



OILGEAR™



PVG

PUMPS

AXIAL PISTON PUMPS

High performance in medium & heavy duty applications



PVG-180 shown





WHO WE ARE

For more than a century, Oilgear has been devoted to developing innovative solutions that help our customers increase productivity. We are committed to creating sustainable products and services that benefit everyone. Our durable, reliable, and high-performance products make us a leader in the oil and gas, mobile, and industrial markets. Our engineering team is dedicated to providing economic and sustainable value to our customers. Our products and solutions are easy to maintain and are designed to deliver exceptional results on the job site. We are dedicated to providing customer support throughout the lifespan of our products, so you can count on us to deliver value every step of the way.



THE OILGEAR DIFFERENCE

At Oilgear, we are driven by our guiding principles that align with our vision, values, and mission. These principles inspire us to work together as a team towards shared objectives. Our unwavering dedication to upholding these principles in every interaction with our colleagues and customers is the key to our success.

OUR VISION

To be the go-to partner for engineered hydraulic solutions and services within mission-critical markets and applications.

OUR MISSION

To move, elevate, protect and improve lives throughout the world and communities where we work and live.

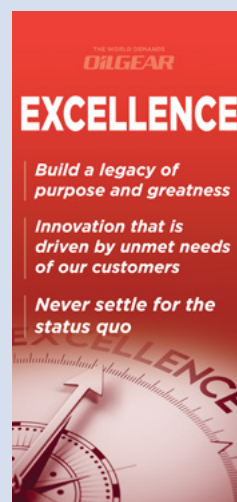
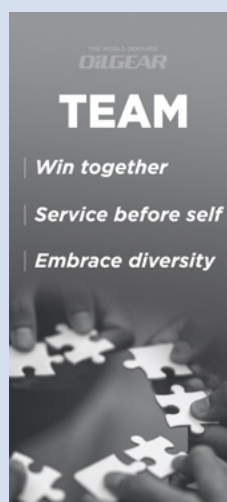
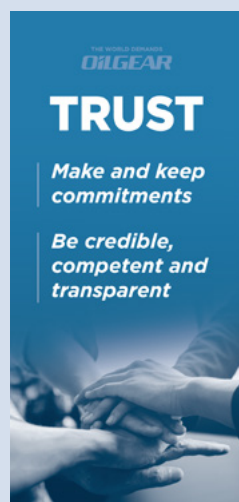


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Industries Served:



Construction



Waste Disposal



Material Handling



Agriculture



Military



Marine



Mining

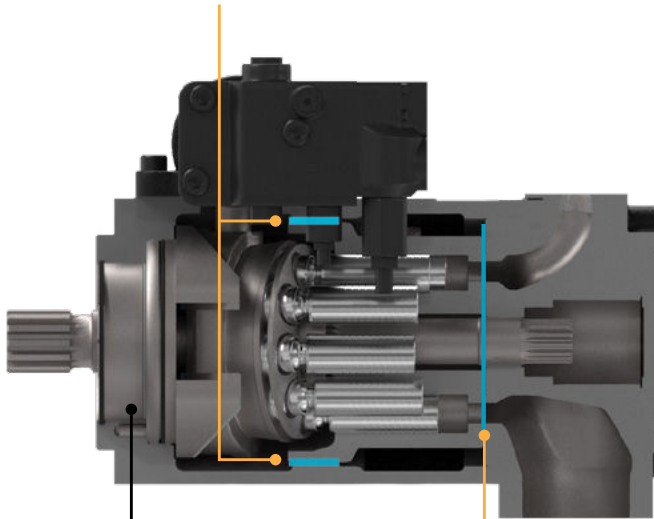


Energy

Improved Speed and Flow Performance

PVG takes the best industrial pump ideas from PVWJ, and builds on them with a 4-way control, heavy-duty rotating groups, and next-generation control modules.

HYDRODYNAMIC BEARING



SAE HEAVY-DUTY SHAFT
AND WITH SEALED BEARINGS

HARDENED
RUNNING SURFACES

ULTIMATE RELIABILITY

Modular design ensures PVG offers customer the solutions they need. Shafts can be replaced without disassembling the pump. Control modules are interchangeable.

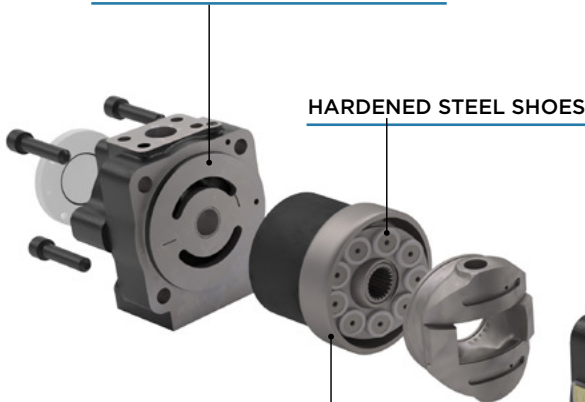
ULTIMATE LONGEVITY

Hard-on-Hard technology, Hydrobearing support, and a 4-way control piston combine in PVG to offer our customers the ultimate in rugged reliability.

ULTIMATE PERFORMANCE

A 4-way control helps PVG shift quickly, and follow its control signal accurately. Years of diligent design development creates a PVG line that operates efficiently, even at 5,000 psi.

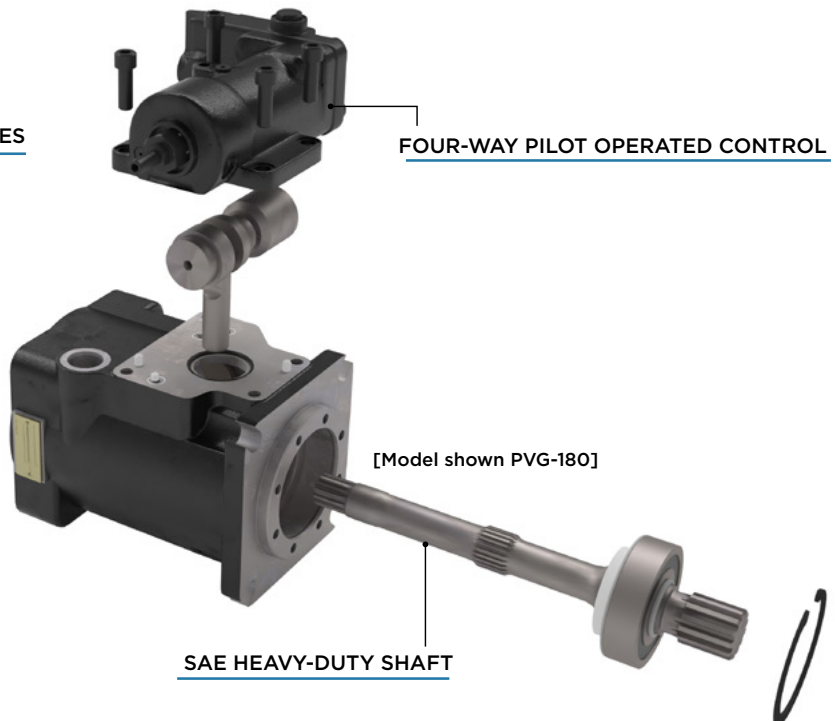
"HARD-ON-HARD" TECHNOLOGY



HARDENED STEEL SHOES

RUGGED CYLINDER DESIGN

FOUR-WAY PILOT OPERATED CONTROL



[Model shown PVG-180]

SAE HEAVY-DUTY SHAFT

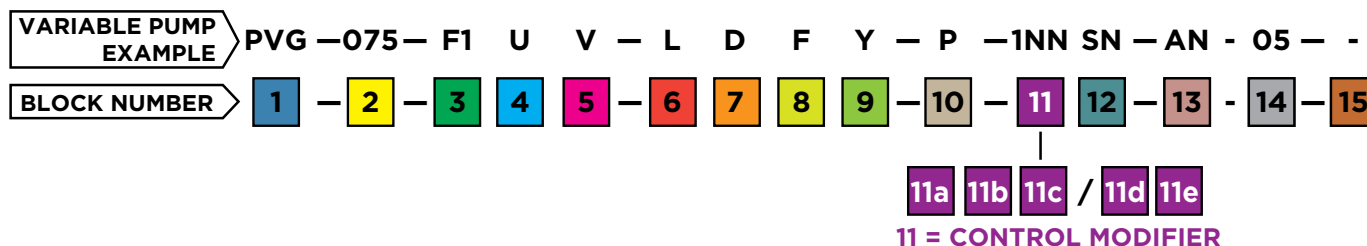
PVG FAMILY SPECIFICATIONS

FRAME SIZE MODEL			B-FRAME			C-FRAME		D-FRAME	
			PVG-048	PVG-065	PVG-075	PVG-100	PVG-130	PVG-150	PVG-180
DRIVE	Maximum (RPM)		2700	2700	2700	2400	2400	2400	2400
	Minimum (RPM)		600	600	600	600	600	600	600
	Torque to turn shaft (ft. lbs.)		9	9	9	24	24	40	50
	Rotational Moment of Inertia (lbs.-in ²)		21	21	21	50	47	150	152
OUTPUT ¹	Pressure (PSI)	Peak	5800	5800	4250	5800	4250	5800	5800
		Continuous	5000	5000	3750	5000	3750	5000	5000
		Minimum	100	100	100	100	100	100	100
	Nominal Volume (GPM) at 1800 RPM, Rated Pressure and Full Displacement		21.1	28.8	33.3	42.4	57.6	63.0	78.0
CASE ²	Maximum Pressure (PSI) w/ Standard Shaft Seal		25	25	25	25	25	25	25
	Case Drain Port Size		#16 SAE	#16 SAE	#16 SAE	#16 SAE	#16 SAE	#16 SAE	#16 SAE
CONTROLS ³	Minimum Pressure (PSI)	Pressure Controls - Minimum Compensator Setting	250	250	250	250	250	250	250
		Volume Controls (VS, VM) - Minimum Pilot Pressure	500	500	500	500	500	500	800
	Maximum Pilot Pressure (PSI)	Volume Control - VS	600	600	600	600	600	600	N/A
		Volume Control - VM	1000	1000	1000	1000	1000	1000	1000
	Stroking Rate (msec) at Rated Pressure, Pressure Controls (Minimum)	On Stroke	40	40	40	40	40	45	45
		Off Stroke	50	50	50	50	50	60	60
	Volume Controls (VS, VM)	On Stroke	250	250	250	250	250	250	250
		Off Stroke	250	250	250	250	250	250	250
FLUID ⁴	Viscosity (SSU)	Minimum	65	65	65	65	65	65	65
		Maximum	2000	2000	2000	2000	2000	2000	2000
TEMPERATURE ⁵	Fluid Operating Range (F°) at Inlet		14 to 190	14 to 190	14 to 190	14 to 190	14 to 190	14 to 190	14 to 190
	Fluid Minimum Starting (F°) at Inlet		-40	-40	-40	-40	-40	-40	-40
	Fluid Maximum at Case Drain Port (F°)		230	230	230	230	230	230	230

1. Pumps should not be run at neutral for more than 30 consecutive minutes. For longer times, a 10% minimum stroke should be maintained.
2. Consult Oilgear Technical Sales for higher pressures.
3. Fastest possible time, stroking times may be slower depending on conditions. Consult Oilgear Technical Sales.
4. See "Additional Notes" in Technical Bulletin 847019-D for filtration and contamination levels.
5. Minimum and maximum viscosities must be observed.

PVG | MODEL ORDERING INFORMATION

B-FRAME: PVG -048, -065, -075



1 = UNIT, TYPE & DESIGN SERIES	
PVG	PVG Variable Displacement Pump

2 = UNIT TYPE	
048	48 ml/rev. (2.93 cipr)
065	65 ml/rev. (3.96 cipr)
075	75 ml/rev. (4.60 cipr)

3 = DESIGN SERIES	
F1	Current for all displacement

4 = DESIGN SERIES MODIFIER	
U	SAE Connections & Mounting

5 = SEALS	
V	Viton (Standard)
B	Buna Nitrile
P	EPR

6 = ROTATION	
L	Left Hand (CCW)
R	Right Hand (CW)

7 = VALVE PLATE TYPE	
G	Top/Bottom Ported, Non-Thru Shaft
D	Top/Bottom Ported, Thru Shaft
S	Rear Ported

8 = CONNECTION TYPE	
F	SAE Flange

9 = INPUT SHAFT TYPE	
Y	25-1 (SAE B-B Keyed)
S	25-4 (SAE B-B Spline)
K	22-4 (SAE B Spline)

10 = CONTROL TYPE	
P	Pressure Compensating

11a = CONTROL OPTIONS	
1	Single Setting
2	Dual PC Settings (3)
C	Single PC with Soft Start N.O. (3)
E	Electronic Displacement N.O. (1)
F	Electronic Displacement N.C. (1)

11b = SOLENOID VOLTAGE	
N	Non-Electrical Control
0	115/60 - 110/50 VAC (3)
2	12 VDC (3)
3	24 VDC (3)
4	12 VDC Mobile with DT04-2P (4)
5	24 VDC Mobile with DT04-2P (4)

11c = CONNECTOR	
N	Non-electrical Control Options or No Connector
W	1/2" NPT with Lite (3)
L	PG-11 with Lite (3)
S	PG-11 without Lite (4)

*S Connector for Type E or F control comes with Oilgear connector amplifier.

11d = MODULE	
Blank unless required option	
F	Load Sense (2)
G	Load Sense w/ Power Limiter (1) (2) (3)
H	Power Limiter (1) (3)
K	Load Sense Plus (1) (2)

11e = INPUT HORSEPOWER @ 1800 RPM	
Blank unless required option	
Example: 070 = 70 HP Input	

LEGEND	
(1)	Not available with Seal Types "B" or "P"
(2)	Not Available with Control Option "2" or "C"
(3)	Not available with "P" Seals
(4)	Only available with Control Option "E" or "F"

12 = VOLUME STOPS	
NN	No Volume Stop
SN	Adjustable Maximum Volume Stop

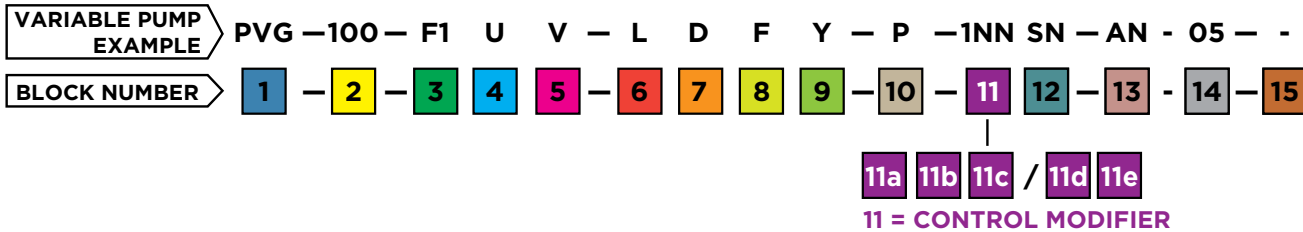
13 = AUXILIARY ADAPTERS	
Required for all thru-shaft units	
Blank for all non-thru-shaft units	
AN	82-2 (SAE A 2-Bolt) Adapter & 16-4 (SAE A) Coupling, 9 Tooth
BN	101-2 (SAE B 2-Bolt) Adapter & 22-4 (SAE B) Coupling, 13 Tooth
CP	Cover Plate
NN	No Cover Plate, Coupling, or Adapter

14 = GEAR PUMPS	
Blank unless required option	
05	8 ml/rev. (0.488 cipr) (3)
07	11 ml/rev. (0.671 cipr) (3)
10	16 ml/rev. (0.976 cipr) (3)
14	23 ml/rev. (1.404 cipr) (3)
20	33 ml/rev. (2.014 cipr) (3)

15 = SPECIAL PUMP MOD	
Assigned by factory if necessary	

For non-standard requests, please contact technical sales.

C-FRAME: PVG-100, -130



1 = UNIT, TYPE & DESIGN SERIES	
PVG	PVG Variable Displacement Pump

2 = UNIT TYPE	
100	100 ml/rev. (6.00 cipr)
130	130 ml/rev. (7.94 cipr)

3 = DESIGN SERIES	
F1	Current for both displacements

4 = DESIGN SERIES MODIFIER	
U	SAE Connections & Mounting

5 = SEALS	
V	Viton (Standard)
B	Buna Nitrile
P	EPR

6 = ROTATION	
L	Left Hand (CCW)
R	Right Hand (CW)

7 = VALVE PLATE TYPE	
G	Top/Bottom Ported, Non-Thru Shaft
D	Top/Bottom Ported, Thru Shaft
S	Rear Ported

8 = CONNECTION TYPE	
F	SAE Flange

9 = INPUT SHAFT TYPE	
Y	38-1 (SAE C-C Keyed)
Z	38-1 (SAE C-C Keyed), 1" Shorter than "Y"
S	38-4 (SAE C-C Spline)
K	32-4 (SAE C Spline)

10 = CONTROL TYPE	
P	Pressure Compensating
V	Electrohydraulic (with feedback)

For Control Type P

11a = CONTROL OPTIONS	
1	Single Setting (Standard)
2	Dual PC Setting (3)
C	Single PC w/ Soft Start, N.O. (3)
E	Electronic Displacement, N.O. (1)
F	Electronic Displacement, N.C. (1)

11b = SOLENOID VOLTAGE	
N	Non-electrical Control Options
0	115/60 - 110/50 VAC (3)
2	12 VDC (3)
3	24 VDC (3)
4	12 VDC Mobile with DT04-2P (4)
5	24 VDC Mobile with DT04-2P (4)

11c = CONNECTOR	
N	Non-electrical Control Options or No Connector
W	1/2" NPT w/Lite (3)
S	PG-11 w/o Lite (4)
L	PG-11 w/Lite (3)

*S Connector for Type E or F control comes with Oilgear connector amplifier.

11d = MODULE	
Blank unless required option	
F	Load Sense (2)
G	Load Sense with Horsepower Limiter (1)(2)(3)
H	Horsepower Limiter (1)(3)
K	Load Sense Plus (1)(2)

11e = INPUT HORSEPOWER @ 1800 RPM	
Blank unless required option	
Example: 070 = 70 HP Input	

For Control Type V

11a = TYPE	
M	Single Stage (1)
S	Two Stage (1)
11b = SIZE	
20	Servo Valve Size 20 (Type M) (1)
25	Servo Valve Size 25 (Type S) (1)

LEGEND	
①	Not available with Seal Types "B" or "P"
②	Not Available with Control Option "2" or "C"
③	Not Available with "P" Seals
④	Only available with Control Option "E" or "F"
⑤	Type "V" Controls Only
⑥	Not Available with Control Type "V"

12 = VOLUME STOPS	
NN	No Volume Stop
SA	Volume Stop, Type "V" Controls Only (5)
SN	Adjustable Maximum Volume Stop, Not Available on Type V Controls (6)

13 = AUXILIARY ADAPTERS	
Required for all thru-shaft units	
Blank for all non-thru-shaft units	
AN	82-2 (SAE A 2-Bolt) Adapter & 16-4 (SAE A) Coupling, 9 Tooth
BB	101-2 (SAE B 2-Bolt) Adapter & 25-4 (SAE B-B) Coupling, 15 Tooth
BN	101-2 (SAE B 2-Bolt) Adapter & 22-4 (SAE B) Coupling, 13 Tooth
CN	127-2 (SAE C 2-Bolt) Adapter & 32-4 (SAE C) Coupling, 14 Tooth
CP	Cover Plate
NN	No Cover Plate, Coupling, or Adapter

14 = GEAR PUMPS	
Blank unless required option	
05	8 ml/rev. (0.488 cipr) (3)
07	11 ml/rev. (0.671 cipr) (3)
10	16 ml/rev. (0.976 cipr) (3)
14	23 ml/rev. (1.404 cipr) (3)
20	33 ml/rev. (2.014 cipr) (3)

15 = SPECIAL PUMP MOD	
Assigned by factory if necessary	

For non-standard requests, please contact technical sales.

D-FRAME: PVG-150

VARIABLE PUMP EXAMPLE PVG - 150 - A1 U V - L D F Y - P - 1NN SN - A2 - 05 - -

BLOCK NUMBER 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15

11a 11b 11c / 11d 11e
11 = CONTROL MODIFIER

1 = UNIT, TYPE & DESIGN SERIES
PVG PVG Variable Displacement Pump

2 = UNIT TYPE
150 150 ml/rev. (9.16 cipr)

3 = DESIGN SERIES
A1 Current

4 = DESIGN SERIES MODIFIER
U SAE Connections & Mounting

5 = SEALS
V Viton (Standard)
B Buna Nitrile
P EPR

6 = ROTATION
L Left Hand (CCW)
R Right Hand (CW)

7 = VALVE PLATE TYPE
G Top/Bottom Ported, Non-Thru Shaft
D Top/Bottom Ported, Thru Shaft

8 = CONNECTION TYPE
F SAE Flange

9 = INPUT SHAFT TYPE
Y 44-1 (SAE D Keyed)
S 44-4 (SAE D Splined)

10 = CONTROL TYPE
P Pressure Compensating
V Electrohydraulic (with feedback)

For Control Type P

11a = CONTROL OPTIONS
1 Single Setting (Standard)
2 Dual PC Settings (3)
C Single PC w/ Soft Start, N.O. (3)
E Electronic Displacement, N.O. (1)
F Electronic Displacement, N.C. (1)

11b = SOLENOID VOLTAGE
N Non-electrical Control Options
0 115/60 - 110/50 VAC (3)
2 12 VDC (3)
3 24 VDC (3)
4 12 VDC Mobile with DT04-2P (4)
5 24 VDC Mobile with DT04-2P (4)

11c = CONNECTOR
N Non-electrical Control or No Connector
W 1/2" NPT w/Lite (3)
S PG-11 w/o Lite (4)
L PG-11 w/Lite (3)

*S Connector for Type E or F control comes with Oilgear connector amplifier.

11d = MODULE
Blank unless required option
F Load Sense (2)
G Load Sense with Power Limiter (1)(2)(3)
H Power Limiter (1)(3)
K Load Sense Plus (1)(2)

11e = INPUT HORSEPOWER @ 1800 RPM
Blank unless required option
Example: 125 = 125 HP Input

For Control Type V

11a = TYPE
M Single Stage (1)
S Two Stage (1)

11b = SIZE
20 Servo Valve Size 20 (Type M) (1)
25 Servo Valve Size 25 (Type S) (1)

LEGEND
(1) Not available with Seal Types "B" or "P"
(2) Not Available with Control Option "2" or "C"
(3) Not Available with "P" Seals
(4) Only available with Control Option "E" or "F"
(5) Type "V" Controls Only
(6) Not Available with Control Type "V"

12 = VOLUME STOPS
NN No Volume Stop
SN Adjustable Max. Volume Stop (6)
SA Adjustable Min Volume Stop (5)

13 = AUXILIARY ADAPTERS
Required for all thru-shaft units
Blank for all non-thru-shaft units
A2 82-2 (SAE A 2-Bolt) Adapter & 16-4 (SAE A) Coupling, 9 Tooth
B2 101-2 (SAE B 2-Bolt) Adapter & 22-4 (SAE B) Coupling, 13 Tooth
C2 127-2 (SAE C 2-Bolt) Adapter & 32-4 (SAE C) Coupling, 14 Tooth
C4 127-4 (SAE C 4-Bolt) Adapter & 32-4 (SAE C) Coupling, 14 Tooth
D4 152-4 (SAE D 4-Bolt) Adapter & 44-4 (SAE D) Coupling, 13 tooth
NN No Cover Plate. Coupling or Adapter
CP Cover Plate

14 = GEAR PUMPS
Blank unless required option
05 8 ml/rev. (0.488 cipr) (3)
07 11 ml/rev. (0.671 cipr) (3)
10 16 ml/rev. (0.976 cipr) (3)
14 23 ml/rev. (1.404 cipr) (3)
20 33 ml/rev. (2.014 cipr) (3)

15 = SPECIAL PUMP MOD
Assigned by factory if necessary

For non-standard requests, please contact technical sales.

PVG | MODEL ORDERING INFORMATION

D-FRAME: PVG-180

VARIABLE PUMP EXAMPLE PVG - 180 - A2 U V - L D F Y - P - 1NN SN - A2 - 05 - -

BLOCK NUMBER 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15

11a 11b 11c / 11d 11e

11 = CONTROL MODIFIER

1 = UNIT, TYPE & DESIGN SERIES	
PVG	PVG Variable Displacement Pump

2 = UNIT TYPE	
180	180 ml/rev. (10.98 cipr)

3 = DESIGN SERIES	
A2	Current

4 = DESIGN SERIES MODIFIER	
U	SAE Connections & Mounting

5 = SEALS	
V	Viton (Standard)
B	Buna Nitrile
P	EPR

6 = ROTATION	
L	Left Hand (CCW)
R	Right Hand (CW)

7 = VALVE PLATE TYPE	
D	Top/Bottom Ported, Thru Shaft

8 = CONNECTION TYPE	
F	SAE Flange

9 = INPUT SHAFT TYPE	
Y	44-1 (SAE D Keyed)
L	44-4 (SAE D Spline)

10 = CONTROL TYPE	
P	Pressure Compensating
V	Electrohydraulic (with feedback)

For Control Type P

11a = CONTROL OPTIONS	
1	Single Setting (Standard)
2	Dual PC Settings (3)
C	Single PC w/ Soft Start, N.O. (3)

11b = SOLENOID VOLTAGE	
N	Non-electrical Control Options
0	115/60 - 110/50 VAC (3)
2	12 VDC (3)
3	24 VDC (3)

11c = CONNECTOR	
N	Non-electrical Control or No Connector
W	1/2" NPT w/Lite (3)
L	PG-11 w/Lite (3)

11d = MODULE	
Blank unless required option	
F	Load Sense (2)
G	Load Sense with Power Limiter (1)(2)(3)
H	Power Limiter (1)(3)
K	Load Sense Plus (1)(2)

11e = INPUT HORSEPOWER @ 1800 RPM	
Blank unless required option Example: 150 = 150 HP Input	

For Control Type V

11a = TYPE	
M	Single Stage (1)

11b = SIZE	
20	Servo Valve Size 20 (1)

LEGEND	
①	Not available with Seal Types "B" or "P"
②	Not Available with Control Option "2" or "C"
③	Not Available with "P" Seals
④	Type "V" Control Only
⑤	Not Available with Control Type "V"

12 = VOLUME STOPS	
NN	No Volume Stop
SN	Adjustable Max. Volume Stop (5)
SA	Adjustable Min Volume Stop (4)

13 = AUXILIARY ADAPTERS	
Required for all thru-shaft units Blank for all non-thru-shaft units	
A2	82-2 (SAE A 2-Bolt) Adapter & 16-4 (SAE A) Coupling, 9 Tooth
B2	101-2 (SAE B 2-Bolt) Adapter & 22-4 (SAE B) Coupling, 13 Tooth
C2	127-2 (SAE C 2-Bolt) Adapter & 32-4 (SAE C) Coupling, 14 Tooth
C4	127-4 (SAE C 4-Bolt) Adapter & 32-4 (SAE C) Coupling, 14 Tooth
D4	152-4 (SAE D 4-Bolt) Adapter & 44-4 (SAE D) Coupling, 13 tooth
NN	No Cover Plate. Coupling or Adapter
CP	Cover Plate

14 = GEAR PUMPS	
Blank unless required option	
05	8 ml/rev. (0.488 cipr) (3)
07	11 ml/rev. (0.671 cipr) (3)
10	16 ml/rev. (0.976 cipr) (3)
14	23 ml/rev. (1.404 cipr) (3)
20	33 ml/rev. (2.014 cipr) (3)

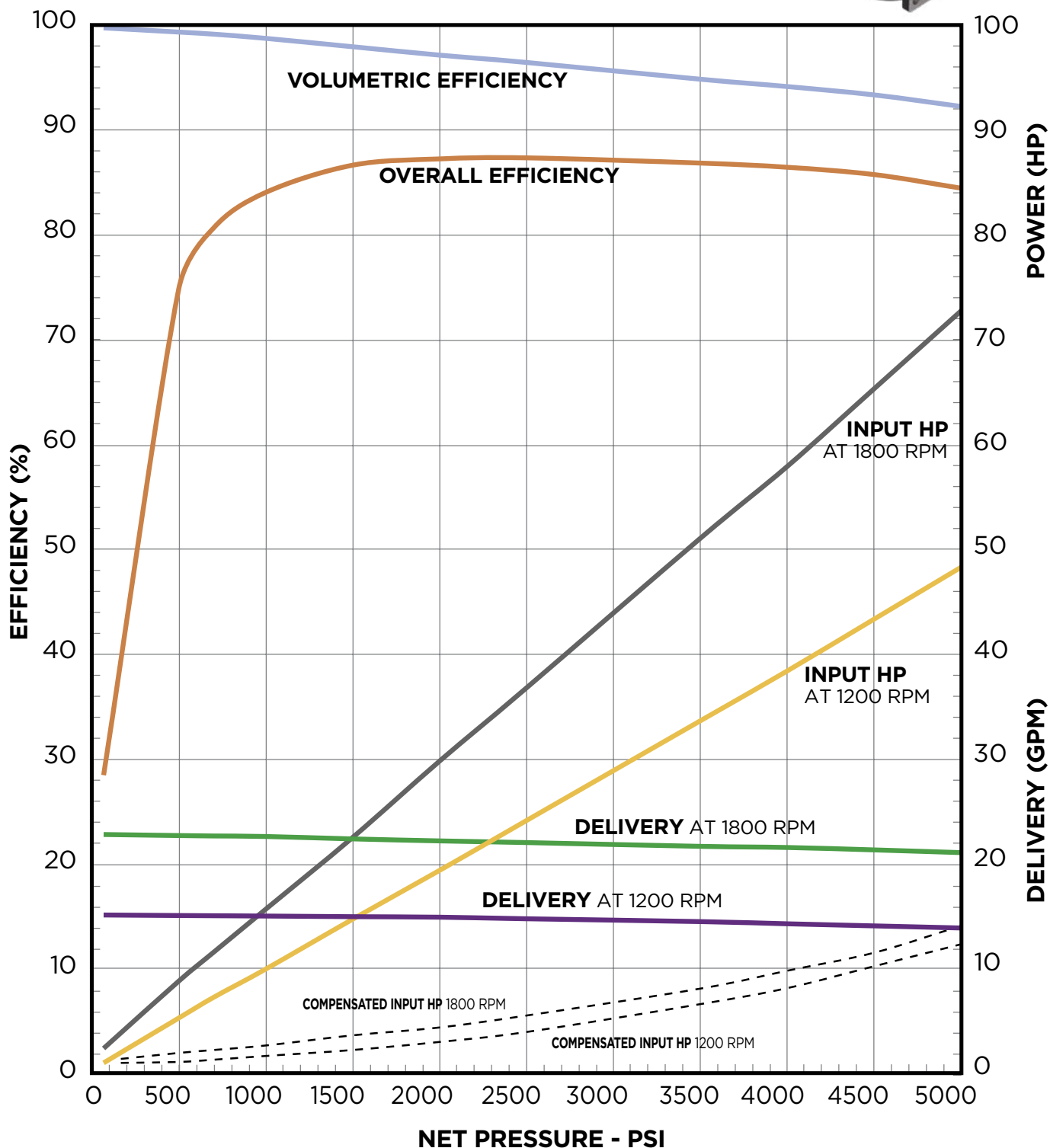
15 = SPECIAL PUMP MOD	
Assigned by factory if necessary	

For non-standard requests, please contact technical sales.

PVG-048 | DISPLACEMENT: 48 CC/REV

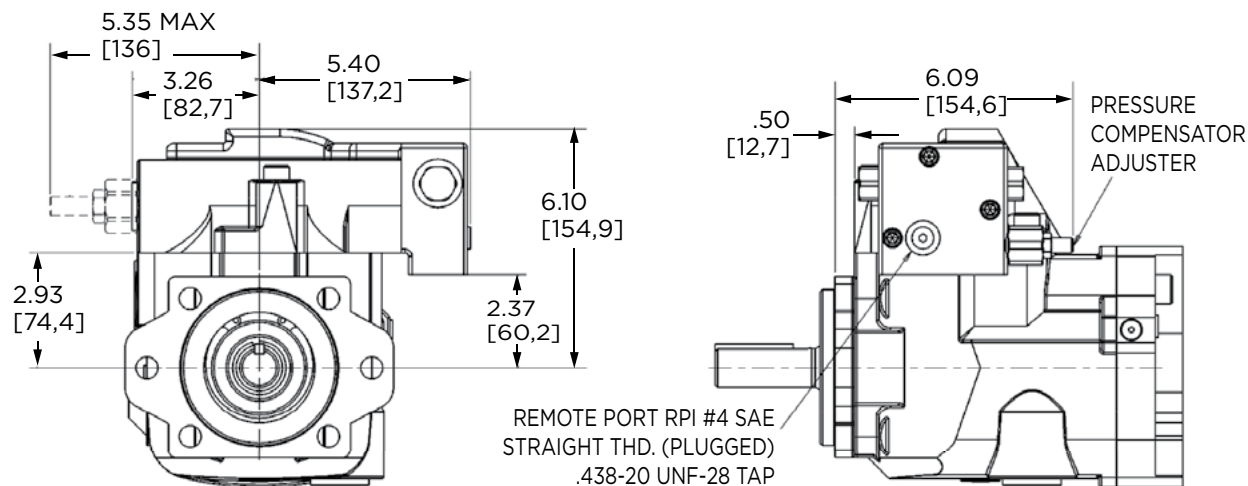
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



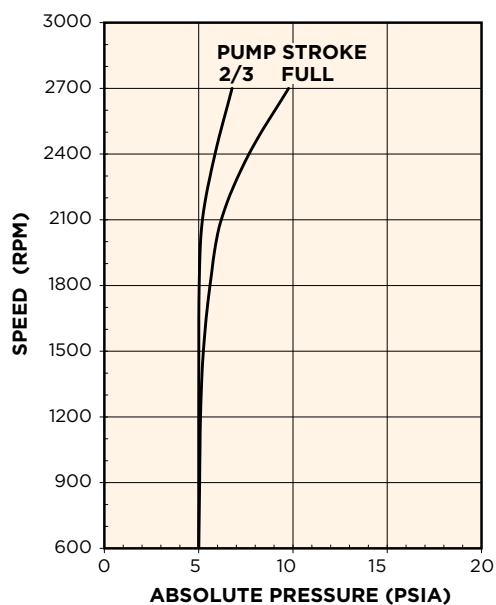
PVG-048 | DISPLACEMENT: 48 CC/REV

DIMENSIONS Inches [mm]

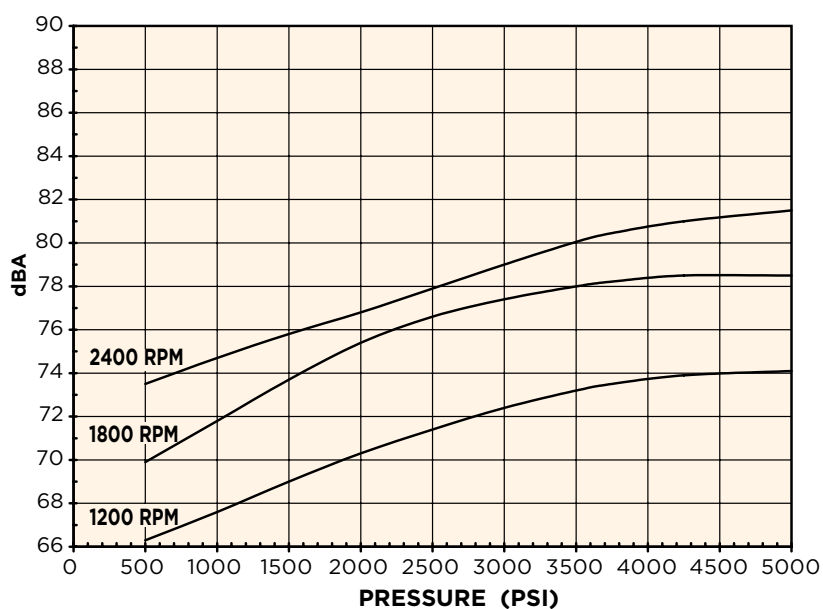


Model shown: PVG-048-F1UV-LSFY-P-1NNSN

INLET DATA



SOUND DATA

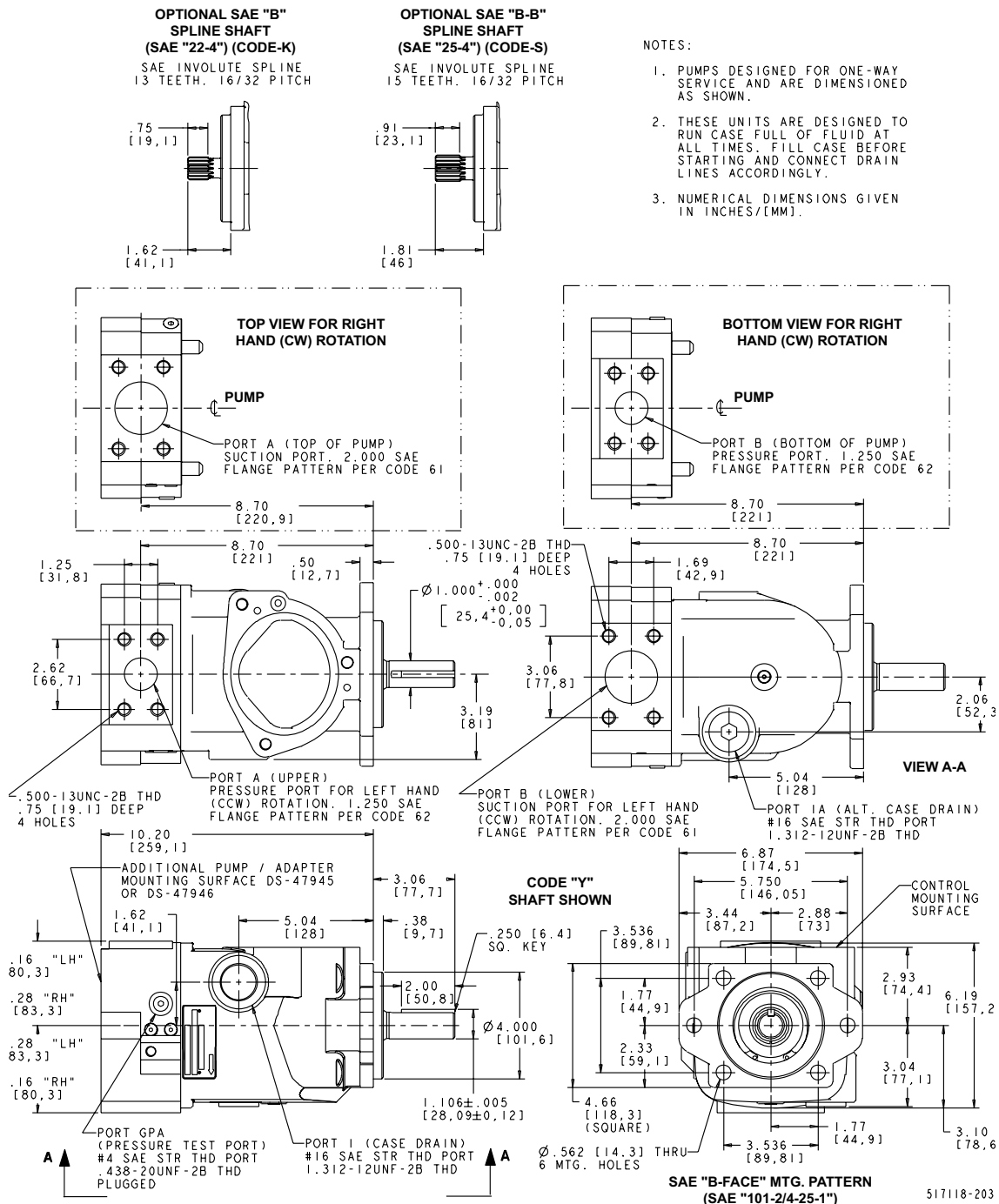


INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE B-B, 1.00" Dia.) 2.0" Long Keyway	3,500
S	Splined (SAE B-B, 15T, 16/32 Pitch)	7,000
K	Splined (SAE B, 13T, 16/32 Pitch)	3,500

3500 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT



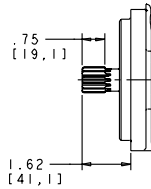
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INSTALLATION DRAWING: BASIC PUMP • REAR PORTED

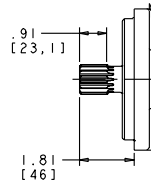
CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE B-B, 1.00" Dia.) 2.0" Long Keyway	3,500
S	Splined (SAE B-B, 15T, 16/32 Pitch)	7,000
K	Splined (SAE B, 13T, 16/32 Pitch)	3,500

OPTIONAL SAE "B"
SPLINE SHAFT
(SAE "22-4") (CODE-K)
SAE INVOLUTE SPLINE
13 TEETH, 16/32 PITCH

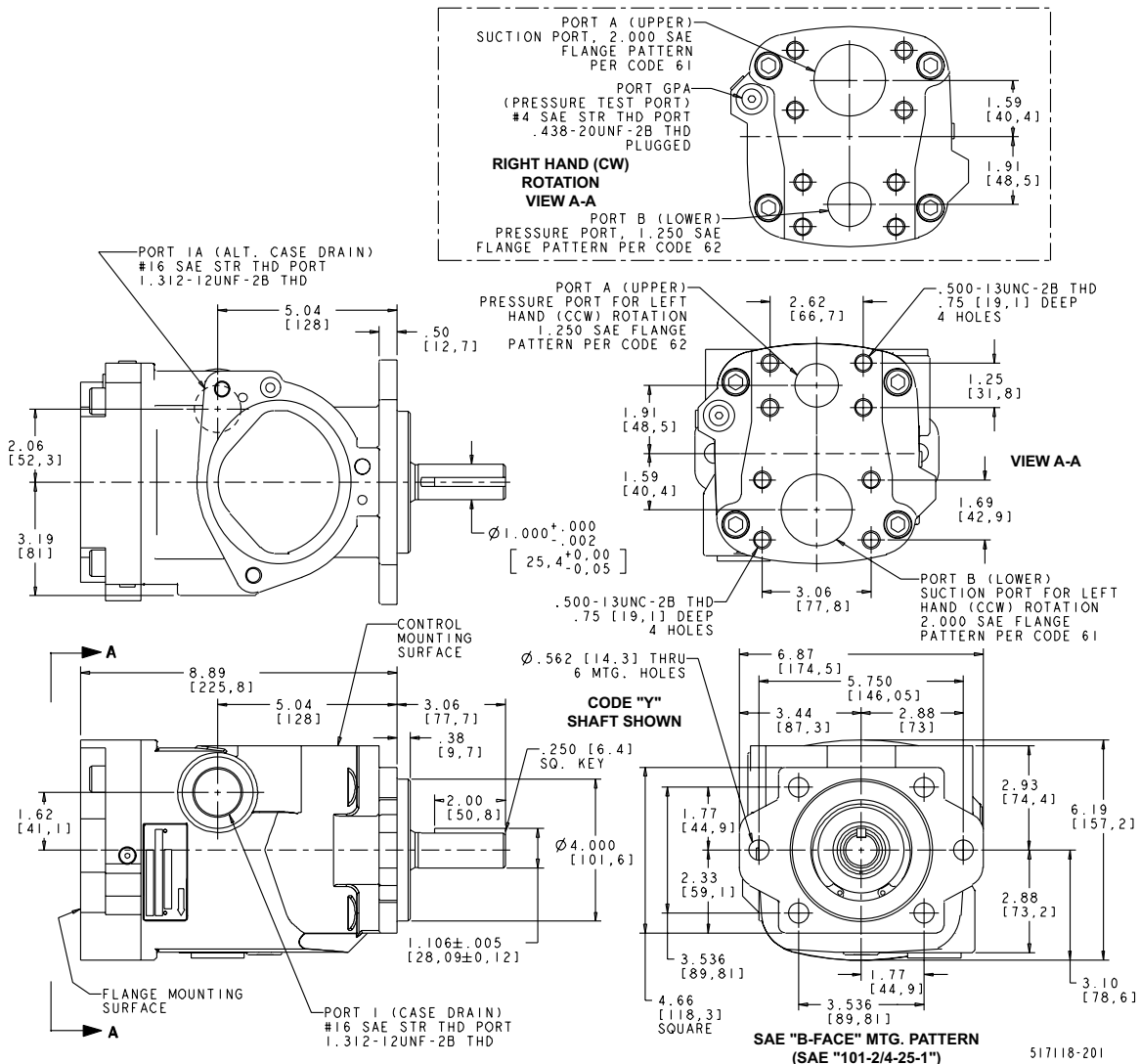


OPTIONAL SAE "B-B"
SPLINE SHAFT
(SAE "25-4") (CODE-S)
SAE INVOLUTE SPLINE
15 TEETH, 16/32 PITCH



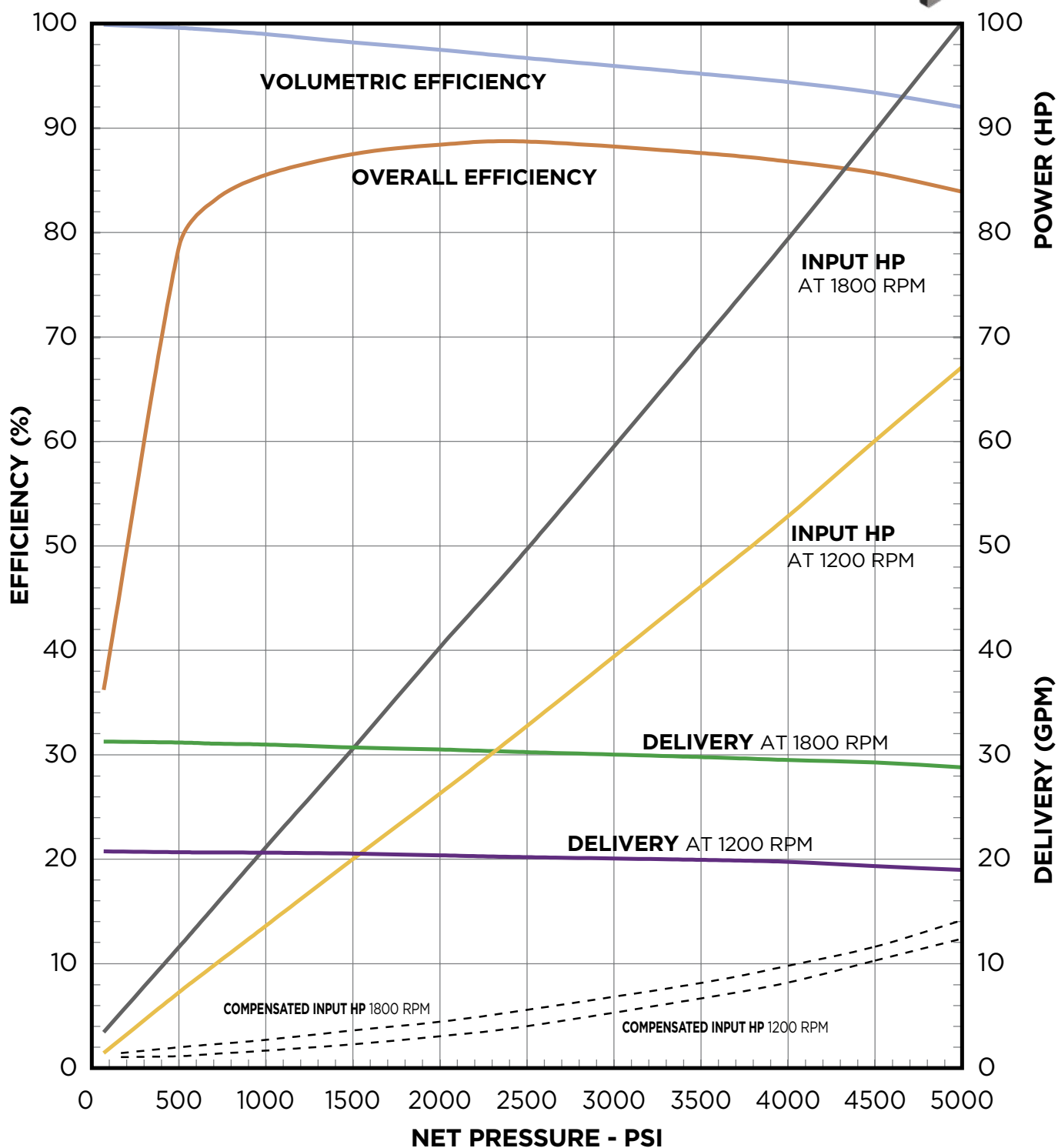
NOTES:

1. PUMPS DESIGNED FOR ONE-WAY SERVICE AND ARE DIMENSIONED AS SHOWN.
2. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
3. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].



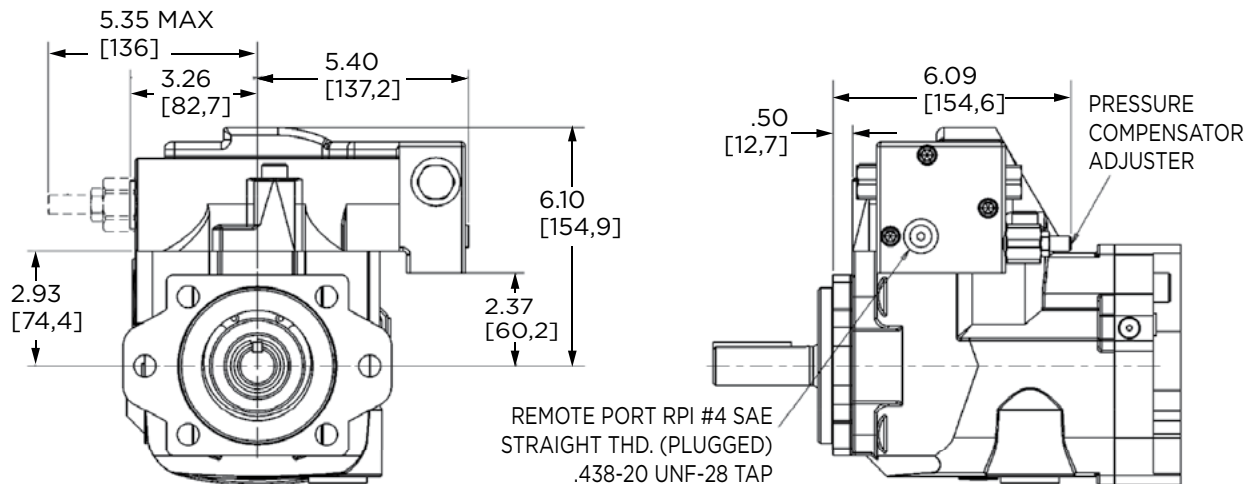
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



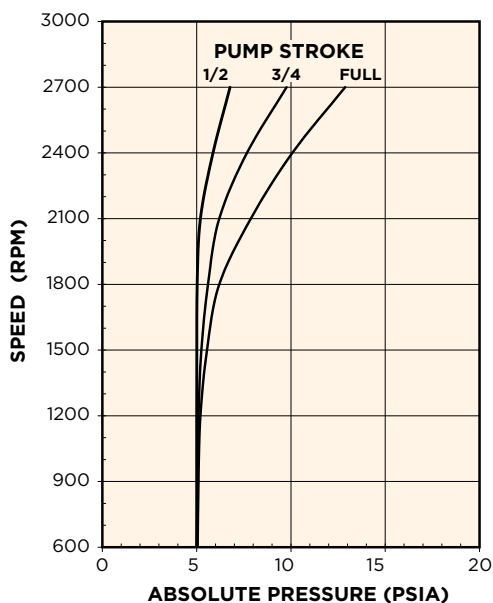
PVG-065 | DISPLACEMENT: 65 CC/REV

DIMENSIONS Inches [mm]

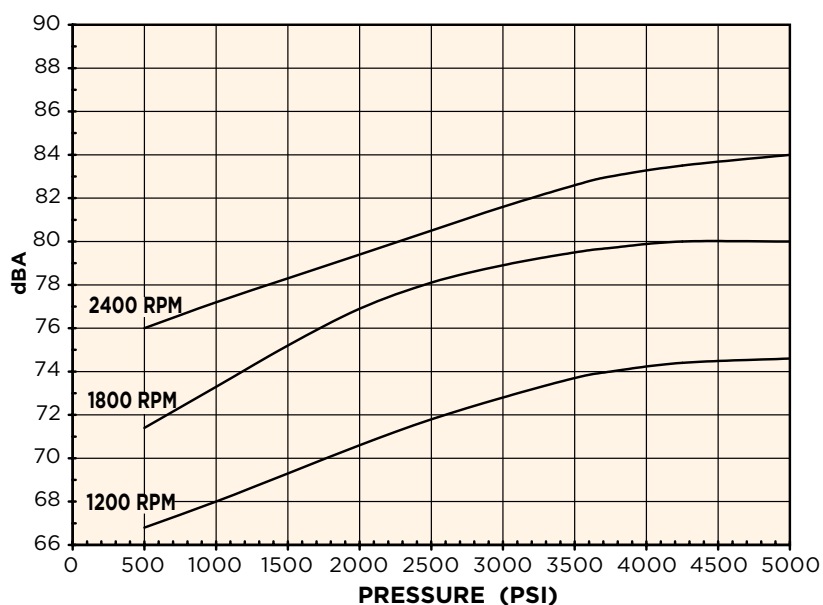


Model shown: PVG-065-F1UV-LSFY-P-1NNSN

INLET DATA



SOUND DATA

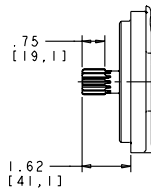


INSTALLATION DRAWING: BASIC PUMP • REAR PORTED

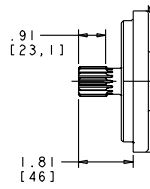
CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE B-B, 1.00" Dia.) 2.0" Long Keyway	3,500
S	Splined (SAE B-B, 15T, 16/32 Pitch)	7,000
K	Splined (SAE B, 13T, 16/32 Pitch)	3,500

OPTIONAL SAE "B"
SPLINE SHAFT
(SAE "22-4") (CODE-K)
SAE INVOLUTE SPLINE
13 TEETH, 16/32 PITCH

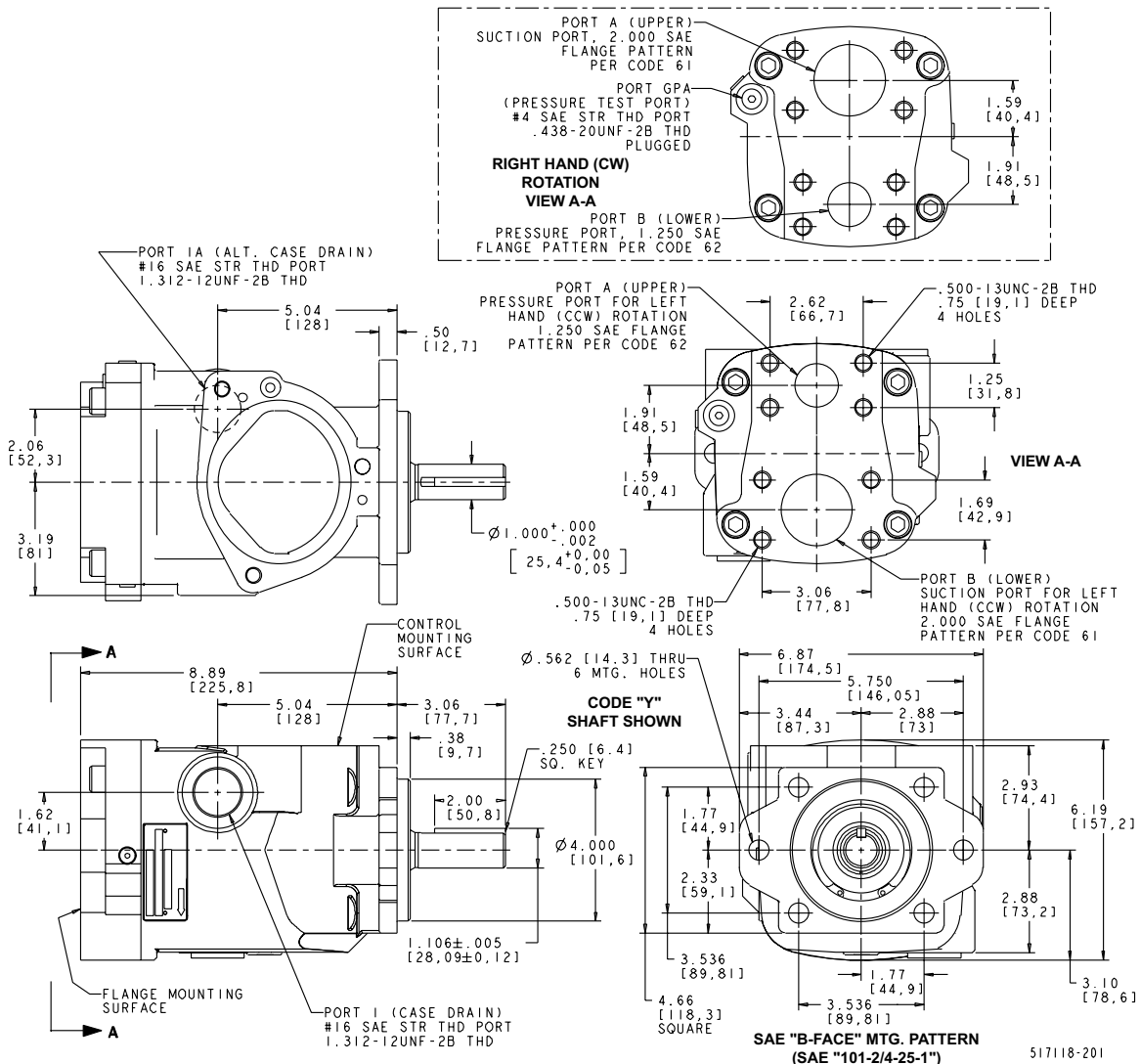


OPTIONAL SAE "B-B"
SPLINE SHAFT
(SAE "25-4") (CODE-S)
SAE INVOLUTE SPLINE
15 TEETH, 16/32 PITCH



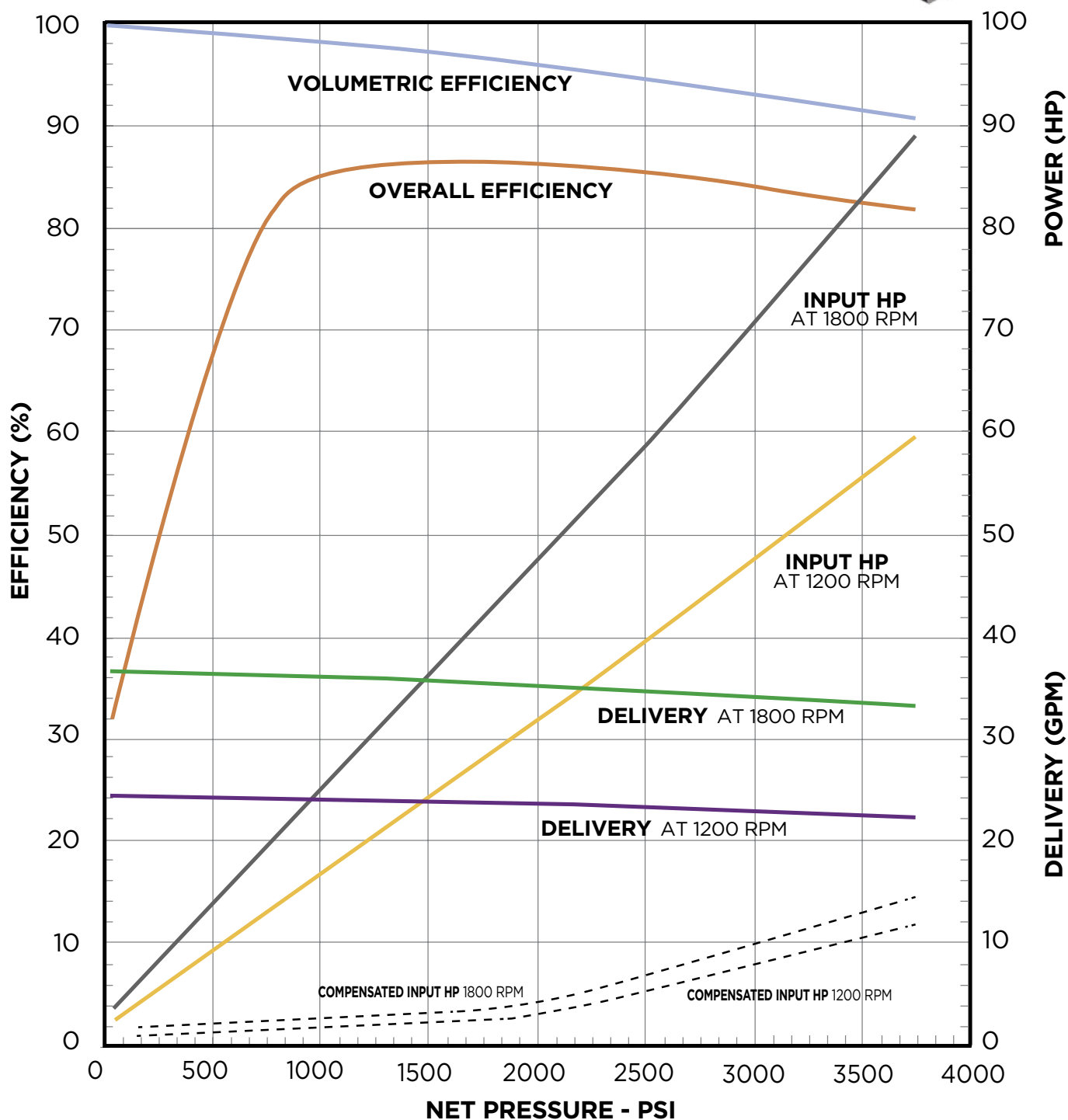
NOTES:

1. PUMPS DESIGNED FOR ONE-WAY SERVICE AND ARE DIMENSIONED AS SHOWN.
2. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
3. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].



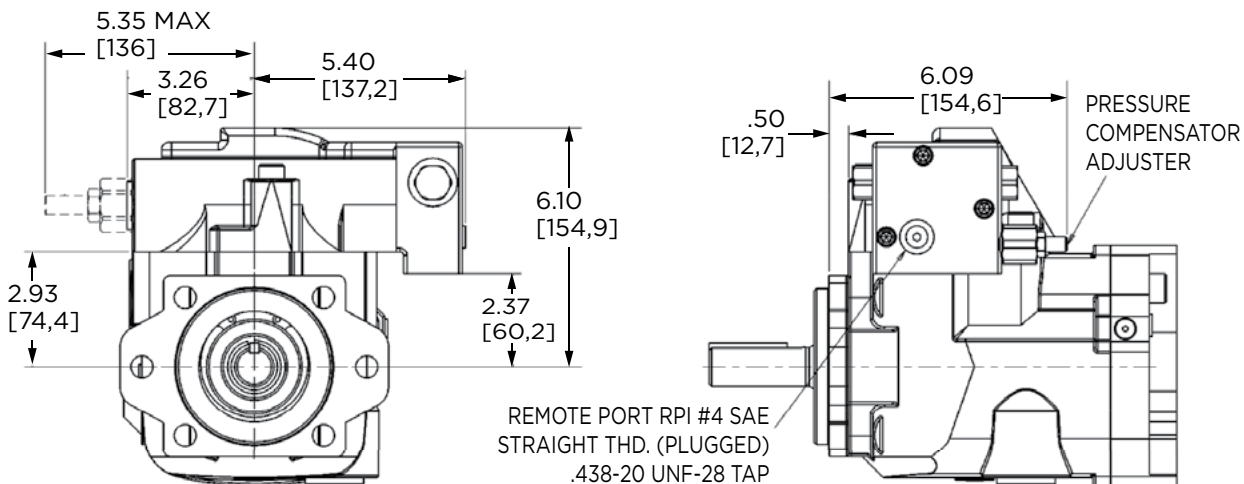
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



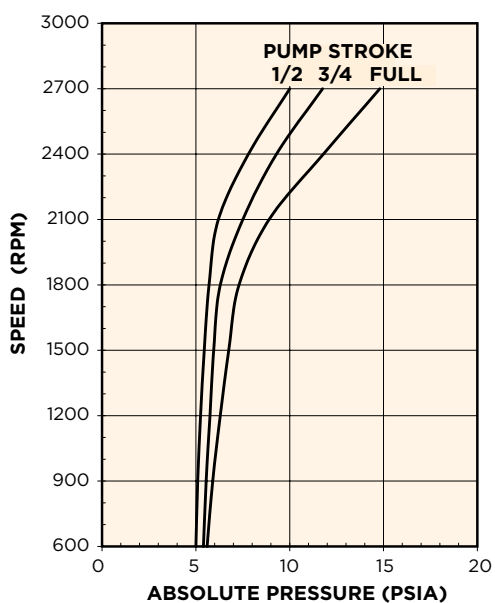
PVG-075 | DISPLACEMENT: 75 CC/REV

DIMENSIONS Inches [mm]

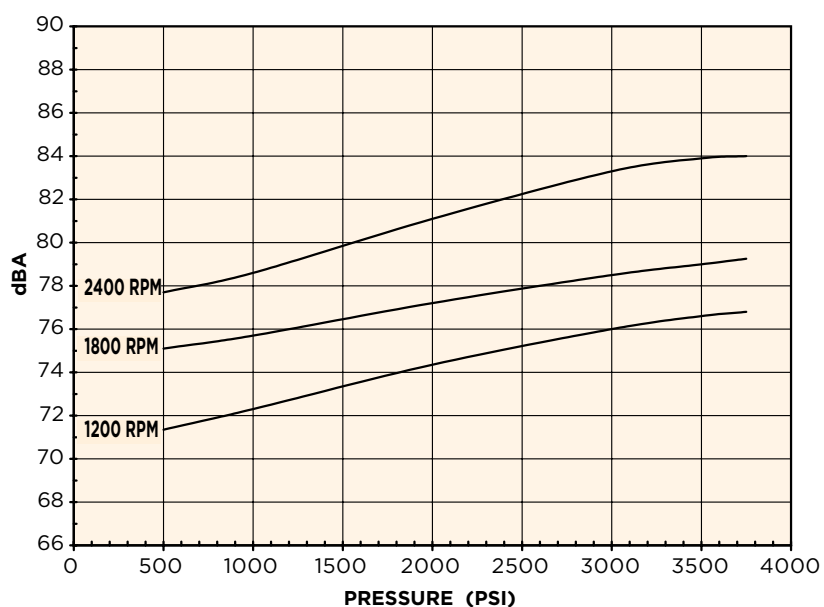


Model shown: PVG-075-F1UV-LSFY-P-1NNSN

INLET DATA



SOUND DATA



INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE B-B, 1.00" Dia.) 2.0" Long Keyway	3,500
S	Splined (SAE B-B, 15T, 16/32 Pitch)	7,000
K	Splined (SAE B, 13T, 16/32 Pitch)	3,500

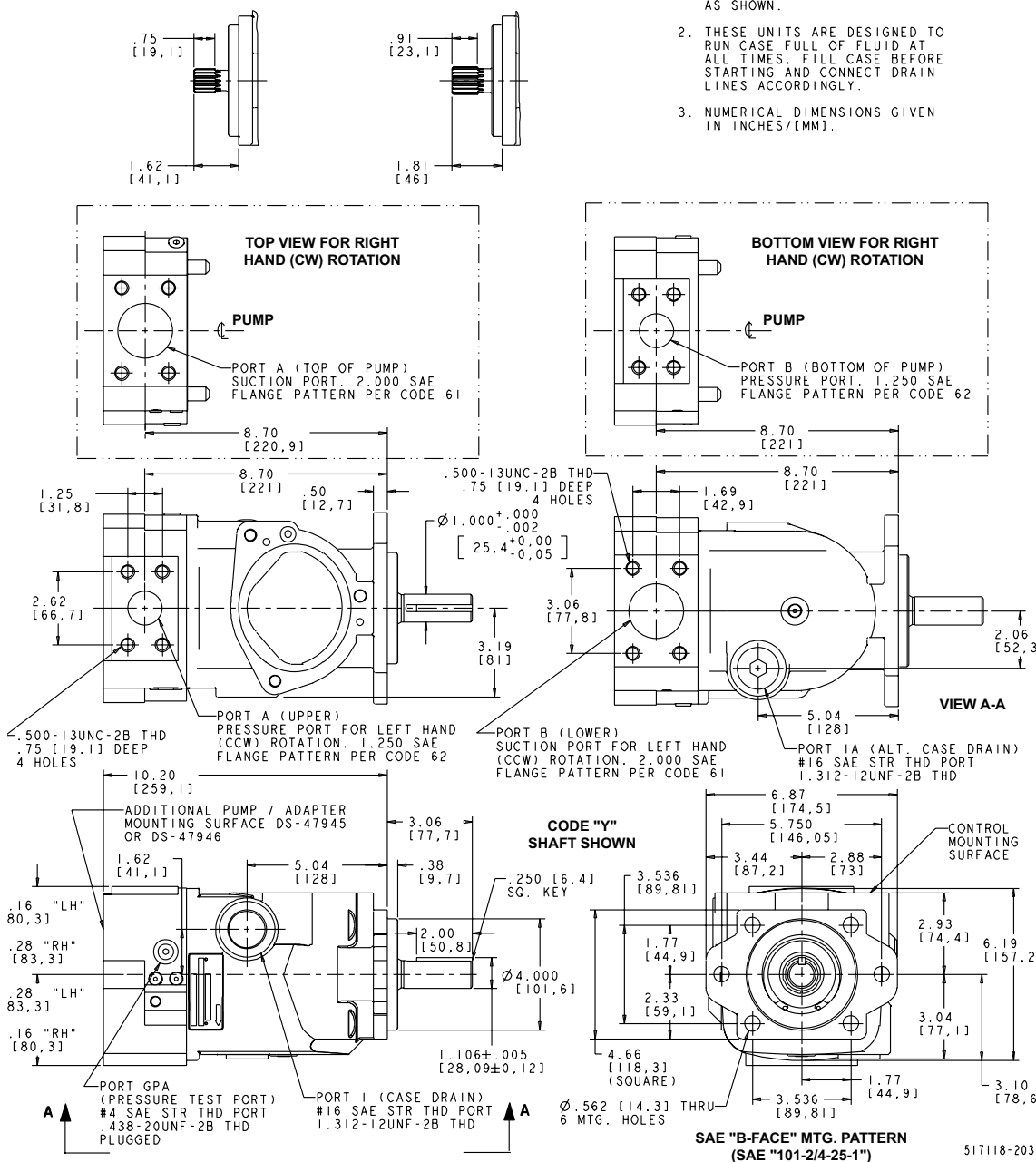
3500 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT

**OPTIONAL SAE "B"
SPLINE SHAFT
(SAE "22-4") (CODE-K)**
SAE INVOLUTE SPLINE
13 TEETH, 16/32 PITCH

**OPTIONAL SAE "B-B"
SPLINE SHAFT
(SAE "25-4") (CODE-S)**
SAE INVOLUTE SPLINE
15 TEETH 16/32 PITCH

NOTES:

1. PUMPS DESIGNED FOR ONE-WAY SERVICE AND ARE DIMENSIONED AS SHOWN.
2. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
3. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].

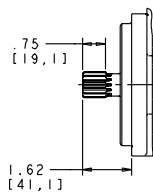


INSTALLATION DRAWING: BASIC PUMP • REAR PORTED

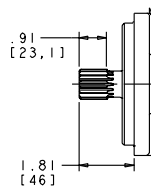
CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE B-B, 1.00" Dia.) 2.0" Long Keyway	3,500
S	Splined (SAE B-B, 15T, 16/32 Pitch)	7,000
K	Splined (SAE B, 13T, 16/32 Pitch)	3,500

**OPTIONAL SAE "B"
SPLINE SHAFT
(SAE "22-4") (CODE-K)**
SAE INVOLUTE SPLINE
13 TEETH, 16/32 PITCH

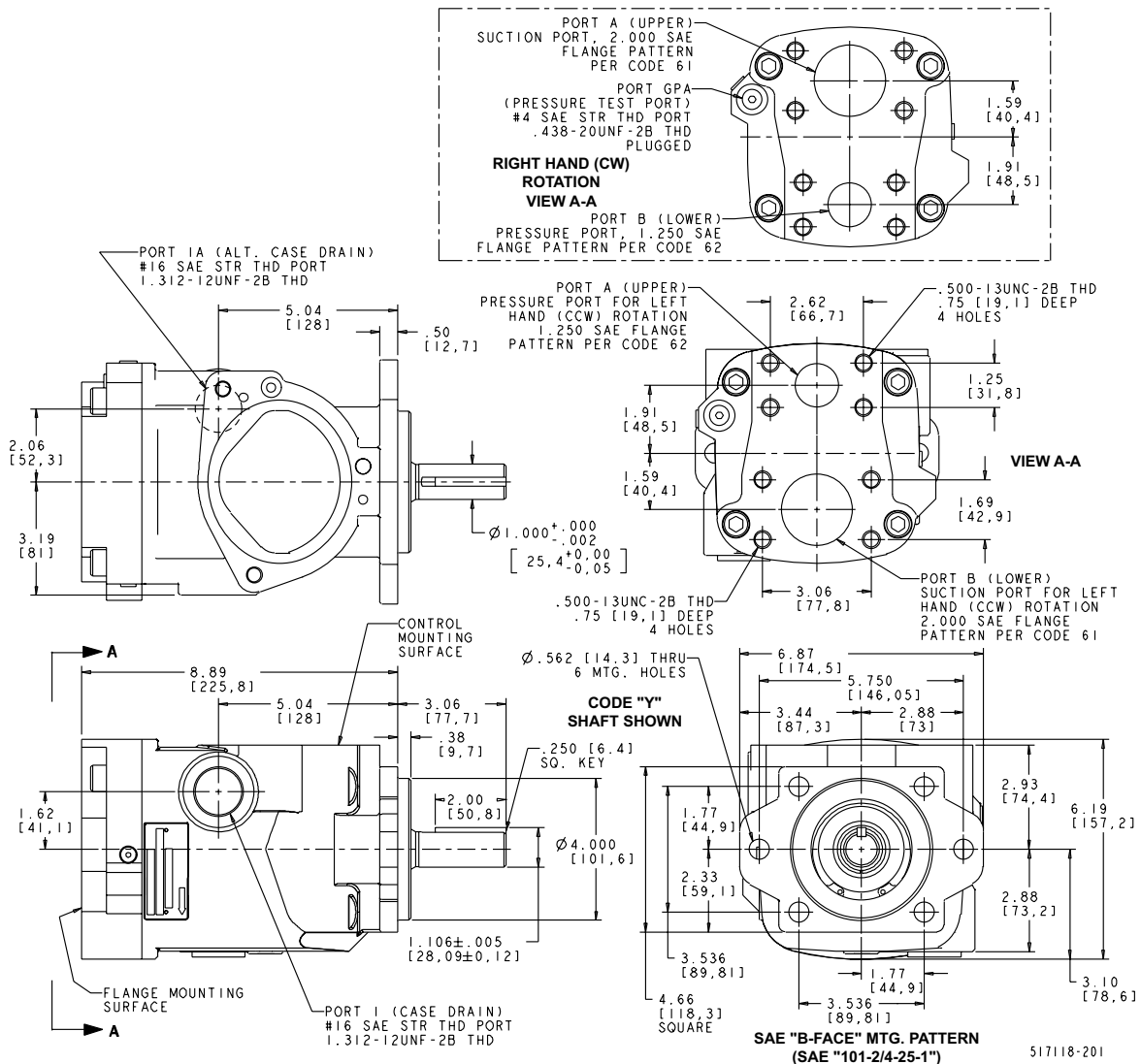


**OPTIONAL SAE "B-B"
SPLINE SHAFT
(SAE "25-4") (CODE-S)**
SAE INVOLUTE SPLINE
15 TEETH, 16/32 PITCH



NOTES:

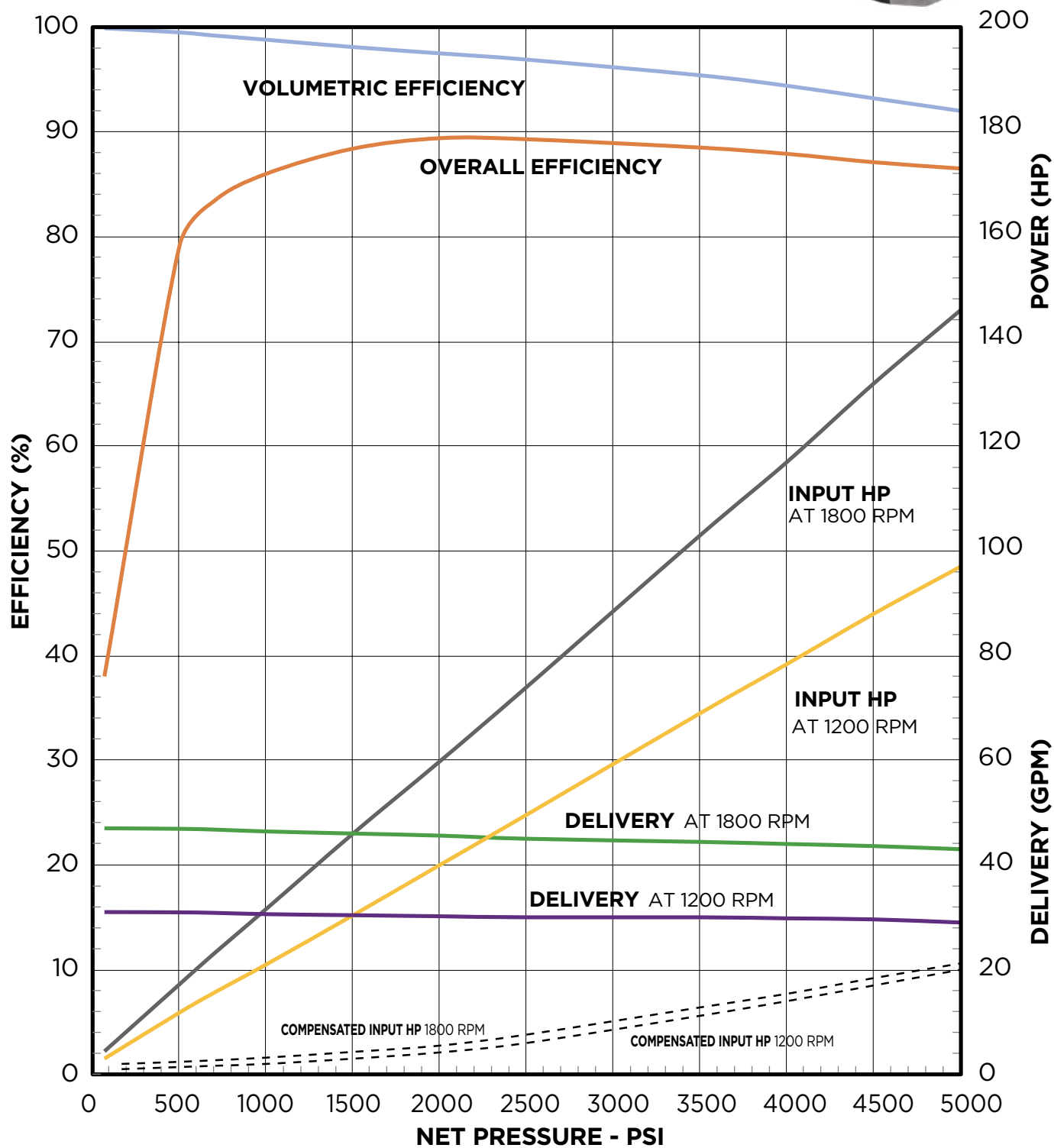
1. PUMPS DESIGNED FOR ONE-WAY SERVICE AND ARE DIMENSIONED AS SHOWN.
2. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
3. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].



PVG-100 | DISPLACEMENT: 100 CC/REV

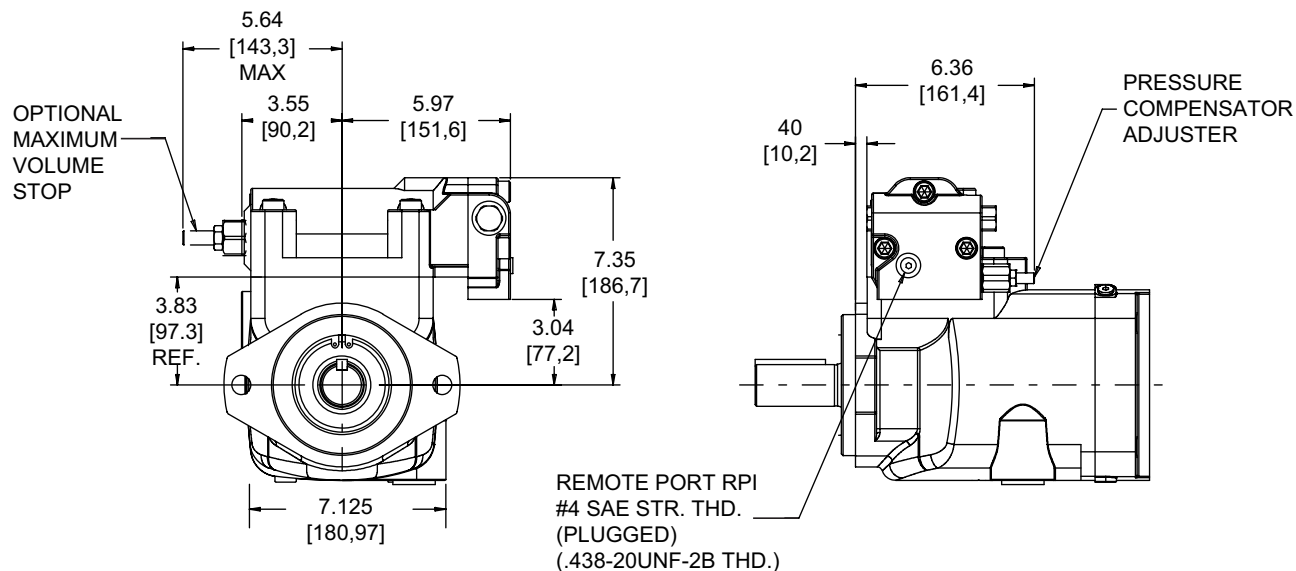
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



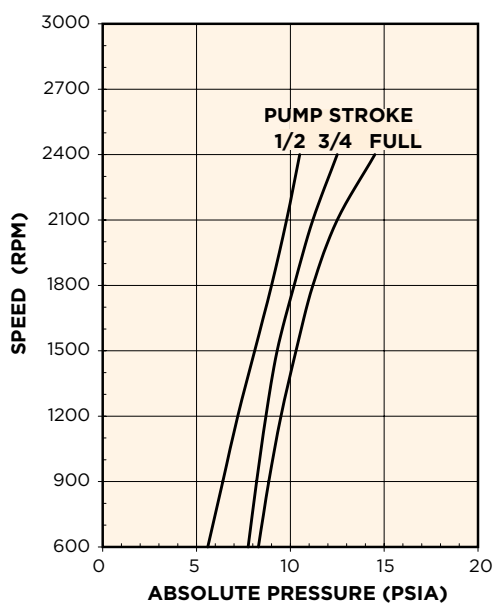
PVG-100 | DISPLACEMENT: 100 CC/REV

DIMENSIONS Inches [mm]

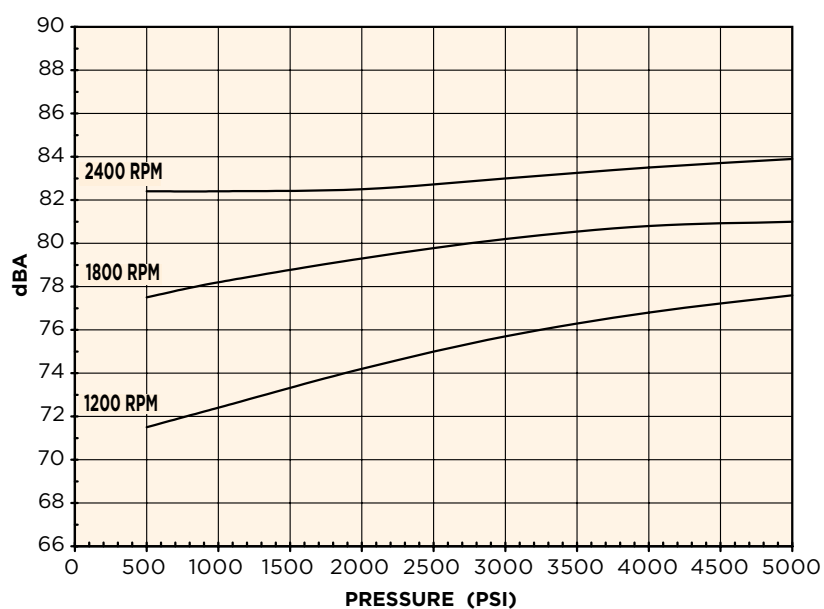


Model shown: PVG-100-F1UV-LSFY-P-1NNSN

INLET DATA



SOUND DATA



■ INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.50" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

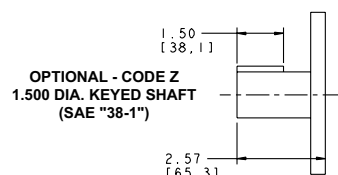
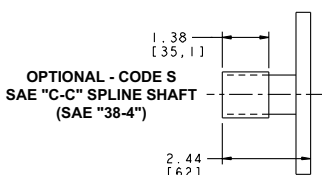
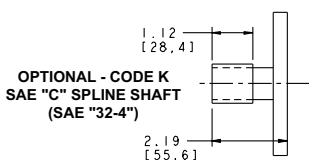
SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE C-C, 1.50" Dia.) 2.5" Long Keyway	10,500
Z	Keyed (SAE C-C, 1.50" Dia.) 1.5" Long Keyway	6,000
S	Splined (SAE C-C, 17T, 12/24 Pitch)	10,500
K	Splined (SAE C, 14T, 12/24 Pitch)	7,000

5250 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT

VIEW SHOWING OPTIONAL SPLINE SHAFT
SAE INVOLUTE SPLINE 14 TEETH, 12/24 PITCH
1.235-.005 [31.37-.13] MAJOR DIA.

VIEW SHOWING OPTIONAL SPLINE SHAFT
SAE INVOLUTE SPLINE 17 TEETH, 12/24 PITCH
1.485-.005 [37.72-.13] MAJOR DIA.

(FOR KEY & SHAFT
INFO. SEE BELOW)

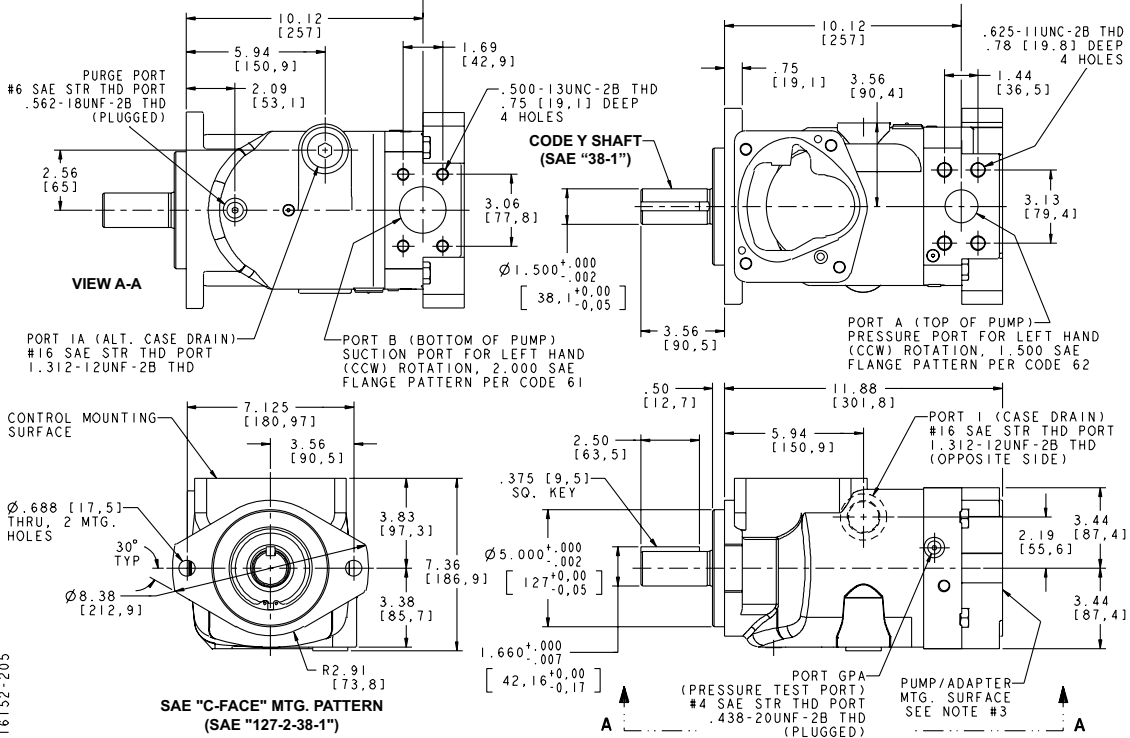
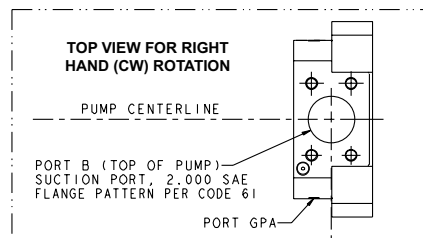
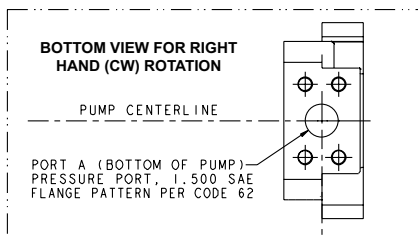


NOTES:

1. PUMPS DESIGNED FOR ONE-WAY SERVICE ARE DIMENSIONED AS SHOWN.
2. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].
3. FOR INFORMATION ON ADDITIONAL PUMP/ADAPTER MOUNTING SURFACE SEE DS-47945 & DS-47946.

4. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
5. NET WEIGHT - 95 LBS [42 KG].

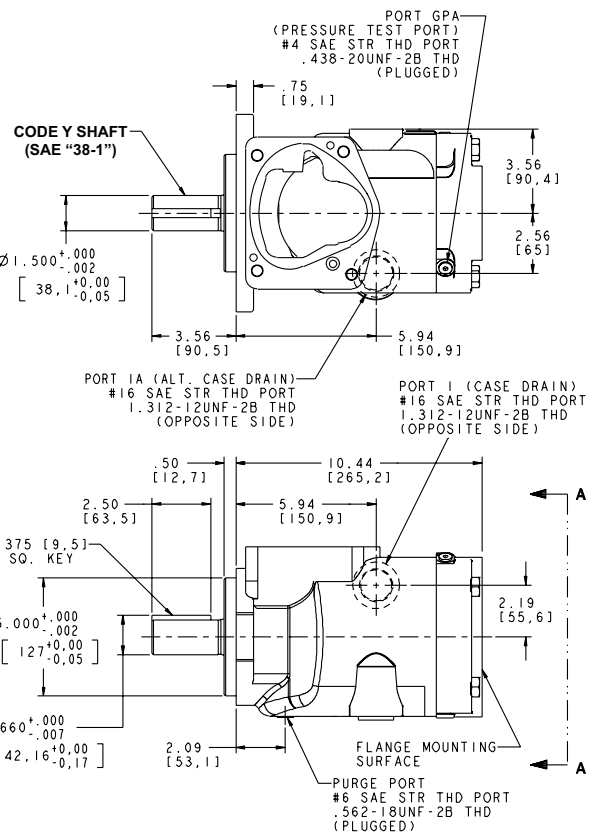
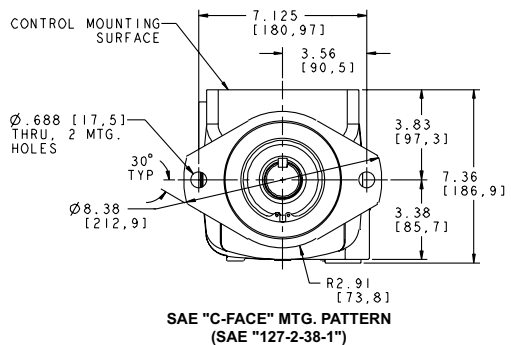
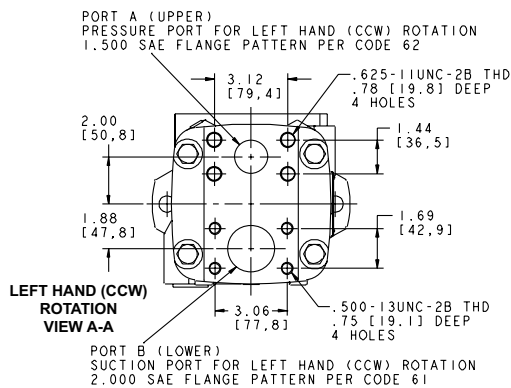
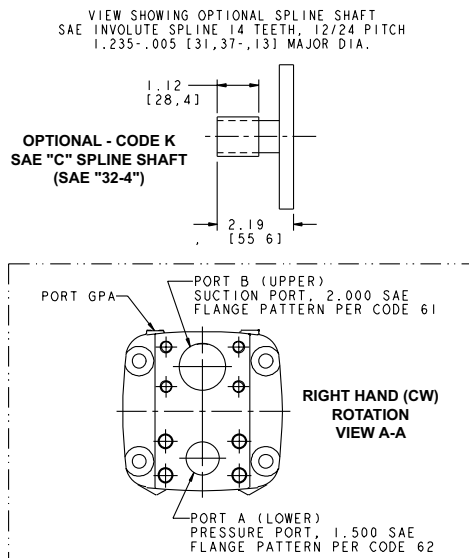
5. NET WEIGHT - 95 LBS [42 KG].



INSTALLATION DRAWING: BASIC PUMP • REAR PORTED

CONNECTION TABLE	
PORT	FITTING
INLET	2" SAE Code 61 Flange
OUTLET	1.50" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

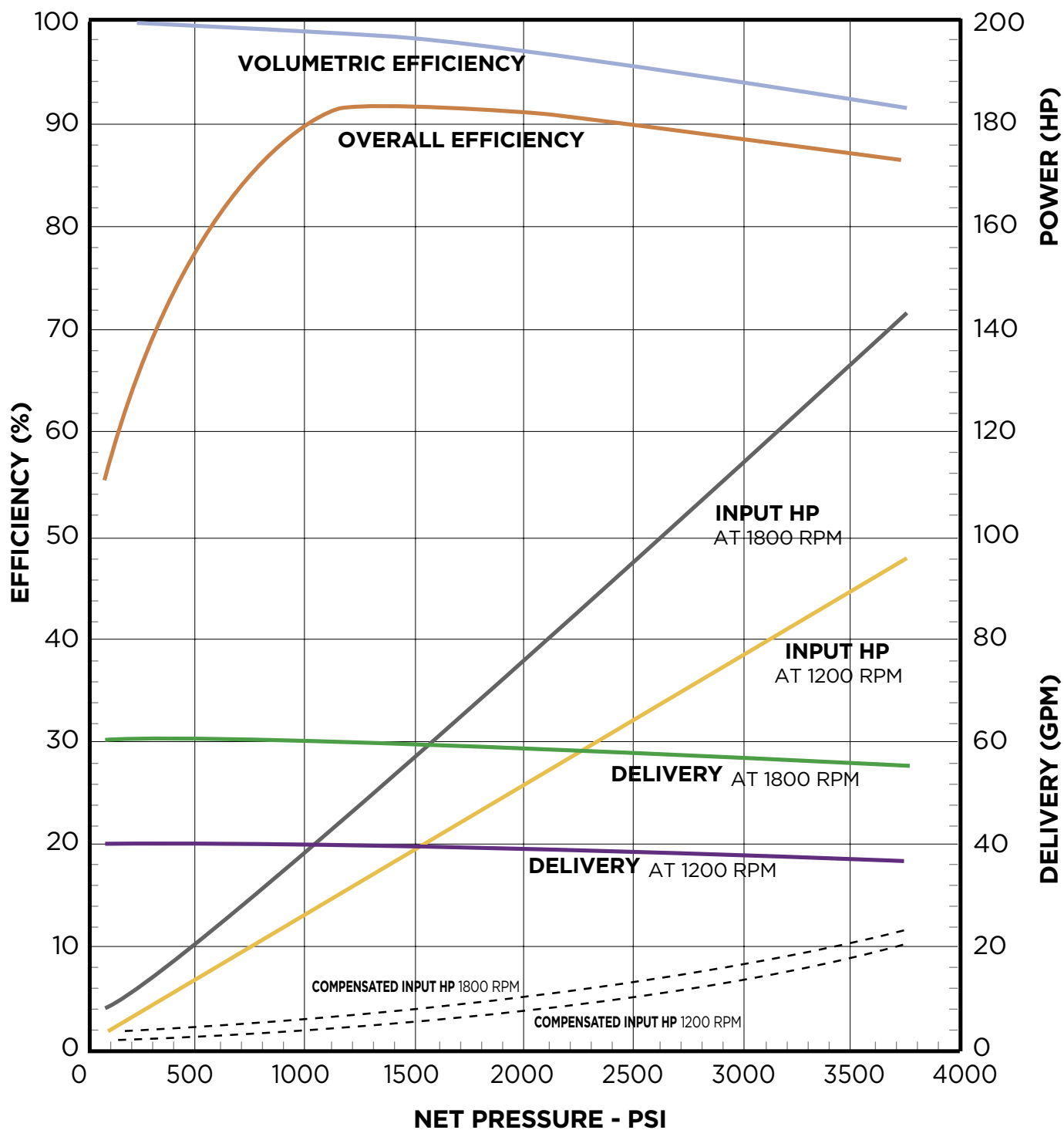
SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE C-C, 1.50" Dia.) 2.5" Long Keyway	10,500
Z	Keyed (SAE C-C, 1.50" Dia.) 1.5" Long Keyway	6,000
K	Splined (SAE C, 14T, 12/24 Pitch)	7,000



PVG-130 | DISPLACEMENT: 130 CC/REV

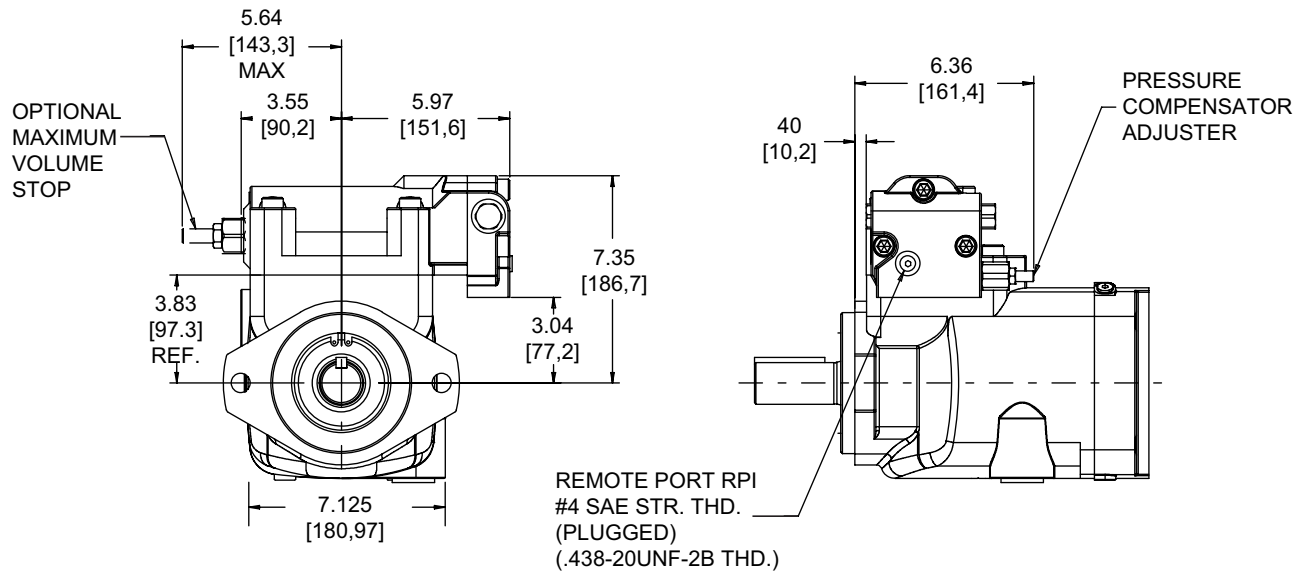
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



PVG-130 | DISPLACEMENT: 130 CC/REV

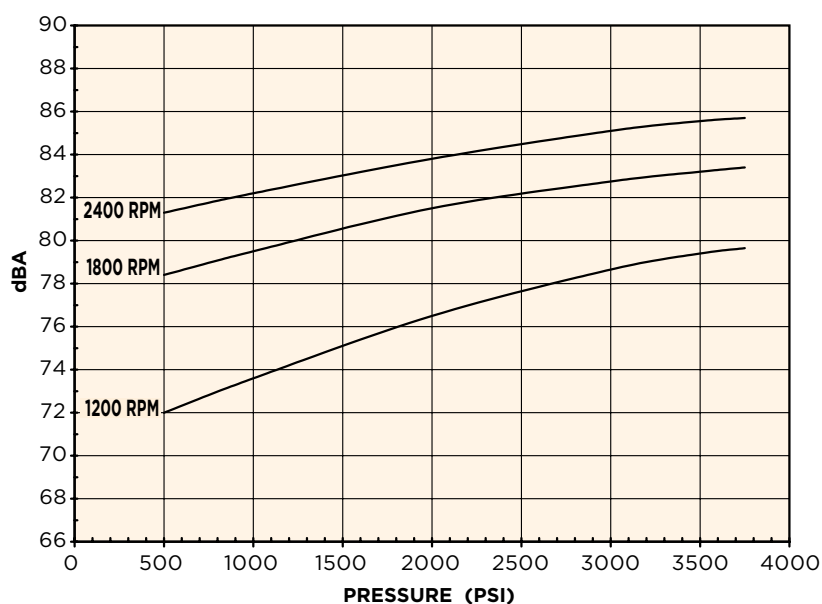
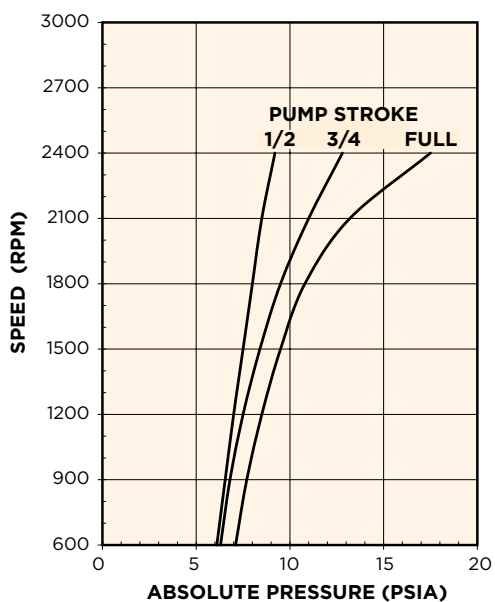
DIMENSIONS Inches [mm]



Model shown: PVG-130-F1UV-LSFY-P-1NNSN

INLET DATA

SOUND DATA



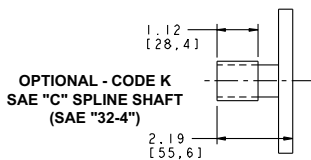
INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2.50" SAE Code 61 Flange
OUTLET	1.50" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE C-C, 1.50" Dia.) 2.5" Long Keyway	10,500
Z	Keyed (SAE C-C, 1.50" Dia.) 1.5" Long Keyway	6,000
S	Splined (SAE C-C, 17T, 12/24 Pitch)	10,500
K	Splined (SAE C, 14T, 12/24 Pitch)	7,000

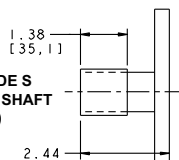
5250 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT

VIEW SHOWING OPTIONAL SPLINE SHAFT
SAE INVOLUTE SPLINE 14 TEETH, 12/24 PITCH
1.235-.005 [31.37-.13] MAJOR DIA.



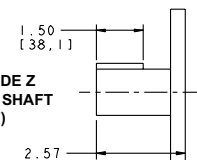
OPTIONAL - CODE K
SAE "C" SPLINE SHAFT
(SAE "32-4")

VIEW SHOWING OPTIONAL SPLINE SHAFT
SAE INVOLUTE SPLINE 17 TEETH, 12/24 PITCH
1.485-.005 [37.72-.13] MAJOR DIA.



OPTIONAL - CODE S
SAE "C-C" SPLINE SHAFT
(SAE "38-4")

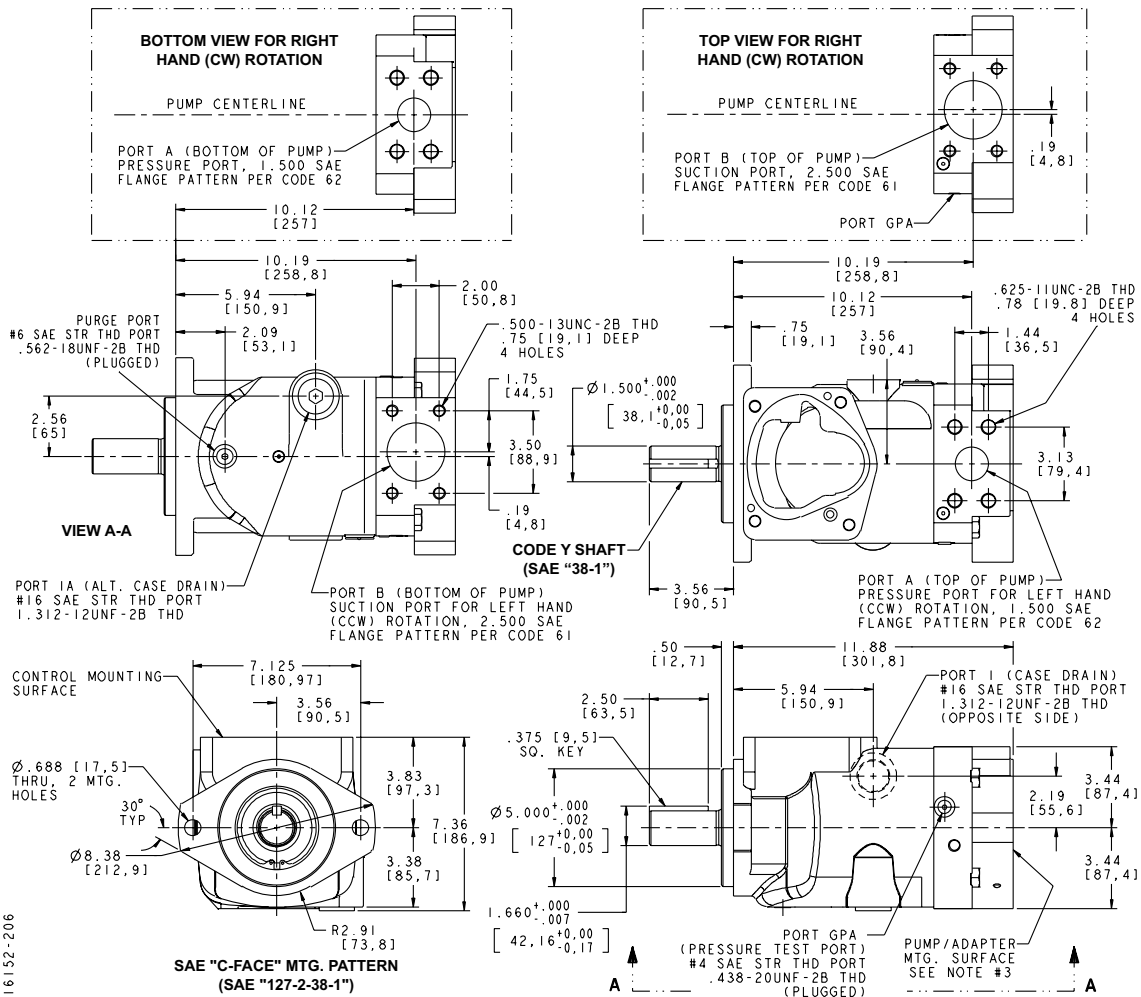
(FOR KEY & SHAFT
INFO. SEE BELOW)



OPTIONAL - CODE Z
1.500 DIA. KEYED SHAFT
(SAE "38-1")

NOTES:

- PUMPS DESIGNED FOR ONE-WAY SERVICE ARE DIMENSIONED AS SHOWN.
- NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].
- FOR INFORMATION ON ADDITIONAL PUMP/ADAPTER MOUNTING SURFACE SEE DS-47945 & DS-47946.
- THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
- NET WEIGHT - 95 LBS [42 KG].



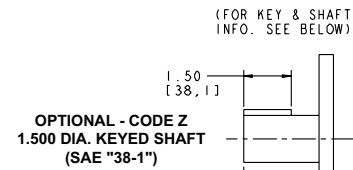
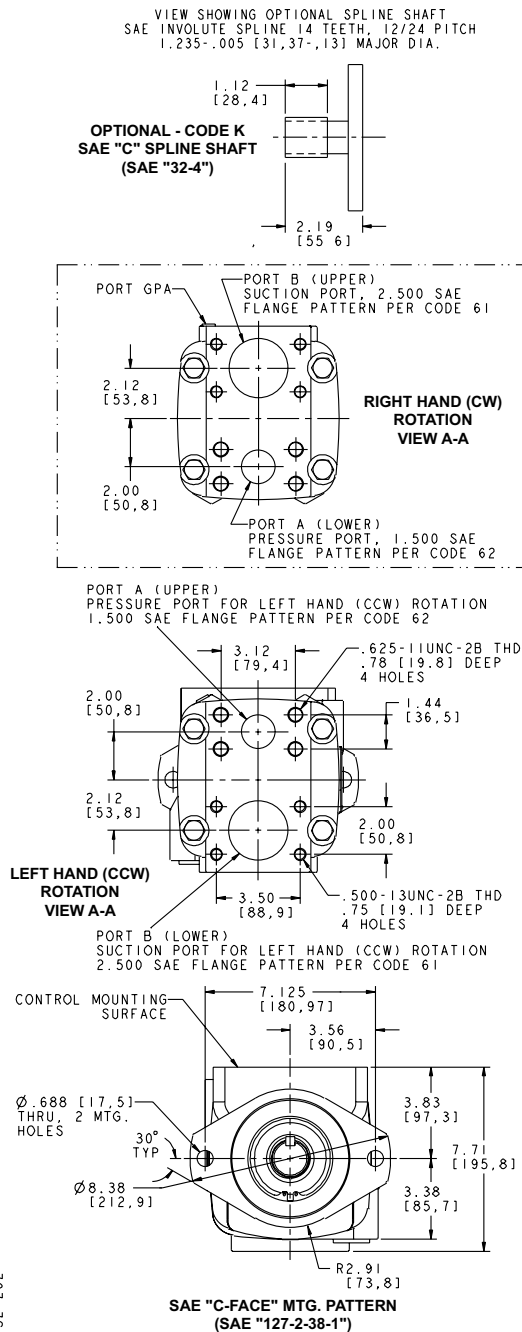
516152-206

PVG-130 | DISPLACEMENT: 130 CC/REV

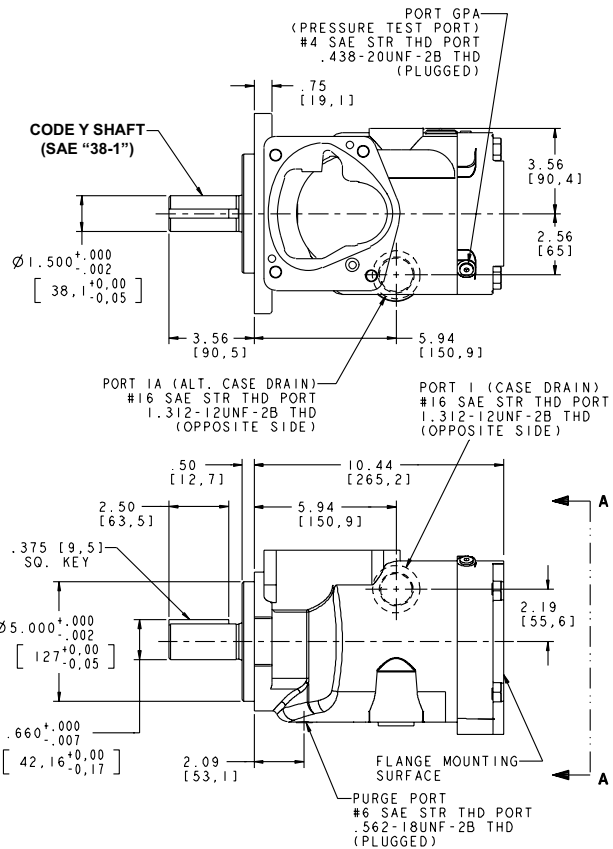
INSTALLATION DRAWING: BASIC PUMP • REAR PORTED

CONNECTION TABLE	
PORT	FITTING
INLET	2.50" SAE Code 61 Flange
OUTLET	1.50" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE C-C, 1.50" Dia.) 2.5" Long Keyway	10,500
Z	Keyed (SAE C-C, 1.50" Dia.) 1.5" Long Keyway	6,000
K	Splined (SAE C, 14T, 12/24 Pitch)	7,000



- NOTES:
1. PUMPS DESIGNED FOR ONE-WAY SERVICE ARE DIMENSIONED AS SHOWN.
 2. THESE UNITS ARE DESIGNED TO RUN CASE FULL OF FLUID AT ALL TIMES. FILL CASE BEFORE STARTING AND CONNECT DRAIN LINES ACCORDINGLY.
 3. NUMERICAL DIMENSIONS GIVEN IN INCHES/[MM].
 4. NET WEIGHT- 87 LBS (42 KG).

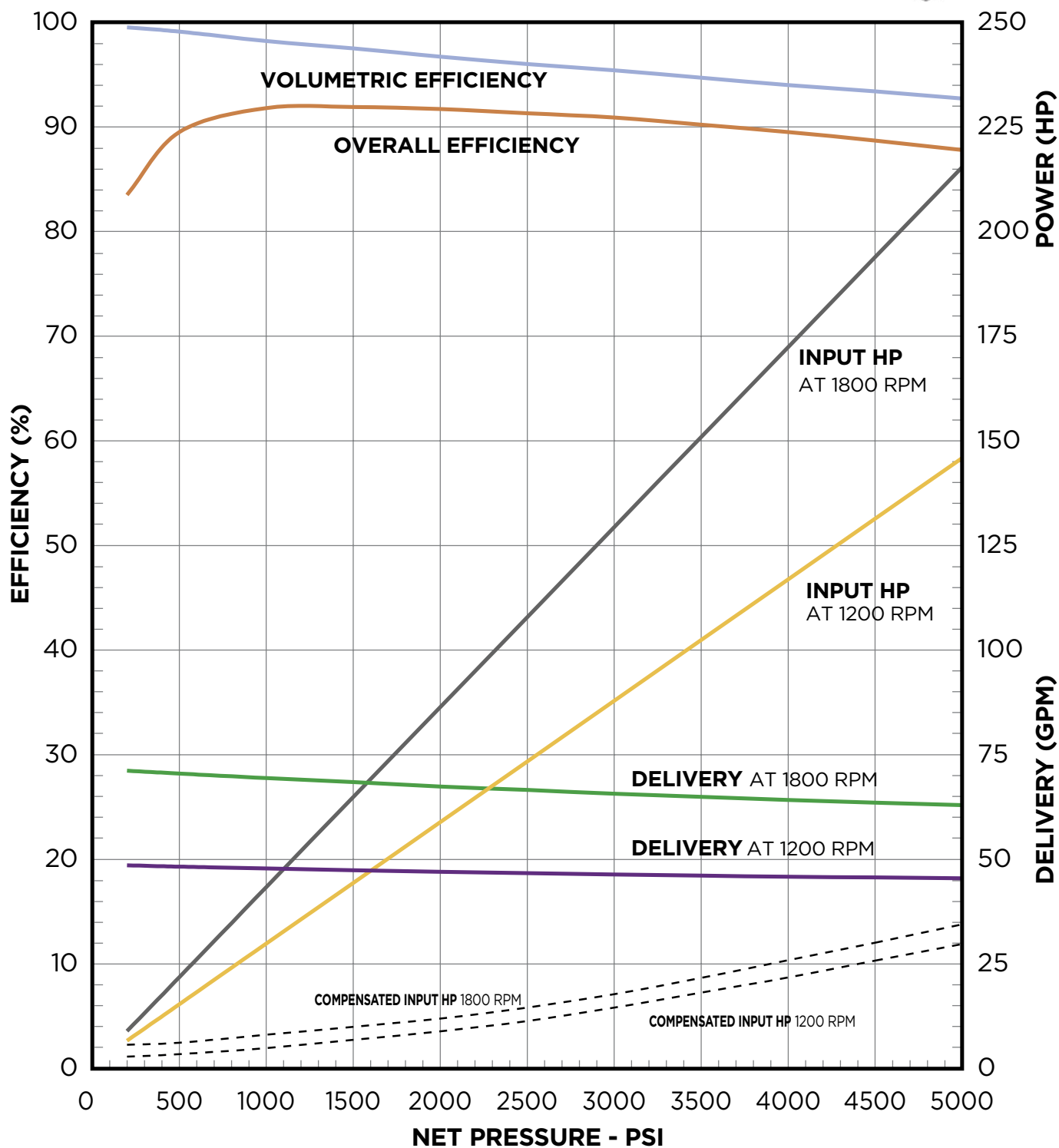


516152-202

PVG-150 | DISPLACEMENT: 150 CC/REV

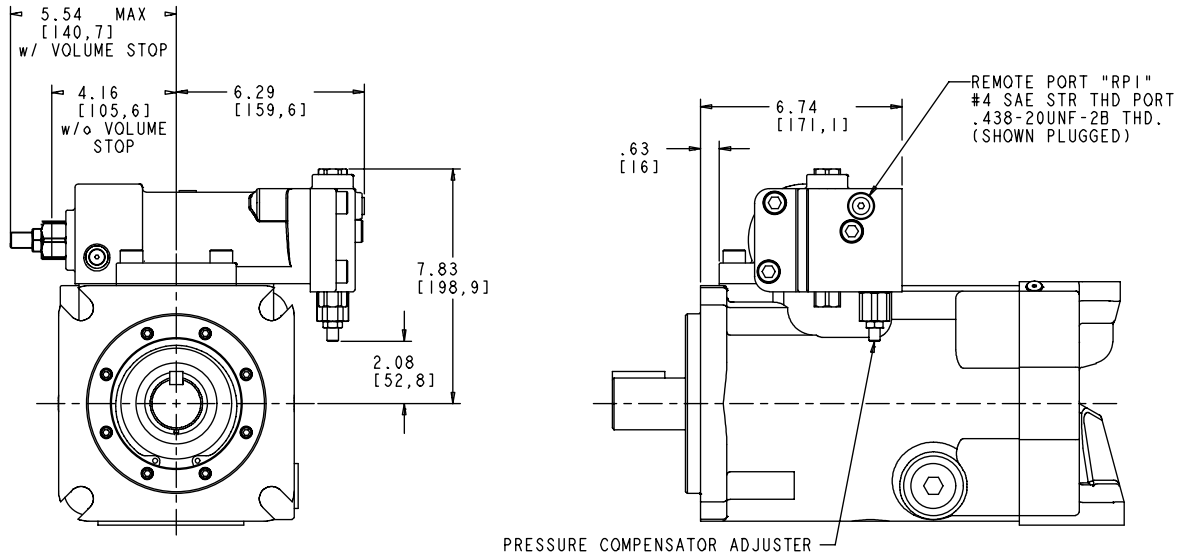
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



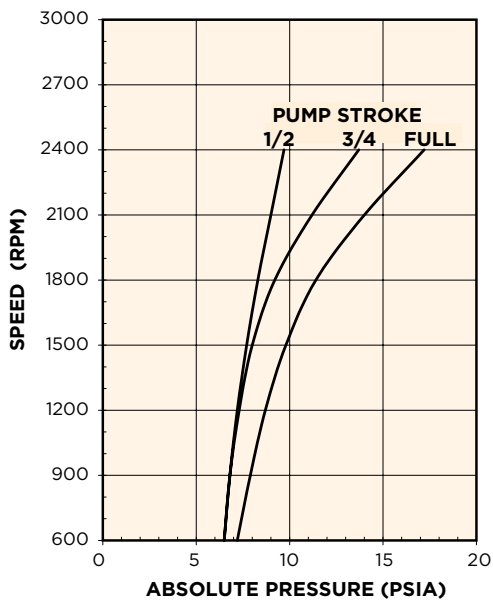
PVG-150 | DISPLACEMENT: 150 CC/REV

DIMENSIONS Inches [mm]

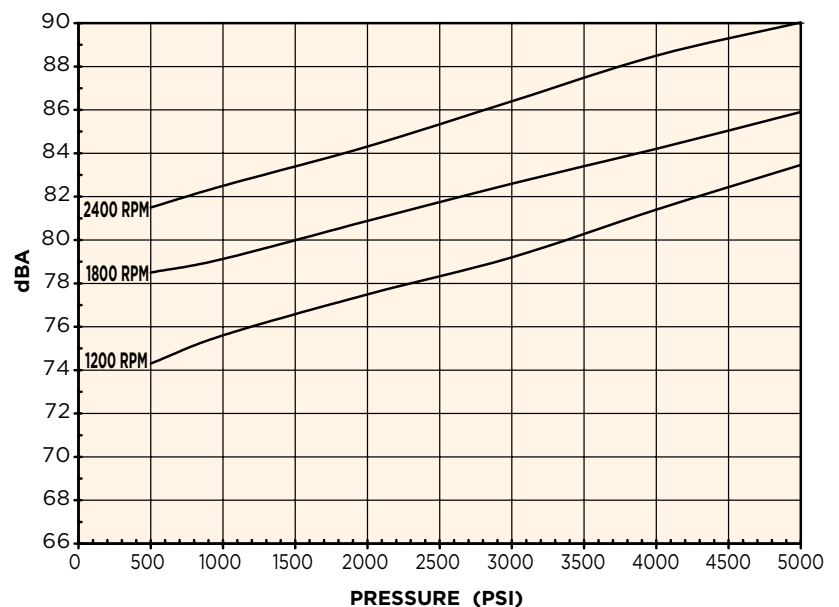


Model shown: PVG-150-A1UV-LGFY-P-1NNSN

INLET DATA



SOUND DATA



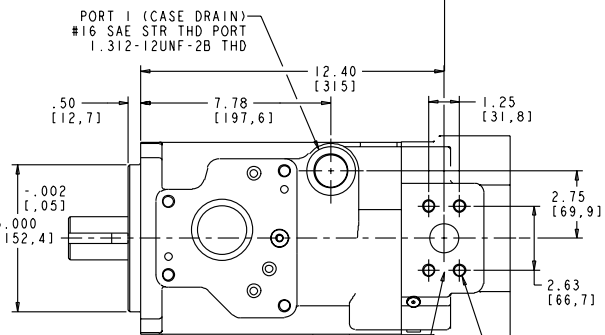
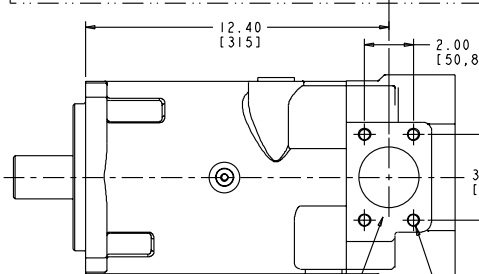
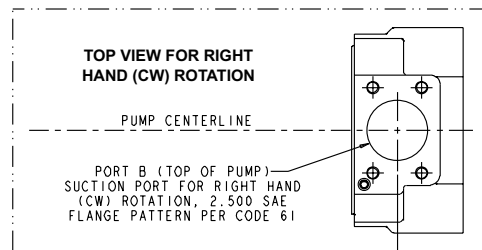
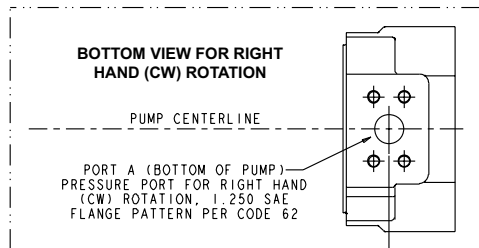
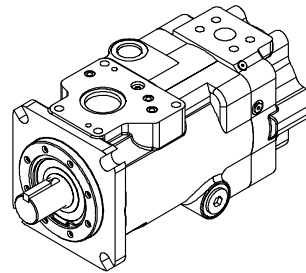
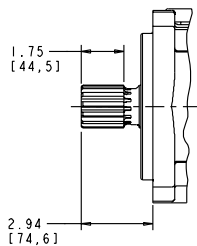
INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2.50" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE D, 1.75" Dia.) 1.75" Long Keyway	15,000
S	Splined (SAE D, 13T, 8/16 Pitch)	15,000

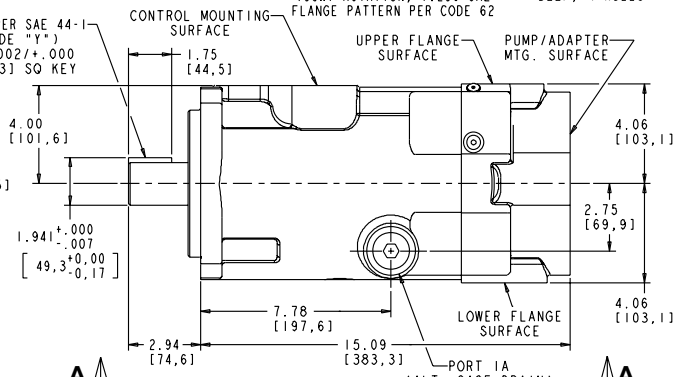
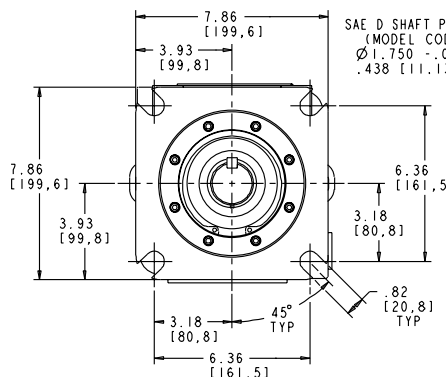
7500 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT

SAE "D" SPLINE SHAFT
(SAE "44-4")
MODEL CODE "S"
SAE INVOLUTE SPLINE
13 TEETH, 8/16 PITCH
1.730 [43.94] MAJOR DIA.



VIEW A-A
PORT B (BOTTOM OF PUMP)
SUCTION PORT FOR LEFT HAND
(CCW) ROTATION, 2.500 SAE
FLANGE PATTERN PER CODE 61

PORT A (TOP OF PUMP)
PRESSURE PORT FOR LEFT HAND
(CCW) ROTATION, 1.250 SAE
FLANGE PATTERN PER CODE 62



SAE "D-FACE" MTG. PATTERN
(SAE "152-4")

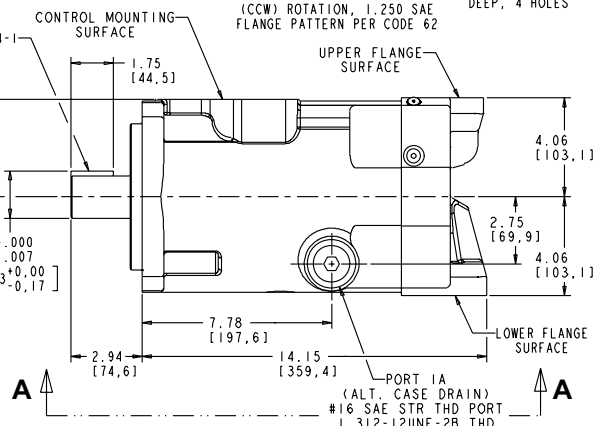
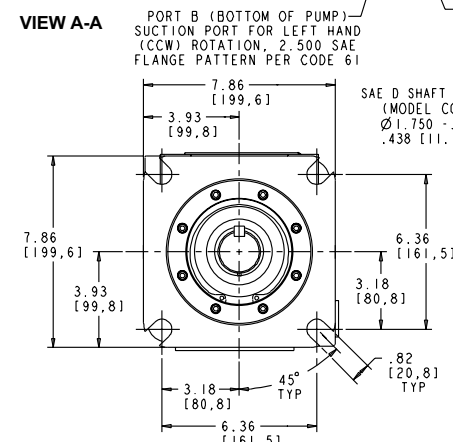
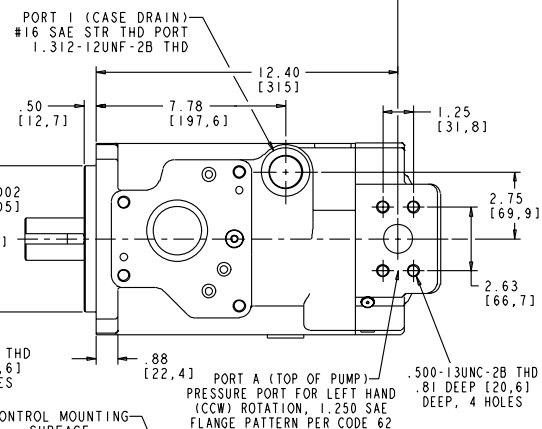
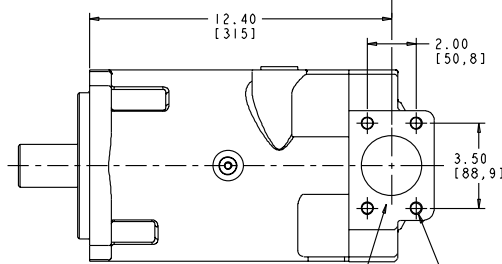
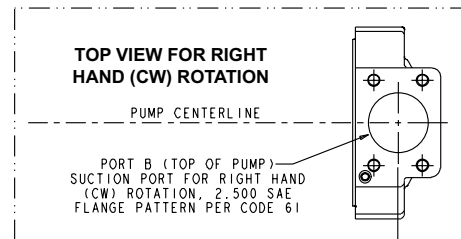
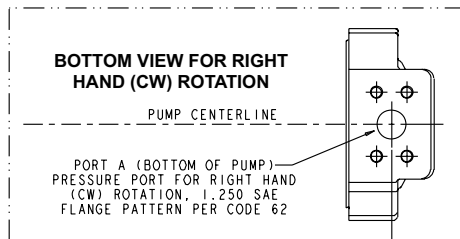
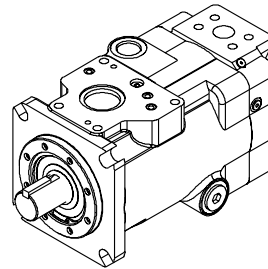
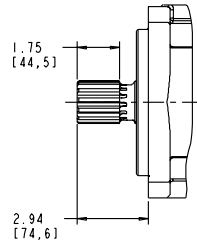
520241-102

INSTALLATION DRAWING: BASIC PUMP • NON-THRU SHAFT

CONNECTION TABLE	
PORT	FITTING
INLET	2.50" SAE Code 61 Flange
OUTLET	1.25" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE D, 1.75" Dia.) 1.75" Long Keyway	15,000
S	Splined (SAE D, 13T, 8/16 Pitch)	15,000

SAE "D" SPLINE SHAFT
(SAE "44-4")
MODEL CODE "S"
SAE INVOLUTE SPLINE
13 TEETH, 8/16 PITCH
1.730 [43,94] MAJOR DIA.



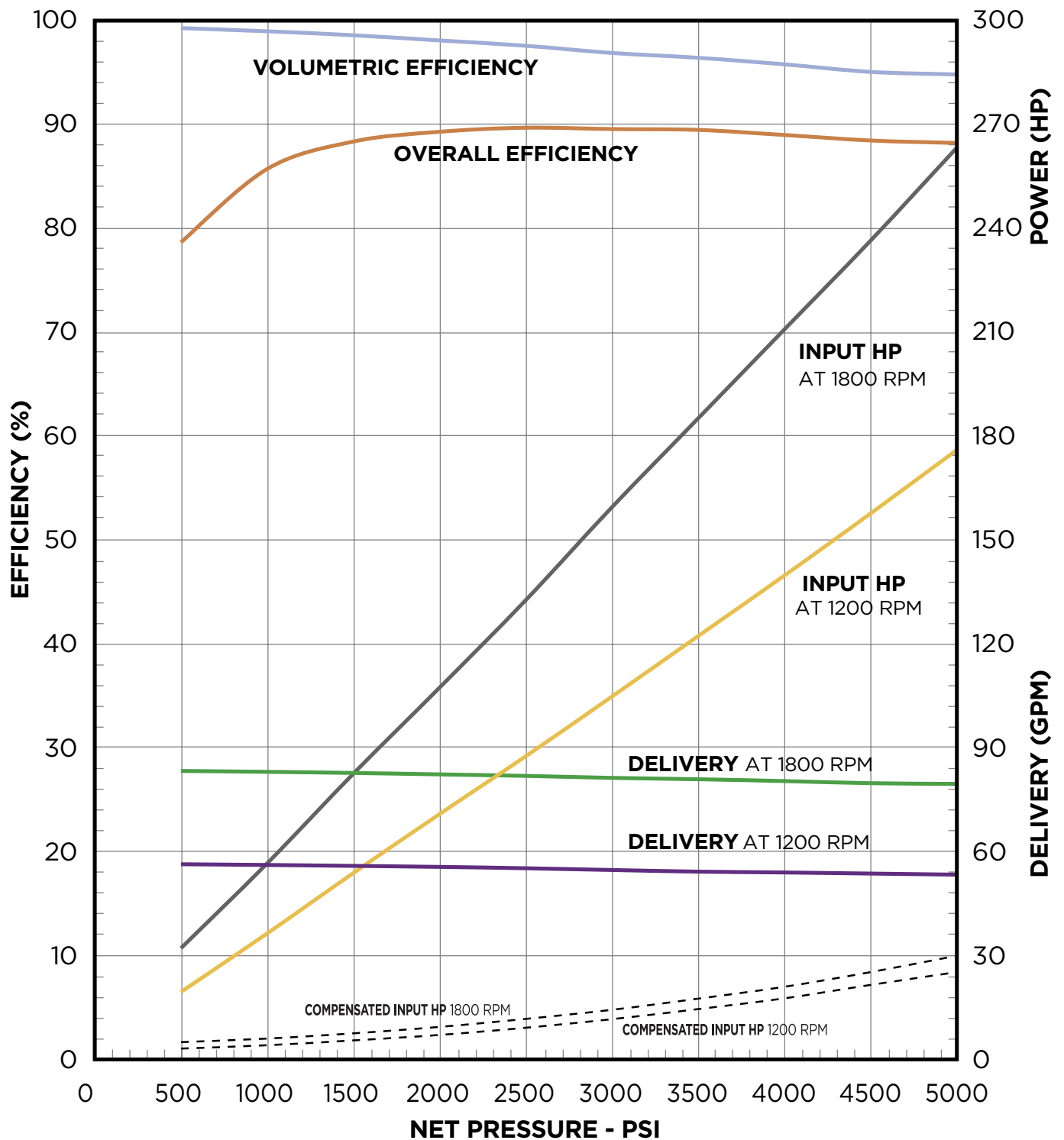
520241-101

SAE "D-FACE" MTG. PATTERN
(SAE "152-4")

PVG-180 | DISPLACEMENT: 180 CC/REV

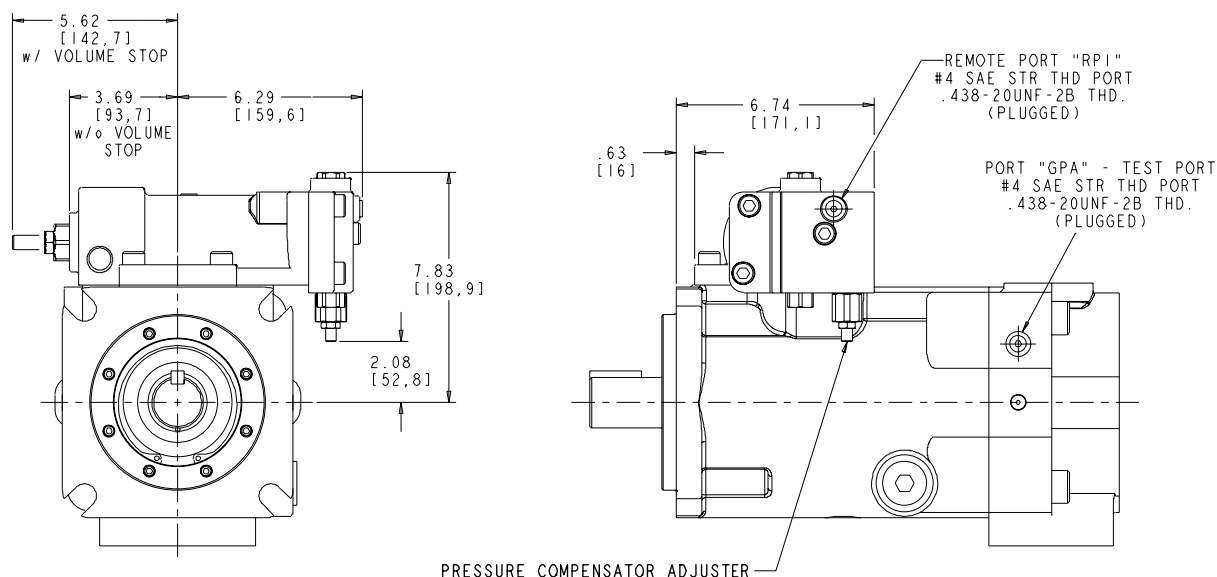
PERFORMANCE DATA

Performance curves are based on a viscosity of 160 SSU.



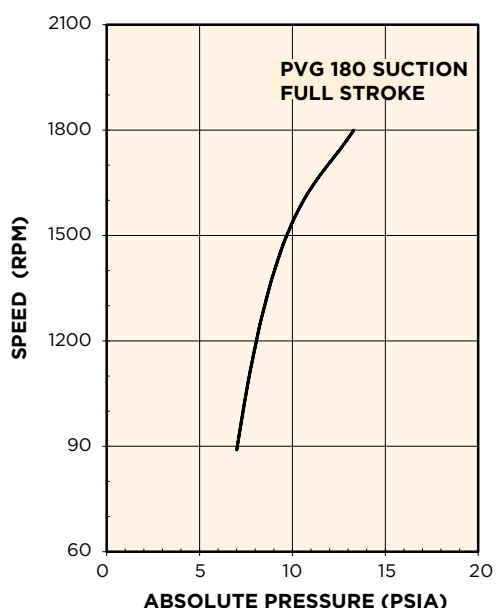
PVG-180 | DISPLACEMENT: 180 CC/REV

DIMENSIONS Inches [mm]

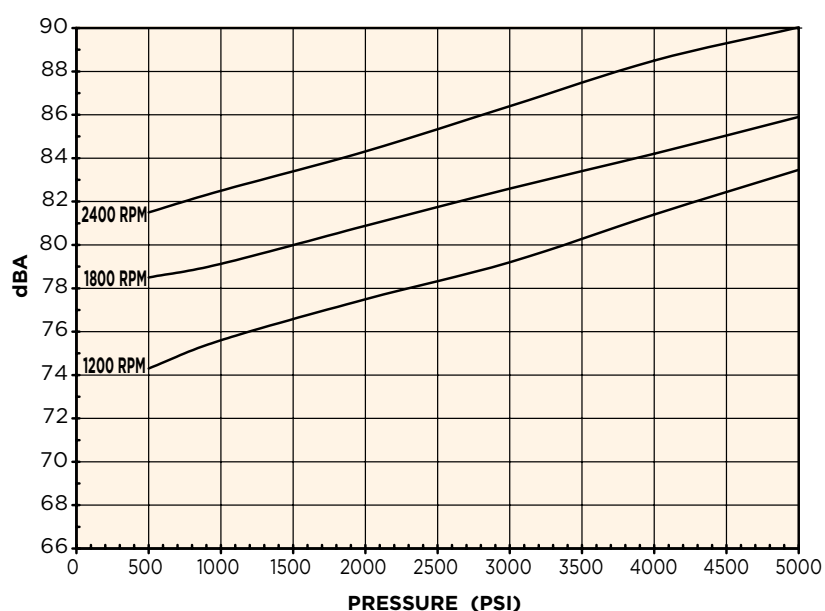


Model shown: PVG-180-A2UV-LDFY-P-INNSN-CP

INLET DATA



SOUND DATA



INSTALLATION DRAWING: BASIC PUMP • TOP/BOTTOM PORTED - THRU SHAFT

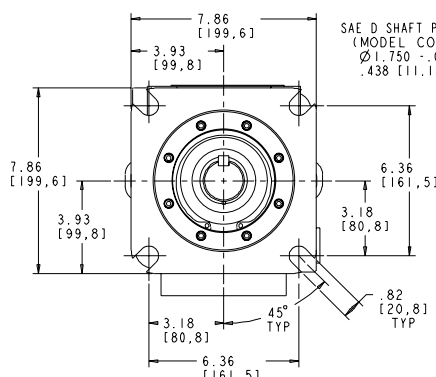
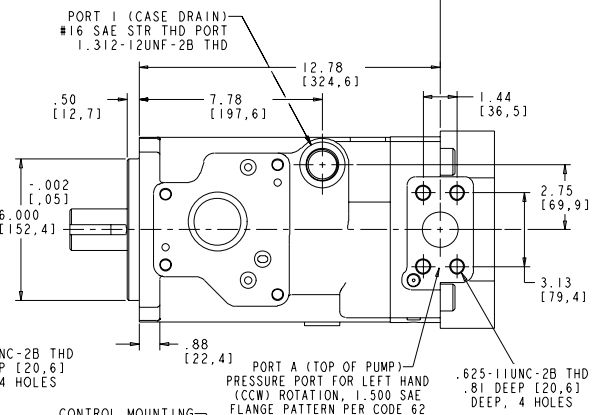
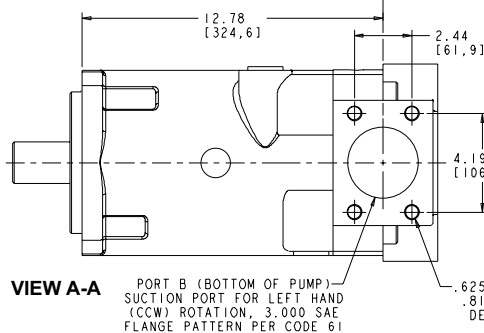
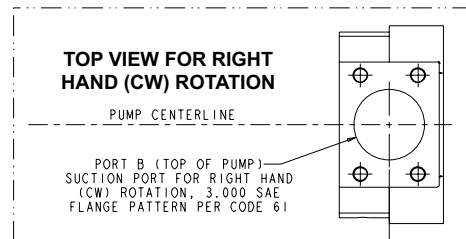
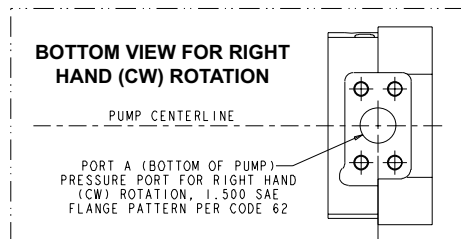
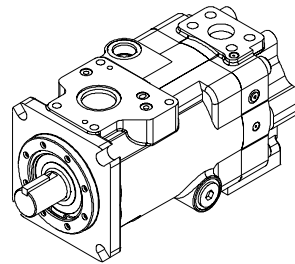
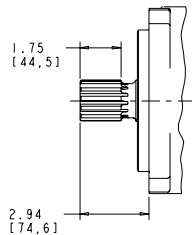
CONNECTION TABLE	
PORT	FITTING
INLET	3.00" SAE Code 61 Flange
OUTLET	1.50" SAE Code 62 Flange
CASE DRAIN (2 LOCATIONS)	#16 SAE Threaded Port

SHAFT TORQUE RATINGS		
MODEL CODE DESIGNATOR	SHAFT SIZE	ALLOWABLE INPUT TORQUE, IN - LBS
Y	Keyed (SAE D, 1.75" Dia.) 1.75" Long Keyway	15,000
L	Splined (SAE D, 13T, 8/16 Pitch)	15,000

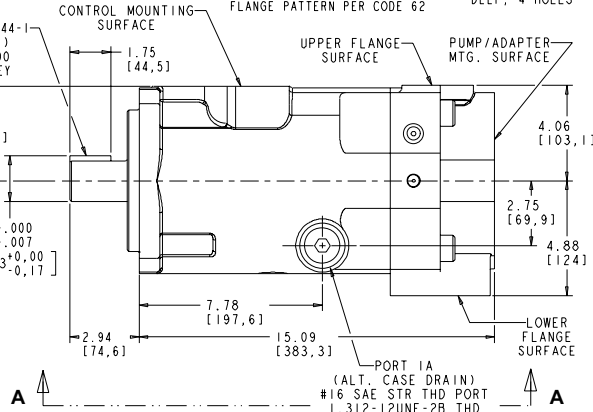
7500 IN-LB = MAXIMUM ALLOWABLE TORQUE APPLIED TO REAR OUTPUT

SAE "D" SPLINE SHAFT (SAE "44-4") MODEL CODE "L"

SAE INVOLUTE SPLINE
13 TEETH, 8/16 PITCH
1.750 ± .010 [44,45 ± .25] MAJOR DIA.



SAE "D-FACE" MTG. PATTERN
(SAE "152-4")

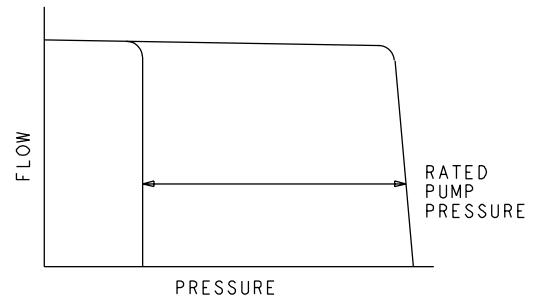
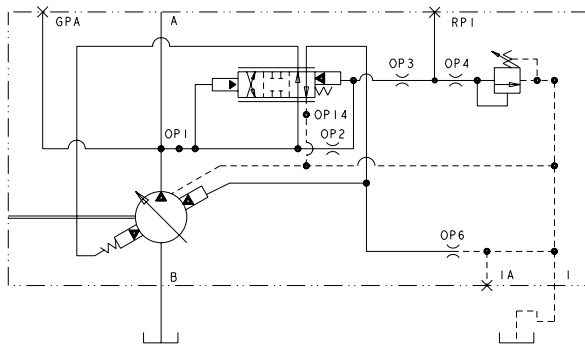


520241-302

PRESSURE COMPENSATOR P-1

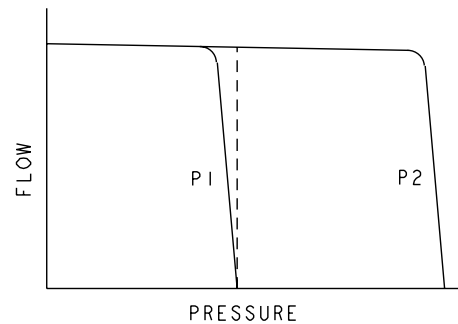
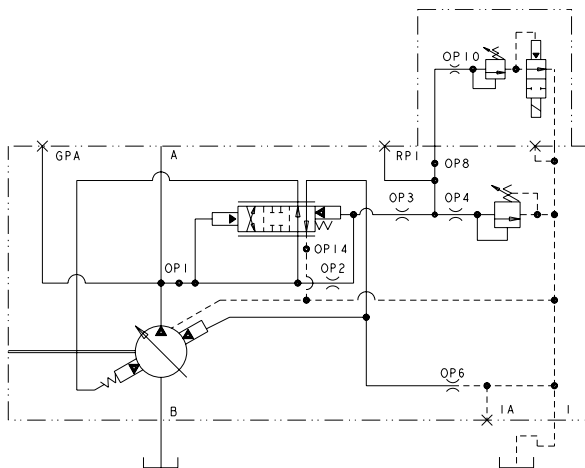
Ensures maximum pump flow until reaches preset control pressure setting then regulates output flow to match the requirements of the system while maintaining preset output pressure.

Can be adjusted from 250 psi working pressure up to the maximum pressure rating of pump.



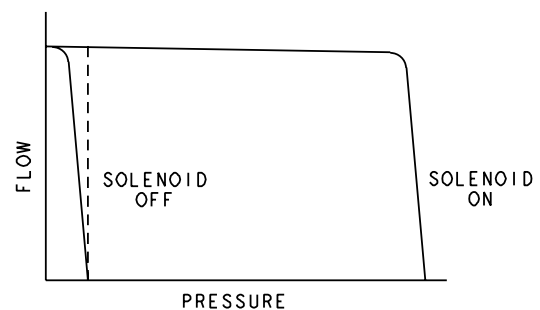
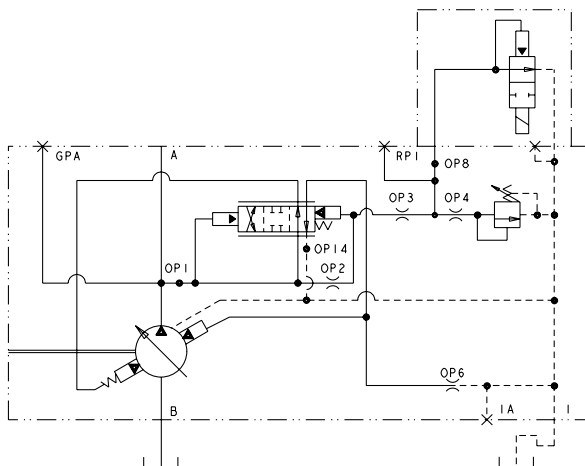
DUAL PRESSURE COMPENSATOR P-2

Provides two independently adjustable pressure compensated settings as selected by an integral solenoid.



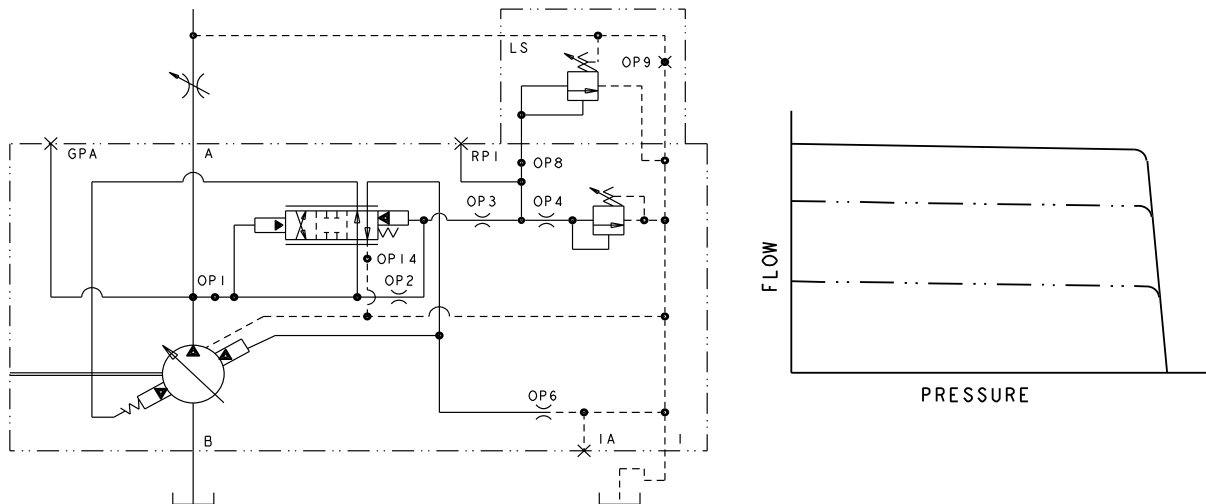
SOFT START PRESSURE COMPENSATOR P-C

Pump starts "softly" by going quickly at low pressure to a reduced flow setting, thereby reducing start up torque requirements.



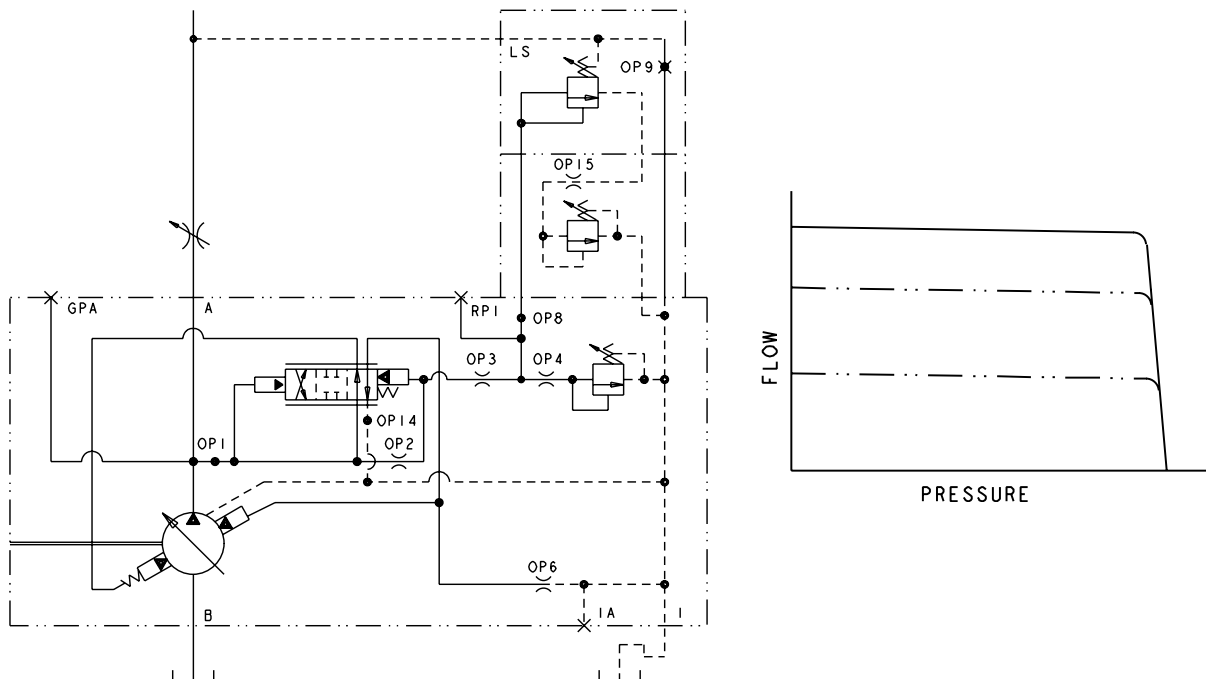
LOAD SENSING P-1/F

A constant flow output is maintained for a given flow control valve setting regardless of changes in drive speed and/or working pressure.



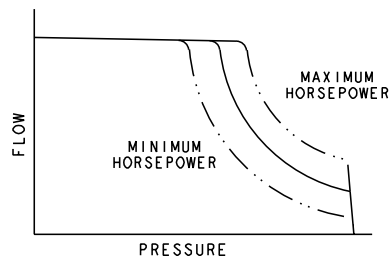
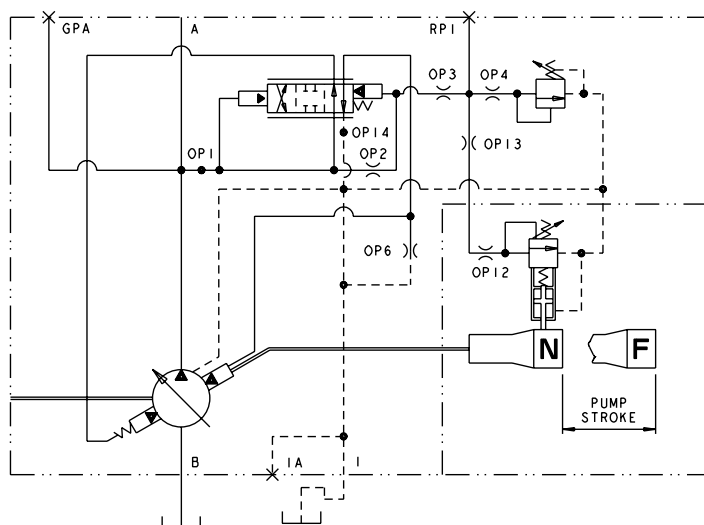
LOAD SENSE PLUS P-1/K

A constant flow output is maintained for a given flow control valve setting regardless of changes in drive speed and/or working pressure. The Load Sense Plus control enables the user to externally adjust the minimum pressure setting without affecting the load sense differential.



HORSEPOWER LIMITER P-1/H

Automatically reduces delivery, as unit pressure rises, to limit horsepower consumption.

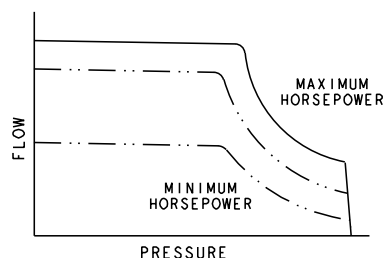
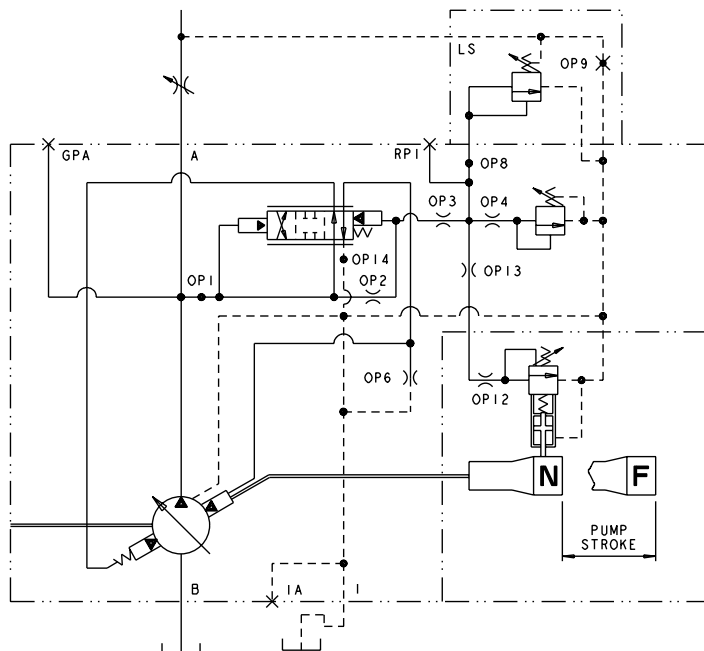


MODEL	MINIMUM HORSEPOWER	MAXIMUM HORSEPOWER	MINIMUM HORSEPOWER TO OBTAIN FLOW AT RATED PRESSURE
-048	20	65	25
-065	20	80	25
-075	20	80	20
-100	18	125	35
-130	18	125	35
-150	95	190	95
-180	115	230	115

ALL HORSEPOWER VALUES ARE FOR 1800 RPM.

HORSEPOWER LIMITER W/LOAD SENSING P-1/G

Load sensing control matches flow and pressure to load demand until (limited) horsepower setting is reached. Control then automatically reduces delivery as system pressure rises.

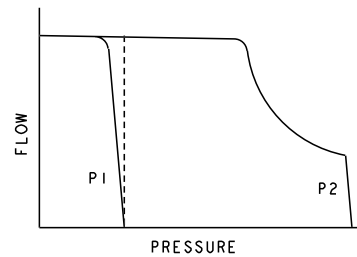
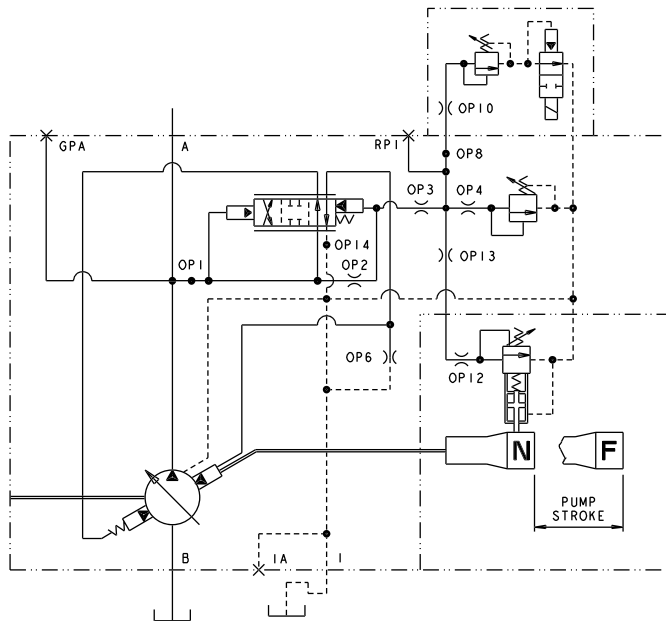


MODEL	MINIMUM HORSEPOWER	MAXIMUM HORSEPOWER	MINIMUM HORSEPOWER TO OBTAIN FLOW AT RATED PRESSURE
-048	20	65	25
-065	20	80	25
-075	20	80	20
-100	18	125	35
-130	18	125	35
-150	95	190	95
-180	115	230	115

ALL HORSEPOWER VALUES ARE FOR 1800 RPM.

DUAL PRESSURE COMPENSATOR W/HORSEPOWER LIMITER P-2/H

Provides two independently adjustable pressure compensated settings as selected by an integral solenoid. Automatically reduces delivery, as unit pressure rises, to limit horsepower consumption.

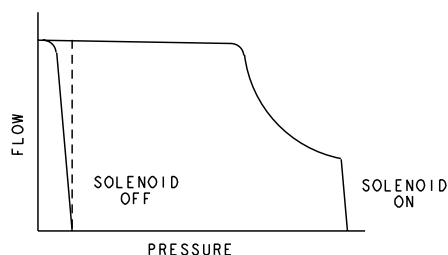
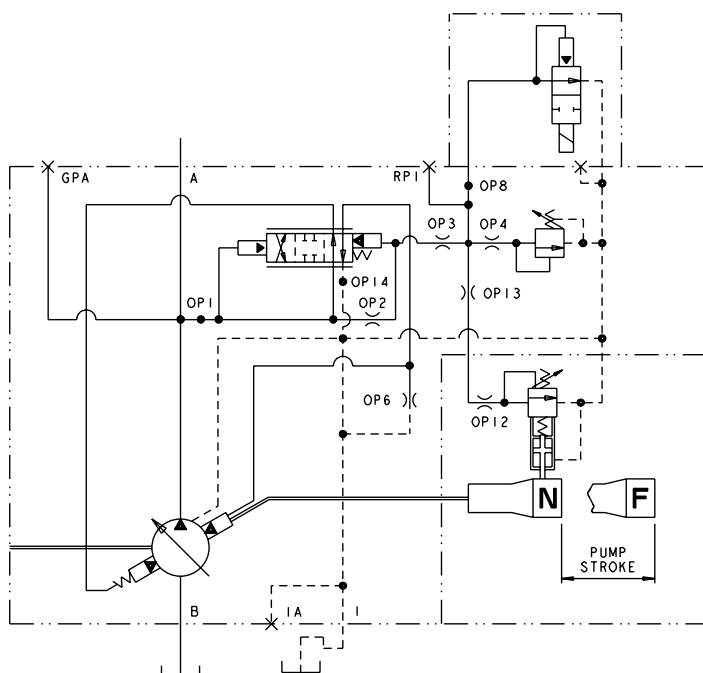


MODEL	MINIMUM HORSEPOWER	MAXIMUM HORSEPOWER	MINIMUM HORSEPOWER TO OBTAIN FLOW AT RATED PRESSURE
-048	20	65	25
-065	20	80	25
-075	20	80	20
-100	18	125	35
-130	18	125	35
-150	95	190	95
-180	115	230	115

ALL HORSEPOWER VALUES ARE FOR 1800 RPM.

1

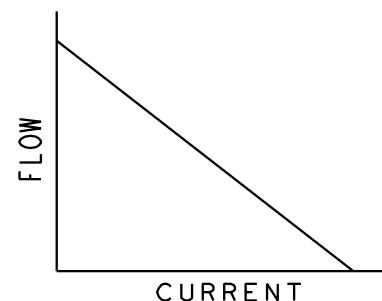
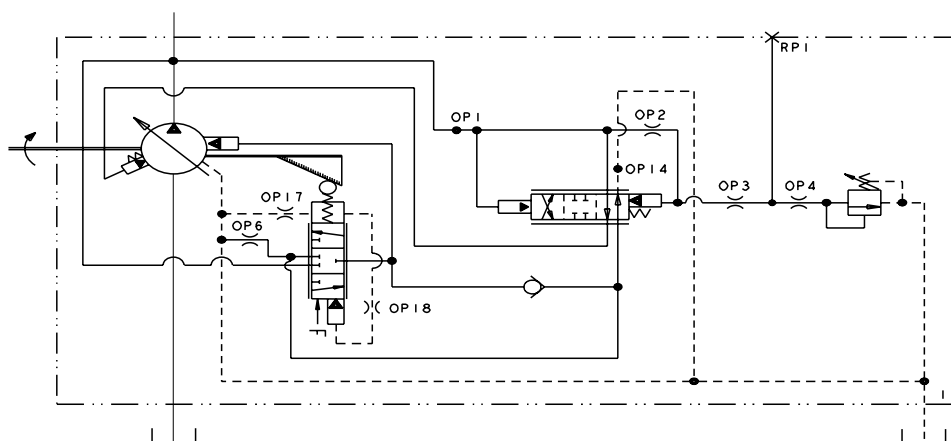
Pump starts “softly” by going quickly at low pressure to a reduced flow setting, thereby reducing start up torque requirements. Automatically reduces delivery, as unit pressure rises, to limit horsepower consumption.



MODEL	MINIMUM HORSEPOWER	MAXIMUM HORSEPOWER	MINIMUM HORSEPOWER TO OBTAIN FLOW AT RATED PRESSURE
-048	20	65	25
-065	20	80	25
-075	20	80	20
-100	18	125	35
-130	18	125	35
-150	95	190	95
-180	115	230	115

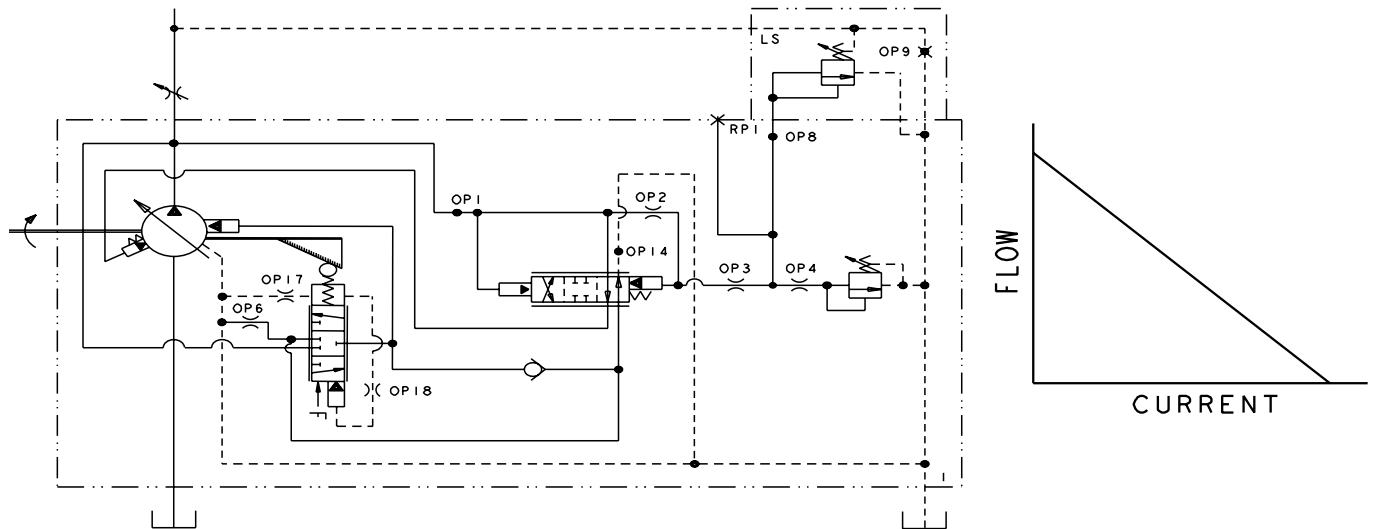
ALL HORSEPOWER VALUES ARE FOR 1800 RPM.

Pump displacement is linearly proportional to an electrical input. An increase in coil current will decrease pump displacement. Pressure compensator control overrides the EDC when preset control pressure setting is reached, then regulates output flow to match the requirements of the system while maintaining preset output pressure.



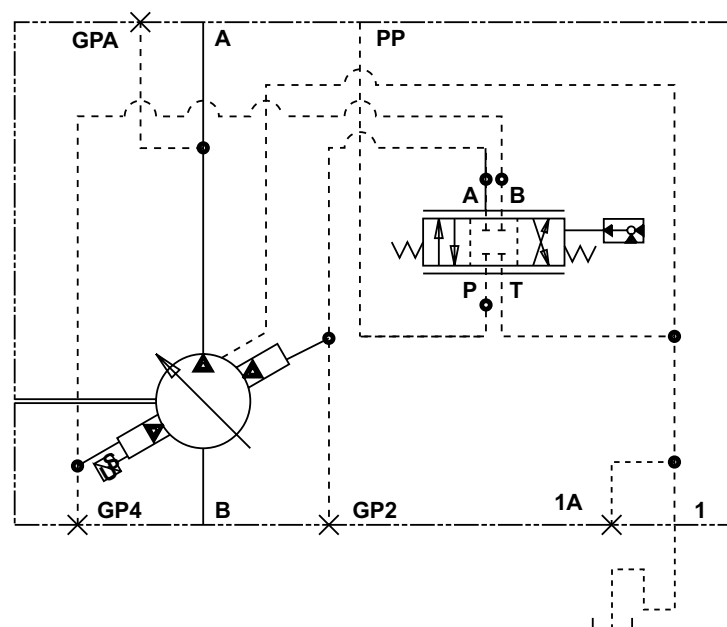
ELECTRONIC DISPLACEMENT CONTROL (EDC) W/LOAD SENSING P-E/F

Pump displacement is linearly proportional to an electrical input. An increase in coil current will decrease pump displacement. Load sensing control overrides the EDC and constant flow output is maintained for a given flow control valve setting regardless of changes in drive speed and/or working pressure. Pressure compensator control overrides the EDC when preset control pressure setting is reached, then regulates output flow to match the requirements of the system while maintaining preset output pressure.



ELECTRONIC SERVO VALVE V-M • V-S

An electrohydraulic servo valve positions the swashplate mechanism with a closed-loop position control (with LVDT feedback).



CONTROL OPTION	DISPLACEMENT						
	B-FRAME			C-FRAME		D-FRAME	
	PVG-048	PVG-065	PVG-075	PVG-100	PVG-130	PVG-150	PVG-180
P-1NN	√	√	√	√	√	√	√
P-1NN/F	√	√	√	√	√	√	√
P-1NN/K (MIN. STANDBY)	√	√	√	√	√	√	√
P-1NN/H	√	√	√	√	√	√	√
P-1NN/G	√	√	√	√	√	√	√
P-ENN		√	√	√	√	√	
P-ENN/F		√	√	√	√	√	
P-FNN		√	√	√	√	√	
P-FNN/F		√	√	√	√	√	
P-2NN	√	√	√	√	√	√	√
P-2NN/H	√	√	√	√	√	√	√
P-CNN	√	√	√	√	√	√	√
P-CNN/H	√	√	√	√	√	√	√
V				√	√	√	√



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