SMP Series

Mobile

Internal Gear Pump - Suitable for 2200 rpm Displacement: 8~160 cc/rev Maximum operating pressure 250 bar Single, Double & Triple pump

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Industrial

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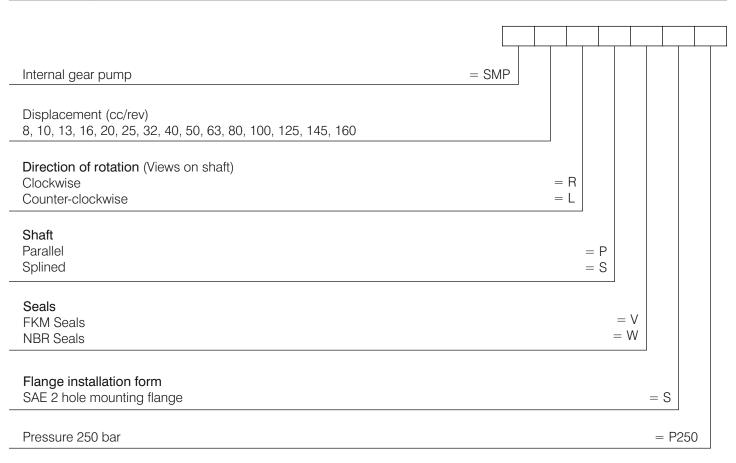
Hydraulic Cylinders



Characteristics

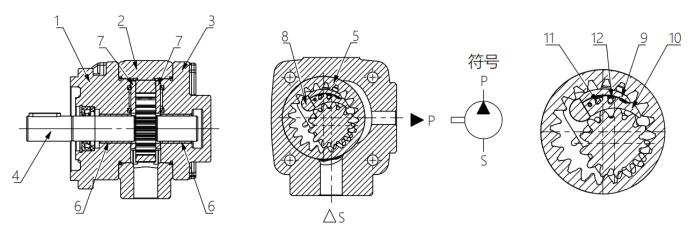
- Axial and radial pressure compensation design is adopted to maintain a high volume ratio even at low speed and low viscosity.
- Ultra low noise. High strength cast iron and unique internal silencing design are adopted to reduce the noise.
- Extremely low flow and pressure pulsation can still maintain stable flow and pressure output at low speed.
- The maximum service pressure can reach 25MPa.
- The speed range is wide, and the maximum speed can reach 2200r/min
- It can be combined to form a duplex pump.
- · Insensitive to oil pollution and long service life.
- It can be widely used in industries, such as plastic machines, shoe machines, die-casting machines, forklifts and other industries, It is especially suitable for the energy-saving system of servo variable-frequency drive.

Ordering code





Structure



Its basic structure consists of:

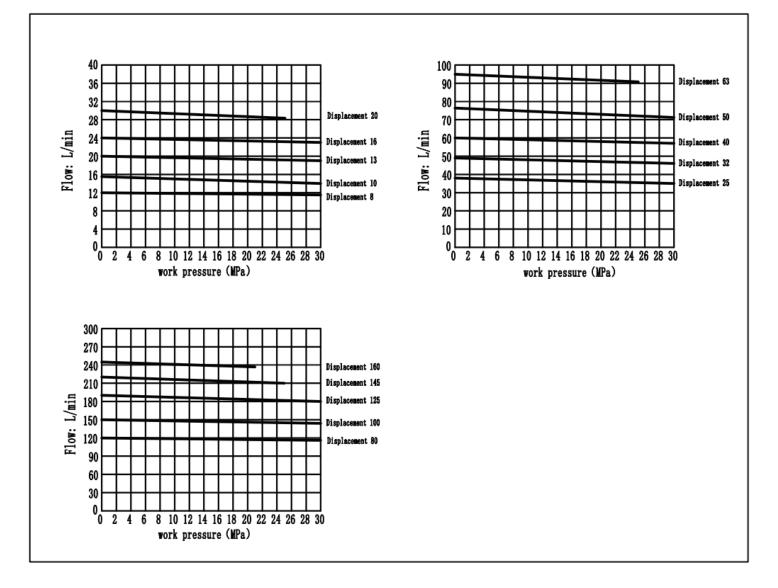
1. front cover; 2. Pump body; 3. Rear cover; 4. Gear shaft, 5. Inner gear ring; 6. Bushing; 7. Front and rear side panels; 8. Positioning rod; 9. Secondary lunar plate; 10. Crescent motherboard; 11. Plastic rod; 12. Spring Plate composition.

Performance Parameters

	Cizo.	Displacement	Working pre	essure (Bar)	Speed	Weight	
MODEL	Size	Displacement	Rated	Peak	Maximum	Minimum	(Kg)
	8	8.2					4.6
	10	10.2					4.8
	13	13.3					4.9
	16	16					5.2
	20	20					5.6
	25	25.3					6.1
SMP	25	25.3					14.5
	32	32.7					15
	40	40.1	250	280	2200	600	16
	50	50.7					17
	63	63.7					18.5
	63	64.7					42
	80	81.4					43.5
	100	100.2					45.5
	125	125.2					48
	145	145.2					50
	160	162.8					52

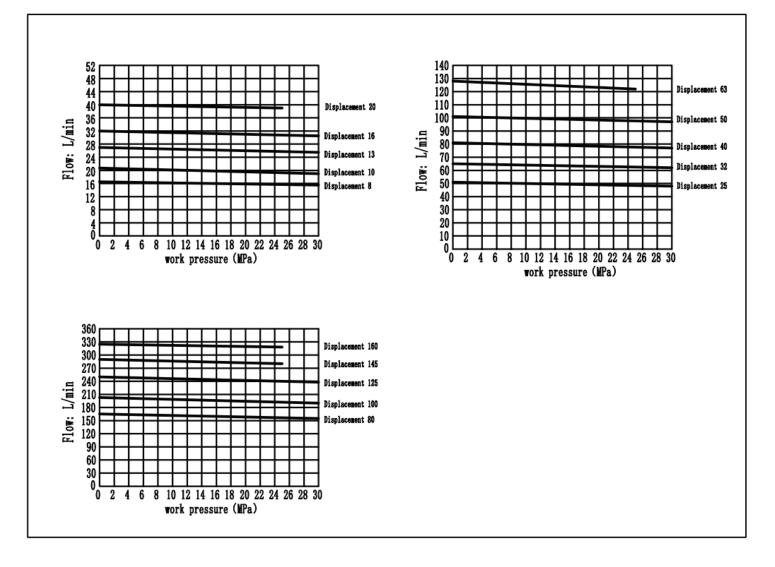


1500 r/min Characteristic curves



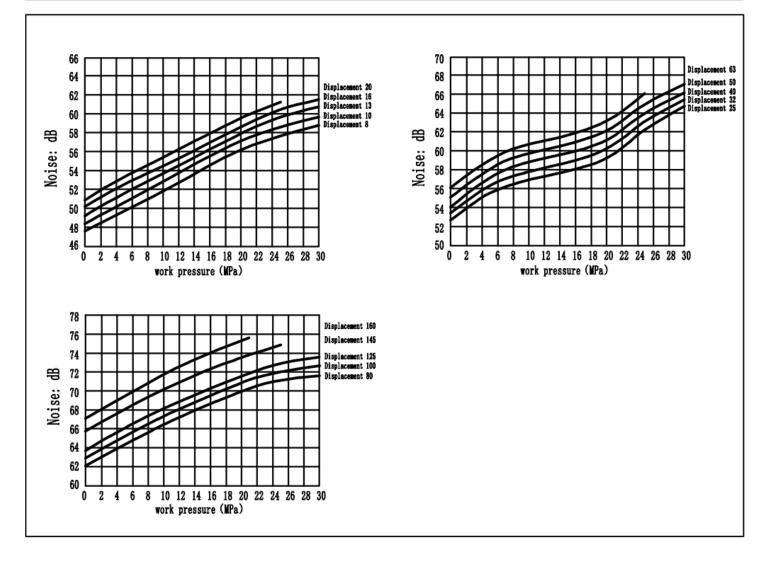


2000 r/min Characteristic curves



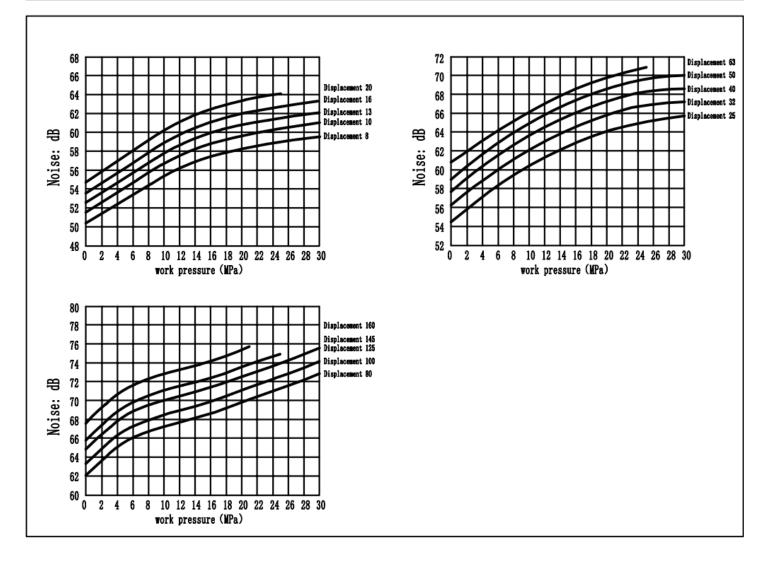


1500 r/min Noise Curve





2000 r/min Noise Curve

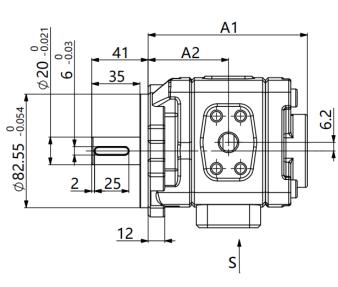


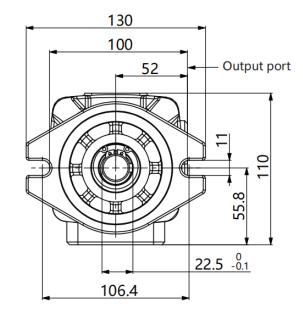


Unit Dimensions For Sizes 8, 10, 13, 16, 20, 25

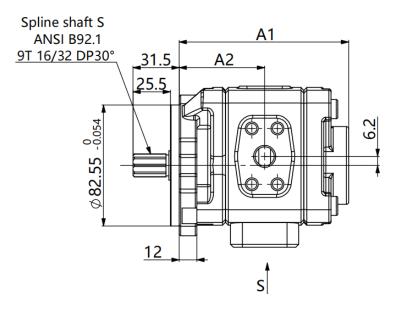
(Dimensions in mm)

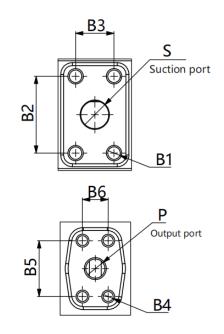
Parallel Shaft





Splined Shaft



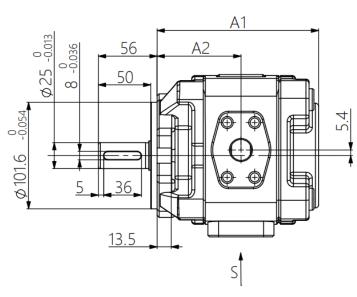


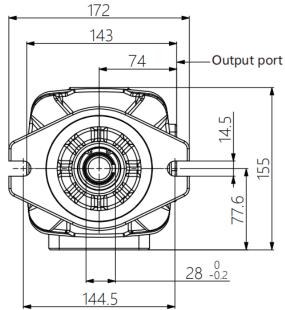
series	Specifications	A1	A2	S	B1	B2	B3	Р	B4	B5	B6
	8	105	53		M10D15	47.6	22.2	φ13	M8D13	38.1	
	10	109	55	φ19 φ26		52.4	26.2				17.5
	13	115.5	58.25								17.5
SMP	16	121	61								
	20	129	65			507	30.2	<i>(</i> 1 0	M10D12	17.6	22.2
	25	137	69			58.7	50.2	φιο	M10D13	47.0	22.2

Unit Dimensions For Sizes 25, 32, 40, 50, 63

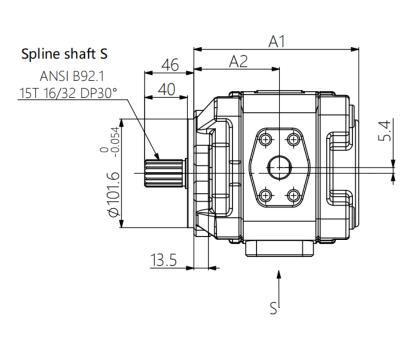
(Dimensions in mm)

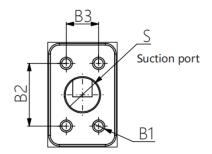
Parallel Shaft

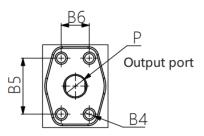




Splined Shaft







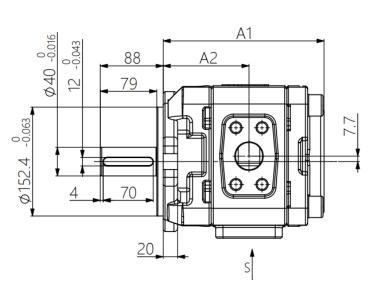
series	spec	A1	A2	S	B1	B2	B3	Р	B4	B5	B6
	25	140	73		M10D17	58.7	30.2	φ18		47.6	22.2
	32	147	76.5					φιο			22.2
SMP	40	154	80	φ32				φ20	M10D17		
	50	164	85							52.4	26.2
	63	178	92								

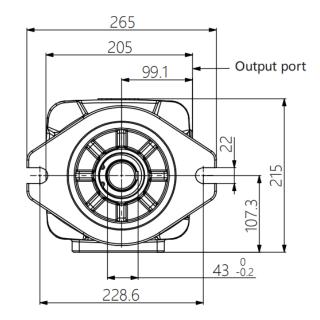


Unit Dimensions For Sizes 80, 100, 125, 145, 160

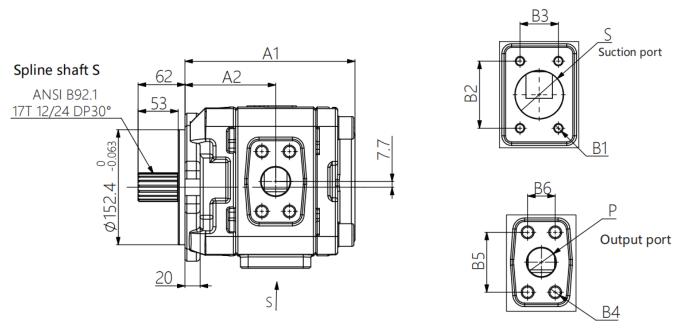
(Dimensions in mm)

Parallel Shaft





Splined Shaft



series	spec	A1	A2	S	B1	B2	B3	Р	B4	B5	B6
	80	204	109.5	(oE1		77.0	42.0	φ32	M12D20	69.9	25.7
	100	213	114	φ51	M12D23	77.8	42.9				35.7
SMP	125	225	120			88.9	50.8	φ38	M16D25	79.4	
	145	234.5	124.75	φ63.5							36.5
	160	243	129	φ76	M16D30	106.4	61.9				



The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



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