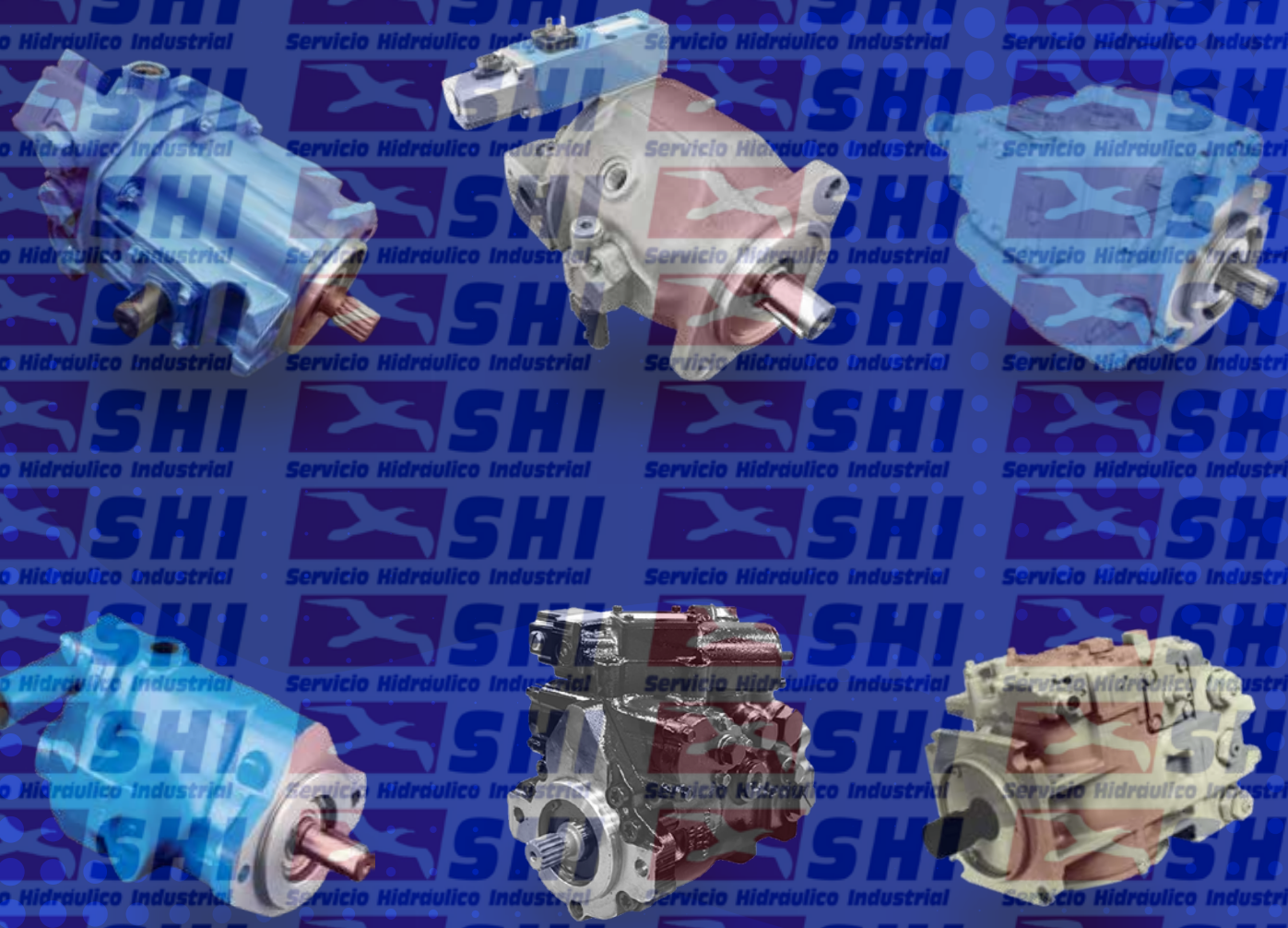
SHI
Servicio Hidráulico Industrial



BOMBAS DE PISTONES

BOMBAS DE PISTONES

PVB y PVQ

Bomba de caudal variable y presión compensada.

Capacidad gpm @1800rpm	Presión máx. psi
5	3000
6	2500
10	3000
15	2500
20	3000
29	2500
45	2500

PVE y TA

Bomba de caudal variable y presión compensada.

Capacidad gpm @1800rpm	Presión máx. psi
19	3000
21	3000

PVH

Bomba de caudal variable y presión compensada.

Capacidad gpm @1800rpm	Presión máx. psi
28	4000
36	4000
48	4000
64	4000

Refacciones

BOMBAS DE PISTONES

A10V

Bomba de caudal variable y presión compensada con ajustador de máximo flujo.

Modelo	Capacidad gpm @1800rpm	Presión máx. psi
A10VO18	8.5	5000
A10VO28	13.3	5000
A10VO45	21.5	4600
A10VO71	33.7	5000
A10VO100	47.5	5000
A10VO140	64.4	5000

PV

Bomba de caudal variable y presión compensada con ajustador de máximo flujo.

Modelo	Capacidad gpm @1800rpm	Presión máx. psi
PV16	7.8	3000
PV22	10.5	3000
PV36	16.6	3000
PV46	21.5	3000
PV70	33.3	3000
PV100	47.6	3000

Transmisiones hidrostáticas:

SUNDSTRAND EATON SAUER DANFOSS

Refacciones

Series 20 Axial Piston Pumps

Technical Specification

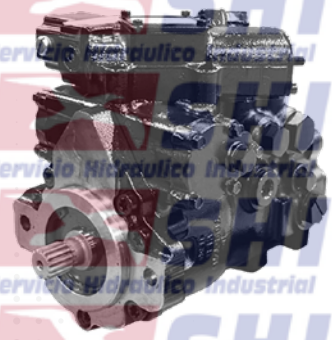
Technical Data

Parameter		Units	Frame size 070	089	334
Max. displacement		cm^3 [in^3]	69.8 [4.26]	89.0 [5.43]	333.7 [20.36]
Charge pump displacement	options	cm^3 [in^3]	18.03 [1.10]		65.50 [4.00]
			12.30 [0.75]		–
Minimum speed		min^{-1} (rpm)	500		
Rated speed 1		min^{-1} (rpm)	3200	2900	1900
Maximum swash plate angle		degree	±18		
Mass moment of inertia of rotating group (without charge pump)		kg $m^2 \cdot 10^{-3}$ [lbf $ft^2 \cdot 10^{-3}$]	12.34 [292.8]	17.77 [421.7]	161.40 [3830.0]
Weight		kg [lb]	63 [139]	78 [172]	270 [595]

[1] for higher speeds contact your Sauer–Danfoss representative.

Series 40 M46 Pumps

Technical Specifications



Model		Unit	M46 Single Pump	M46 Tandem Pump
Displacement		cm^3/rev [in^3/rev]	45.9 [2.80]	45.9 x 2 [2.80 x 2]
Shaft Speed	Minimum	min-1 (rpm)		
	Rated	min-1 (rpm)	4000	
	Maximum	min-1 (rpm)	4100	
System Pressure	Maximum working*	bar [psi]	345 [5000]	
	Maximum		385 [5585]	
	Minimum low loop		10 [145]	
Weight (MDC without aux pad)		kg [lb]	33 [73]	59 [131]
Mass moment of inertia of the rotating components		kg·m^2 [slug·ft^2]	0.0050 [0.0037]	0.0100 [0.0073]
Charge Pressure	Minimum	bar [psi]	6 [87]	
	Maximum		31 [450]	
Control Pressure	Minimum @ corner power	bar [psi]	21.5 [312]	
Case Pressure	Continuous	bar [psi]	1.7 [25]	
	Maximum (cold start)		5.2 [75]	
Inlet Pressure	Rated	bar absolute [inches of Mercury vacuum]	0.8 [6]	
	Minimum		6 [9.2 Maximum]	

* Operation above maximum working pressure is permissible with Danfoss application approval.

Series 90 Axial Piston Pumps

Technical Specification

Features and Options

Feature	Unit	Frame						
		042	055	075	100	130	180	250
Displacement	cm^3/rev. [in^3]/rev.	42 [2.56]	55 [3.35]	75 [4.59]	100 [6.10]	130 [7.93]	180 [10.98]	250 [15.25]
Flow at rated speed (theoretical)	l/min. [US gal/min.]	176 [46]	215 [57]	270 [71]	330 [87]	403 [106]	468 [124]	575 [160]
Torque at maximum displacement (theoretical)	N•m/bar [lbf•in/1000 psi]	0.67 [410]	0.88 [530]	1.19 [730]	1.59 [970]	2.07 [1260]	2.87 [1750]	3.97 [2433]
Mass moment of inertia of rotating components	$kg•m^2$ [$slug•ft^2$]	0.0023 [0.0017]	0.0060 [0.0044]	0.0096 [0.0071]	0.0150 [0.0111]	0.023 [0.0170]	0.0380 [0.0280]	0.0650 [0.0479]
Weight (with control opt. MA)	kg [lb]	34 [75]	40 [88]	49 [108]	68 [150]	88 [195]	136 [300]	154 [340]
Mounting (per ISO 3019-1)		Flange 102-2 (SAE B)	Flange 127-4 (SAE C)			Flange 152-4 (SAE D)	Flange 165-4 (SAE E)	
Rotation		Right hand or Left hand rotation						
Main ports: 4-bolt split-flange (per SAE J518 code 62)	mm [in]	19.05 [0.75]	25.4 [1.0]	25.4 [1.0]	25.4 [1.0]	31.75 [1.25]	31.75 [1.25]	38.1 [1.5]
Main port configuration		Twin port	Twin or side port			Twin port		
Case drain ports (SAE O-ring boss)	UNF thread (in.)	0.875–14	1.0625–12	1.0625–12	1.0625–12	1.3125–12	1.625–12	1.625–12
Other ports		SAE O-ring boss						
Shafts		Splined, and tapered shafts available						
Auxiliary mounting		SAE-A, B, C				SAE-A, B, C, D	SAE-A, B, C, D, E	

Piston Pumps (Industrial)

PVplus High Pressure Industrial Piston Pumps

PVplus piston pumps are ideal for heavy duty industrial applications with operating pressure up to 5000 PSI (350 BAR). These pumps respond quickly to system demands and, with the use of "ripple chamber" technology, are some of the quietest piston pumps available.

- **High strength cast-iron housing**
- **Modular controls**
- **Large control piston for fast response**
- **Thru-shaft option with 100% thru torque capability**
- **Multiple pressure control**
- **Pre-Compression chamber**

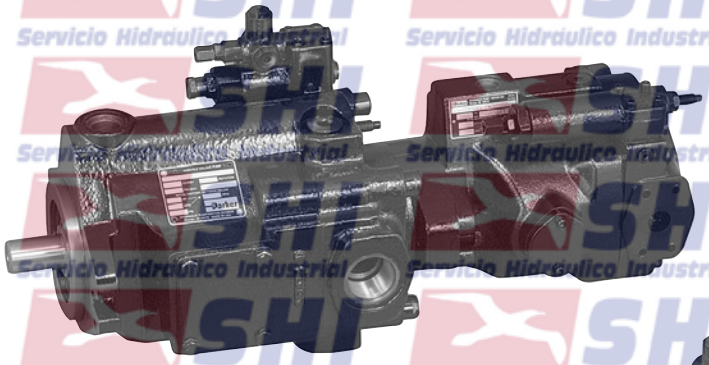
Pump Performance Data

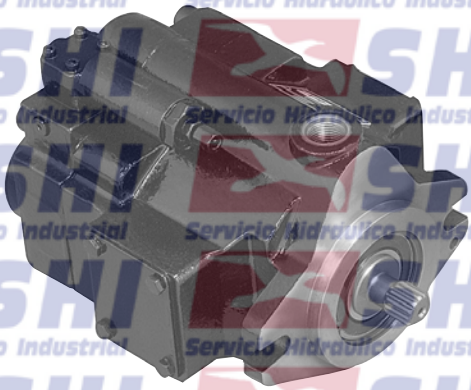
Model Series	Displacement in³/rev (cc/rev)	Max. Outlet Pressure PSI (BAR)	Max Rated Drive Speed RPM	Pump Flow 1800 RPM & 100 PSI GPM (LPM)	Input Horsepower 1800 RPM & 5000 PSI HP (KW)
PV016	0.98 (16)	5000 (350)	3000 RPM	8 (30.3)	25 (18.6)
PV020	1.22 (20)	5000 (350)	3000 RPM	9.5 (36.0)	31 (23.1)
PV023	1.40 (23)	5000 (350)	3000 RPM	11 (41.6)	34 (25.4)
PV028	1.71 (28)	5000 (350)	3000 RPM	13 (49.2)	40 (29.8)
PV032	1.95 (32)	5000 (350)	2800 RPM	15 (56.8)	47 (35.0)
PV040	2.44 (40)	5000 (350)	2800 RPM	19 (71.9)	62 (46.2)
PV046	2.81 (46)	5000 (350)	2800 RPM	22 (83.3)	67 (50.0)
PV063	3.84 (63)	5000 (350)	2800 RPM	30 (113.6)	94 (70.1)
PV080	4.88 (80)	5000 (350)	2500 RPM	38 (143.9)	120 (89.5)

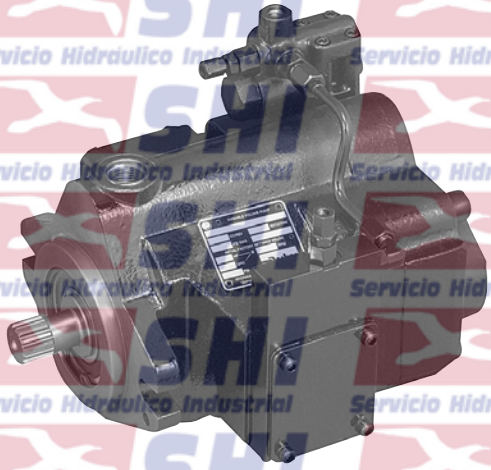
Markets	Applications
Industrial	Presses, Shears, Injection Molding, Aircraft Test Stands, Test Equipment, Simulators
Oil & Gas	Nitrogen Pumpers, Cementers, Coil Tubing, Oil Lift Pumps
Construction	Wheel Loader
Mining	Drill Rigs, Tunneling Equipment
Material Handling	Conveyor Drives, Apron Feeders, Rail Car Tippers, Mixers
Recycling	Shredders, Balers, Compactors

Piston Pumps (Industrial)

Variable Volume Piston Pumps **Series PVP**







Quick Reference Data Chart

Pump Model	Displacement cc/rev (In^3/rev)	Pump Delivery @ 21 bar (300 PSI) in LPM (GPM)		Input Power A 1800 RPM, Max. Displacement & 248 bar (3600 PSI)	Operating Speed (RPM) (Maximum)	Pressure bar (PSI) Continuous (Maximum)
		1200 RPM	1800 RPM			
PVP16	16 (.98)	19.7 (5.2)	29.5 (7.8)	13.1 kw (17.5 hp)	3000	248 (3600)
PVP23	23 (1.4)	28.0 (7.4)	42.0 (11.1)	19.7 kw (26.5 hp)	3000	248 (3600)
PVP33	33 (2.0)	39.4 (10.4)	59.0 (15.6)	27.2 kw (36.5 hp)	3000	248 (3600)
PVP41	41 (2.5)	49.2 (13.0)	73.8 (19.5)	33.2 kw (44.5 hp)	2800	248 (3600)
PVP48	48 (2.9)	57.6 (15.2)	86.4 (22.8)	40.3 kw (54.0 hp)	2400	248 (3600)

SHI
Servicio Hidráulico Industrial

Solución a su Problema Hidráulico en 24 hrs.

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