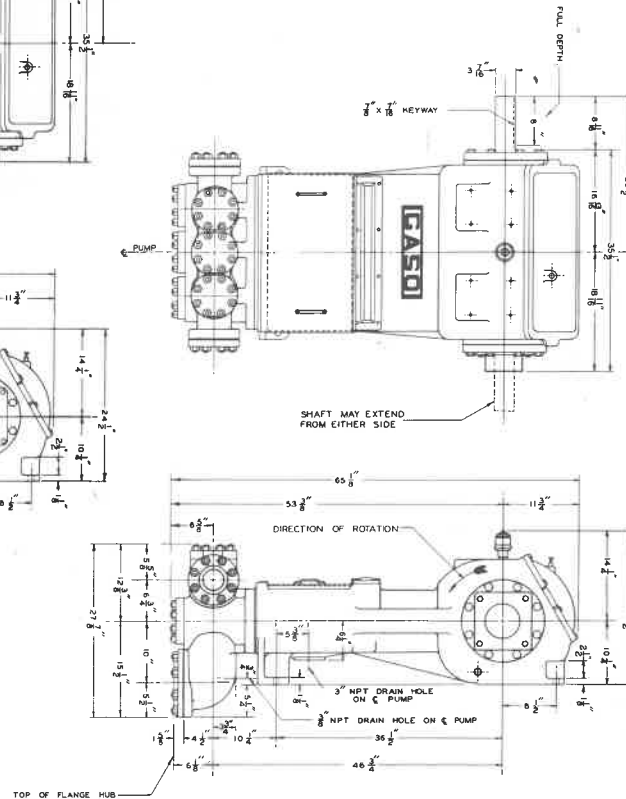


Fig. 3582

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		360 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3581-S	2	2510	.2040	20.4	700	40.8	1400	61.2	2100	73.4	2515
	2 1/4	1985	.2582	25.8	885	51.6	1770	77.5	2655	92.9	3185
3581-L	2 1/2	1605	.3188	31.9	1095	63.8	2185	95.6	3280	114.8	3935
	2 3/4	1325	.3857	38.6	1325	77.1	2645	115.7	3965	138.9	4760
	3	1115	.4590	45.9	1575	91.8	3145	137.7	4720	165.2	5665
3582-S	3	1115	.4590	45.9	1575	91.8	3145	137.7	4720	165.2	5665
	3 1/4	950	.5387	53.9	1850	107.7	3695	161.6	5540	193.9	6650
3582-L	3 1/2	820	.6247	62.5	2145	124.9	4280	187.4	6425	224.9	7710
	3 3/4	715	.7172	71.7	2460	143.4	4915	215.2	7380	258.2	8855
	4	630	.8160	81.6	2800	163.2	5595	244.8	8395	293.8	10075
Brake Horsepower Required				32.9		65.8		98.7		119.0	

Horsepower required based on 90%
Mechanical Efficiency.
Displacements indicated are based on 100%
Volumetric Efficiency.

GASO 3500

Fig. 3583-A-5" STROKE TRIPLEX PLUNGER PUMPS

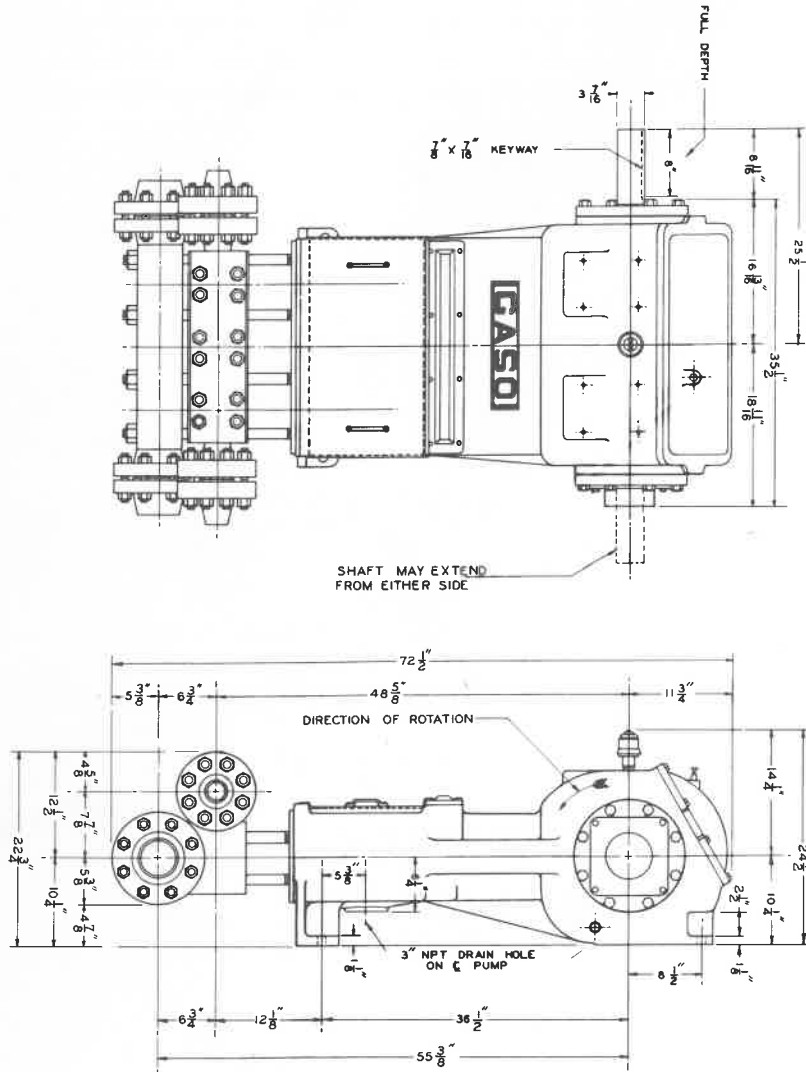


Fig. 3583-A

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		360 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3583-A	1 1/4	5000	.0797	8.0	275	15.9	545	23.9	820	28.7	985
	1 1/2	4450	.1147	11.5	395	22.9	785	34.4	1180	41.3	1415
	1 3/4	3275	.1562	15.6	535	31.2	1070	46.9	1610	56.2	1925
	2	2510	.2040	20.4	700	40.8	1400	61.2	2100	73.4	2515
Brake Horsepower Required				32.9		65.8		98.7		119.0	

SPECIFICATIONS

No. of Plungers-3

Stroke Length-5"

Plunger Load-7885 lbs.

Crankshaft Pin Dia.-4.5"

Oil Capacity-9 U.S. gallons

Pump Weight-3300 lbs.

Connections-

4"-600# ANSI suction

2"-2500# ANSI discharge

Standard Materials for

Liquid End Bodies

3583-A { Forged Steel
Forged Alum. Bronze

Horsepower required based on 90%
Mechanical Efficiency.
Displacements indicated are based on 100%
Volumetric Efficiency.

GASO 3900

SERIES 3900-5" STROKE TRIPLEX PLUNGER PUMPS

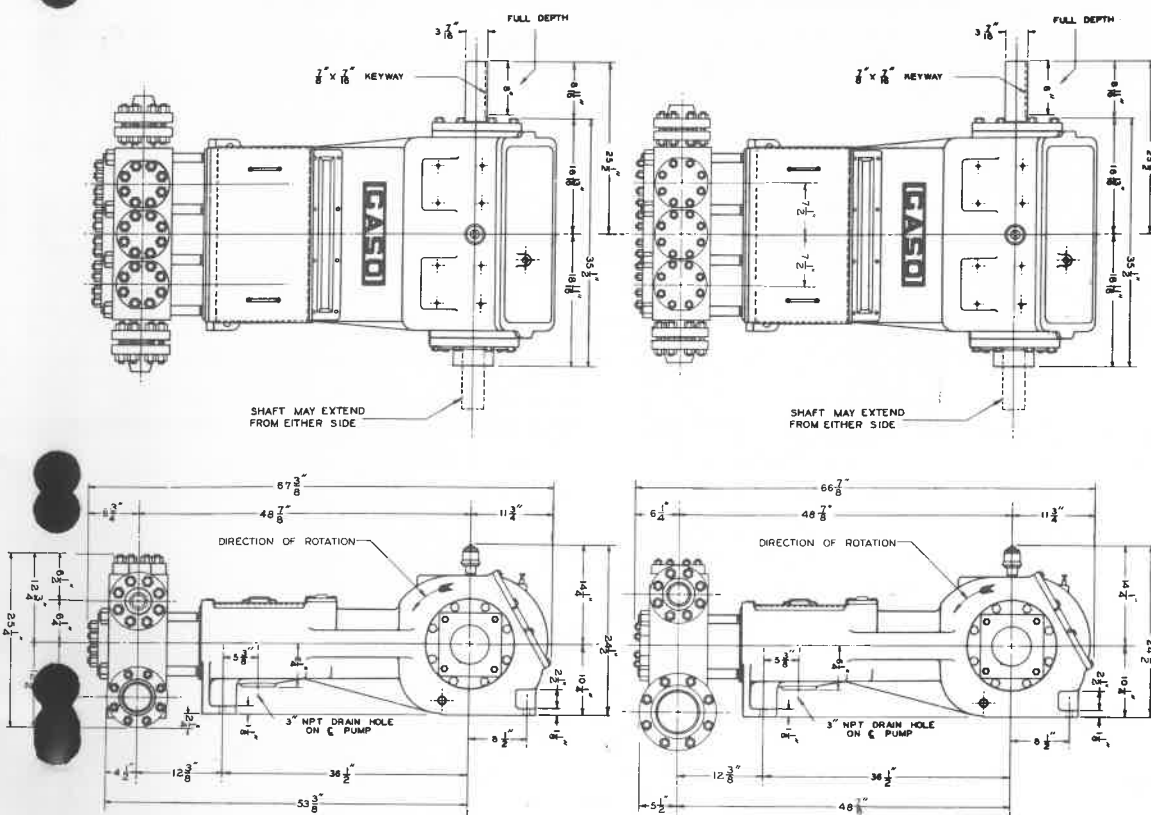


Fig. 3968

Fig. 3969

SPECIFICATIONS

No. of Plungers-3
 Stroke Length-5"
 Plunger Load-7885 lbs.
 Crankshaft Pin Dia.-4.5"
 Oil Capacity-9 U.S. gallons
 Pump Weight-4030 lbs.
 Connections-Fig. 3968
 4"-150# ANSI suction
 2"-1500# ANSI discharge
 Connections-Fig. 3969
 6"-150# ANSI suction
 3"-600# ANSI discharge
 Standard Materials for
 Liquid End Bodies
 3968 } Steel Billet
 3969 }

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		360 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3968	2	2510	.2040	20.4	700	40.8	1400	61.2	2100	73.4	2515
	2 1/4	1985	.2582	25.8	885	51.6	1770	77.5	2655	92.9	3185
	2 1/2	1605	.3188	31.9	1095	63.8	2185	95.6	3280	114.8	3935
	2 3/4	1325	.3857	38.6	1325	77.1	2645	115.7	3965	138.9	4760
	3	1115	.4590	45.9	1575	91.8	3145	137.7	4720	165.2	5665
3969	3	1115	.4590	45.9	1575	91.8	3145	137.7	4720	165.2	5665
	3 1/4	950	.5387	53.9	1850	107.7	3695	161.6	5540	193.9	6650
	3 1/2	820	.6247	62.5	2145	124.9	4280	187.4	6425	224.9	7710
	3 3/4	715	.7172	71.7	2460	143.4	4915	215.2	7380	258.2	8855
	4	630	.8160	81.6	2800	163.2	5595	244.8	8395	293.8	10075
Brake Horsepower Required				32.9		65.8		98.7		119.0	

Horsepower required based on 90%
 Mechanical Efficiency.
 Displacements indicated are based on 100%
 Volumetric Efficiency.

GASO 3700

SERIES 3700-5" STROKE TRIPLEX PLUNGER PUMPS

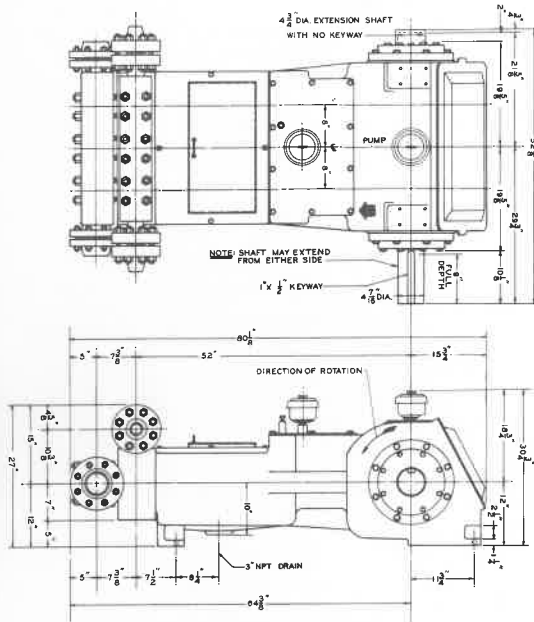


Fig. 3774

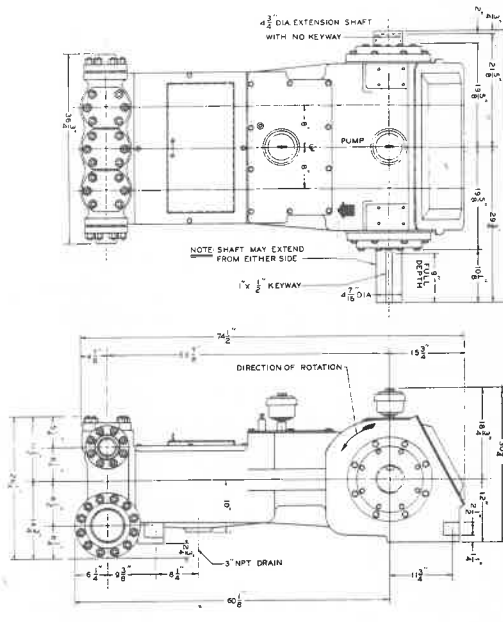


Fig. 3776

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

SPECIFICATIONS

No. of Plungers-3

Stroke Length-5"

Plunger Load-12,000 lbs.

Crankshaft Pin Dia.-5.5"

Oil Capacity-18 U.S. gallons

Pump Weight-5000 lbs.

Connections-Fig. 3774

4"-300# ANSI suction

2"-2500# ANSI discharge

Connections-Fig. 3775

6"-300# ANSI suction

3"-1500# ANSI discharge

Connections-Fig. 3776

6"-300# ANSI suction

3"-600# ANSI discharge

Liquid End Bodies

Standard Materials for

3774 { Forged Steel
Forged Alum. Bronze

3775 { Cast Alum. Bronze

3776 { Steel Billet

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		360 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3774	1 1/2	5000	.1147	11.5	395	22.9	785	34.4	1180	41.3	1415
	1 3/4	5000	.1562	15.6	535	31.2	1070	46.9	1610	56.2	1925
	2	3820	.2040	20.4	700	40.8	1400	61.2	2100	73.4	2515
	2 1/4	3020	.2582	25.8	885	51.6	1770	77.5	2655	92.9	3185
3775	2 1/4	3020	.2582	25.8	885	51.6	1770	77.5	2655	92.9	3185
	2 1/2	2445	.3188	31.9	1095	63.8	2185	95.6	3280	114.8	3935
	2 3/4	2020	.3857	38.6	1325	77.1	2645	115.7	3965	138.9	4760
	3	1700	.4590	45.9	1575	91.8	3145	137.7	4720	165.2	5665
	3 1/4	1445	.5387	53.9	1850	107.7	3695	161.6	5540	193.9	6650
3776	3 1/4	1445	.5387	53.9	1850	107.7	3695	161.6	5540	193.9	6650
	3 1/2	1250	.6247	62.5	2145	124.9	4280	187.4	6425	224.9	7710
	3 3/4	1090	.7172	71.7	2460	143.4	4915	215.2	7380	258.2	8855
	4	955	.8160	81.6	2800	163.2	5595	244.8	8395	293.8	10075
Brake Horsepower Required				49.9		100.1		150.4		180.0	

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.



Ratings published herein are intended to be used only for preliminary planning purposes, and as such, carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

GASO QUINTUPLEX PLUNGER PUMPS

POWER END SPECIFICATIONS

Power Frame. High strength Meehanite® GD-35 gray iron casting with heavy wall sections, well ribbed to insure rigid construction. Full opening plunger cradle cover for easy access to stuffing boxes and plungers.

Crankshaft. Mounted with center line of shaft on center line of crossheads. Series 5350 and 5698 pumps have left hand side crankshaft extension. Series 5800 pumps crankshaft may extend from either side.

Crankshaft Bearings. Series 5350 and 5698 pumps have a unique crankshaft bearing arrangement (patented): Right side bearing and center bearing are large, single row tapered roller bearings; left bearing is a high capacity, floating, double row spherical roller bearing. Series 5800 pumps have four main bearings on the crankshaft; large single row straight roller bearings on each side of center throw of shaft and double row spherical roller bearings on each end of shaft.

Connecting Rods. "H" type construction with renewable babbit lined steel backed shell bearings at the crank end, and bronze bushing at crosshead end.

Crossheads. Cylindrical-type high strength alloy iron castings. Crosshead pins are hardened and ground steel.

Lubrication. All power end parts are lubricated by splash system from oil in crankcase reservoir. Power frame has oil return channels from front of crossheads back to crankcase to permit constant circulation of oil and to help keep oil cool. Positive power end lubrication is optional.

Stuffing Boxes. Series 5350 and 5698 pumps are furnished with Double Lip "U" Cup packing. Series 5800 pumps are furnished with a set of four non-crushable lip-type packing rings. The Series 5800 stuffing boxes are replaceable type for replacing crosshead and connecting rod assembly through plunger cradle opening.

LIQUID END SPECIFICATIONS

Liquid End Body. Alloys which are stocked are steel for pumping petroleum products in hazardous locations and aluminum bronze alloys for saltwater and other corrosive liquids. Special alloys such as Hastelloy C, Carpenter #20, Inconel or Stainless Steel can be furnished upon request.

Valves. Pumps are furnished with stem guided disc-type valve assemblies. Stainless steel, monel or delrin disc-type valves with either stainless steel, monel or aluminum bronze seats are available.

Plungers. Plunger materials available are: Colmonoy surfaced steel, solid ceramic, and chrome plated steel. Other materials or surfacing available on request.

Stuffing Boxes. Series 5350 pumps have the boxes bored directly into the fluid body. Stuffing boxes for Series 5800 and 5698 pumps are replaceable type.

Packing. Standard packing is a set of non-crushable lip type packing rings. Other packing can be furnished for special applications.

Plunger Lubrication. Optional, depending on application. Furnished by use of drip oilers or a regulated flow of oil from a force feed lubricator. Lubricator is mounted on pump with separate oil lines to each plunger.

SERIES 5698-3½" STROKE QUINTUPLEX PLUNGER PUMPS

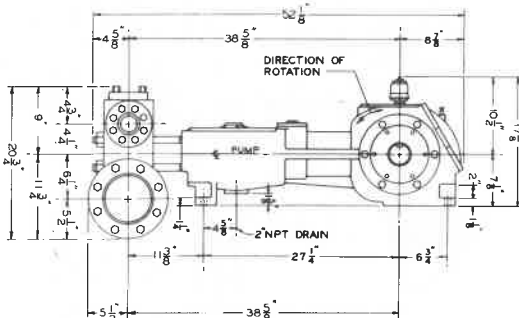
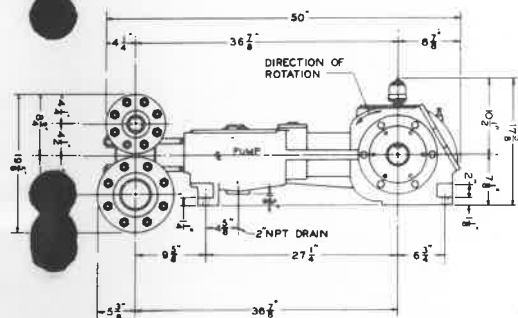
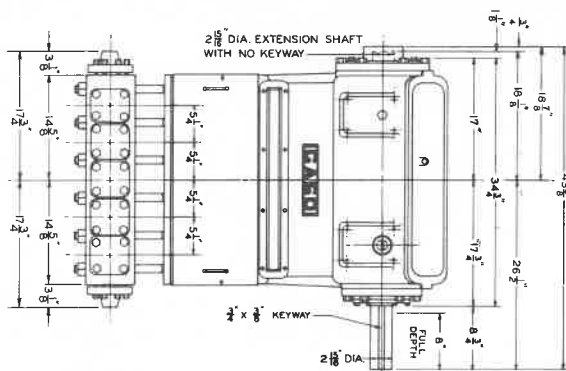
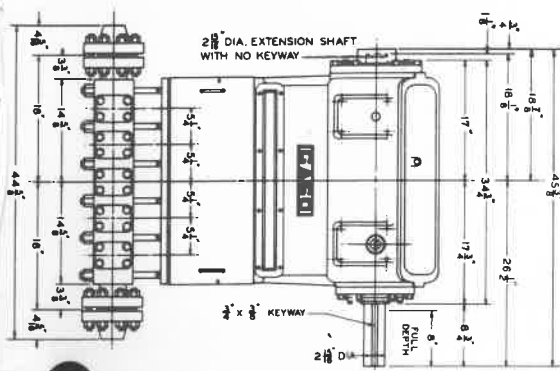


Fig. 5698-M

Fig. 5698-L

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT											
				100 RPM		200 RPM		300 RPM		400 RPM		450 RPM		500 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
5698-M	1½	2900	.1339	13.4	460	26.8	920	40.2	1375	53.6	1835	60.3	2065	67.0	2295
	1¾	2130	.1822	18.2	625	36.4	1250	54.7	1875	72.9	2500	81.9	2810	91.1	3125
	2	1635	.2380	23.8	815	47.6	1630	71.4	2450	95.2	3265	107.1	3670	119.0	4080
	2¼	1290	.3012	30.1	1030	60.2	2065	90.4	3100	120.5	4130	135.5	4645	150.6	5165
98-L	2½	1045	.3719	37.2	1275	74.4	2550	111.6	3825	148.8	5100	167.4	5740	186.0	6375
	2¾	865	.4500	45.0	1545	90.0	3085	135.0	4630	180.0	6170	202.5	6945	225.0	7715
	3	725	.5355	53.6	1835	107.1	3670	160.7	5510	214.2	7345	240.9	8260	267.8	9180
	3¼	620	.6285	62.9	2155	125.7	4310	188.6	6465	251.4	8620	282.8	9695	314.3	10775
Brake Horsepower Required				25.0		50.0		75.0		100.0		113.0		125.0	

SPECIFICATIONS

No. of Plungers-5

Stroke Length—3½"

Plunger Load-5130 lbs.

Crankshaft Pin Dia.—3.5"

Oil Capacity—5 U.S. gallons

Pump Weight

Fig. 5698-M-1600 lbs.

Fig. 5698-L-1850 lbs.

Connections—Fig. 5698-M

4"-600# ANSI suction

2"-1500# ANSI discharge

Connections—Fig. 5698-L

6"-150# ANSI suction

2"-600# ANSI discharge

Standard Materials for Liquid End Bodies

5698-M } Steel Billet
5698-L }

Horsepower required based on 90% Mechanical Efficiency.

Displacements indicated are based on 100% Volumetric Efficiency.

GASO 5800

SERIES 5800-5" STROKE QUINTUPLEX PLUNGER PUMPS

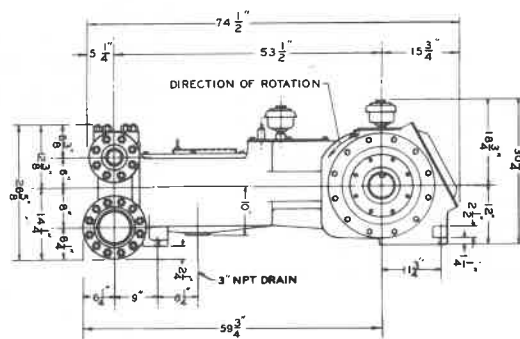
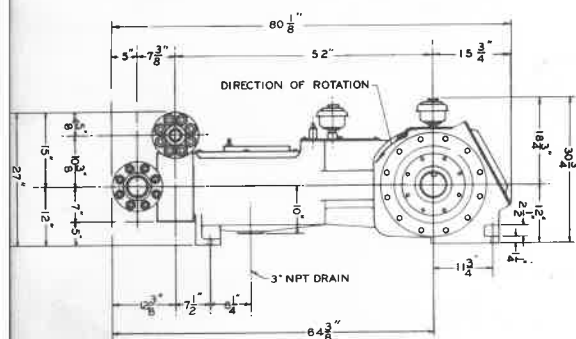
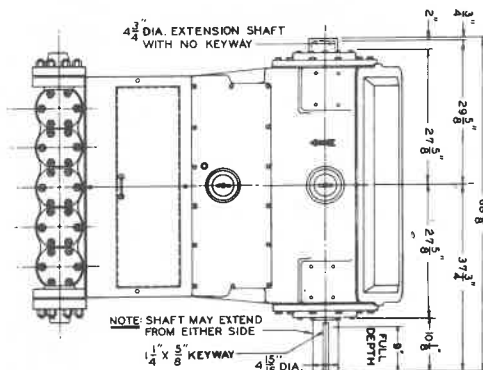
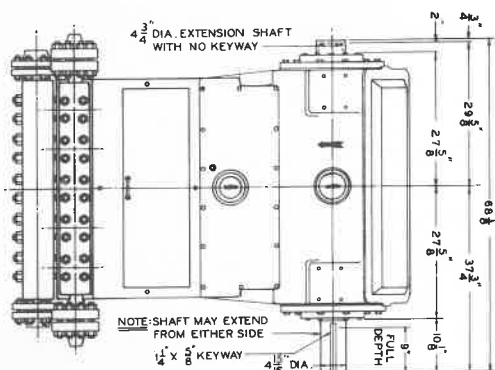


Fig. 5884

Fig. 5885

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS. PSI	DISP. GAL. PER REV.	DISPLACEMENT							
				100 RPM		200 RPM		300 RPM		360 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
5884	1½	5000	.1912	19.1	655	38.2	1310	57.4	1970	68.8	2360
	1¾	5000	.2603	26.0	890	52.1	1785	78.1	2680	93.7	3215
	2	3820	.3400	34.0	1165	68.0	2330	102.0	3495	122.4	4195
	2¼	3020	.4303	43.0	1475	86.1	2950	129.1	4425	154.9	5310
5885	2¼	3020	.4303	43.0	1475	86.1	2950	129.1	4425	154.9	5310
	2½	2445	.5313	53.1	1820	106.3	3645	159.4	5465	191.3	6560
	2¾	2020	.6429	64.3	2205	128.6	4410	192.9	6615	231.4	7935
	3	1700	.7650	76.5	2625	153.0	5245	229.5	7870	275.4	9440
	3¼	1445	.8978	89.8	3080	179.6	6160	269.3	9235	323.2	11080
5886	3¼	1445	.8978	89.8	3080	179.6	6160	269.3	9235	323.2	11080
	3½	1250	1.0412	104.1	3570	208.2	7140	312.4	10710	374.8	12850
	3¾	1090	1.1953	119.5	4095	239.1	8200	358.6	12295	430.3	14755
	4	955	1.3600	136.0	4665	272.0	9325	408.0	13990	489.6	16785
Brake Horsepower Required				83.8		166.8		250.1		300.0	

SPECIFICATIONS

No. of Plungers-5

Stroke Length-5"

Plunger Load—12,000 lbs.

Crankshaft Pin Dia.-5.5"

Oil Capacity—25 U.S. gallons

Pump Weight

Fig. 5800-9000 lbs.

Fig. 5800 with gear reducer—
11850 lbs.

Connections—Fig. 5884

4"-300# ANSI suction

2"-2500# ANSI discharge

Connections—Fig. 5885

6"-300# ANSI suction

3"-1500# ANSI discharge

Connections—Fig. 5886

8"-300# ANSI suction

4"-600# ANSI discharge

Optional

Internal Gear Reducer

Double Helical gears

Splash lubricated

Gear box mounts on pump sh

Minimum 2.0 service factor

Maximum input—1800 RPM

Oil capacity—15 U.S. gallons
Available ratios—2.78 to 7.36:1

Standard Materials for

Liquid End Bodies

5884 { Forged Steel
Forged Alum. Bronze

5885 | Steel Billet

5886 } Cast Alum. Bronze

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.

SERIES 5698-3½" STROKE QUINTUPLEX PLUNGER PUMPS

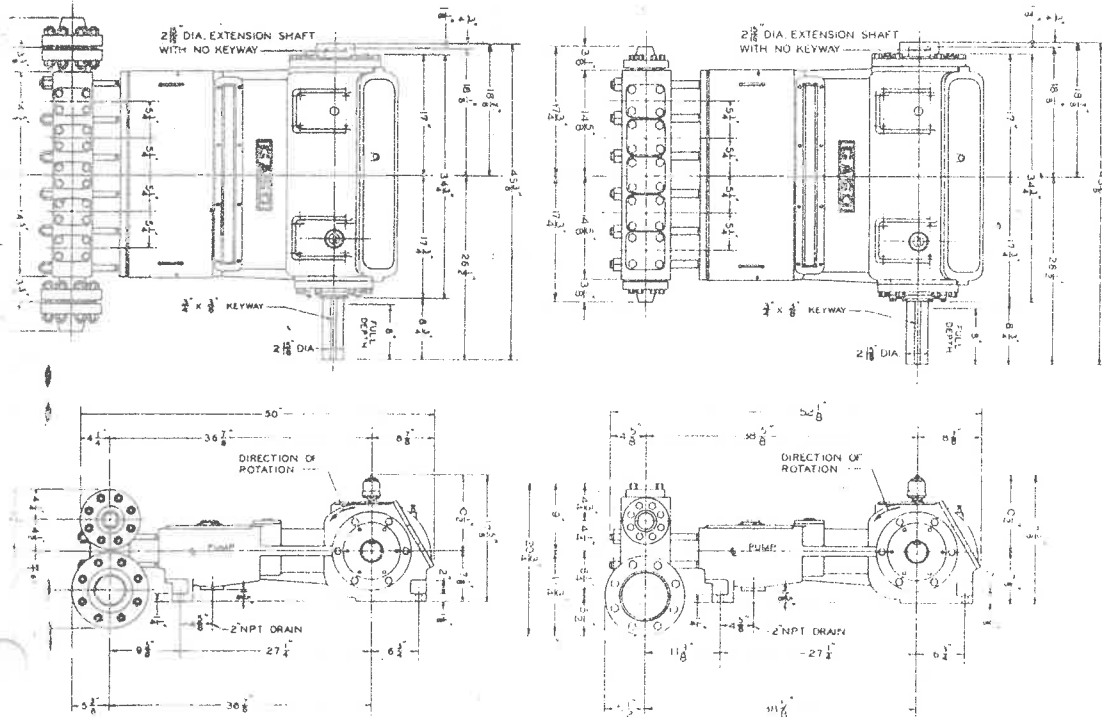


Fig. 569b M

Fig. 5b,c,d)

SPECIFICATIONS

No. of Plungers-5

Stroke Length-3½"

Plunger Load—5130 lbs.

Crankshaft Pin Dia.—3.5"

Oil Capacity-5 U.S. gallons

Pump Weight

Fig. 5698-M-1600 lbs.

Fig. 5698-L-1850 lbs.

Connections—Fig. 5698-M

4"-600# ANSI suction

2"-1500# ANSI discharge

Connections-Fig. 5698-L

6"-150# ANSI suction

2"-600# ANSI discharge

Standard Materials for Liquid End Bodies

5698-M

5698-L } Steel Billet

Ratings published below are intended to be used only for preliminary planning purposes, and as such no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PLGR. DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT											
				100 RPM		200 RPM		300 RPM		400 RPM		450 RPM		500 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
3698-M	1½	2900	.1339	13.4	460	26.8	920	40.2	1375	53.6	1835	60.3	2065	67.0	2295
	1¾	2130	.1822	18.2	625	36.4	1250	54.7	1875	72.9	2500	81.9	2810	91.1	3125
	2	1635	.2380	23.8	815	47.6	1630	71.4	2450	95.2	3265	107.1	3670	119.0	4080
	2¼	1290	.3012	30.1	1030	60.2	2065	90.4	3100	120.5	4130	135.5	4645	150.6	5165
98-L	2½	1045	.3719	37.2	1275	74.4	2550	111.6	3825	148.8	5100	167.4	5740	186.0	6375
	2¾	865	.4500	45.0	1545	90.0	3085	135.0	4620	180.0	6170	202.5	6945	225.0	7715
	3	725	.5355	53.6	1835	107.1	3670	160.7	5510	214.2	7345	240.9	8260	267.3	9180
	3¼	620	.6285	62.9	2155	125.7	4310	183.6	6465	251.4	8620	283.3	9995	314.3	10755
Brake Horsepower Required				25.0		50.0		75.0		100.0		113.0		125.0	

Horsepower required based on 90%
 Mechanical Efficiency.

Displacements indicated are based on Volumetric Efficiency.

SPECIFICATIONS:

of Plungers — 5

Stroke Length — $3\frac{1}{2}$ "

Plunger Load — 5130 lbs.

Pin Dia. — 3.5"

Capacity — 5 U.S. Gallons

Weight:

Model 5698-M — 1600 lbs.

Model 5698-L — 1850 lbs.

Connections:

Model 5698-M

4" — 600# ANSI suction

2" — 1500# ANSI discharge

Model 5698-L

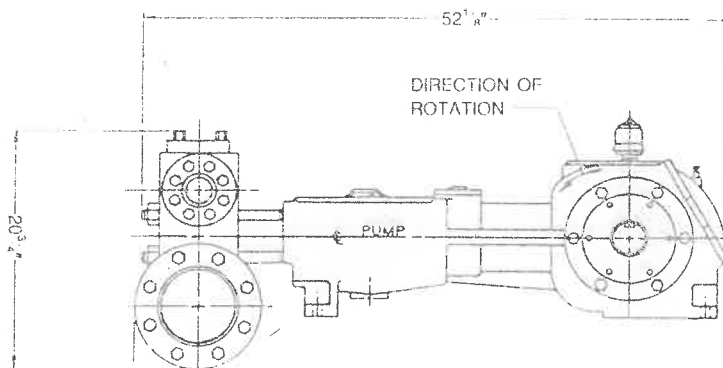
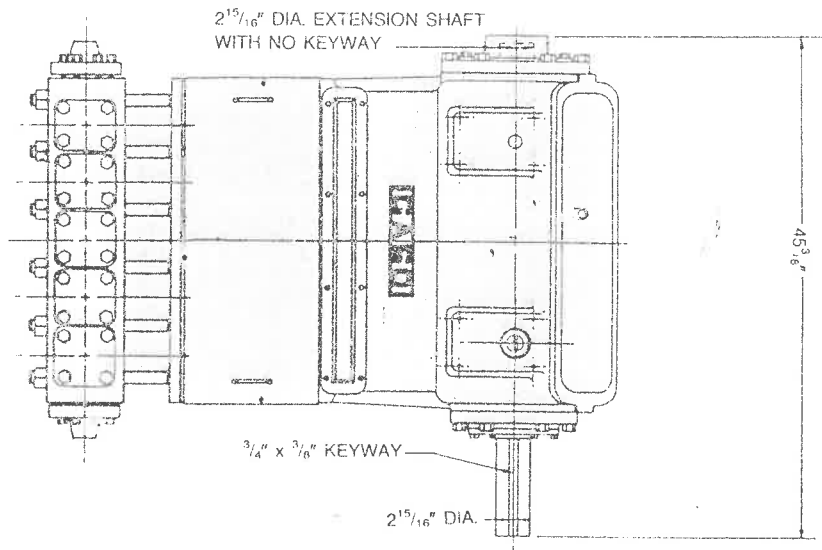
6" — 150# ANSI suction

2" — 600# ANSI discharge

Standard Materials for
End Bodies:

5698-M { Steel Billet
5698-L {

MODEL 5698 $3\frac{1}{2}$ " STROKE QUINTUPLEX PLUNGER PUMPS



PUMP MODEL	PLGR. DIA. IN.	MAX. PRESS. PSI	DISP. GAL. PER REV.	DISPLACEMENT											
				100 RPM		200 RPM		300 RPM		400 RPM		500 RPM		600 RPM	
				GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD	GPM	BPD
5698-M	1 1/2	2900	1339	13.4	460	26.8	920	40.2	1375	53.5	1835	60.3	2035	67.0	2295
	1 3/4	2130	1822	18.2	625	36.4	1250	54.7	1875	72.9	2500	81.9	2810	91.1	3125
	2	1635	2380	23.8	815	47.6	1630	71.4	2450	99.2	3285	107.1	3670	118.0	4080
	2 1/4	1290	3012	30.1	1030	60.2	2065	90.4	3100	120.5	4130	135.5	4645	150.6	5165
5698-L	2 1/2	1045	3719	37.2	1275	74.4	2550	111.5	3825	148.6	5100	167.4	5740	186.0	6375
	2 3/4	865	4500	45.0	1545	90.0	3085	135.0	4630	180.0	6170	202.5	6945	225.0	7715
	3	725	5355	53.6	1835	107.1	3670	160.7	5510	214.2	7345	240.9	8260	267.8	9180
	3 1/4	620	6285	62.9	2155	125.7	4310	188.6	6465	251.4	8620	282.8	9695	314.3	10775
Max. Brake Horsepower Required				25.3		50.5		75.8		101.0		113.7		126.3	

Horsepower required based on 90% Mechanical Efficiency.

Displacements indicated are based on 100% Volumetric Efficiency.

Available in 1/8" Plunger increments.



Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

GASO INTERNAL GEAR DRIVEN DUPLEX PISTON PUMPS

POWER END SPECIFICATIONS

Power Frame. High strength Meehanite® GD-35 gray iron casting with heavy wall sections, well ribbed to insure rigid construction and designed to fully enclose all working parts.

Gears. Continuous tooth Sykes herringbone construction. Main gear is heat treated high grade ductile iron. Pinion gear is cut from forged alloy steel and hardened.

Crankshaft. Heavy center section for mounting main gear. Large diameter crank pins.

Pinion Shaft. Alloy steel bar stock, machined and precision ground.

Bearings. Heavy duty tapered roller bearings on crankshaft. Self contained double row bearings on pinion shaft to permit free floating of shaft for self-centering of gears.

Connecting Rods. Heavy cross section castings with renewable babbitt lined steel shell bearings in crank end; bronze bushings in crosshead end.

Crossheads. Cylindrical-type high strength alloy castings. Crosshead pins are hardened and ground steel.

Lubrication. All power end parts, including gears, crossheads, connecting rod bearings, crankshaft bearings, and pinion shaft bearings, are lubricated by splash system from lubricant in crankcase reservoir.

Stuffing Boxes. All duplex pumps are furnished with replaceable type cast iron boxes.

Packing. Standard packing is a set of lip-type packing rings.

LIQUID END SPECIFICATIONS

Liquid End Body. Standard materials available from stock are ductile iron castings and cast steel. Fluid ends can be trimmed out for pumping various liquids.

Cylinder Heads. Heavy section steel bolt-on type.

Valve Covers. Heavy section steel bolt-on type.

Liners. All pumps are available with interchangeable type liners. Standard materials available are cast iron, file hard steel and special corrosion resistant liners.

Piston Rods. Various rod materials are available. These are: steel, stainless steel, file hard steel, and chrome plated steel.

Pistons. Cast iron bodies fitted with various types of rings are available. Slush service pistons can also be furnished.

Valves. Valves and seats are available as follows: Hardened and ground steel wing guided, bronze wing guided, steel or bronze insert type. Durable valves with bronze seats. MacClatchie and Mission can also be furnished.

Stuffing Boxes. All duplex pumps are furnished with replaceable type boxes which are available in cast iron, steel and aluminum bronze.

Packing. Standard packing is a set of lip type packing rings. Other packings can be furnished for special applications.

Stuffing Box Lubrication. Optional, depending on application. Furnished by use of a regulated flow of oil from a force feed lubricator mounted on pump, with a separate oil line to each stuffing box.

GASO 1847-A

FIGURE 1847-A-6" STROKE DUPLEX PISTON POWER PUMPS

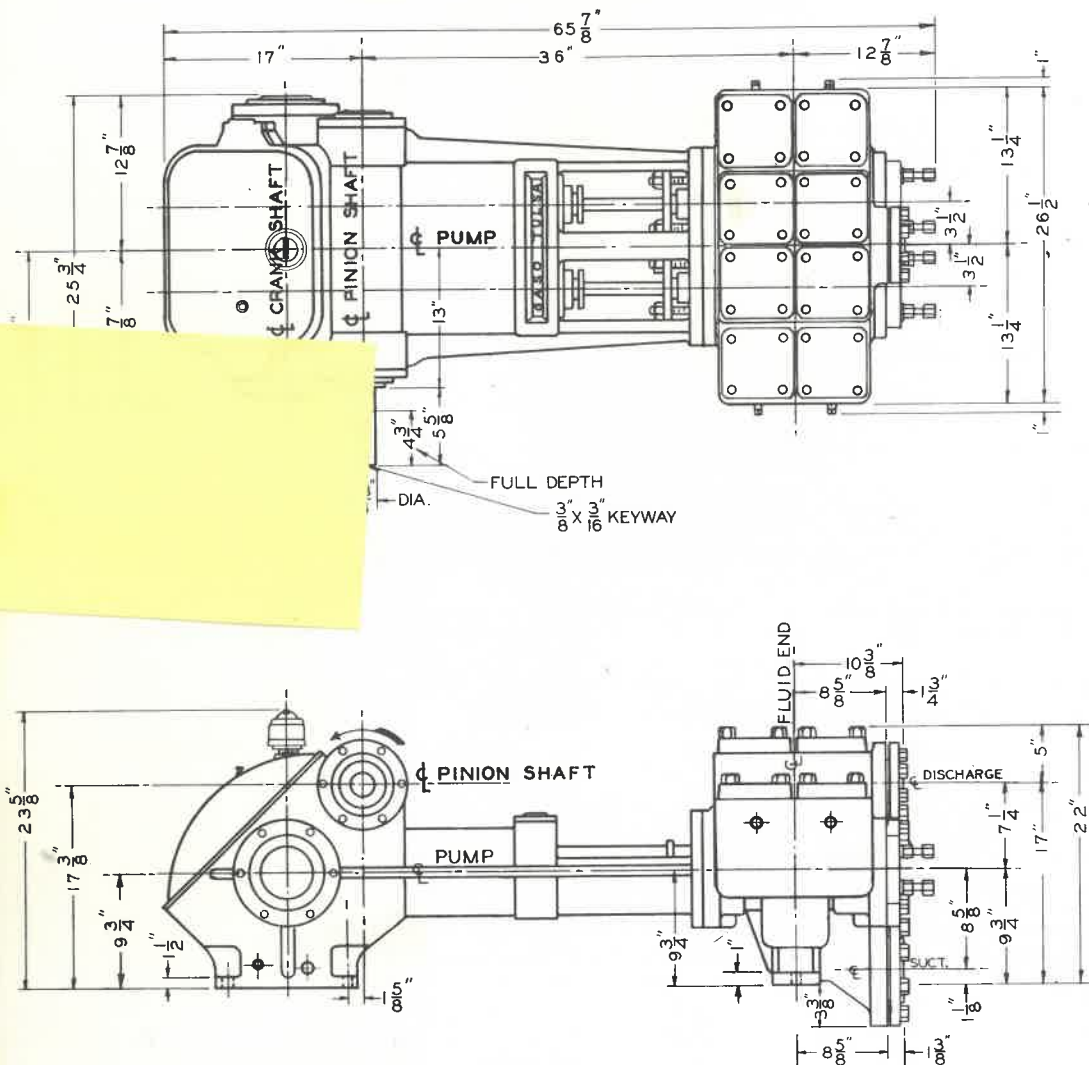


Fig. 1847-A

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PISTON DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT			
				‡70 RPM		‡90 RPM	
				GPM	BPD	GPM	BPD
1847-A	2½	990	.4599	32.2	1105	41.4	1420
	3	685	.6839	47.9	1640	61.6	2110
	3½	505	.9436	66.1	2265	84.9	2910
	4	385	1.2516	87.6	3005	112.6	3860
	4½	305	1.6002	112.0	3840	144.0	4940
*Brake Horsepower Required				22.1		28.3	

SPECIFICATIONS

No. of Pistons-2

Stroke Length-6"

Piston Rod Load—4850 lbs.

Gear Ratio—5.1 to 1

Crankshaft Pin Dia.-3.0"

Oil Capacity—5 U.S. gallons

Pump Weight—1960 lbs.

Connections

4"-150# ANSI suction

2"-600# ANSI discharge

Standard Materials for Liquid End Bodies

1847-A { Cast Ductile Iron
Cast Steel

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.
‡RPM shown is crank RPM. *Horsepower required is the input at the pump pinion shaft.

23

GASO 1700

SERIES 1700-10" STROKE DUPLEX PISTON POWER PUMPS

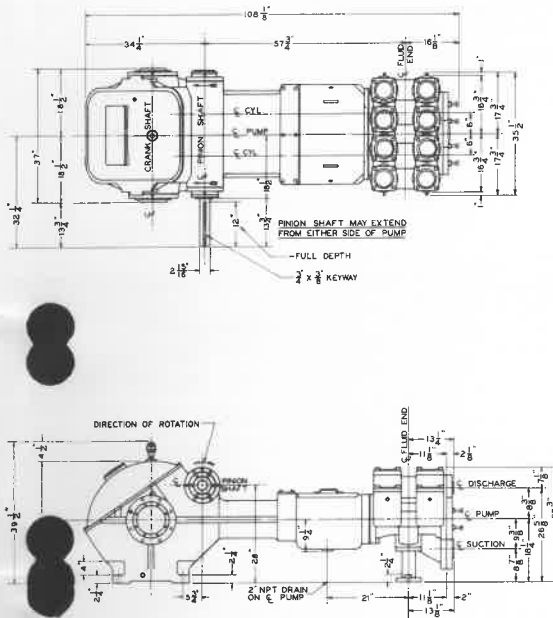


Fig. 1755

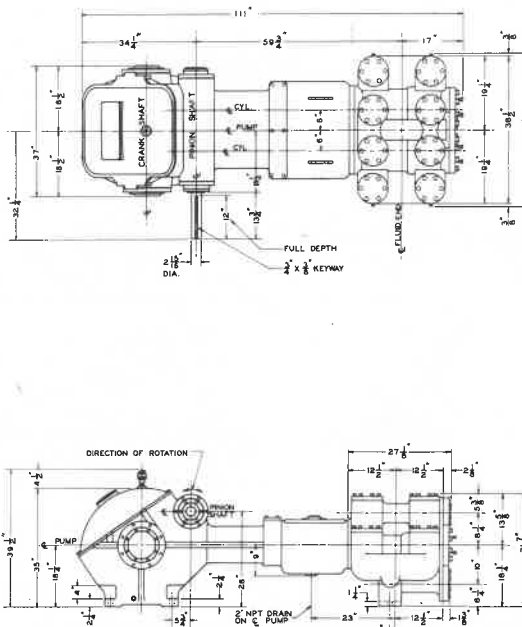


Fig. 1757

Drawings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

SPECIFICATIONS

No. of Pistons-2
Stroke Length-10"
Piston Rod Load-13,100 lbs.
Gear Ratio-5.846 to 1
Crankshaft Pin Dia.-4.75"
Oil Capacity-15 U.S. gallons
Pump Weight

Fig. 1757-6125 lbs.

Fig. 1755-6085 lbs.

Connections-Fig. 1755

4"-300# ANSI suction

3"-600# ANSI discharge

Connections-Fig. 1757

4"-150# ANSI suction

3"-600# ANSI discharge

Standard Materials for
Liquid End Bodies

1755-Cast Steel

1757-Cast Ductile Iron

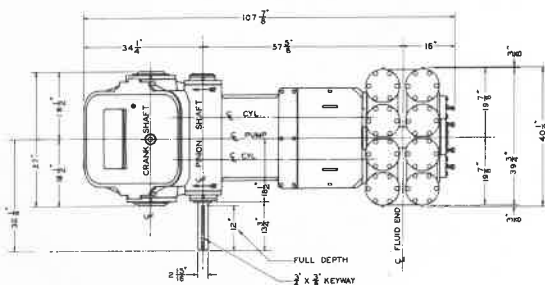
1742.

PUMP FIG. NO.	PISTON DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT			
				±54 RPM		±85 RPM	
				GPM	BPD	GPM	BPD
1755	2 1/2	1440	.6979	37.7	1290	59.3	2035
1757	3	1440	1.0703	57.8	1980	91.0	3120
	3 1/2	1360	1.5141	81.8	2805	128.7	4415
	4	1040	2.0223	109.2	3745	171.9	5895
	4 1/2	820	2.6019	140.5	4815	221.2	7585
	5	665	3.2459	175.3	6010	275.9	9460
	5 1/2	550	3.9620	213.9	7335	336.8	11545
*Brake Horsepower Required				75.6		121.0	

Horsepower required based on 90%
Mechanical Efficiency.
Displacements indicated are based on 100%
Volumetric Efficiency.
‡RPM shown is crank RPM. *Horsepower
required is the input at the pump pinion shaft.

GASO 1700

SERIES 1700-10" STROKE DUPLEX PISTON POWER PUMPS (Continued)



PINION SHAFT MAY EXTEND FROM EITHER SIDE OF PUMP

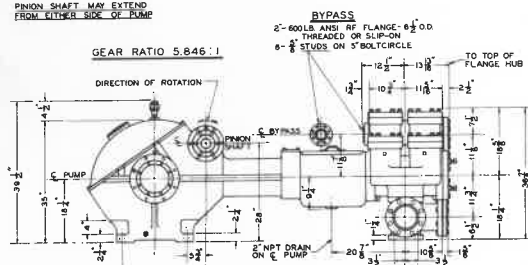


Fig. 1753

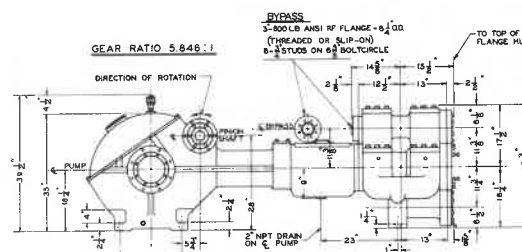
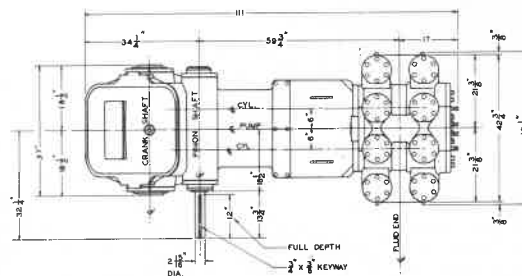


Fig. 1759

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PISTON DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT			
				±54 RPM		±85 RPM	
				GPM	BPD	GPM	BPD
1753	4	1040	2.0223	109.2	3745	171.9	5895
1759	4 1/2	820	2.6019	140.5	4815	221.2	7585
	5	665	3.2459	175.3	6010	275.9	9460
	5 1/2	550	3.9620	213.9	7335	336.8	11545
	6	460	4.7418	256.1	8780	403.1	13820
	6 1/2	395	5.5902	301.9	10350	475.2	16290
	7	340	6.5100	351.5	12055	553.4	18970
	7 1/2	295	7.4970	404.8	13880	637.2	21850
*Brake Horsepower Required				76.8		121.0	

SPECIFICATIONS

No. of Pistons-2

Stroke Length-10"

Piston Rod Load-13,100 lbs.

Gear Ratio-5.846 to 1

Crankshaft Pin Dia.-4.75"

Oil Capacity-15 U.S. gallons

Pump Weight

Fig. 1753-7180 lbs.

Fig. 1759-7012 lbs.

Connections-Fig. 1753

6"-150# ANSI suction

4"-600# ANSI discharge

2"-600# ANSI by-pass

Connections-Fig. 1759

6"-150# ANSI suction

4"-600# ANSI discharge

3"-600# ANSI by-pass

Standard Materials for
Liquid End Bodies

1753-Cast Steel

1759-Cast Ductile Iron

Horsepower required based on 90% Mechanical Efficiency. Displacements indicated are based on 100% Volumetric Efficiency. ‡RPM shown is crank RPM. *Horsepower required is the input at the pump pinion shaft.

SERIES 2600-12" STROKE DUPLEX PISTON POWER PUMPS

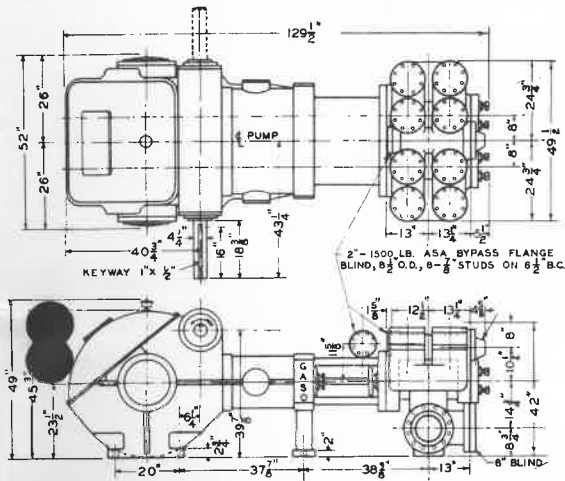


Fig. 2651

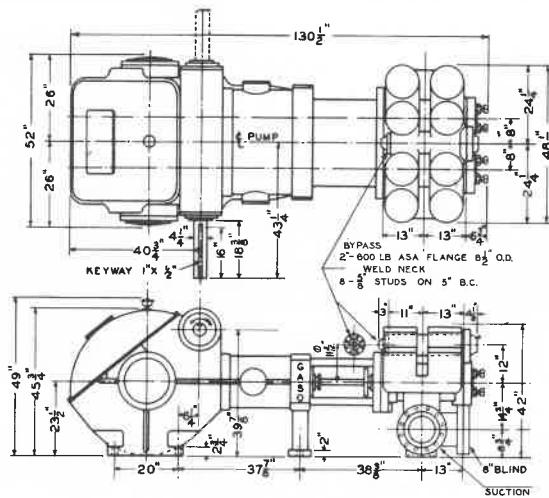


Fig. 2652

Ratings published below are intended to be used only for preliminary planning purposes, and as such carry no warranty whatsoever. All applications for Gaso pumps must be approved by Gaso in writing.

PUMP FIG. NO.	PISTON DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT			
				‡54 RPM		‡85 RPM	
				GPM	BPD	GPM	BPD
2651	4	1760	2.2862	123.5	4235	194.3	6665
	4½	1390	2.9778	160.8	5515	253.1	8680
	5	1125	3.7541	202.7	6950	319.1	10940
	5½	930	4.6102	249.0	8535	391.9	13435
*Brake Horsepower Required				148.9		234.3	

PUMP FIG. NO.	PISTON DIA. IN.	MAX. PRESS PSI	DISP. GAL. PER REV.	DISPLACEMENT			
				‡54 RPM		‡85 RPM	
				GPM	BPD	GPM	BPD
2652	4	1125	2.2862	123.5	4235	194.3	6665
	4½	1125	2.9778	160.8	5515	253.1	8680
	5	1125	3.7541	202.7	6950	319.1	10940
	5½	930	4.6102	249.0	8535	391.9	13435
	6	780	5.5503	299.7	10275	471.8	16175
	6½	665	6.5660	354.6	12155	558.1	19135
	7	575	7.6699	414.2	14200	651.9	22350
	7¼	535	8.2621	446.2	15295	702.3	24080
*Brake Horsepower Required				153.5		241.6	

SPECIFICATIONS

No. of Pistons-2

Stroke Length—12"

Piston Rod Load—22,100 lbs.

Gear Ratio—5.05 to 1

Crankshaft Pin Dia.—6.5"

Oil Capacity—25 U.S. gallons

Pump Weight

Fig. 2651-16,000 lbs.

Fig. 2652-15,500 lbs.

Connections—Fig. 2651

8"-300# ANSI suction

4"-900# ANSI discharge

2"-900# ANSI by-pass

Connections—Fig. 2652

8"-300# ANSI suction

4"-600# ANSI discharge

2"-600# ANSI by-pass

Standard Materials for Liquid End Bodies

2651 } Cast Steel
2652 }

Horsepower required based on 90% Mechanical Efficiency.
Displacements indicated are based on 100% Volumetric Efficiency.
‡RPM shown is crank RPM. *Horsepower required is the input at the pump pinion shaft.

GASO

Conversion Tables

TO CONVERT FROM	MULTIPLY BY	TO OBTAIN
Units Of Length		
Inch	2.540	Centimeter
Foot	0.3048	Meter
Mile	1.609	Kilometer
Units Of Area		
Square Inch	6.4516	Square Centimeter
Square Foot	0.0929	Square Meter
Square Mile	2.590	Square Kilometers
1 Acre	4047	Square Meter
Units Of Weight		
Ounce (AVDP)	28.35	Grams
Pound	453.6	Grams
U.S. Ton	907.2	Kilograms
Units Of Volume		
U.S. Gallon	3.78533	Liter
U.S. Gallon	0.003785	Cubic Meter
Cubic Foot	28.31702	Liters
Cubic Foot	0.028317	Cubic Meter
Units Of Flow		
U.S. Gal./Min. (USGPM)	0.2271	Cubic Meters/Hour
U.S. Gal./Min.	0.0631	Liters/Second
BBL (42 Gal.)/Day	0.00662	Cubic Meters/Hour
BBL (42 Gal.)/Day	0.00184	Liters/Second
Units Of Pressure		
LB./IN ² (PSI)	6.895	kPa
LB./IN ² (PSI)	0.070307	KG/CM ²
Atmospheres	1.0332	KG/CM ²
Atmospheres	14.696	LBS./IN ² (PSI)
Foot Water (20°C)	0.03048	KG/CM ²
Bar	1.0197	KG/CM ²
Bar	14.504	LBS./IN ² (PSI)
Units Of Power		
Horsepower (HP)	1.014	Metric Horsepower
HP	0.7457	Kilowatts (Kw)
Miscellaneous		
Degrees Celsius = 5/9(F° - 32°)		
Degrees Fahrenheit = 9/5C° + 32°		

INCHES DIAMETER TO FACE AREA

PLUNGER OR PISTON SIZE (INCHES DIAMETER)	PLUNGER OR PISTON FACE AREA (SQUARE INCHES)	PLUNGER OR PISTON SIZE (INCHES DIAMETER)	PLUNGER OR PISTON FACE AREA (SQUARE INCHES)
1/2	.20	3 1/4	8.30
5/8	.31	3 1/2	8.95
3/4	.44	3 3/4	9.62
7/8	.60	3 1/2	10.32
1	.79	3 3/4	11.05
1 1/8	.99	3 1/2	11.79
1 1/4	1.23	4	12.57
1 3/8	1.48	4 1/4	14.19
1 1/2	1.77	4 1/2	15.90
1 5/8	2.07	4 3/4	17.72
1 3/4	2.41	5	19.64
1 7/8	2.76	5 1/4	21.65
2	3.14	5 1/2	23.76
2 1/8	3.55	5 3/4	25.97
2 1/4	3.98	6	28.27
2 3/8	4.43	6 1/4	30.68
2 1/2	4.91	6 1/2	33.18
2 5/8	5.41	6 3/4	35.78
2 3/4	5.94	7	38.48
2 7/8	6.49	7 1/4	41.28
3	7.07	7 1/2	44.18
3 1/8	7.67	7 3/4	47.17

GASO® PIPE CLAMPS



A FAST, ECONOMICAL SOLUTION TO COSTLY PIPELINE LEAKS

Gasos pipe clamps are a fast, engineered solution to the problem of pipeline leaks. They may be installed while fluid is being pumped through the line under full pressure. Once the leak has been stopped the patch plate may be welded to the pipe and the clamp removed for use elsewhere.

STOCKED FOR 2" THROUGH 12" PIPE

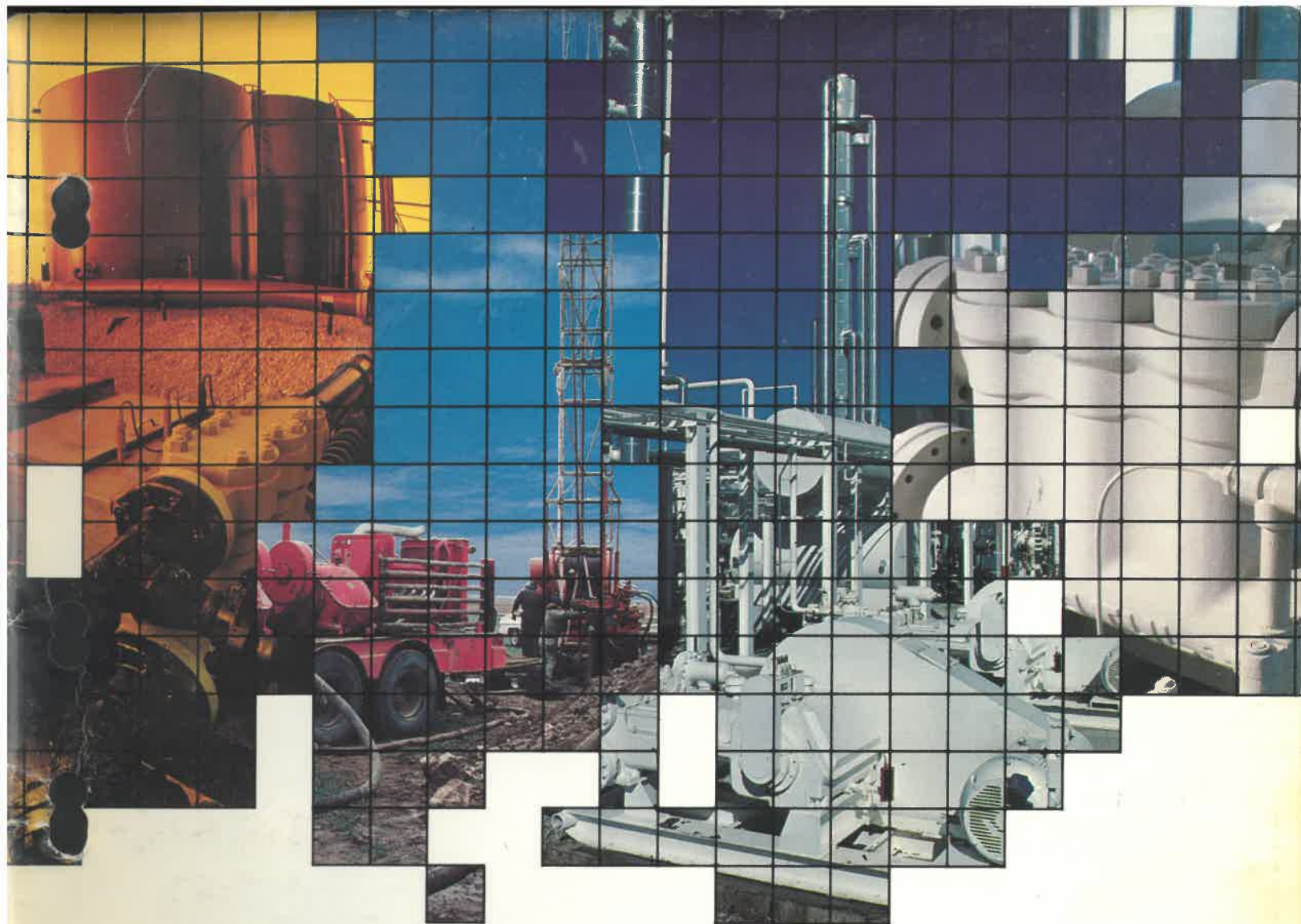
Clamp channels for 2" through 12" pipe are lightweight reinforced malleable iron castings. Larger sizes, available on special order up to 48", are fabricated from 3/8" to 1/2" thick sheet steel.

Patch plates are mild steel plate rolled to the proper diameter and cut into standard 14" lengths.

U-Bolts are made of top grade steel bar.

Gasket material is usually cut from sheets or strips furnished by the user.

Prices may be obtained directly from Gasos's Tulsa office or from any of Gasos's distributors.



A wide range of applications for Gaso Pumps.

Oil Field Production & Pipelines

When you need to move fluid at moderate pressure, you need Gaso piston and plunger pumps. Typical oil industry applications for Gaso pumps are:

- crude oil gathering systems
- salt water disposal
- enhanced oil recovery projects
- mainline transportation

Customers tell us Gaso manufactures the best-made pump on the market today. Engineered for long-life service, Gaso continuous duty pumps are conservatively rated. And that saves you time and money.

Well Servicing

You can depend on Gaso to meet well servicing fluid movement requirements on site. We have custom-trimmed piston and plunger pumps designed for the higher, intermittent pressures and lower volumes required. You will find a convenient Gaso stocking distributor to fill your parts and service requirements.

(see well servicing catalog)

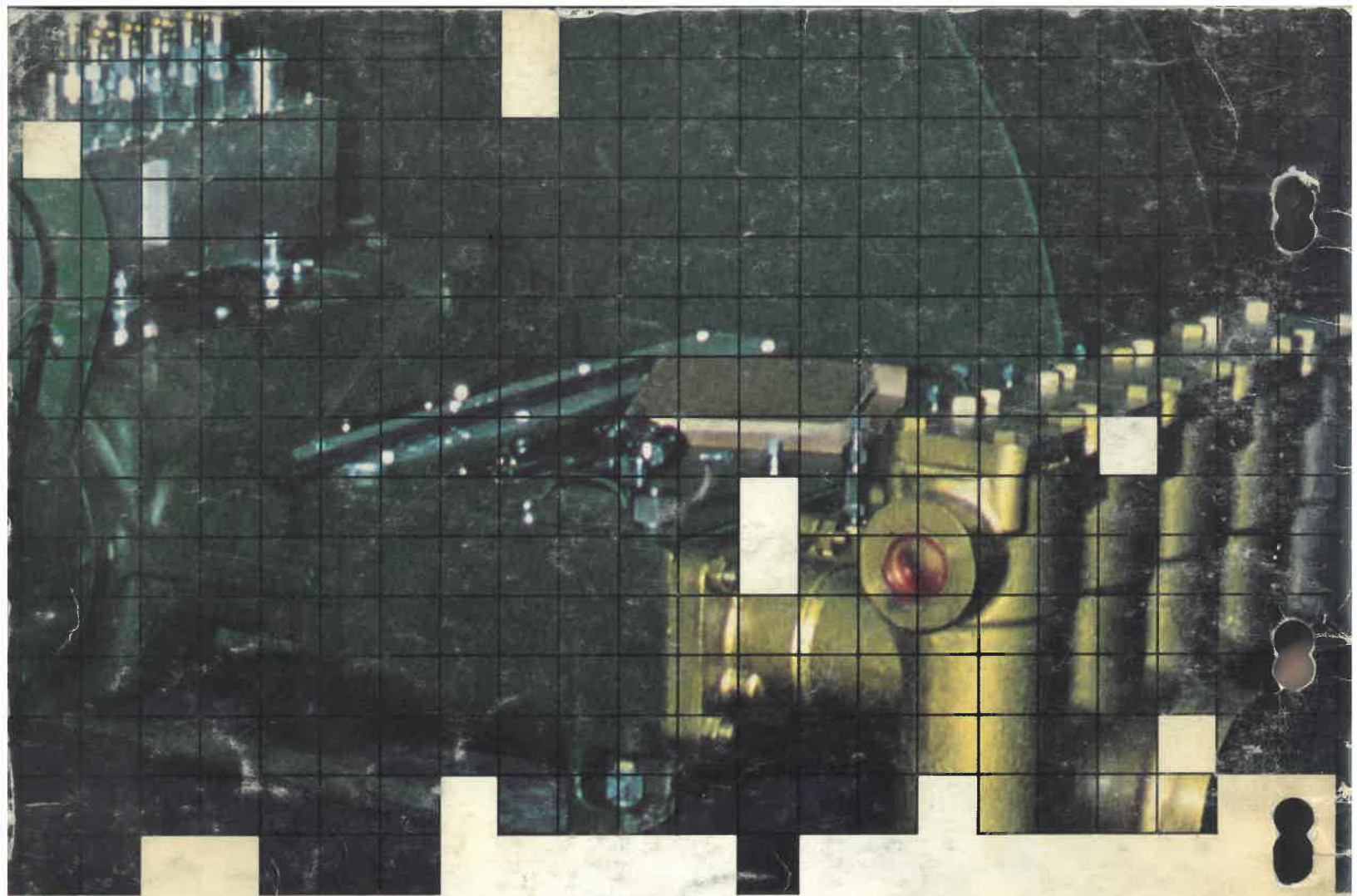
And many other applications

We're experts at moving fluids...and furnishing pumps to move fluids in a variety of applications:

- gas treating plants
- LPG and condensate transportation
- mine dewatering systems
- coal mine dust control
- drilling mud and slurry applications
- rig wash-down
- sewer jet cleaning
- high viscosity fluids of all kinds
- non-newtonian fluids

We're experts at moving fluids.

GASO



Gasco Worldwide Distributor Network. **For prompt access to parts and service**

Gasco Distributor

Gasco has established a solid, worldwide distributor network. From Tulsa, the city of our home office and plant, to all the major oil and industrial centers of the United States to foreign distributors, there is a conveniently located Gasco distributor that is highly sensitive to your unique pump needs. In other words, no matter where you are, you will find a Gasco distributor—virtually in your backyard—that can provide prompt and efficient access to parts and service. For more information, contact your area distributor, or our Tulsa office.

We're experts at moving fluids.

GASCO

Gasco Pumps, Inc., P.O. BOX 2069 Tulsa, OK Tel-(918) 446-4551 Telex-49-9444