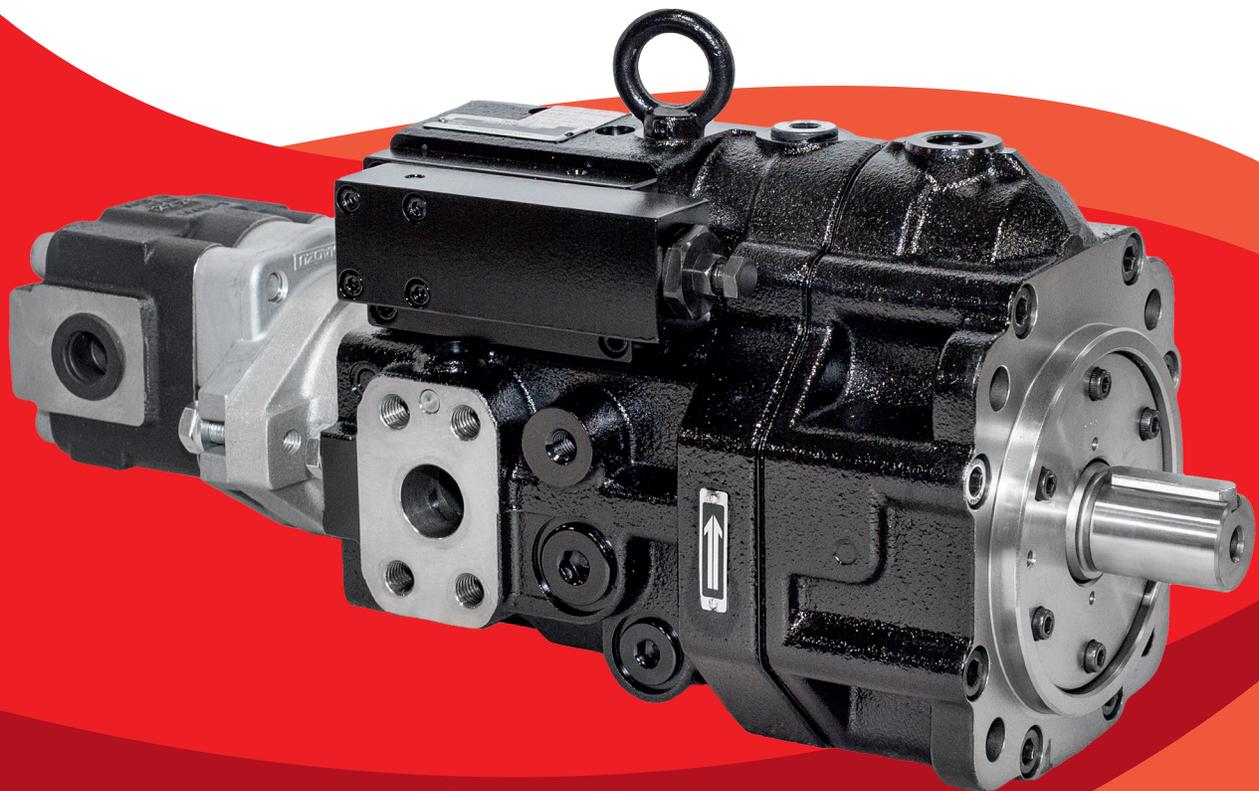


NACHI

PZH Piston Pump Thru Shaft Series



Combining with a secondary pump allows
for filtration and other applications

Max operating pressure at 5000psi
Low noise, High durability

NACHI

PZH Features

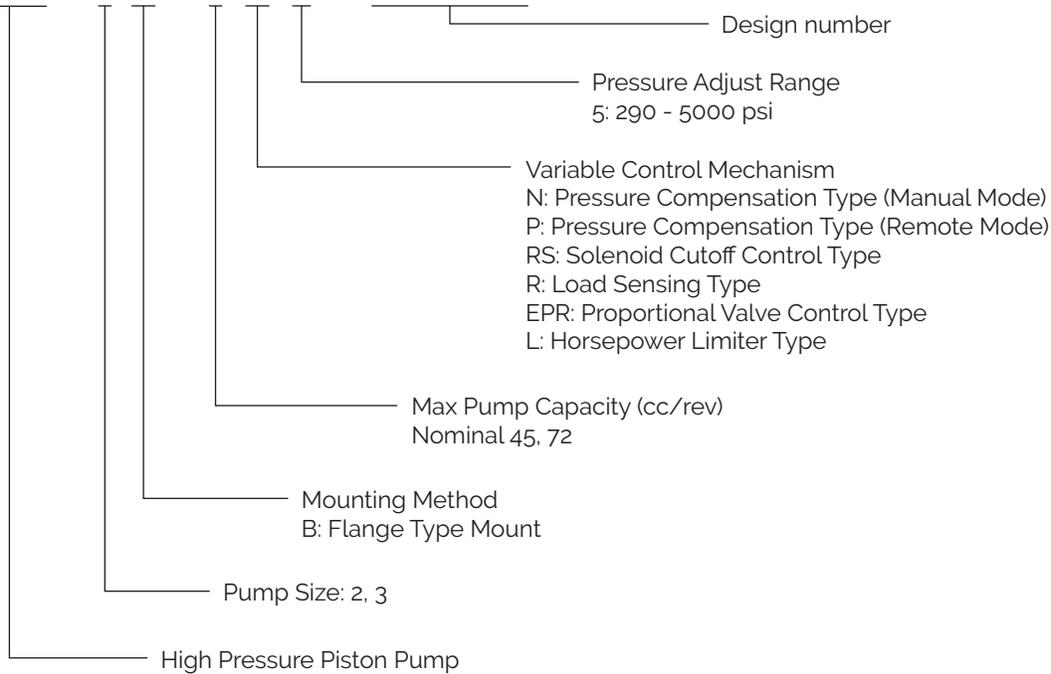
- Max operating pressure at 5,000 psi
- Designed for low noise and long life
- Easy to add tandem pump for variety application

Applications

- Hydraulic Press
- Forging Machine
- Test Machine

Explanation of Model Number

PZH - * B - * N 5 - E3190A

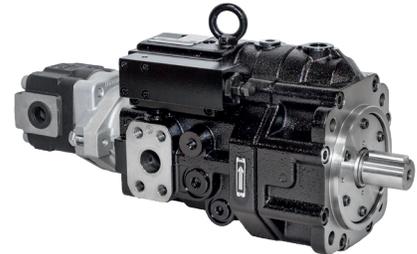


Control Type	Pressure Compensation (manual)	Pressure Compensation (Remote)	Solenoid Cutoff Control	Load Sensing	Proportional Valve Control	Horsepower Limiter
Symbol	N	P	RS	R	EPR	L
P-Q Characteristic						

PZH Piston Pump Thru Shaft Series

Allowable Torque

Model No.	Max Allowable Torque (in-lbs)	Max Rear Pump Torque (in-lbs)
PZH-2B-45*-E3190A	3,615.00	796.00
PZH-3B-72*-E3190A	5,368.00	859.00



Equation

Torque (in-lbs) = Pressure (psi) × Displacement (cipr) ÷ (2π)

Example

Total allowable torque for this pump is 3,615.00 in-lbs.

PZH-2B-45*-E3190A

(Front Pump)

- Pressure Setting: 5,000 psi
- Displacement Setting: 2.74 cipr
- Equation: (5,000 psi × 2.74cipr) ÷ (2π)
- Result: T = 2180.42 in-lbs

Notes

Total torque is dependent on both the pump size
All torque and shaft specification can be found in this brochure

NASGP-300A-105A-9H2-R-E10

(Rear Pump, Fixed Gear Pump)

- Pressure Setting: 1,000 psi
- Displacement Setting: 1.40 cipr
- Equation: (1,000 psi × 1.40 cipr) ÷ (2π)
- Result: T = 222.82 in-lbs

Total Torque

2180.42 in-lbs + 222.82 in-lbs = 2403.24 in-lbs

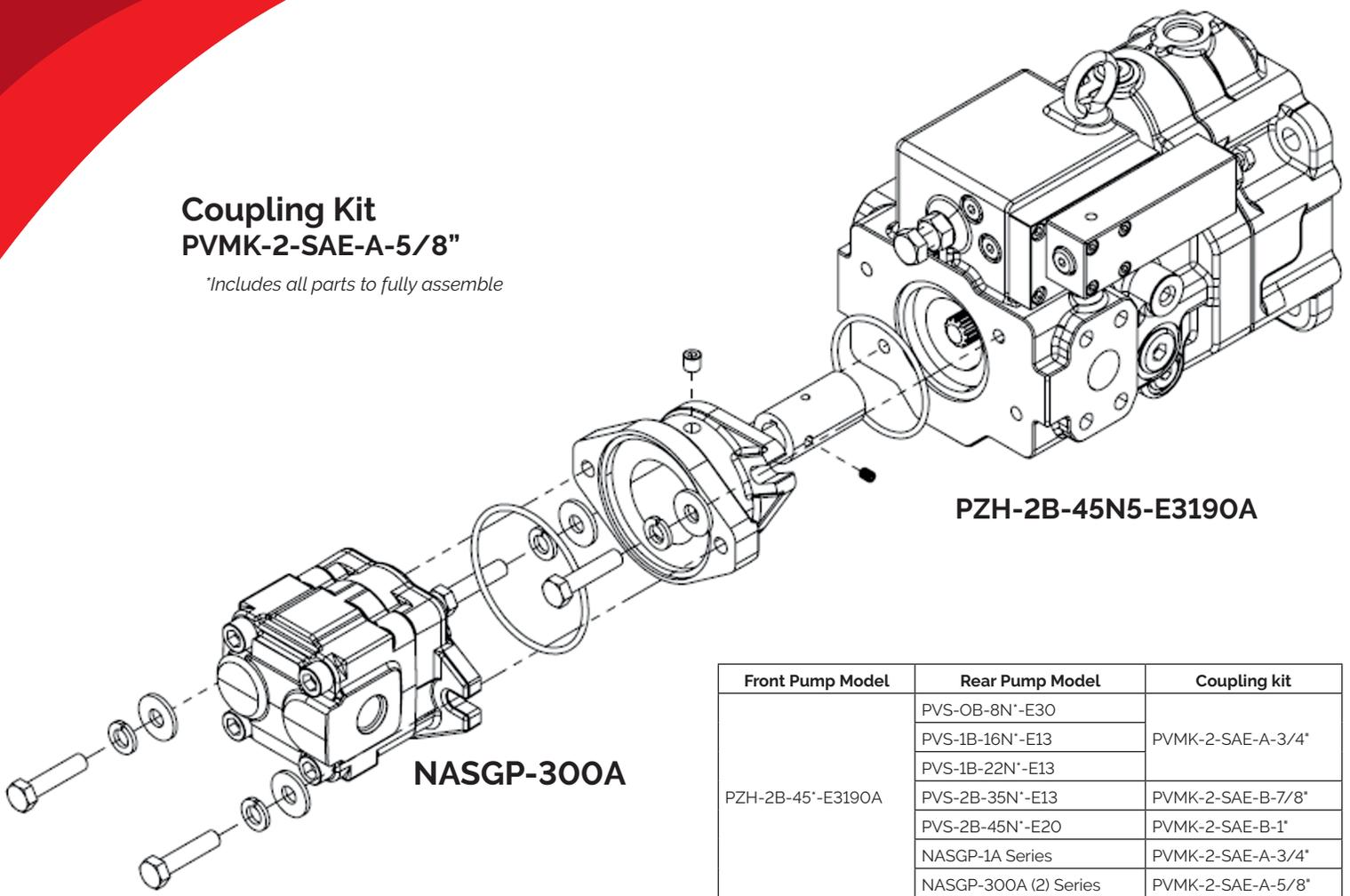
Specifications

Model No.	Pump Capacity in ³ /rev (cc/rev)	Discharge Volume at No-Load (gpm)	Pressure Range (psi)	Allowable Peak Pressure (psi)	Rotation Speed		Mass (lbs)
		1800 rpm			Min.	Max.	
PZH-2B-45*-E3190A	1.7 - 2.74 (28 - 45)	21.4	290-5000	5800	500	2000	68
PZH-3B-70*-E3190A	2.74 - 4.39 (45 - 72)	34.2					95

Model No.	Port Size	Front Dimensions		Rear Dimensions
		Flange	Shaft	Shaft
PZH-2B-45*-E3190A	Inlet: Code 61 1-1/2" Outlet: Code 62 1" Drain: SAE-8	SAE(C) 127-4	1-1/4" Key	SAE19-4 (11T)
PZH-3B-70*-E3190A	Inlet: Code 61 2" Outlet: Code 62 1-1/4" Drain: SAE-12	SAE(D) 152-4	1-3/4" Key	SAE22-4 (13T)

Coupling Kit PVMK-2-SAE-A-5/8"

**Includes all parts to fully assemble*



PZH-2B-45N5-E3190A

NASGP-300A

Front Pump Model	Rear Pump Model	Coupling kit
PZH-2B-45'-E3190A	PVS-OB-8N'-E30	PVMK-2-SAE-A-3/4"
	PVS-1B-16N'-E13	
	PVS-1B-22N'-E13	
	PVS-2B-35N'-E13	PVMK-2-SAE-B-7/8"
	PVS-2B-45N'-E20	PVMK-2-SAE-B-1"
	NASGP-1A Series	PVMK-2-SAE-A-3/4"
	NASGP-300A (2) Series	PVMK-2-SAE-A-5/8"
PZH-3B-72'-E3190A	PVS-OB-8N'-E30	PZMK-SAE-A-3/4
	PVS-1B-16N'-E13	
	PVS-1B-22N'-E13	
	NASGP-1A Series	PZMK-SAE-A-3/4
	NASGP-300A (5) Series	PZMK-SAE-A-9T

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