



Gear Pumps and Motors



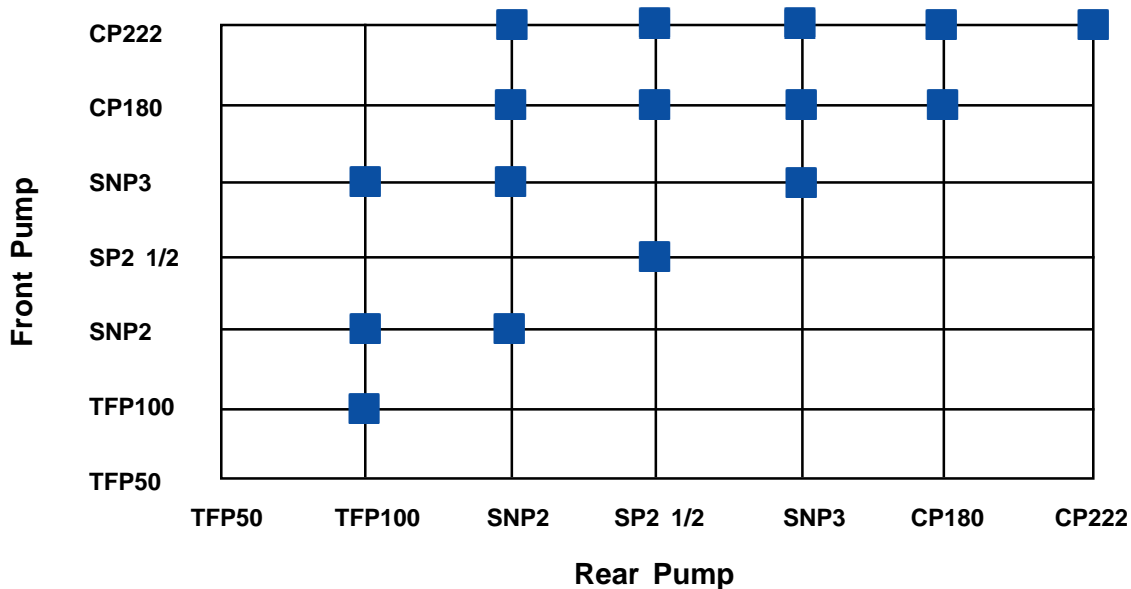
General Products

Catalog

Sauer-Sundstrand Gear Pump and Motor Features

- Worldwide sales and service capabilities from the industry leader is part of the package for every Sauer-Sundstrand gear product customer.
- Proven reliability with over 45 years of experience in gear product design for mobile and industrial applications.
- System pressures to 4000 psi (276 bar) and speeds to 10,000 rpm allow high performance in system design.
- Pressure balanced design for high efficiency and long life.
- Low cost design and manufacturing for the requirements of fixed displacement systems.
- Variety of flexible installation options available:
 - Convenient side or rear porting options
 - Auxiliary through drive SAE mounting pads
 - Integral relief valve, priority flow control, and priority flow divider covers
 - High temperature viton seals
 - Metric and European flanges, shafts and ports
 - Multiple pump configurations (refer to the Quick Reference chart below)

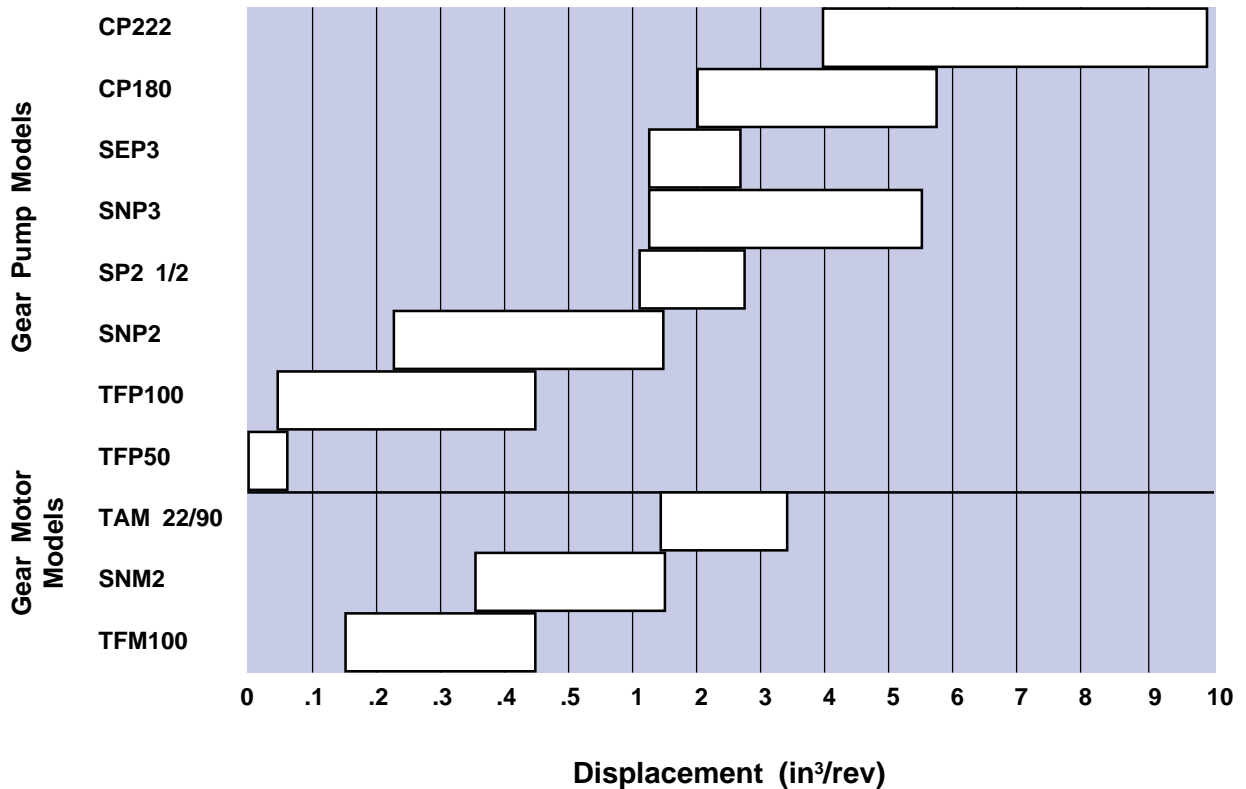
Quick Reference - Multiple Pump Configurations



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A Complete Family of Sauer-Sundstrand Gear Pumps and Motors

Quick Reference - Displacement/Model




General Gear Pump Product Specifications

Information in the following charts will help determine which Sauer-Sundstrand components are most appropriate for your application. To request more detailed specifications refer to the individual product bulletins listed on page 7.

<ul style="list-style-type: none"> • Special 2-bolt mounting flange • Tapered shaft • Metric threaded porting 					<p>TFP 50 Gear Pumps</p>	
Model	Displacement		Max. Pressure			Max. Speed
	in/rev.	cc/rev.	psi	bar		rpm
.25	.015	.25	2900	200		8000
.45	.026	.43	2900	200		8000
.57	.034	.55	2900	200		8000
.76	.045	.73	2900	200		7000
1.27	.074	1.22	2900	200	5000	

General Gear Pump Product Specifications


TFP 100 Gear Pumps



- SAE 2-bolt "AA" mounting flange
- SAE "AA" 9T spline and .50" straight key and tang drive shafts
- SAE straight thread "O" ring side ports

Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
1.2	.071	1.17	3000	210	5000
1.7	.096	1.57	3000	210	5000
2.2	.128	2.09	3000	210	5000
2.6	.158	2.60	3000	210	5000
3.2	.192	3.14	3000	210	5000
3.8	.223	3.66	3000	210	5000
4.3	.255	4.18	3000	210	3000
6.0	.366	6.00	2300	160	3000
7.8	.464	7.58	2000	140	3000


SNP2 Gear Pumps



- SAE 2-bolt "A" mounting flange
- SAE "A" 9T spline and .625" straight key shafts
- SAE straight thread "O" ring side ports

Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
4	.238	3.9	3600	250	4000
6	.366	6	3600	250	4000
8	.513	8.4	3600	250	4000
11	.659	10.8	3600	250	4000
14	.879	14.4	3600	250	3500
17	1.025	16.8	3600	250	3000
19	1.172	19.2	3000	210	3000
22	1.392	22.8	2600	180	3000
25	1.538	25.2	2300	160	3000

SP 2.5/250 Gear Pumps



- SAE "A" and "B" 2-bolt mounting flange
- SAE "A" 11T spline and .75" straight key and
- SAE "B" 13T spline and .875" straight key shafts
- SAE straight thread "O" ring side ports
- Optional priority flow divider cover

Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
20	1.22	20	3600	250	3000
22.4	1.37	22.4	3600	250	3000
25	1.53	25	3350	230	2800
28	1.71	28	3350	230	2800
31.5	1.92	31.5	3200	220	2800
35.5	2.17	35.5	2900	200	2700
40	2.44	40	2750	190	2500
45	2.75	45	2550	175	2500

General Gear Pump Product Specifications

- SAE 2-bolt "B" mounting flange
- SAE "B" 13T spline and .875" straight key shafts
- SAE 4-bolt split flange (code 61) and SAE "O" ring boss ports

Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
22	1.35	22.1	3600	250	3000
26	1.60	26.2	3600	250	3000
33	2.02	33.1	3600	250	3000
38	2.32	37.9	3600	250	3000
44	2.69	44.1	3600	250	3000
55	3.36	55.1	3300	230	2500
63	3.87	63.4	3000	210	2500
75	4.54	74.4	2600	180	2500
90	5.38	88.2	2200	150	2500

**SNP3
Gear Pumps**



Note: A lower cost model SEP3 is available for model sizes 22 thru 44. Contact Sauer-Sundstrand for more information.

- SAE "B" 2-bolt and 4-bolt mounting flange
- SAE "B" 13T spline and SAE "BB" 15T spline and 1" straight key shafts
- SAE 4-bolt split flange side (code 61) and SAE "O" ring boss, side and rear ports
- Optional priority flow divider cover, with relief valve

Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
023	2.24	36.65	3600	250	3200
026	2.54	41.60	3600	250	3200
030	2.92	47.77	3600	250	3200
035	3.40	55.70	3600	250	3200
040	3.88	63.63	3600	250	3200
045	4.37	71.58	3600	250	3200
050	4.85	79.53	3300	230	2750
055	5.36	87.83	3000	210	2500
060	5.84	95.70	2700	185	2500

CP 180 Gear Pumps



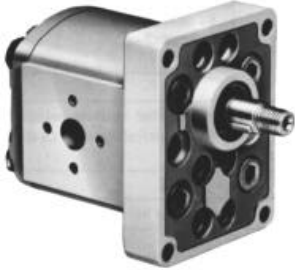
- SAE "C" 2-bolt and 4-bolt combination mounting flange
- SAE "C" 14T spline and 1.25" straight key shafts
- SAE 4-bolt split flange side ported (code 61)


Model	Displacement		Max. Pressure		Max. Speed
	in/rev.	cc/rev.	psi	bar	rpm
040	3.95	64.80	3600	250	3000
050	4.94	80.91	3600	250	3000
060	5.93	97.20	3600	250	2900
070	6.92	113.4	3600	250	2800
080	7.91	129.6	3600	250	2600
090	8.89	145.7	3300	230	2500
100	9.89	162.0	3000	210	2350


CP 222 Gear Pumps



General Gear Pump Product Specifications

<p>TFM 100 Gear Motors</p> 	<ul style="list-style-type: none"> • European 4-bolt mounting flange • Metric tapered shaft • European 4-bolt ports 					
	Model	Displacement		Max. Pressure		Max. Speed
		in ³ /rev.	cc/rev.	psi	bar	rpm
	2.6	.158	2.60	2900	200	3000
	3.2	.192	3.14	2900	200	3000
	3.8	.223	3.66	2900	200	3000
	4.3	.255	4.18	2900	200	3000
	6.0	.366	6.0	2300	160	3000
7.8	.464	7.6	2175	150	3000	

<p>SNM2 Gear Motors</p> 	<ul style="list-style-type: none"> • SAE "A" 2-bolt mounting flange • SAE "A" 9T spline and .625" straight key shafts • SAE straight thread "O" ring side ports 					
	Model	Displacement		Max. Pressure		Max. Speed
		in/rev.	cc/rev.	psi	bar	rpm
	6	.336	6	3600	250	4000
	8	.513	8.4	3600	250	4000
	11	.659	10.8	3600	250	4000
	14	.879	14.4	3600	250	4000
	17	1.025	16.8	3350	230	4000
	19	1.171	19.2	3050	210	3500
	22	1.391	22.8	2600	180	3500
25	1.538	25.2	2320	160	3500	

<p>TAM 22/90 Gear Motors</p> 	<ul style="list-style-type: none"> • SAE 2-bolt "B" mounting flange • SAE "B" 13T spline and .875" straight key shafts • SAE 4-bolt split flange (code 61) and SAE "O" ring boss ports 					
	Model	Displacement		Max. Pressure		Max. Speed
		in/rev.	cc/rev.	psi	bar	rpm
	22	1.34	22.1	3000	210	3000
	26.5	1.62	26.5	3000	210	3000
	33.5	2.04	33.5	3000	210	3000
	38	2.32	37.9	2750	190	3000
	44	2.69	44.1	2600	180	3000
	55	3.36	55.1	2470	170	3000

Sauer-Sundstrand Gear Pumps and Motors Technical Information

Series	Application	Bulletin Number	Available Date
TFP50	Pumps	BLN-10068	JUL 15
TFP100	Pumps	BLN-10069	JUN 15
TFM100	Motors	BLN-10070	AUG 1
SNP2	Pumps	BLN-10071	Available
SNM2	Motors	BLN-10072	Available
SP2.5/250	Pumps	BLN-10073	MAY 1
SEP3/SNP3	Pumps	BLN-10074	MAR 30
TAM2290	Motors	BLN-10075	JUN 30
*CP180	Pumps	BLN-10076	APR 15
*CP222	Pumps	BLN-10077	Available
PSP 180 and SP2/250	Flow Control/Steering Pumps	BLN-10078	JUN 1
SP	Engine Mount Pumps	BLN-10079	JUL 1
MM	Hydraulic Fan Drive	BLN-10080	APR 30
General Products	Technical Catalog	BLN-9831, Rev. G	Available
General Products	Flyer Catalog	BLN-10067, Rev. C	Available

***NOTE: These catalogs will replace BLN-9983. The "CP" Series Assembly manual is BLN-9964.**

Customer Service

For further assistance in determining your systems requirements, contact:

SAUER-SUNDSTRAND COMPANY
 Customer Service Department
 2800 East 13th Street
 Ames, IA 50010
 Phone: (515) 239-6598
 Telefax: (515) 239-6419

Your Authorized Sauer-Sundstrand Distributor is:

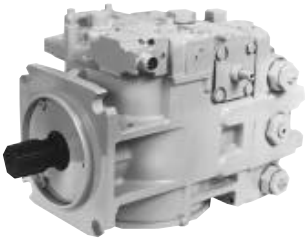



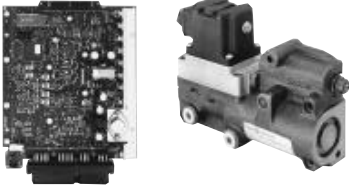
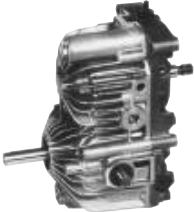

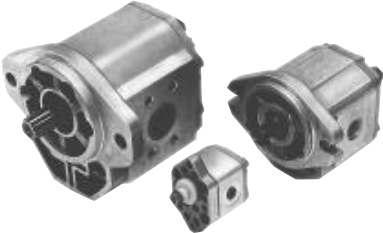

Hydraulic Power Systems

SAUER-SUNDSTRAND Hydraulic Power Systems - Market Leaders Worldwide

SAUER-SUNDSTRAND is a world leader in the design and manufacture of Hydraulic Power Systems. Research and development resources in both North America and Europe enable SAUER-SUNDSTRAND to offer a wide range of design solutions utilizing hydraulic power system technology.

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 <p>Medium Duty Axial Piston Pumps and Motors</p>	 <p>Microcontrollers and Electrohydraulic Controls</p>	 <p>Hydrostatic Transmission Packages</p>
 <p>Open Circuit Axial Piston Pumps</p>	 <p>Gear Pumps and Motors</p>	 <p>Genuine Service Parts</p>

Worldwide Service Support

SAUER-SUNDSTRAND provides comprehensive worldwide service for its products through an extensive network of Authorized Service Centers strategically located in all parts of the world.

Look to SAUER-SUNDSTRAND for the best in WORLDWIDE SERVICE.

