

HARTMANN

PUMPS - MOTORS - CONTROLS

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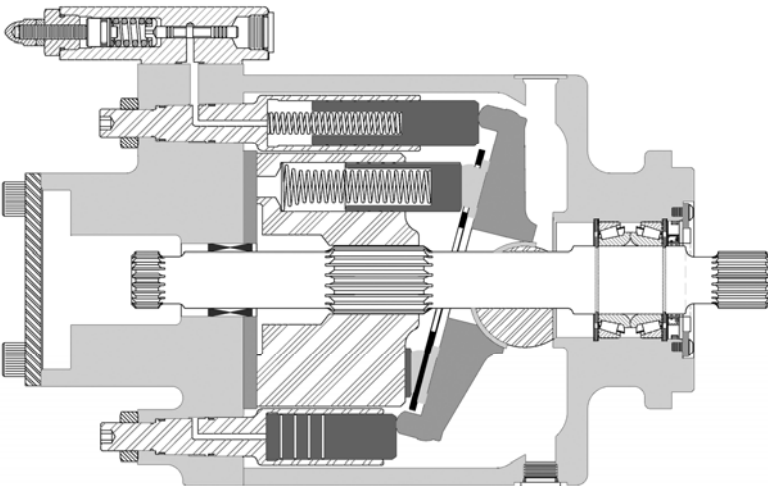
URL: <http://www.hartmanncontrols.com>

FRAME 3

PVX 10160

(160 cm.³/rev.) (10.0 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 3750 psi, and shaft speeds up to 2000 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 10160 SPECIFICATIONS

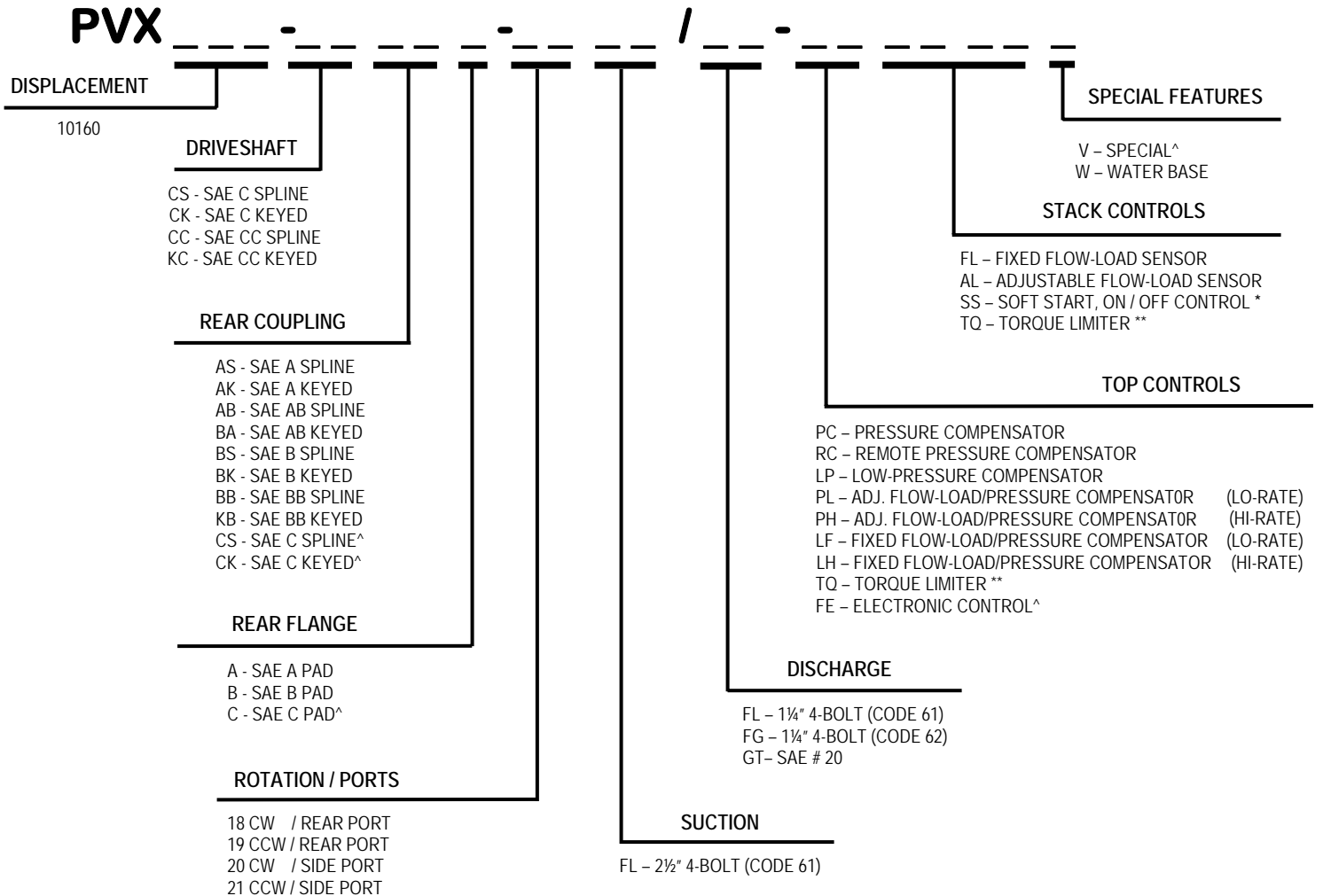
PVX	RATED PRESSURE	PEAK PRESSURE	MINIMUM PRESSURE	
10160	3850 lb/in² (265 bar) ^	4500 lb/in² (310 bar)	500 lb/in² (34 bar)	
PVX	DISPLACEMENT	THEORETICAL FLOW @ 1800 rpm	SHAFT SPEED	
			MAXIMUM	MINIMUM
10160	10.0 in³/rev (160 cm ³ /rev)	74.0 gal/min (280.0 l/min) ^	2000 rpm ^	700 rpm
PVX	OUTPUT TORQUE @ RATED PRESSURE	SHAFT SIZE	RECOMMENDED TORQUE LIMIT	
10160	6,128 in-lb (690.0 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.

^ Consult Factory

MODEL SPECIFICATION CHART

PVX

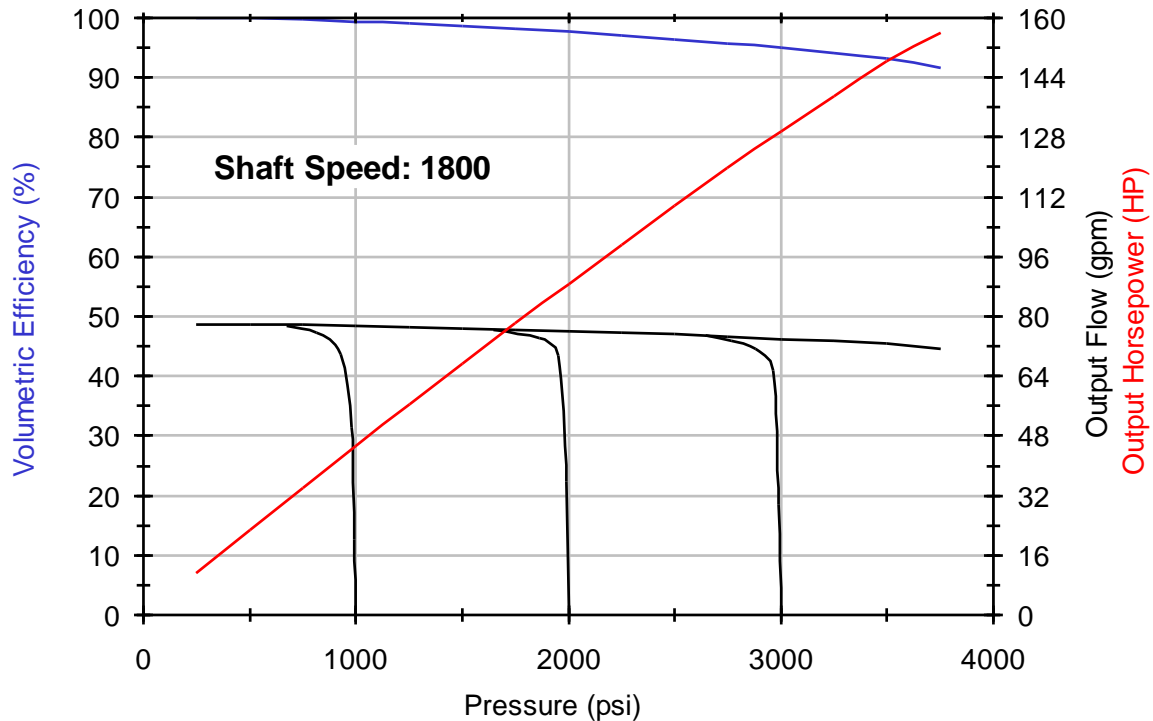


* - SPECIFY VOLTAGE, CONNECTION AND ENERGIZE OPTION

** - SPECIFY TERMINAL PRESSURE AND HORSE POWER

^ - CONSULT FACTORY

Performance Data Obtained Using ISO 32 Oil @ 115° F



Operating Viscosities:

For petroleum-based fluids the optimal level is 150 SUS. For continuous operations, the level should range from 60 to 5000 SUS.

Filtration:

A minimum of 10 micron (abs.) filtration is required. A return line filter is preferred. Bypass filtration and suction filters/strainers are not recommended. Fluid cleanliness should conform to ISO 16/13 level.

Inlet Conditions and Piping:

The maximum temperature at the inlet should be 140° F. For higher levels consult factory. Inlet pipe, hose or tubing must be sized properly to limit resistance to < 6 in. Hg (3 psi). Suction hose, if used, must be wire reinforced to prevent its collapse. All connections must be air-tight.

Case Drain:

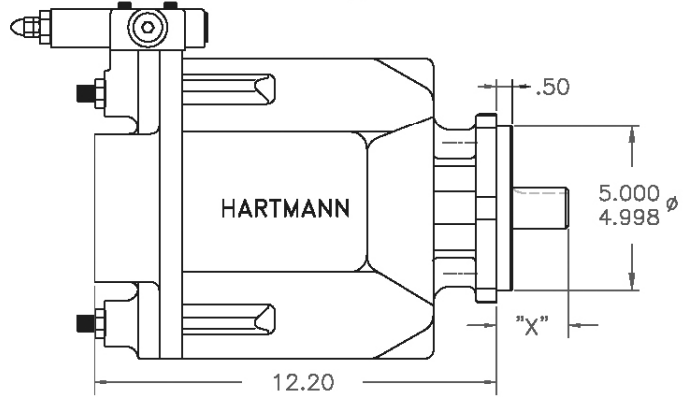
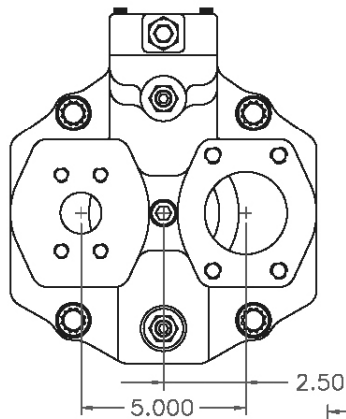
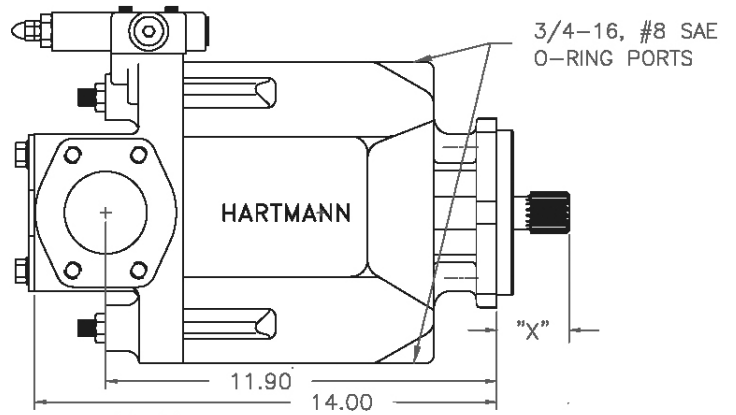
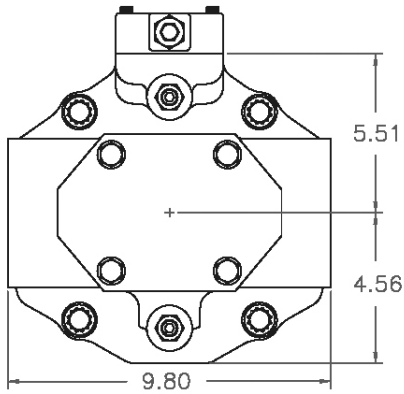
Two case-drain ports are provided on all models. The case-drain line must be properly sized to limit port back-pressure to < 25 psi.

Tandem Pumps:

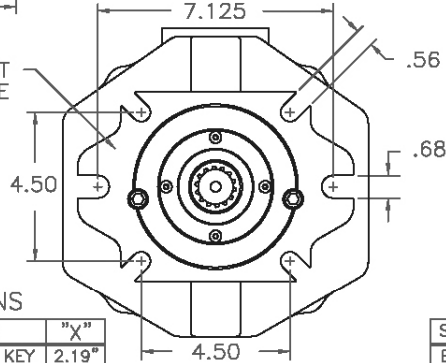
All side-ported models can be modified to tandem pumps by adding a thru-drive shaft and a coupling. In addition, adapter flanges can increase or reduce flange pilots. Consult factory for details.

Pump approximate weight: 160 lbs.

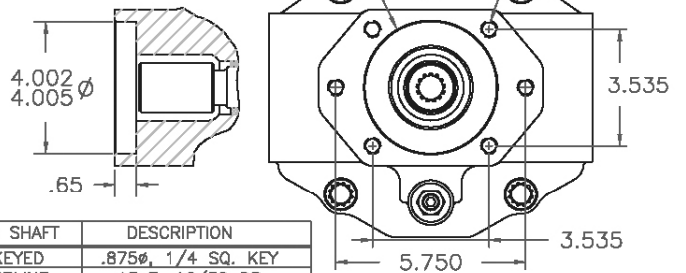
FRAME 3, PVX 10160 DIMENSIONS



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



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

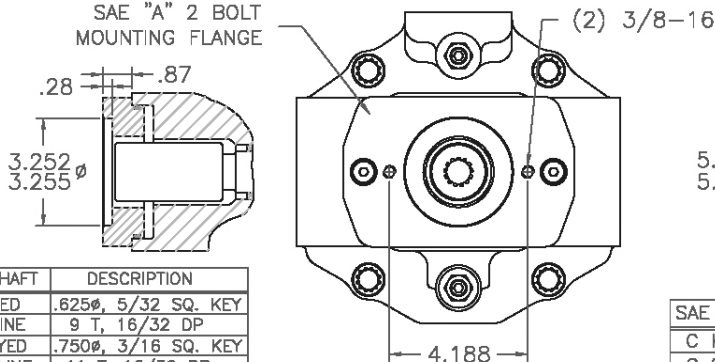


DRIVESHAFT OPTIONS

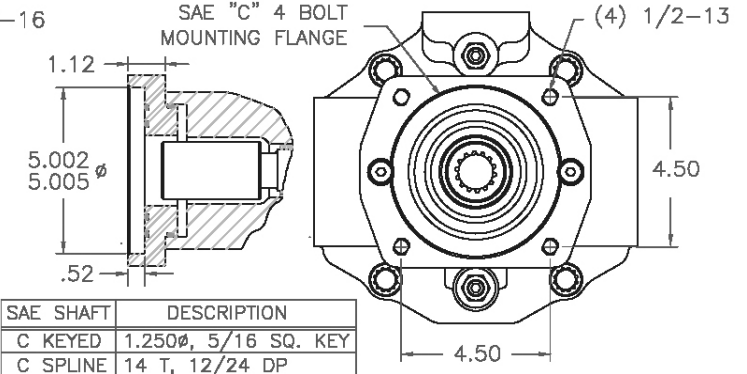
SAE SHAFT	DESCRIPTION	"X"
C KEYED	1.250 ϕ , 5/16 SQ. KEY	2.19"
C SPLINE	14 T, 12/24 DP	2.19"
C-C KEYED	1.500 ϕ , 3/8 SQ. KEY	2.44"
C-C SPLINE	17 T, 12/24 DP	2.44"

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