

ZEUS HYDRATECH LTD
Global Suppliers of Premium Hydraulic Components

Official UK Distributor for Continental Hydraulic Components
T: +44(0)1172 130042. E: sales@zeushydratech.com. W: zeushydratech.com

PVX-75 VANE PUMPS

VARIABLE DISPLACEMENT, PRESSURE COMPENSATED



NOTE: See pages 31 and 32 for PVX-75 dimensions.

PERFORMANCE SPECIFICATIONS

Displacement (Nominal)	10.0 in ³ /rev. (164 cm ³ /rev.)
Displacement (Actual)	10.0 in ³ /rev. (164 cm ³ /rev.)
Flow at 1750 rpm*	75.76 gpm (286.7 l/min.)
Maximum pressure	2500 psi (170 bar)
Maximum pressure - high cycle applications	2500 psi (170 bar)
Pressure compensating range	Two stage 350-2500 psi (24-170 bar)
Maximum transient spike pressure	4000 psi (280 bar)
Maximum case pressure	10 psi (0.7 bar)
Speed range	1150 - 1800 rpm
Direction of rotation (viewed shaft end)	Right hand (clockwise)
Case drain flow	1000 psi (70 bar) 1.7 gpm (6.4 l/min.)
while compensating	2000 psi (140 bar) 2.3 gpm (8.7 l/min.)
at 1800 rpm	3000 psi (210 bar) 3.1 gpm (11.7 l/min.)
Maximum inlet vacuum at sea level	6 inches Hg (152 mm Hg)
Mounting - SAE 2 bolt flange (ISO 3019/1)	S.A.E 'D' - 2 bolt flange
Mounting position	Unrestricted
Port sizes	Inlet 2-1/2" S.A.E.
	Outlet 1-1/2" S.A.E.
	Case drain #8 S.A.E.
	Remote control (optional) #4 S.A.E.
Fluid viscosity at operating temperature	Minimum 150 SUS (32 cSt)
	Maximum 1000 SUS (216 cSt)
	Optimum 200-300 SUS (43-65 cSt)
	Maximum start-up 4000 SUS (864 cSt)
Seals	Standard fluorocarbon

Response time (Circuit dependent)	Full flow to minimum flow	20-50 ms
Response time (Circuit dependent)	Minimum flow to full flow	250 - 500 ms - two stage compensator
Weight	Single stage	240 lbs. (109 kg)
	Two stage	248 lbs. (112.7 kg)

* Flows are actual. Volumetric efficiencies shown in technical data are taken into account.

OTHER SPECIFICATIONS

• **DRIVE** - Pump to be connected to prime mover by means of a flexible coupling that is aligned to a maximum of .006" (.152 mm) total indicator reading. No overhung or side loads permitted. Alignments greater than .006" (.152 mm) indicator reading could cause increased noise and vibration as well as premature shaft seal wear resulting in leakage.

• **FLUID RECOMMENDATIONS** - A premium quality hydraulic oil with anti-wear additives is required.* Consult factory for use with water base fire resistant fluids.

* Such as Mobil DTE-26, or similar, for pressures over 2000 psi (140 bar).

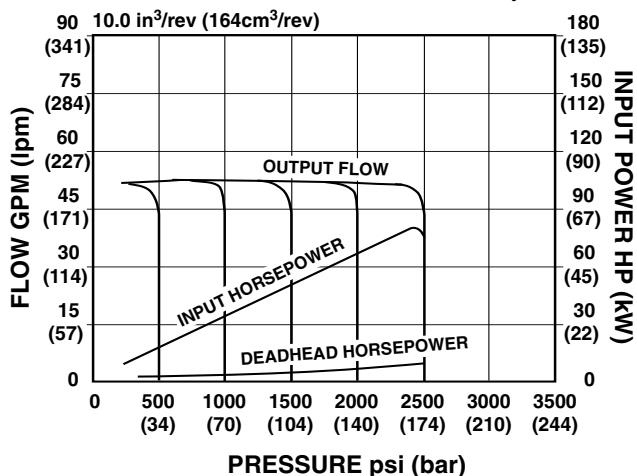
• **FLUID TEMPERATURE** - Normal inlet fluid temperature should not exceed 140° F. (60° C.). Always select a fluid for optimum viscosity at operating temperature. Consult factory for applications assistance when inlet fluid temperatures over 140° F. (60° C.) are expected.

• **FILTRATION** - Fluid cleanliness per ISO/DIS 4406 should be 18/15 or better for pressures of 2000 psi (140 bar) or less. For continuous operating pressures of 2000 to 3000 psi (140 to 210 bar), fluid cleanliness should be 17/13 or better.

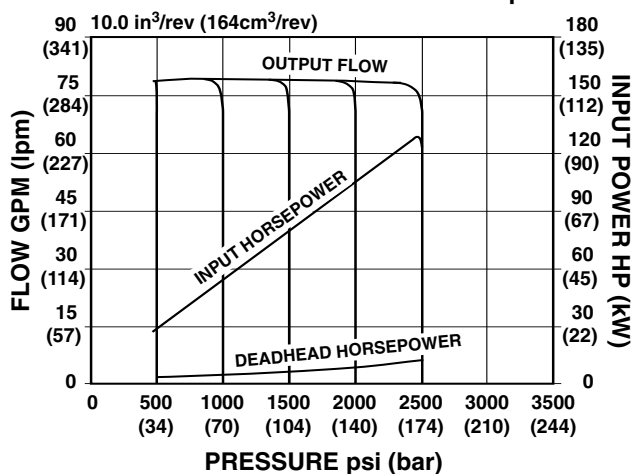
PVX-75 VANE PUMPS

VARIABLE DISPLACEMENT, PRESSURE COMPENSATED

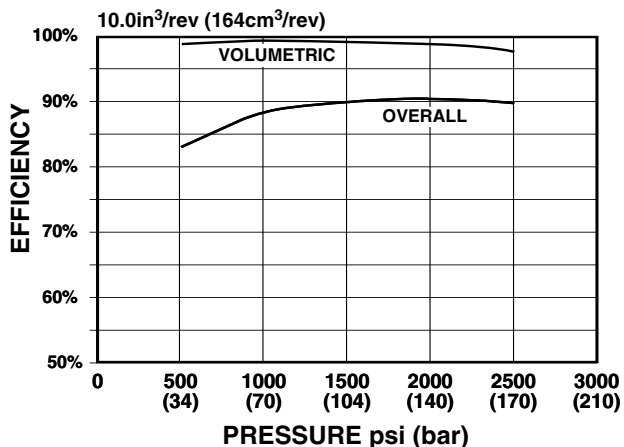
OUTPUT FLOW & POWER @ 1200 rpm



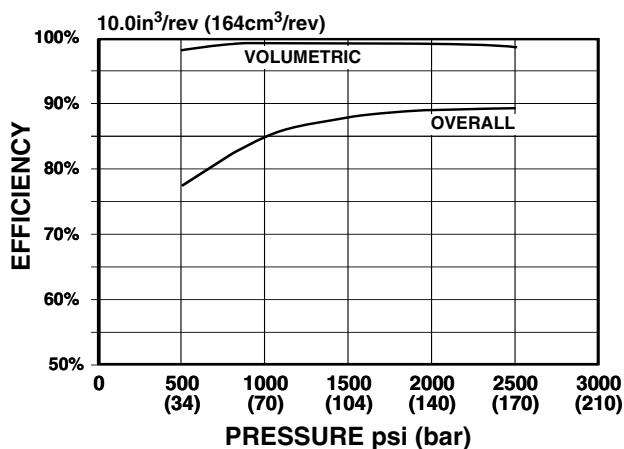
OUTPUT FLOW & POWER @ 1800 rpm



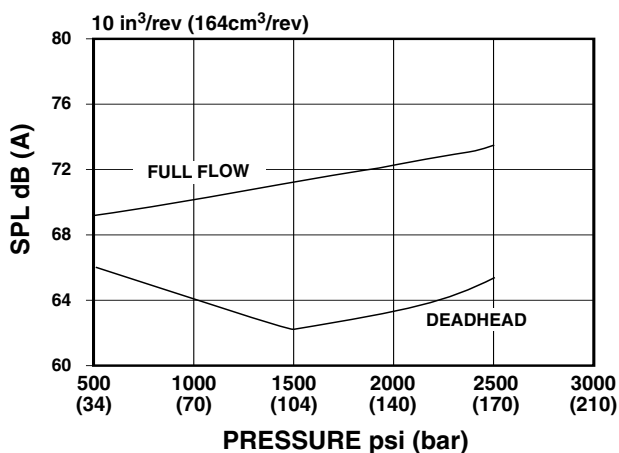
EFFICIENCY @ 1200 rpm



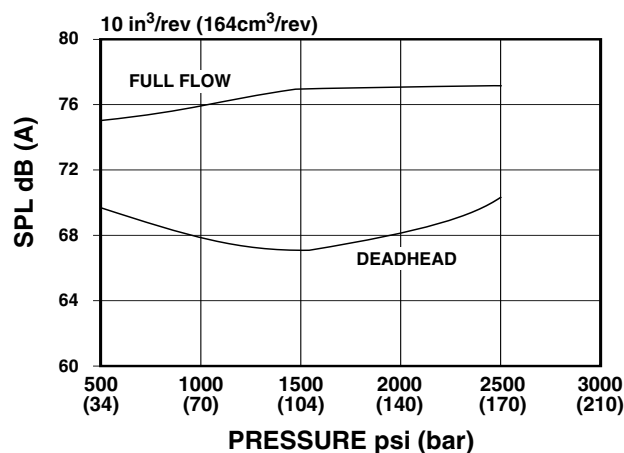
EFFICIENCY @ 1800 rpm



SOUND PRESSURE @ 1200 rpm



SOUND PRESSURE @ 1800 rpm



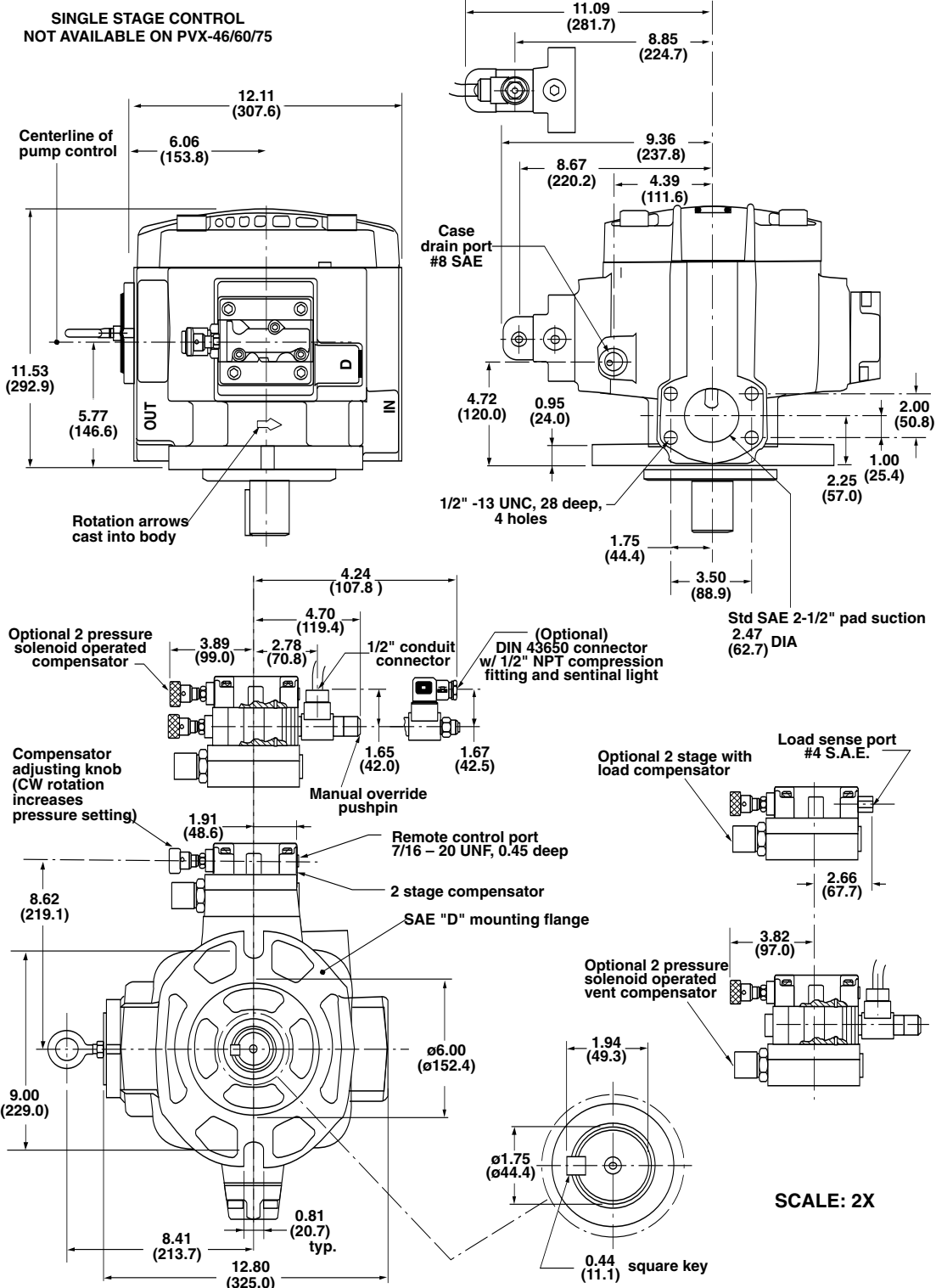
Sound pressure levels measured in a hemi-anoich chamber with microphone placed one (1) meter away at discrete locations. Sound pressure levels are spacially and time-weighted averaged.

PVX-46/60/75 VANE PUMPS

VARIABLE DISPLACEMENT, PRESSURE COMPENSATED

S.A.E. 'D' Flange, RH Rotation

INCHES
(millimeters)

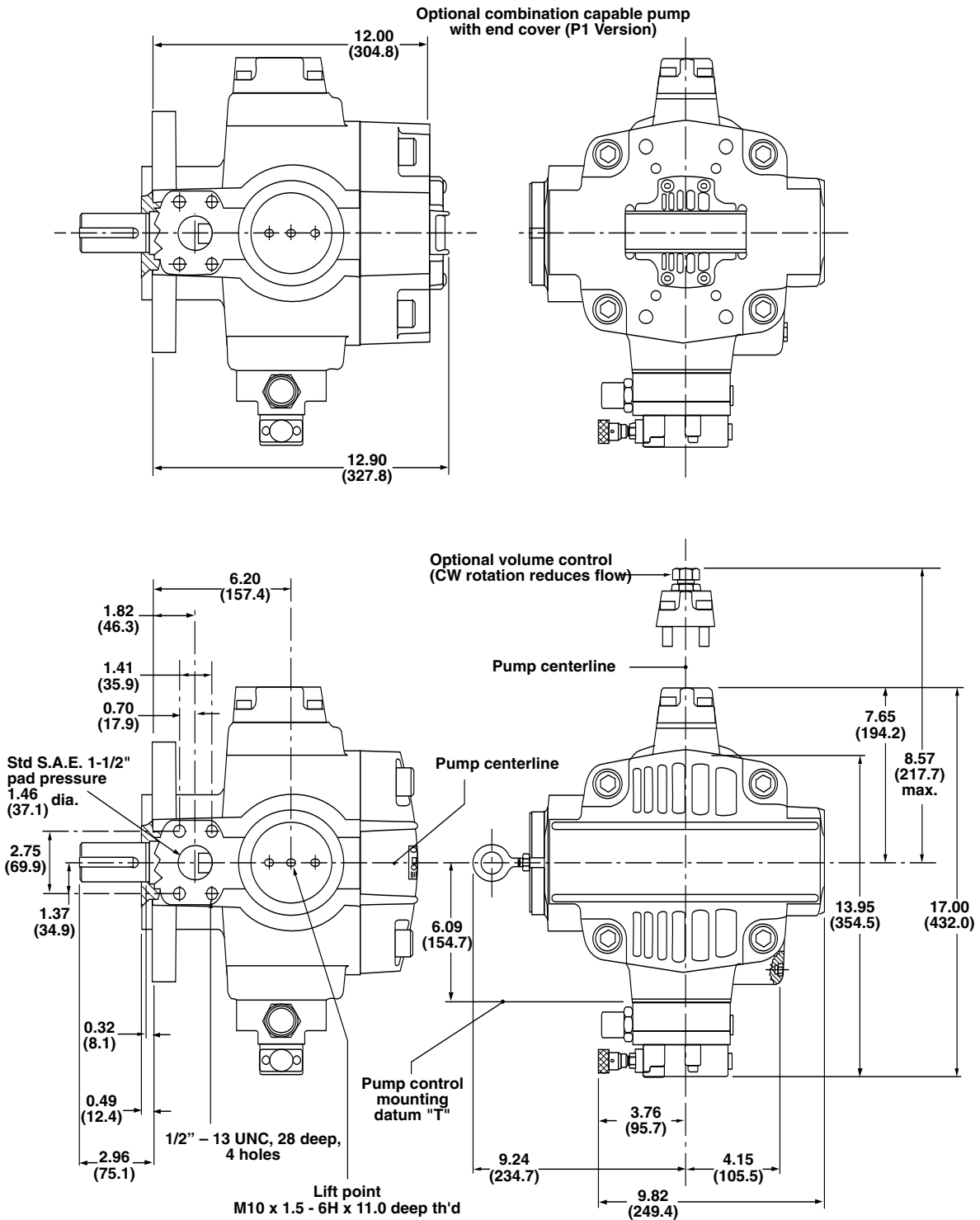


PVX-46/60/75 VANE PUMPS

VARIABLE DISPLACEMENT, PRESSURE COMPENSATED

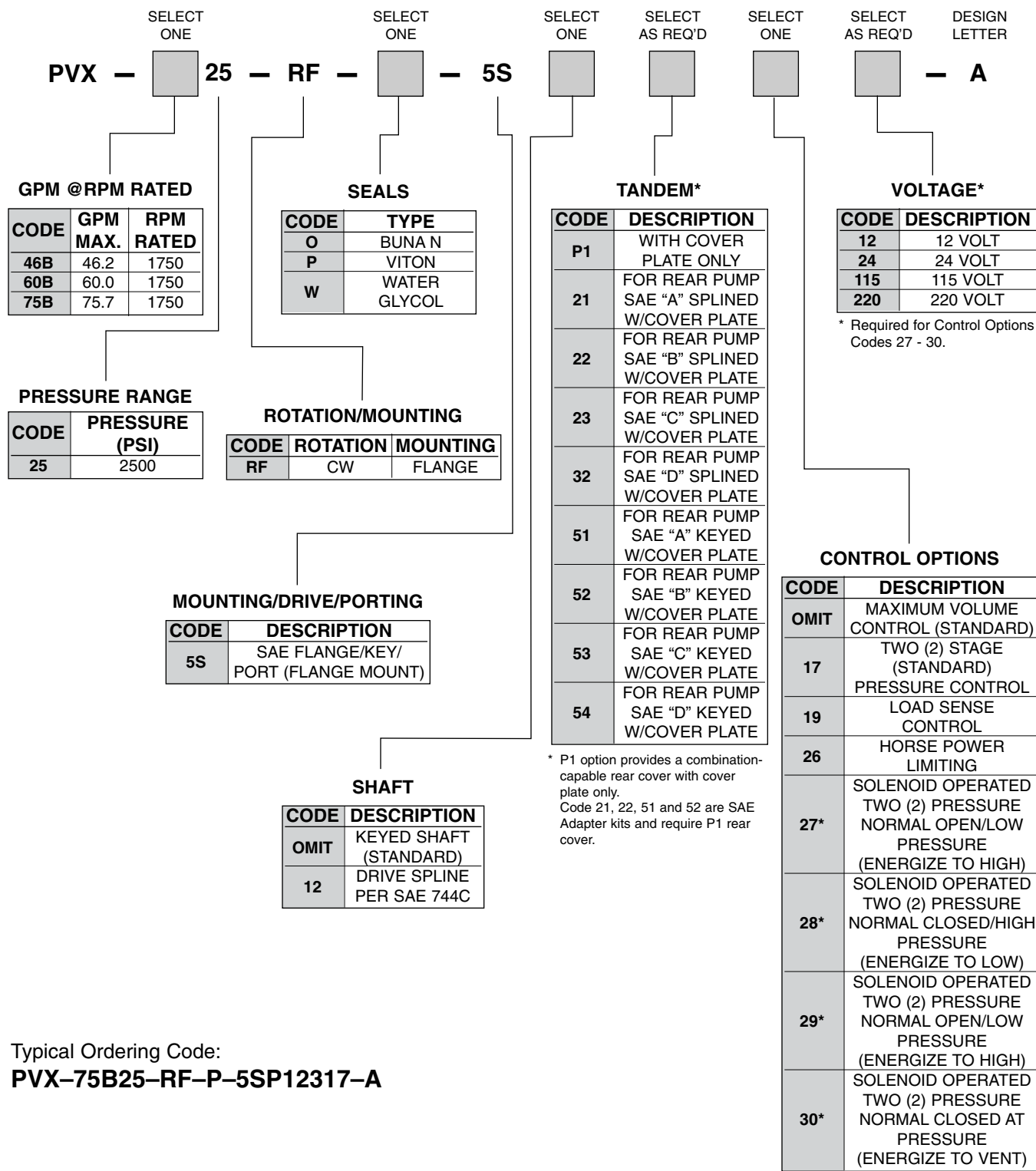
S.A.E. 'D' Flange, RH Rotation

INCHES
(millimeters)



PVX-46/60/75 VANE PUMPS

VARIABLE DISPLACEMENT, PRESSURE COMPENSATED



* P1 option provides a combination-capable rear cover with cover plate only. Code 21, 22, 51 and 52 are SAE Adapter kits and require P1 rear cover.

* Required for Control Options Codes 27 - 30.

* Requires voltage selection.

Typical Ordering Code:

PVX-75B25-RF-P-5SP12317-A



Our international sales network covers every jurisdiction. Our global shipping partners mean you can be sure we're on hand whenever you need us.

Zeus Hydratech Ltd

Unit 35
Old Mills Industrial Estate
Paulton
Bristol, BS39 7SU
United Kingdom

T. +44 (0) 1172 130042
E: info@zeushydratech.com
W. www.zeushydratech.com