

Products Range

Detailed Release

Overview



深圳市亨力液压科技有限公司
SHENZHEN HENGLI HYDRAULIC TECHNOLOGY CO., LTD

E0.000.0226.15.00IM09



亨 力 液 压

<https://www.szhlyy.com>







GENERAL FEATURES

- high volumetric efficiency achieved by floating bushings and axial compensation;
- 12 teeth integral shaft: one piece, solid gear;
- modular construction.

1.5PE

- single shaft seal;
- rear covers with built-in valves;
- flanges: European, SAE AA;
- ports: European, German and American standards;
- shafts: European and American standards;
- compact design for double and multiple pumps.



TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
1.5PE - 1.4	1.4	0.09	250	3625	270	3915	290	4205	700	5000
1.5PE - 2.1	2.1	0.13	250	3625	270	3915	290	4205	700	5000
1.5PE - 2.8	2.8	0.17	250	3625	270	3915	290	4205	700	4500
1.5PE - 3.5	3.5	0.21	250	3625	270	3915	290	4205	700	4500
1.5PE - 4.1	4.1	0.25	250	3625	270	3915	290	4205	700	4000
1.5PE - 5.2	5.2	0.32	230	3335	250	3625	270	3915	700	4000
1.5PE - 6.2	6.2	0.38	230	3335	250	3625	270	3915	600	3600
1.5PE - 7.6	7.6	0.46	200	2900	220	3190	250	3625	600	3300
1.5PE - 9.3	9.3	0.57	180	2610	200	2900	240	3480	600	3000
1.5PE - 11	11	0.67	170	2465	190	2755	220	3190	600	3000

2PE

- double shaft seal;
- outrigger bearing for radial and axial loads;
- extensive range of rear covers with built-in valves;
- compact design for double and multiple pumps;
- flanges: European, German, SAE A, SAE B, 4 Bolts;
- ports: European, German and American standards;
- shafts: European and American standards.



TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
2PE - 3.2*	3.3	0.20	250	3625	280	4060	300	4350	600	4000
2PE - 3.9*	3.9	0.24	250	3625	280	4060	300	4350	600	4000
2PE - 4.5	4.6	0.27	250	3625	280	4060	300	4350	600	4000
2PE - 6.5	6.5	0.40	250	3625	280	4060	300	4350	600	4000
2PE - 8.3	8.3	0.51	250	3625	280	4060	300	4350	500	3500
2PE - 10.5	10.6	0.65	250	3625	280	4060	300	4350	500	3500
2PE - 11.3	11.5	0.68	250	3625	280	4060	300	4350	500	3500
2PE - 12.5	12.8	0.78	250	3625	280	4060	300	4350	500	3500
2PE - 13.8	14	0.85	250	3625	280	4060	300	4350	500	3500
2PE - 16	16.6	1.01	250	3625	280	4060	300	4350	400	3000
2PE - 19	19.4	1.15	220	3190	240	3480	260	3750	400	3000
2PE - 22.5	22.9	1.37	200	2900	220	3190	240	3480	400	2750
2PE - 26	26.7	1.63	180	2610	200	2900	220	3190	300	2500

*=Available only as rear pump



2.5PB

- double shaft seal;
- outrigger bearing for radial and axial loads;
- extensive range of rear covers with built-in valves;
- compact design for double and multiple pumps;
- flanges: European, SAE A, SAE B, 3 Bolt;
- ports: European, American standards;
- shafts: European and American standards.



TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
2.5PB - 5.5*	5.97	0.36	250	3625	280	4060	300	4350	600	3000
2.5PB - 8.3*	8.29	0.5	250	3625	280	4060	300	4350	600	3000
2.5PB - 11.5*	11.76	0.72	250	3625	280	4060	300	4350	600	3000
2.5PB - 13.8*	14.07	0.86	250	3625	280	4060	300	4350	600	3000
2.5PB - 16	16	0.97	250	3625	280	4060	300	4350	600	3000
2.5PB - 19	19.3	1.17	250	3625	280	4060	300	4350	600	3000
2.5PB - 22	22.2	1.35	250	3625	280	4060	300	4350	500	3000
2.5PB - 25	25.2	1.53	250	3625	280	4060	300	4350	500	3000
2.5PB - 28	27.6	1.68	250	3625	280	4060	300	4350	500	3000
2.5PB - 32	32.4	1.97	230	3330	250	3625	260	3750	500	3000
2.5PB - 38	38.1	2.32	200	2900	220	3190	240	3480	400	2750
2.5PB - 44	44.2	2.69	170	2465	190	2755	210	3040	400	2500

*=Available only as rear pump, displacements 11.5-13.8 are available as single pump only with drive shaft "55"

3PE

- double shaft seal;
- outrigger bearing for radial and axial loads;
- extensive range of rear covers with built-in valves;
- compact design for double and multiple pumps;
- flanges: European, German standards and SAE B;
- ports: European, German and American standards;
- shafts: European and American standards.



TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
3PE - 21	20.6	1.26	250	3625	280	4060	300	4350	600	3000
3PE - 27	27	1.65	250	3625	280	4060	300	4350	600	3000
3PE - 33	33.5	2.04	250	3625	280	4060	300	4350	600	3000
3PE - 38	38.7	2.36	240	3480	260	3750	275	3990	500	2750
3PE - 46	46.9	2.86	250	3625	270	3915	280	4060	500	2750
3PE - 55	54.1	3.3	220	3190	240	3480	250	3625	400	2500
3PE - 65	63.1	3.85	200	2900	220	3190	240	3480	400	2500
3PE - 75	73.4	4.48	180	2610	200	2900	220	3190	400	2500



GENERAL FEATURES

- gear pumps with aluminium body, cast iron mounting flanges and end covers.
- high volumetric efficiency achieved by floating bushings and axial compensation;
- 12 teeth integral shaft: one piece, solid gear;
- modular construction.



3.5PC

- double shaft seal;
- flanges: European, SAE B;
- ports: European, American standards;
- shafts: European and American standards.

TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
3.5PC - 55	54.8	3.34	250	3625	280	4060	300	4350	400	2750
3.5PC - 64	63.2	3.85	250	3625	280	4060	300	4350	350	2750
3.5PC - 75	74.7	4.55	230	3330	250	3625	280	4060	300	2500
3.5PC - 87	88	5.36	210	3040	230	3330	260	3750	300	2250
3.5PC - 98	99	6.03	200	2900	220	3190	250	3625	300	2000



MULTIPLE STAGE CONFIGURATIONS WITH DIFFERENT PUMP GROUPS



2PE/1.5PE

Double tandem or multiple pumps with individual or common suction.



2.5PB/2PE

Double tandem or multiple pumps with individual, separate or common suction.

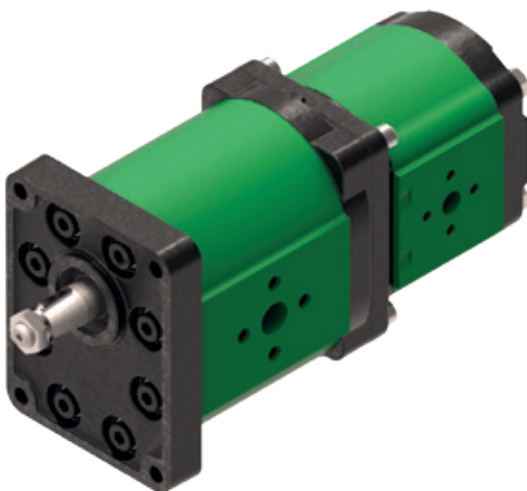


3PE/2PE

Double tandem or multiple pumps with individual, separate or common suction.

3PE/1.5PE

Double tandem or multiple pumps with individual or common suction.



3.5PC/3PE

Double tandem or multiple pumps with individual suction.

3.5PC/2PE

Double tandem or multiple pumps with individual or separate suction.

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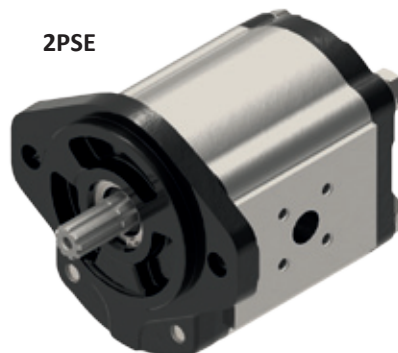


2PSE Low noise (Aluminium Body Gear Pump)

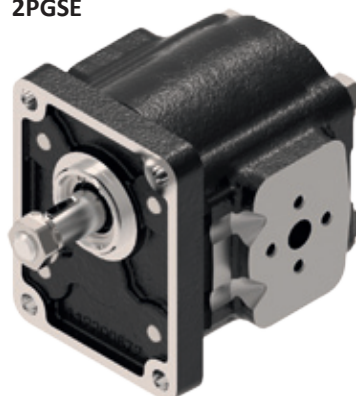
2PGSE Low noise (High Pressure Cast Iron Gear Pump, 300 bar)

- + Flow pulsations reduction: -80%
- + Noise emissions reduction: up to 10 dB(A) (average) compared to standard gear pumps
- + Downstream vibration reduced
- + Longer pump life

2PSE



2PGSE



GENERAL FEATURES

- 2PSE gear pump made with aluminium body, cast iron mounting flanges and end covers;
- 2PGSE gear pump made with cast iron body, flanges and end covers;
- gear: double flank engagement, tooth profile optimization to reduce relative sliding, specific heat treatment to minimize the deformation;
- axial balancing bushings optimized to minimize the volume trapped during teeth engagement.
- high volumetric efficiency achieved by floating bushings and axial compensation;
- 12 teeth integral shaft: one piece, solid gear;
- modular construction;
- compact design for double and multiple pumps;
- common parts with 2PE and 2PGE series;
- double shaft seal;
- extensive range of rear covers with built-in valves;
- flanges: European, German, SAE A, SAE B;
- ports: European and German flanged ports; BSPP (Gas) and ODT (SAE) threaded ports; American SAE J518 - standard pressure series 3000 psi flanged ports (available in 2PGSE pump).
- shafts: European and American standards.

Noise Level Reduction

- 2PE 22.9 cm³/rev
- 2PE 11.5 cm³/rev

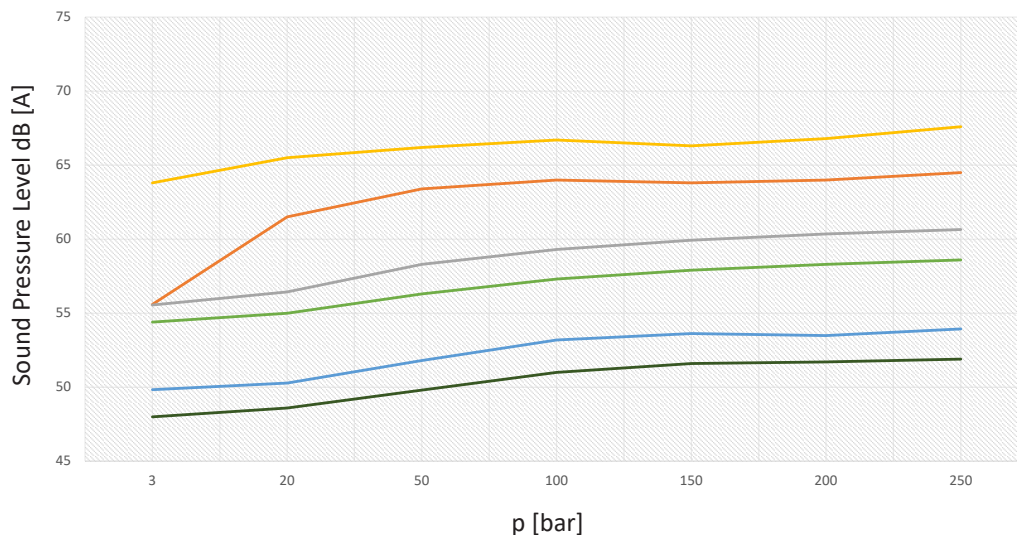
Standard
Aluminium body
gear pump

- 2PSE 22.9 cm³/rev
- 2PSE 11.5 cm³/rev

Low noise
Aluminium body
gear pump

- 2PGSE 22.9 cm³/rev
- 2PGSE 11.5 cm³/rev

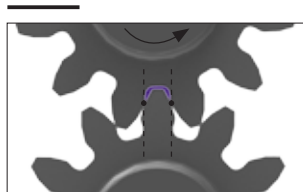
Low noise
Cast iron gear
pump



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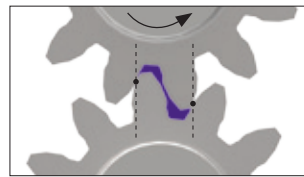


Pressure Ripple Comparison

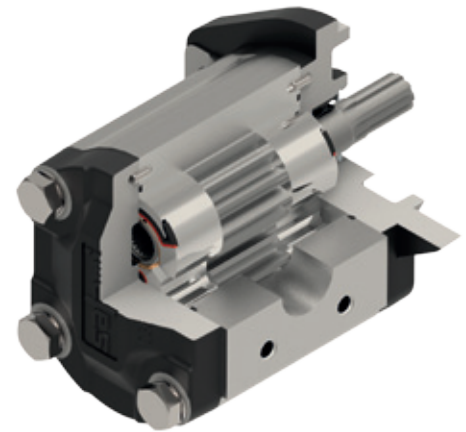


Low noise gear pump

Time (ms)



Standard gear pump



Applications:

- Hydraulic presses, Waste compactors, Forklifts, Drives for elevators/hoists, Farm vehicles, Municipal vehicles, Earthmoving machines, Hydraulic steering systems.

2PSE

TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
2PSE - 3.2*	3.3	0.20	250	3625	280	4060	300	4350	600	4000
2PSE - 3.9*	3.9	0.24	250	3625	280	4060	300	4350	600	4000
2PSE - 4.5	4.6	0.27	250	3625	280	4060	300	4350	600	4000
2PSE - 6.5	6.5	0.40	250	3625	280	4060	300	4350	600	4000
2PSE - 8.3	8.3	0.51	250	3625	280	4060	300	4350	500	3500
2PSE - 10.5	10.6	0.65	250	3625	280	4060	300	4350	500	3500
2PSE - 11.3	11.5	0.68	250	3625	280	4060	300	4350	500	3500
2PSE - 12.5	12.8	0.78	250	3625	280	4060	300	4350	500	3500
2PSE - 13.8	14	0.85	250	3625	280	4060	300	4350	500	3500
2PSE - 16	16.6	1.01	250	3625	280	4060	300	4350	400	3000
2PSE - 19	19.4	1.15	220	3190	240	3480	260	3750	400	3000
2PSE - 22.5	22.9	1.37	200	2900	220	3190	240	3480	400	2750
2PSE - 26	26.7	1.63	180	2610	200	2900	220	3190	300	2500

*= Available only as rear pump

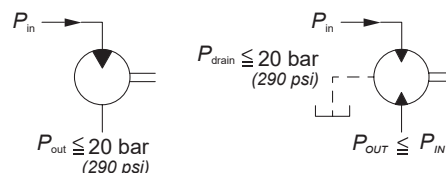
2PGSE

TYPE	Displacement		Continuous pressure P ¹		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ¹
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2PGSE - 6.5	6.5	0.40	300	4350	320	4650	600	4000
2PGSE - 8.3	8.3	0.51	300	4350	320	4650	500	3500
2PGSE - 11.3	11.5	0.68	300	4350	320	4650	500	3500
2PGSE - 13.8	14	0.85	300	4350	320	4650	500	3500
2PGSE - 16	16.6	1.01	300	4350	320	4650	500	3000
2PGSE - 19	19.4	1.15	300	4350	320	4650	500	3000
2PGSE - 22.5	22.9	1.37	280	4060	300	4350	500	2750
2PGSE - 26	26.7	1.63	260	3750	280	4060	500	2500
2PGSE - 28	28.1	1.71	230	3335	250	3625	500	2500



GENERAL FEATURES

- gear motors with aluminium body, cast iron mounting flanges and end covers.
- high volumetric efficiency achieved by floating bushings and axial compensation;
- 12 teeth integral shaft: one piece, solid gear;
- modular construction.



The Motors are equipped with HPD shaft seal (20 bar), on request is available also for motor with outrigger bearing.

Max drain pressure is influenced by rotational speed of the unit.

1.5ME

- high pressure single shaft seal;
- rear covers with built-in valves;
- flanges: European, SAE AA;
- ports: European, German and American standards;
- shafts: European and American standards.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
1.5ME - 2.8	2.8	0.17	250	3625	270	3915	700	4500
1.5ME - 3.5	3.5	0.21	250	3625	270	3915	700	4500
1.5ME - 4.1	4.1	0.25	250	3625	270	3915	700	4000
1.5ME - 5.2	5.2	0.32	230	3335	250	3625	700	4000
1.5ME - 6.2	6.2	0.38	230	3335	250	3625	600	3600
1.5ME - 7.6	7.6	0.46	200	2900	220	3190	600	3300
1.5ME - 9.3	9.3	0.57	180	2610	200	2900	600	3000
1.5ME - 11	11	0.67	170	2465	190	2755	600	3000

2ME

- high pressure double shaft seal;
- outrigger bearing for radial and axial loads;
- extensive range of rear covers with built-in valves;
- flanges: European, German, SAE A, SAE B, 4 Bolts;
- ports: European, German and American standards;
- shafts: European and American standards;
- external and internal drain.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2ME - 4.5	4.6	0.27	250	3625	280	4060	600	4000
2ME - 6.5	6.5	0.40	250	3625	280	4060	600	4000
2ME - 8.3	8.3	0.51	250	3625	280	4060	500	3600
2ME - 10.5	10.6	0.65	250	3625	280	4060	500	3500
2ME - 11.3	11.5	0.68	250	3625	280	4060	500	3500
2ME - 12.5	12.8	0.78	250	3625	280	4060	500	3400
2ME - 13.8	14	0.85	250	3625	280	4060	500	3400
2ME - 16	16.6	1.01	250	3625	280	4060	450	3200
2ME - 19	19.4	1.15	220	3190	240	3480	450	3200
2ME - 22.5	22.9	1.37	200	2900	220	3190	450	3000
2ME - 26	26.7	1.63	180	2610	200	2900	450	2850



2.5MB

- high pressure double shaft seal;
- outrigger bearing for radial and axial loads;
- flanges: European, SAE A, SAE B, 3 Bolt;
- ports: European and American standards;
- shafts: European and American standards.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2.5MB - 16	16	0.97	250	3625	280	4060	600	3000
2.5MB - 19	19.3	1.17	250	3625	280	4060	600	3000
2.5MB - 22	22.2	1.35	250	3625	280	4060	500	3000
2.5MB - 25	25.2	1.53	250	3625	280	4060	500	3000
2.5MB - 28	27.6	1.68	250	3625	280	4060	500	3000
2.5MB - 32	32.4	1.97	230	3330	250	3625	500	3000
2.5MB - 38	38.1	2.32	200	2900	220	3190	400	2750
2.5MB - 44	44.2	2.69	170	2465	190	2755	400	2500

3ME

- high pressure double shaft seal;
- outrigger bearing for radial and axial loads;
- flanges: European, German standards and SAE B;
- ports: European, German and American standards;
- shafts: European and American standards.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
3ME - 27	27	1.65	250	3625	300	4350	600	3000
3ME - 33	33.5	2.04	250	3625	300	4350	600	3000
3ME - 38	38.7	2.36	250	3625	300	4350	500	2750
3ME - 46	46.9	2.86	250	3625	280	4060	500	2750
3ME - 55	54.1	3.3	220	3190	250	3625	400	2500
3ME - 65	63.1	3.85	200	2900	240	3480	400	2500
3ME - 75	73.4	4.48	180	2610	220	3190	400	2500

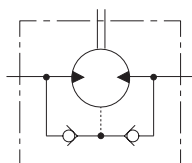


2ME - Configurations

IDV

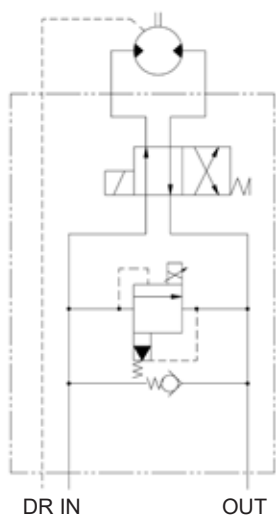
Internal drain valve

- reversible release with internal drain valve.



EPP-RV Fan drive

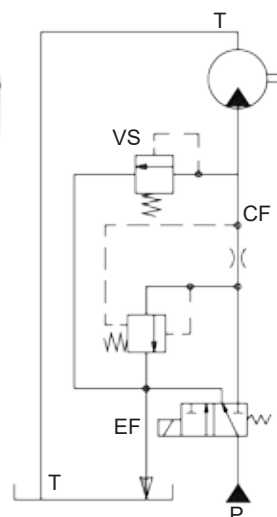
- electric proportional relief valve for a precise temperature regulation;
- available with directional valve for an efficient radiator cleaning;
- waterproof coils protection up to IP65;
- reduced weight thanks to a Finite Elements structural optimization;
- protection against pressure and torque shocks;
- maximum speed in case of electric power failure;
- ports: European and American standards (SAE and BSPP).



VRS

Air compressor drive

- electric or manual motor speed control;
- electric venting valve.



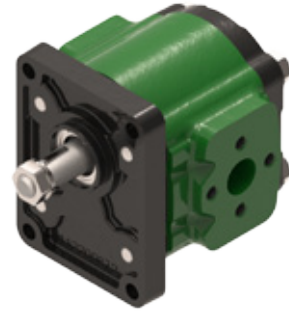


GENERAL FEATURES

- gear pumps with high tensile cast iron;
- high pressure;
- 12 teeth integral shaft: one piece, solid gear;
- double shaft seals.

2PGE - High tensile cast iron pump, 300 bar

- high volumetric efficiency by innovative design and accurate control of machining tolerances;
- flanges: European, German, SAE A, SAE B, ISO (for PTO designs);
- Ports: European, German and American SAE J518 (standard pressure series 3000 psi) flanged ports. BSPP (Gas) and ODT (SAE) threaded ports;
- shaft: European and American standards.



TYPE	Displacement		Continuous pressure P ¹		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ¹
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2PGE - 6.5	6.5	0.40	300	4350	320	4650	600	4000
2PGE - 8.3	8.3	0.51	300	4350	320	4650	500	3500
2PGE - 11.3	11.5	0.68	300	4350	320	4650	500	3500
2PGE - 13.8	14	0.85	300	4350	320	4650	500	3500
2PGE - 16	16.6	1.01	300	4350	320	4650	500	3000
2PGE - 19	19.4	1.15	300	4350	320	4650	500	3000
2PGE - 22.5	22.9	1.37	280	4060	300	4350	500	2750
2PGE - 26	26.7	1.63	260	3750	280	4060	500	2500
2PGE - 28	28.1	1.71	230	3335	250	3625	500	2500

PG330 OEM'S Construction - High pressure

PG331 Dealers Construction - Compact two pieces modular design

- high volumetric efficiency throughout the full pressure range, by narrow machining tolerance range and by floating thrust plates, that ensure axial compensation too;
- flanges: European, SAE A, SAE B, SAE C, ISO (for PTO designs);
- ports: European and American standards;
- shafts: European and American standards.



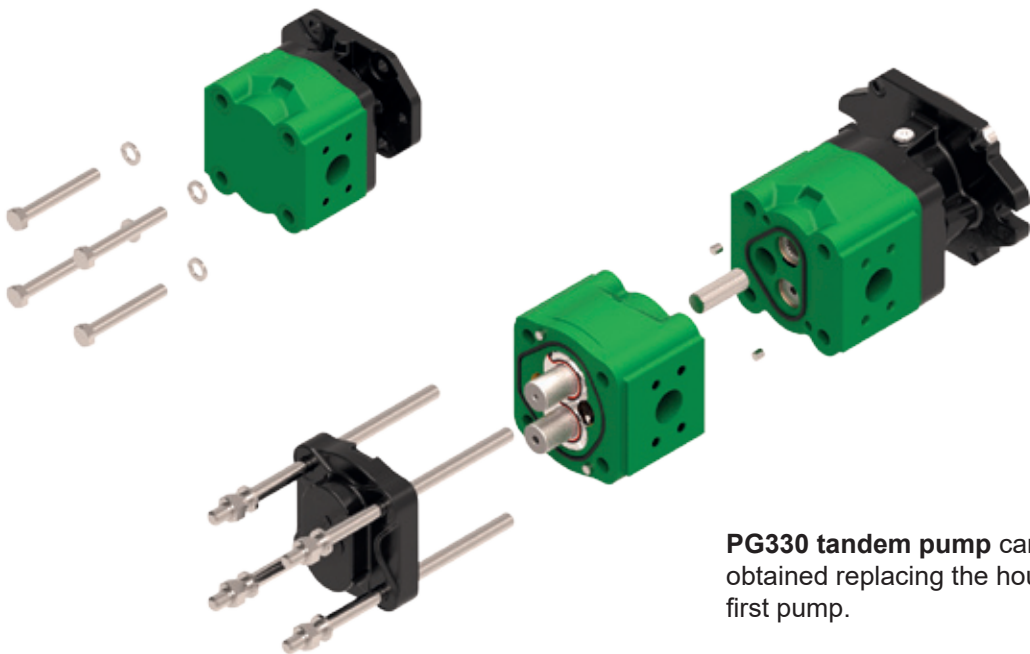
TYPE	Displacement		Continuous pressure P ¹		Intermittent pressure P ²		Peak pressure P ³		Min. speed at P ¹	Max. speed at P ^{2**}
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	bar	psi	rpm	
PG330 - 23	23.4	1.43	280	4060	300	4350	320	4650	400	3000
PG330 - 28	28.6	1.74	280	4060	300	4350	320	4650	400	3000
PG330 - 34	34.4	2.1	280	4060	300	4350	320	4650	400	3000
PG330 - 40	40.3	2.46	280	4060	300	4350	320	4650	400	2700
PG330 - 47	47.4	2.89	280	4060	300	4350	320	4650	400	2700
PG330 - 55	55.2	3.37	260	3750	280	4060	300	4350	400	2700
PG330 - 64	64.3	3.92	240	3500	260	3750	280	4060	350	2500
PG330 - 72	73.4	4.48	220	3200	240	3500	260	3750	350	2500
PG330 - 80	80.6	4.91	200	2900	220	3200	240	3500	350	2500



PG330 and PG331

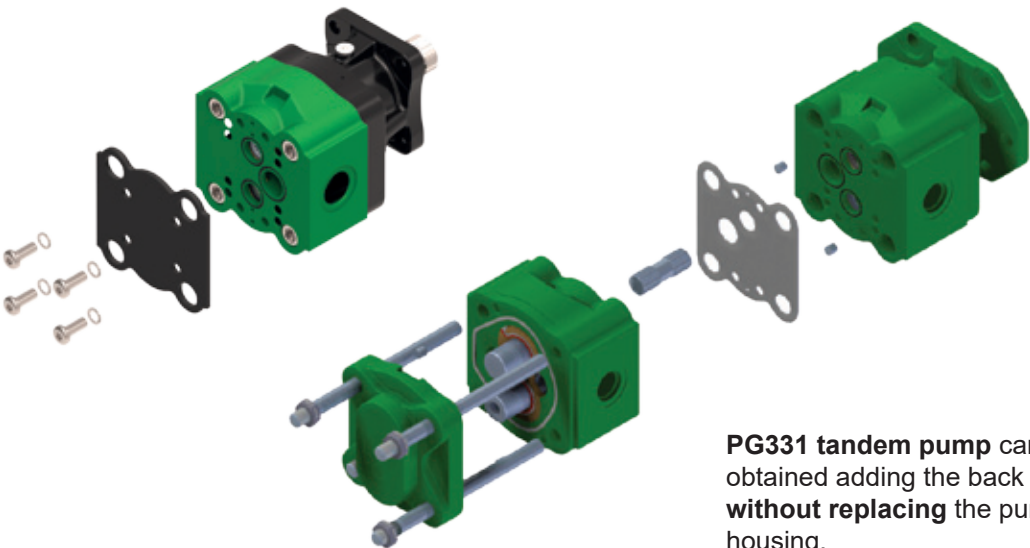
Sharing the same features, in terms of dimensions and working conditions.
PG330 optimized for high volume and for OEM's customers, PG331 has been designed for Retailers simplifying the switch from single to multiple stage pump configuration. Both are available in single, double, triple version.

PG330 Single pump	PG330 Multiple pump assembly
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PG330 tandem pump can be obtained replacing the housing of the first pump.

PG331 Single pump	PG331 Multiple pump assembly
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PG331 tandem pump can be obtained adding the back cover **without replacing** the pump's gear housing.

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**MULTIPLE STAGE CONFIGURATIONS WITH DIFFERENT PUMPS GROUP****2PGE/1.5PE**

Double tandem or multiple pumps with individual or common suction.

**2PGE/2PE**

Double tandem or multiple pumps with individual, separate or common suction.

**PG330/2PGE
PG330/2PE**

Double tandem or multiple pumps with individual, separate or common suction.

**PG331/2PE
PG331/2PGE**

Double tandem or multiple pumps with individual, separate or common suction.

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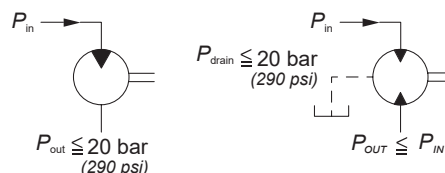


GENERAL FEATURES

- cast iron gear motors;
- high pressure;
- 12 teeth integral shaft: one piece, solid gear;
- double shaft seal.

2MGE

- high pressure double shaft seal;
- high torque;
- flanges: European, German, SAE A, SAE B;
- Ports: European, German and American SAE J518 (standard pressure series 3000 psi) flanged ports. BSPP (Gas) and ODT (SAE) threaded ports;
- shaft: European and American standards;
- external and internal drain.



The Motors are equipped with HPD shaft seal (20 bar), on request is available also for motor with outrigger bearing.

Max drain pressure is influenced by rotational speed of the unit.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
2MGE - 6.5	6.5	0.40	250	3625	280	4060	600	4000
2MGE - 8.3	8.3	0.51	250	3625	280	4060	600	3600
2MGE - 11.3	11.5	0.68	250	3625	280	4060	600	3500
2MGE - 13.8	14	0.85	250	3625	280	4060	600	3400
2MGE - 16	16.6	1.01	250	3625	280	4060	450	3200
2MGE - 19	19.4	1.15	250	3625	280	4060	450	3200
2MGE - 22.5	22.9	1.37	250	3625	280	4060	450	3000
2MGE - 26	26.7	1.63	230	3335	260	3750	450	2850
2MGE - 28	28.1	1.71	200	2900	230	3335	450	2500

MG330

- high pressure double shaft seal;
- high torque;
- flanges: European, SAE B, SAE C;
- ports: European and American standards;
- shaft: European and American standards;
- external and internal drain.



TYPE	Displacement		Max. continuous pressure P ¹		Max. starting pressure P ²		Min. speed at P ¹	Max. speed at P ²
	cm ³ /rev	cu.in/rev	bar	psi	bar	psi	rpm	
MG330 - 23	23.4	1.43	240	3480	300	4350	600	3000
MG330 - 28	28.6	1.74	240	3480	300	4350	600	3000
MG330 - 34	34.4	2.1	240	3480	300	4350	600	3000
MG330 - 40	40.3	2.46	220	3190	280	4060	550	2700
MG330 - 47	47.4	2.89	240	3480	280	4060	550	2700
MG330 - 55	55.2	3.37	220	3190	280	4060	550	2700
MG330 - 64	64.3	3.92	200	2900	260	3750	500	2500
MG330 - 72	73.4	4.48	200	2900	260	3750	500	2500
MG330 - 80	80.6	4.91	180	2610	200	2900	500	2500



GENERAL FEATURES

- gear flow dividers with aluminium body, cast iron end covers;
- high volumetric efficiency achieved by floating bushings and axial compensation;
- two or more modular stages;
- 12 teeth integral shaft: one piece, solid gear in every single stages;
- available with ports for the main European, German and American standards;
- common Inlet Port available also on the end cover.

1.5DRE

- up to 6 stages;
- 1.5DRE-VA: cylinder synchronizing function.



TYPE	Displacement		Max outlet pressure				Max outlet Δp		Speed		Flow per section		Flow per section	
			P ₁	P ₂	P ₁	P ₂	between sections		min.	max.	min.	max.	min.	max.
	cm ³ /rev	cu.in./rev	bar	bar	psi	psi	bar	psi	rpm		l/min		gpm	
1.5DRE - 2.8	2.8	0.17	250	270	3625	3915	50	725	1200	4500	3.54	13.26	0.93	3.49
1.5DRE - 3.5	3.5	0.21	250	270	3625	3915	50	725	1200	4500	4.42	16.58	1.16	4.36
1.5DRE - 4.1	4.1	0.25	250	270	3625	3915	50	725	1200	4000	5.18	17.26	1.36	4.54
1.5DRE - 5.2	5.2	0.32	230	250	3335	3625	50	725	1200	4000	6.57	21.89	1.73	5.76
1.5DRE - 6.2	6.2	0.38	230	250	3335	3625	50	725	1200	3400	7.83	22.19	2.06	5.84
1.5DRE - 7.6	7.6	0.46	200	220	2900	3190	50	725	1200	3400	9.60	27.20	2.53	7.16
1.5DRE - 9.3	9.3	0.57	180	200	2610	2900	50	725	1200	3000	11.75	29.37	3.09	7.73
1.5DRE - 11	11	0.67	170	190	2465	2755	50	725	1200	3000	13.89	34.74	3.66	9.14

2DRE

- all bodies provision for AR cylinder synchronizing valves;
- up to 6 stages;
- 2DRE-VA: cylinder synchronizing function;
- 2DRE-AR: for cylinder synchronizing in both directions (additional Tank connection required).



TYPE	Displacement		Max. Outlet Pressure				Max. Outlet Δp		Speed		Flow per section		Flow per section	
			P ₁	P ₂	P ₁	P ₂	between sections		min.	max.	min.	max.	min.	max.
	cm ³ /rev	cu.in./rev	bar	bar	psi	psi	bar	psi	rpm		l/min		gpm	
2DRE - 8,3	8.3	0.51	250	280	3625	4060	50	725	1200	3600	10.36	31.07	2.73	8.18
2DRE - 10,5	10.6	0.65	250	280	3625	4060	50	725	1200	3500	13.39	39.05	3.52	10.28
2DRE - 11,3	11.5	0.68	250	280	3625	4060	50	725	1200	3500	14.53	42.37	3.82	11.15
2DRE - 12,5	12.8	0.78	250	280	3625	4060	50	725	1200	3400	16.04	45.45	4.22	11.96
2DRE - 13,8	14	0.85	250	280	3625	4060	50	725	1200	3400	17.43	49.39	4.59	13.00
2DRE - 16	16.6	1.01	250	280	3625	4060	50	725	1100	3200	19.22	55.92	5.06	14.71
2DRE - 19	19.4	1.15	220	240	3150	3450	50	725	1100	3200	22.46	65.35	5.91	17.20
2DRE - 22,5	22.9	1.37	220	240	3150	3450	50	725	1100	3000	26.52	72.32	6.98	19.03
2DRE - 26	26.7	1.63	200	220	2900	3150	50	725	1100	2850	29.87	77.40	7.86	20.37
2DRE - 32	32.4	1.98	200	220	2900	3150	50	725	1100	2700	34.85	85.55	9.71	22.51



2PE - VSQ High Low Pump

High-Low pump is the most suitable choice when the actuator needs quick movements with low pressure and slow speed under high pressure. This particular dual pump with integrated valves has been specially designed for applications such as clamping mechanisms, metal forming, crimping machines, compactors, log splitters, presses.

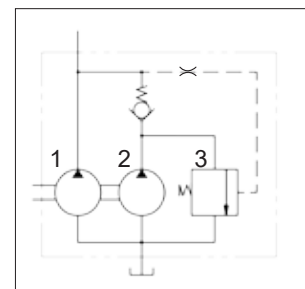
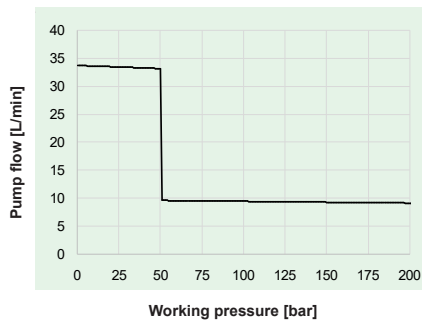
- Sequence unloading valve setting range:

30-60 bar (440-870 psi)

60-120 bar (870-1740 psi)



Example: 6.5cc/16cc - 1500 rpm - 50 bar



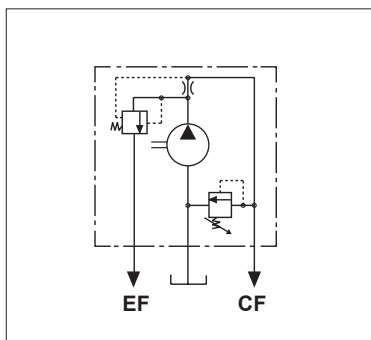
1= Stage high pressure
2= Stage low pressure
3= Unloading valve

VPS1/VPDS1 - Priority and LS Priority Flow Valve

- fixed priority flow valve;
- dynamic LS priority flow valve, flow on demand.

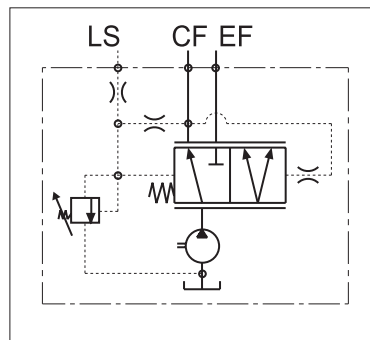


VPS1



CF= Priority flow port
EF= Excess flow port

VPDS1



CF= Priority flow port
EF= Excess flow port
LS= Load sensing signal port

Available for 2PE, 2.5PB,
3PE, PG330/331 pumps.

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