

## Axialkolbenpumpe offener Kreislauf

### ERR-100B LS 21 21 NN N 3 S1AP A1N

#### Nenngrösse 100B

Verdrängungsvolumen	100 cm <sup>3</sup> /U
Drehzahl	2450 min <sup>-1</sup>
Volumenstrom max.	245 l/min
Masse	55 kg

#### Drehrichtung

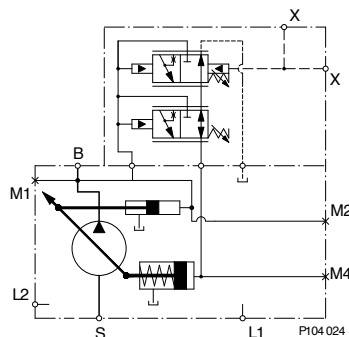
Rechts

#### Load-Sensing-Regler

LS setting range

Model	bar	psi
All	10-30	145-435

Schematic



- B = Outlet
- S = Inlet
- L1, L2 = Case drain
- M2 = System pressure gauge port
- M4 = Servo pressure gauge port
- X = LS signal port

#### Load Sensing Control with Bleed Orifice/Pressure Compensated

Response/recovery times\*

(msec)	Response	Recovery
E100B	45	200
E130B	50	200
E147C	60	200

PC setting range

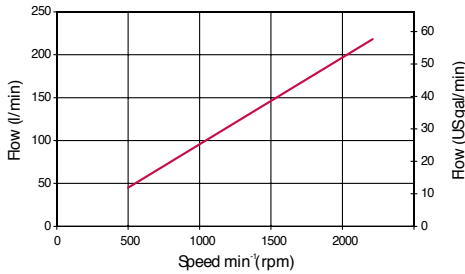
Model	LB	BB
E100B	100-280 bar [1450-4060 psi]	290-310 bar [4205-4495 psi]
E130B	100-280 bar [1450-4060 psi]	290-310 bar [4205-4495 psi]
E147C	100-260 bar [1450-3770 psi]	N/A

LS setting range

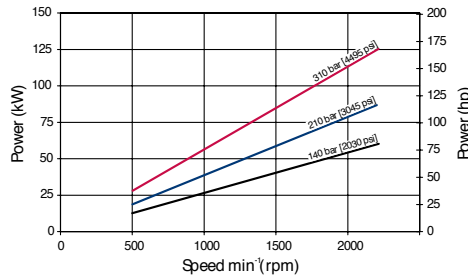
Model	bar	psi
All	10-34	145-435

Flow and power data valid at 49°C [120°F] and viscosity of 17.8 mm<sup>2</sup>/sec [88 SUS].

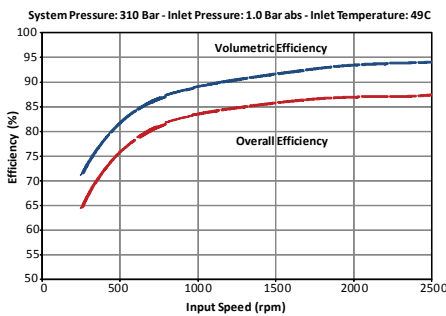
Flow vs. speed



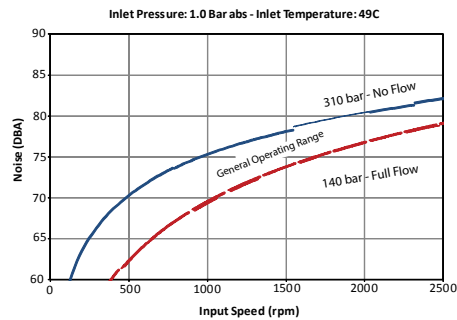
Input power vs. speed



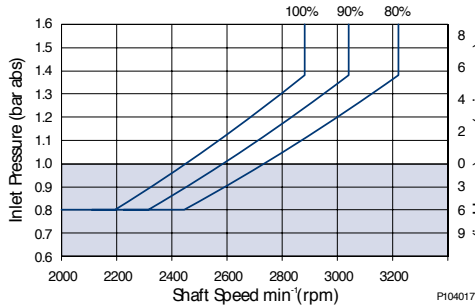
Efficiency



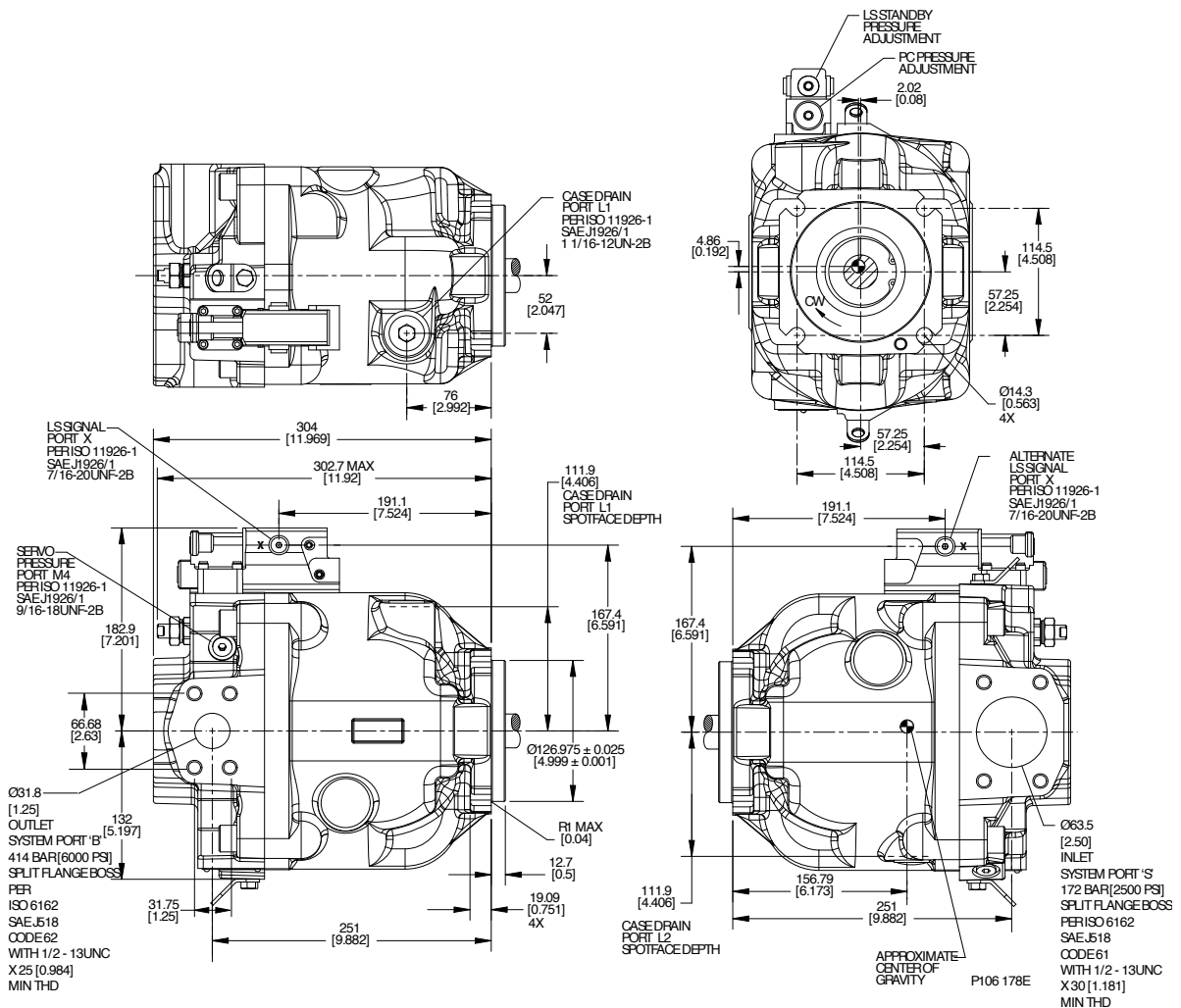
Noise



Inlet pressure vs. speed



		<b>E Frame</b>	
		<b>Unit</b>	<b>100B</b>
Maximum Displacement		cm <sup>3</sup> [in <sup>3</sup> ]	100 [6.1]
Working Input Speed	Minimum	min <sup>-1</sup> (rpm)	500
	Continuous		2450
	Maximum		2880
Working Pressure	Continuous	bar [psi]	310 [4500]
	Maximum		400 [5800]
Flow at rated speed (theoretical)		l/min [US gal/min]	245 [64.7]
Input torque at maximum displacement (theoretical) at 49° C [120°F]		N·m/bar [lbf·in/1000 psi]	1.592 [972]
Mass moment of inertia of internal rotating components		kg·m <sup>2</sup> [slug·ft <sup>2</sup> ]	0.0128 [0.00944]
Weight	Axial ports	kg [lb]	51.3 [113]
	Radial ports		54.9 [121]
External Shaft Loads	External moment (Me)	N·m [lbf·in]	455 [4027]
	Thrust in (Tin), out (Tout)		N [lbf]
Mounting flange load moments	Vibratory (continuous)	N·m [lbf·in]	1920 [17000]
	Shock (maximum)		6779 [60000]



SAE-A Dimensions

