

HARTMANN

PUMPS - MOTORS - CONTROLS

604 Progress Dr., Hartland, WI 53029 USA

Tel: (262) 367-4299

Fax: (262) 367-5645

Email: sales@hartmanncontrols.com

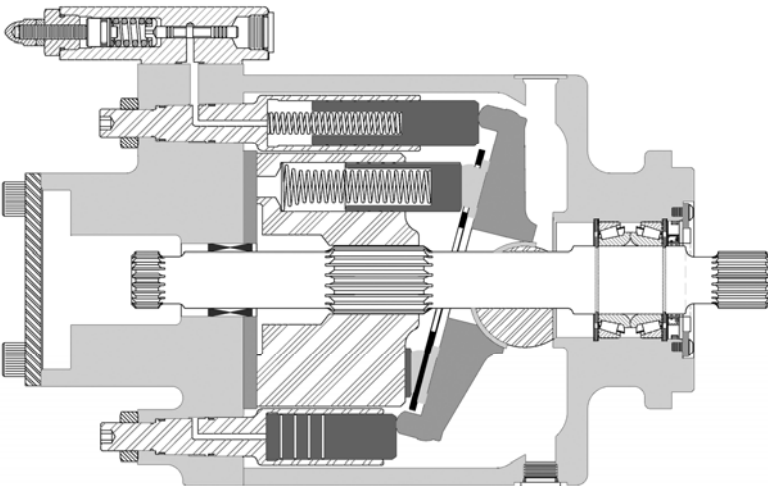
URL: <http://www.hartmanncontrols.com>

FRAME 3

PVX 7112

(112 cm.³/rev.) (7.0 in.³/rev.)

VARIABLE DISPLACEMENT, AXIAL PISTON, SWASH PLATE DESIGN PUMP



Features:

- Offered with a standard SAE 'C' 2- & 4-bolt mount.
- Incorporated in a compact design with rugged ductile iron frame.
- Offered with variety of porting configurations.
- Offered with a variety of drive shaft options.
- Is Service friendly.
- Equipped with Viton shaft seal and O-rings.
- Can be fitted with a variety of control options.
- Equipped with maximum and minimum volume stops. The latter is adjustable.

This versatile PVX pump is aimed at operating in both industrial and mobile applications. With its continuous operating pressures ranging from 500 to 3500 psi, and shaft speeds up to 2200 rpm at atmospheric inlet conditions, this pump is designed for a long and dependable service.



Pumps & Motors with a hart of gold

TM

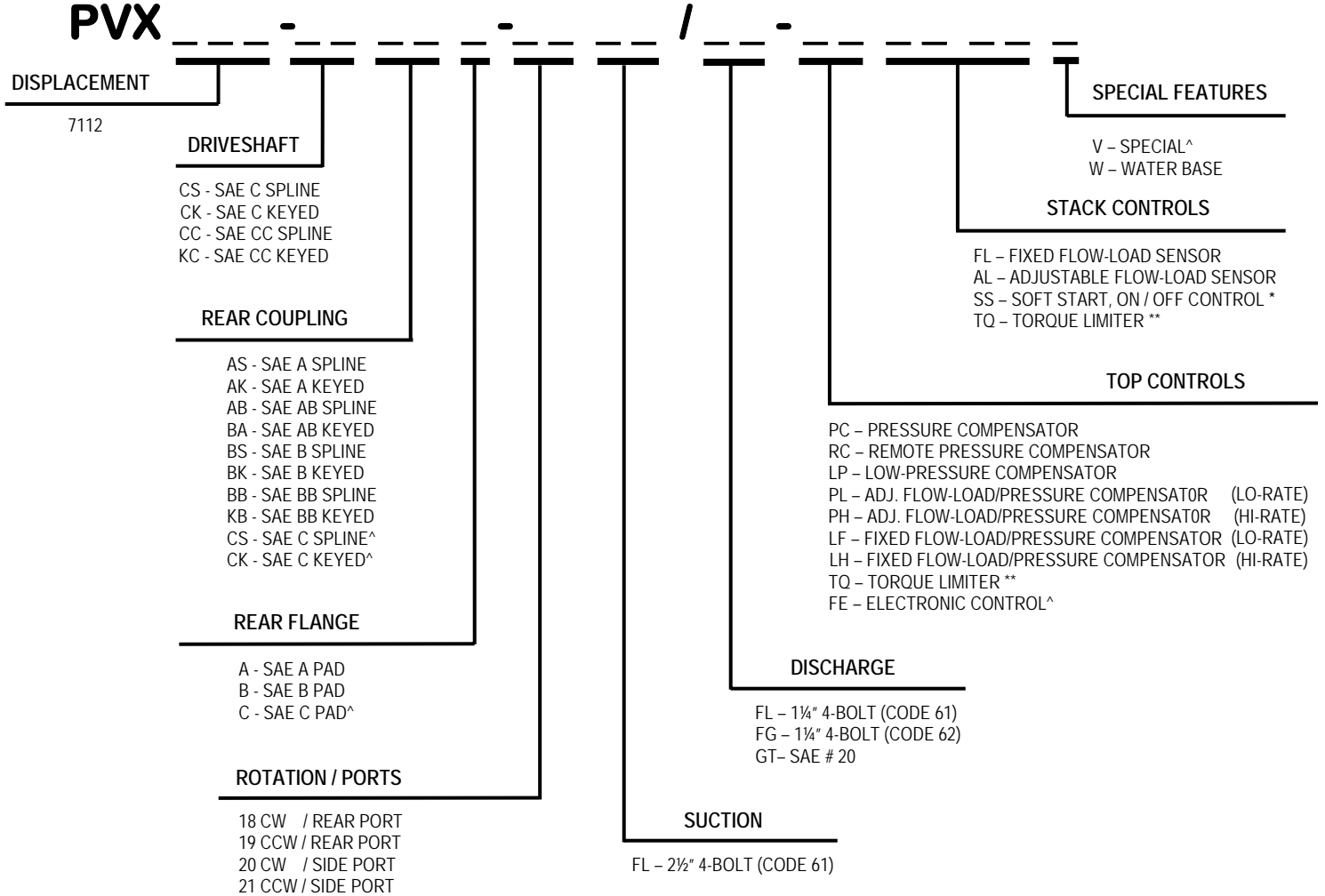
FRAME 3, PVX 7112 SPECIFICATIONS

PVX	RATED PRESSURE	PEAK PRESSURE	MINIMUM PRESSURE	
7112	3500 lb/in² (241 bar)	4250 lb/in² (293 bar)	500 lb/in² (34 bar)	
PVX	DISPLACEMENT	THEORETICAL FLOW @ 1800 rpm	SHAFT SPEED	
			MAXIMUM	MINIMUM
7112	7.0 in³/rev (112 cm ³ /rev)	54.5 gal/min (206.0 l/min)	2200 rpm	600 rpm
PVX	OUTPUT TORQUE @ RATED PRESSURE	SHAFT SIZE	RECOMMENDED TORQUE LIMIT	
7112	3,900 in-lb (439.0 N-m)	SAE C SAE CC	5,500 in-lb (619.4 N-m) 9,500 in-lb (1070.0 N-m)	

Input-shaft torque may not exceed the total of front-pump torque and (if added) rear-mounted units.

MODEL SPECIFICATION CHART

PVX



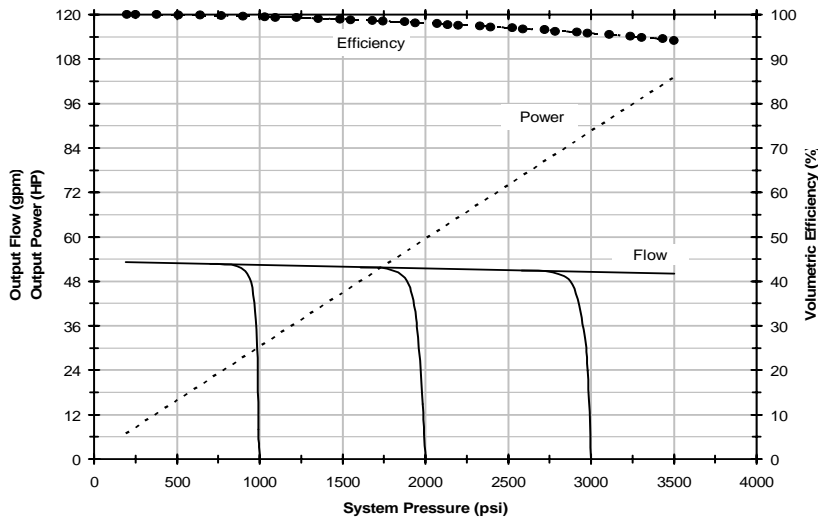
* - SPECIFY VOLTAGE, CONNECTION AND ENERGIZE OPTION

** - SPECIFY TERMINAL PRESSURE AND HORSE POWER

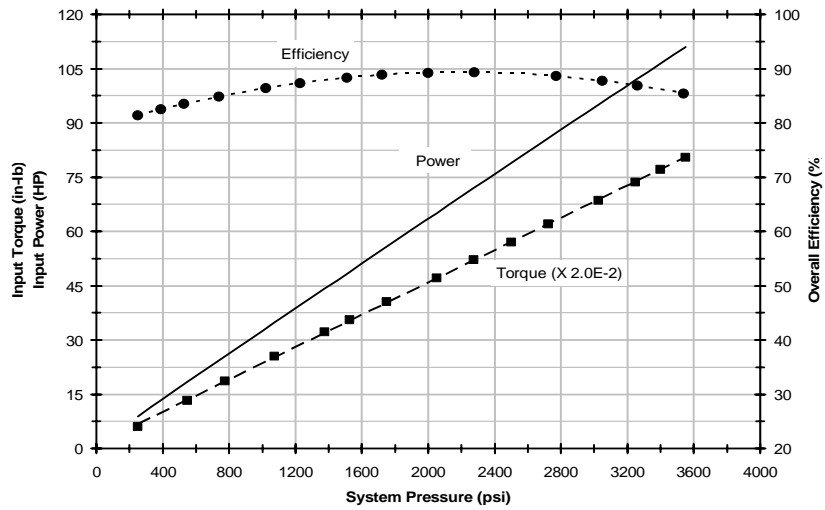
[^] - CONSULT FACTORY

FRAME 3, PVX 7112 PERFORMANCE

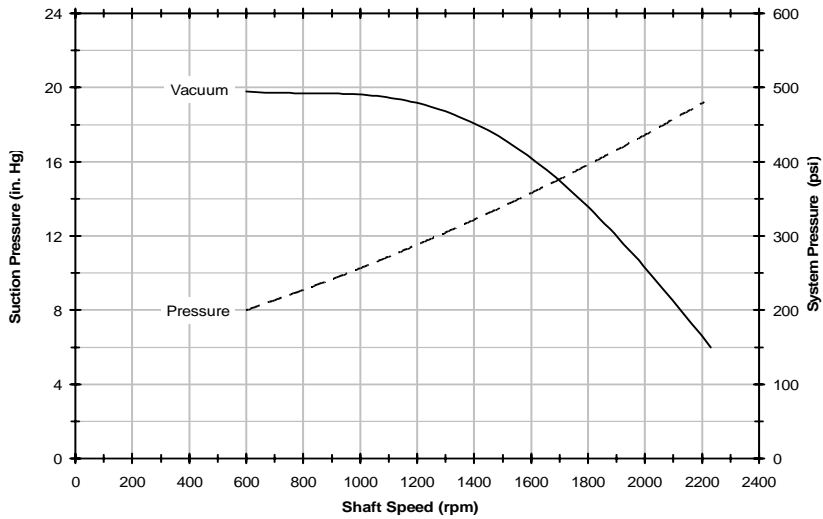
PVX7112 pump performance @ 1750 rpm using ISO 32 oil at 115° F



PVX7112 pump input power curves @ 1750 rpm using ISO 32 oil at 115° F

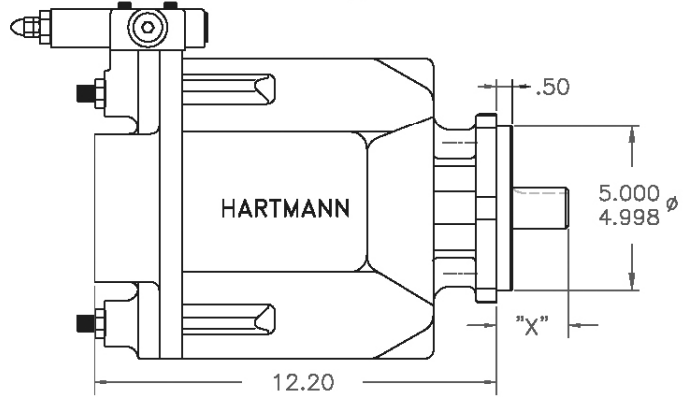
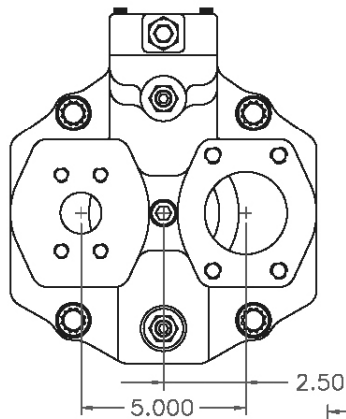
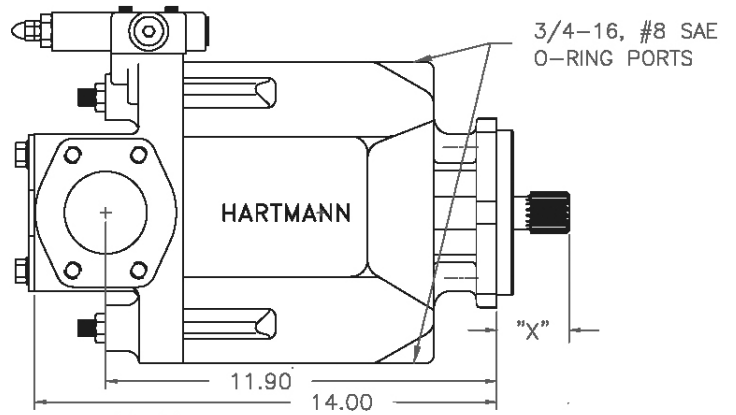
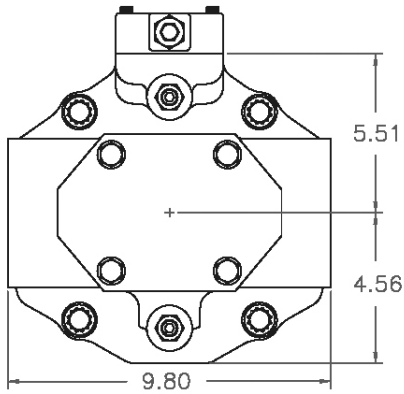


PVX7112 pump inlet characteristics based on ISO 32 Oil @ 115°F

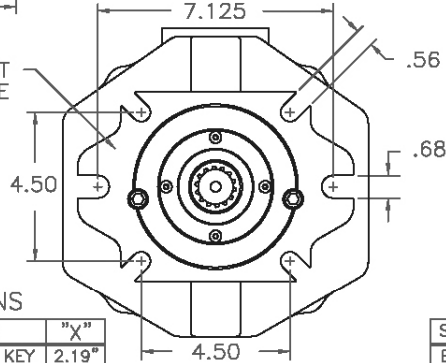


Pump typical weight: Side-Ported 150-155 lbs. Rear-Ported 145 lbs.

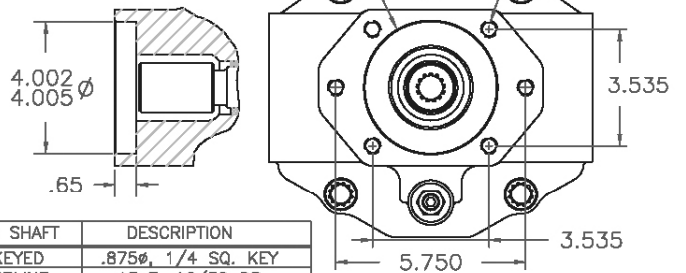
FRAME 3, PVX 7112 DIMENSIONS



SAE 'C' 2- & 4-BOLT FRONT MOUNTING FLANGE



SAE "B" 2 & 4 BOLT MOUNTING FLANGE (6) 1/2-13

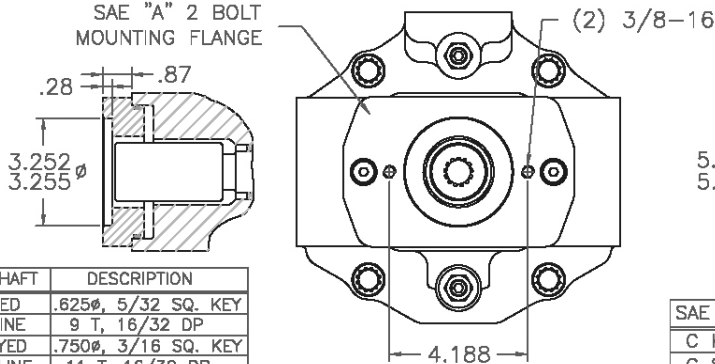


DRIVESHAFT OPTIONS

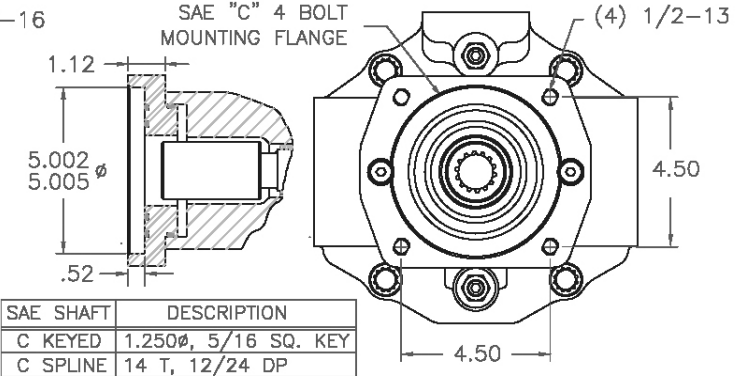
SAE SHAFT	DESCRIPTION	"X"
C KEYED	1.250 ϕ , 5/16 SQ. KEY	2.19"
C SPLINE	14 T, 12/24 DP	2.19"
C-C KEYED	1.500 ϕ , 3/8 SQ. KEY	2.44"
C-C SPLINE	17 T, 12/24 DP	2.44"

SAE SHAFT	DESCRIPTION
B KEYED	.875 ϕ , 1/4 SQ. KEY
B SPLINE	13 T, 16/32 DP
B-B KEYED	1.000 ϕ , 1/4 SQ. KEY
B-B SPLINE	15 T, 16/32 DP

SAE "A" 2 BOLT MOUNTING FLANGE



SAE "C" 4 BOLT MOUNTING FLANGE (4) 1/2-13



SAE SHAFT	DESCRIPTION
A KEYED	.625 ϕ , 5/32 SQ. KEY
A SPLINE	9 T, 16/32 DP
AB KEYED	.750 ϕ , 3/16 SQ. KEY
AB SPLINE	11 T, 16/32 DP

SAE SHAFT	DESCRIPTION
C KEYED	1.250 ϕ , 5/16 SQ. KEY
C SPLINE	14 T, 12/24 DP