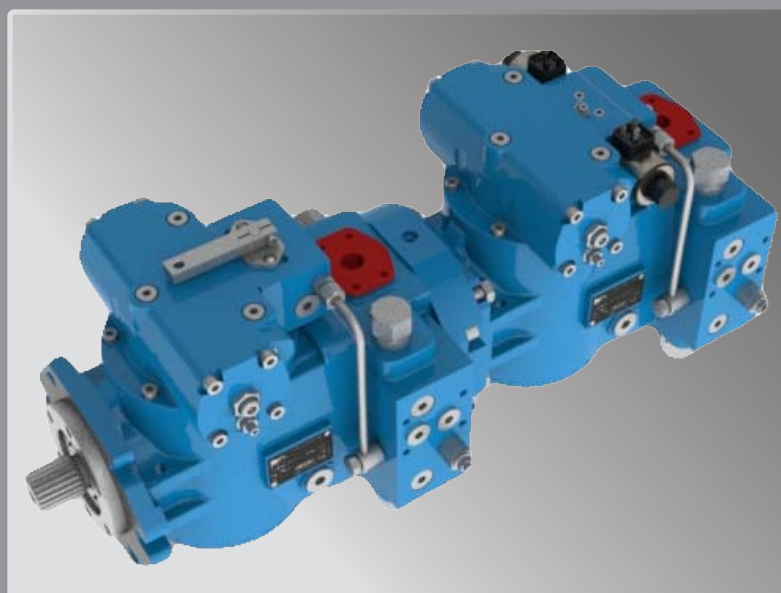


416 series

Variable Axial Piston Pump
Swashplate design

Options and Features



416 series variable displacement axial piston swashplate pumps with 71 and 90 cc/rev displacement.

While developing 416 series pumps we met the main requirements: design flexibility and integrity of functions to satisfy each consumer.

The pumps are based on the basic design.

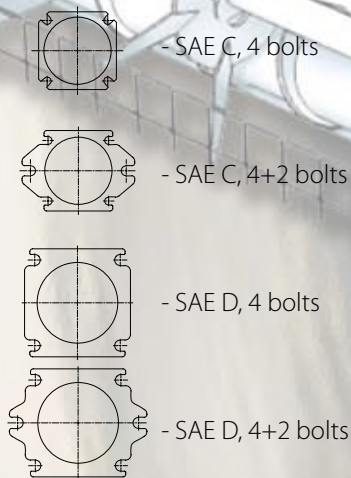
Options and functions provided by the design allow execution of any claimed pump configuration.

416 series pump options, functions and mounting dimensions allow replacement of any transmission pump presented on the market.

displacement

- 416.0.71 - 71 ccm/rev
- 416.0.90 - 90 ccm/rev

mounting flange



shaft seal

- FKM
- NBR

shaft end

- W35x2x30x16x9g DIN5480
- W40x2x30x18x9g DIN5480
- W45x2x30x21x9g DIN5480
- 1/4" 14T 12/24DP ANSI B92.1a
- 1 3/8" 21T 16/32DP ANSI B92.1a
- 1 1/2" 23T 16/32DP ANSI B92.1a
- 1 3/4" 13T 8/16DP ANSI B92.1a
- tapered 1 3/8"
- tapered 1 1/2"
- tapered 1 3/4"

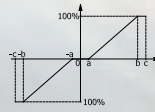
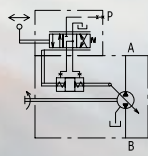
filtration

- external, suction line filtration
- external, charge pressure line filtration
- internal, charge pressure line filtration

system ports

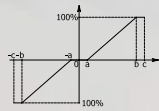
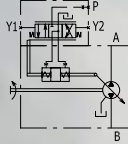
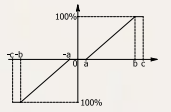
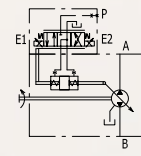
- SAE 1" 3000psi, M10
- SAE 1" 6000psi, M12

controls



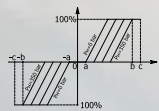
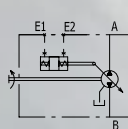
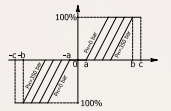
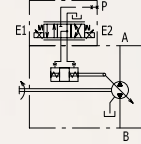
mechanical
servocontrol

proportional electrical
control



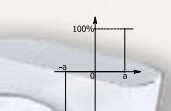
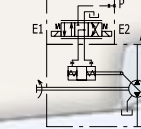
proportional hydraulic
control

proportional electrical
control
without feedback



proportional hydraulic
control
without feedback

3-position electrical
control



displacement limiters

- without limiter
- with limiter

case drain ports

- M22x1,5 ISO 6149-1
- M22x1,5 ISO 9974-1 / DIN 3852-1
- 7/8-14UNF-2B ISO 11926-1

speed sensor

integrated valves

- pressure-relief valves
- charge pressure valve
- cut-off valve

suction line port

- M36x2, 26 mm, ISO 9974-1 / DIN 3852-1
- M42x2, 24 mm, ISO 6149-1

auxiliary mounting pads

- flange SAE A (Ø82,55);
- flange SAE A (Ø82,55);
- flange SAE B (Ø101,6);
- flange SAE B (Ø101,6);
- flange SAE C (Ø127);
- flange SAE C (Ø127);
- flange SAE C (Ø127);
- splined 9T 16/32DP ANSI B92.1a
- splined 11T 16/32DP ANSI B92.1a
- splined 13T 16/32DP ANSI B92.1a
- splined 15T 16/32DP ANSI B92.1a
- splined 15T 16/32DP ANSI B92.1a
- splined 21T 16/32DP ANSI B92.1a
- splined 14T 12/24DP ANSI B92.1a

PSM-Hydraulics

8, 1st km Sibirsky Trakt, Ekaterinburg, Russia, P.C. 620100

tel.: +7 (343) 264-66-50, fax: +7 (343) 229-79-83

web: www.psm-hydraulics.com

E-mail: trade@psmural.ru