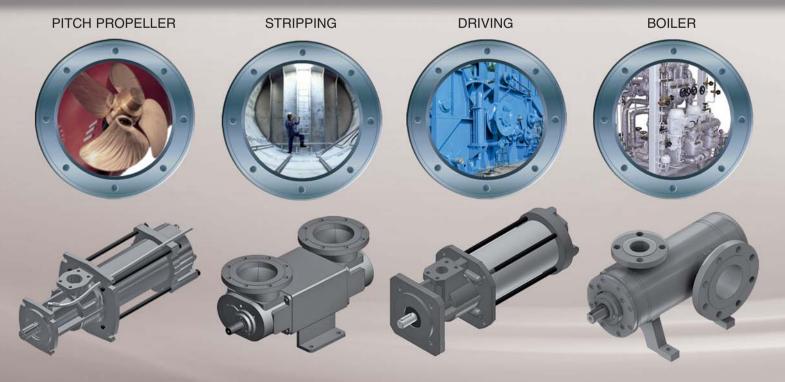


APPLICATIONS

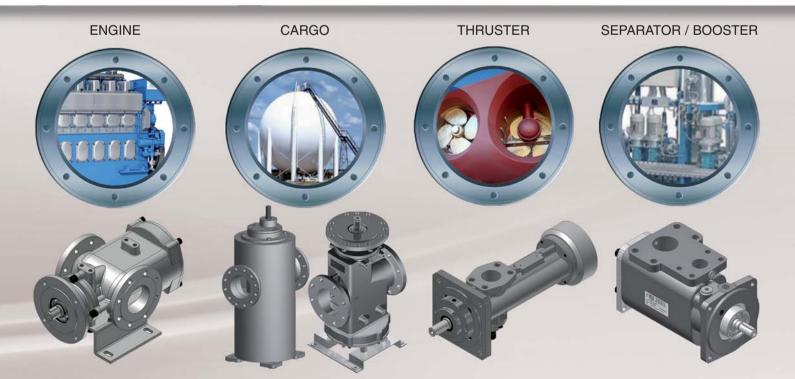








ON THE SEIM LANE

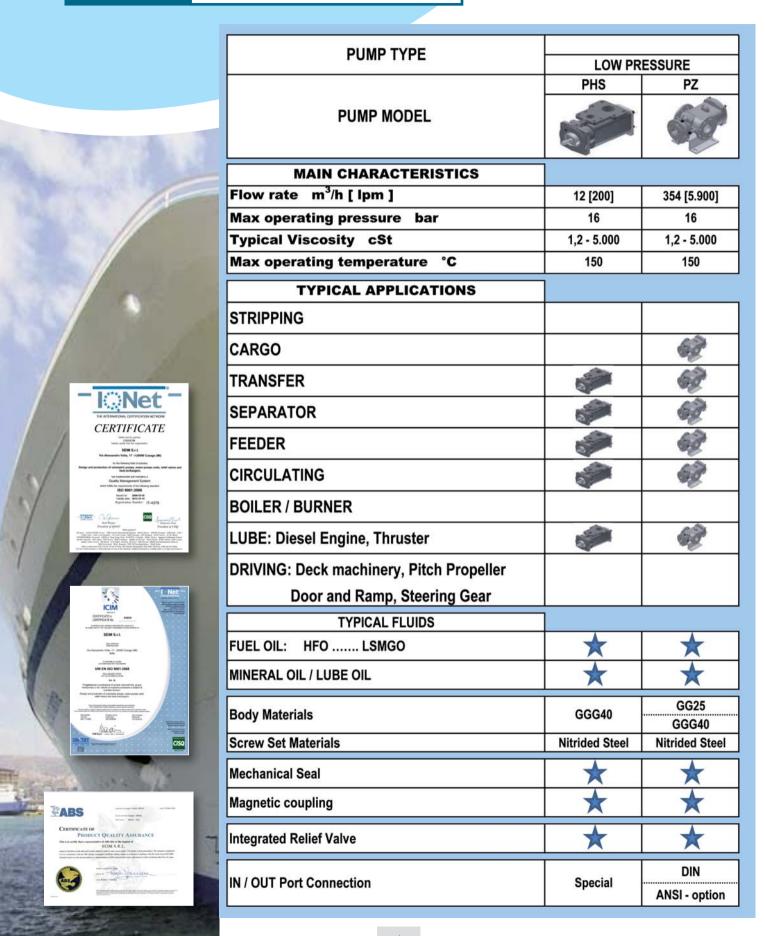


APPLICATIONS



PUMP TYPE

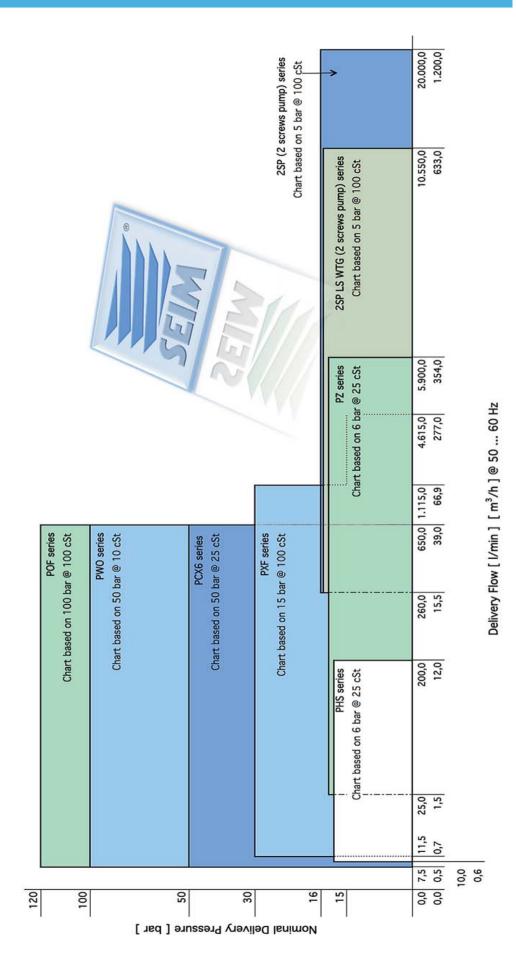
THREE / TWIN SCREW PUMPS





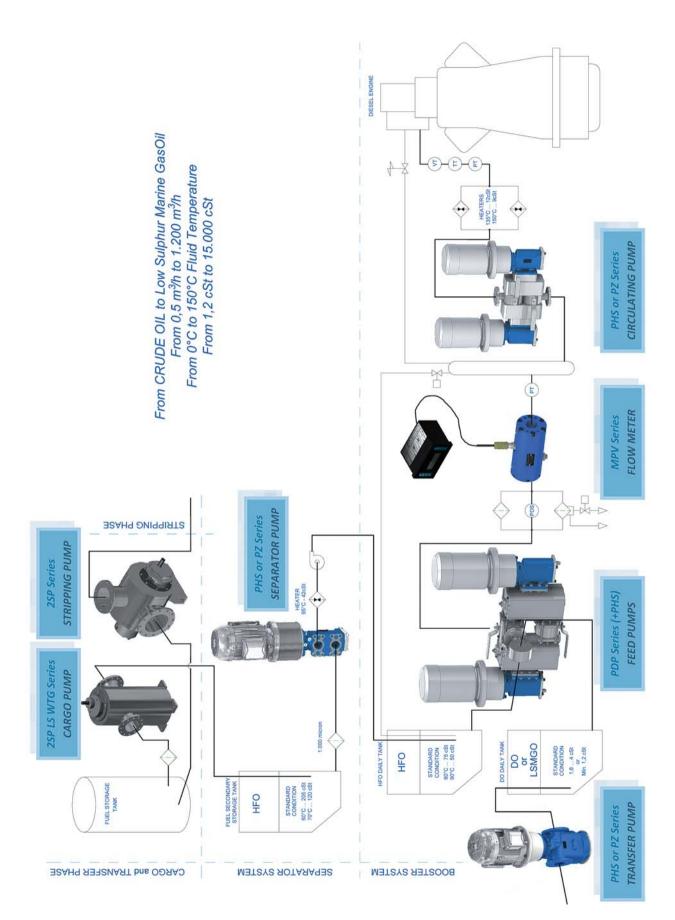
THREE SCREW PUMPS TWIN SCREW PUMPS				EW PUMPS	
	MEDIUM and HIGH PRESSURE			LOW PRESSURE	
PXF	PCX6	PWO	POF	2SP LS WTG	2SP
	CHA!				510
277 [4.615]	39 [650]	39 [650]	39 [650]	633 [10.550]	1.200 [20.000]
30	50	100	120	16	16
10 - 400	1,2 - 1.500	1,2 - 1.500	10 - 400	1,2 - 15.000	1,2 - 15.000
120	120	120	120	120	300
					50
				1	1
				1	50
				1	
			6		
	*	*		*	*
\Rightarrow	*	*	*	*	*
GG25	C.S.	GG25	Al	GGG40	C.S.
Carbon Steel	S.S. Nitrided Steel	GGG40 Nitrided Steel	Nitrided Steel	C.S. Nitrided Steel	S.S. Nitrided Steel
- Carbon oteer	A A	A	A	A. Interest of the control of the co	A. Intiliaca Steel
X			*	×	*
	X	×			
*	option			option	option
SAE 3.000psi	DIN	SAE 3.000psi	SAE 3.000psi	DIN	DIN
CAL GIOODPSI	ANSI - option	CAL GIOODSI	CAL GOODPOI	ANSI - option	ANSI - option





6







SERIES

PHS

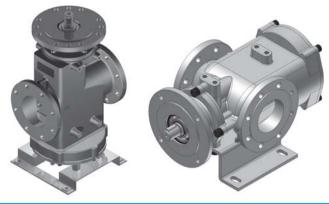


INSTALLATION DATA	
Installation	Indoor or Outdoor
Environment	Marine, Industrial
Application	Separator, transfer, booster, feeder, fuel supply, lubricating
OPERATING DATA	
Handled fluid	Fuel oil HFO - DO - LSMGO - Hydraulic and Lube oils
Viscosity range	From 1,2 to 5000 cSt
Pump speed	From 750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version ; CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 170 LPM - 10,2 M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 16 bar (from 1000 to 3600 rpm)
Operating temperature range	From 0 to 150 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubricated for life
Mounting arrangement	Horizontal or vertical mounting
Inlet & Outlet connection	Special version
MATERIALS	
Casing/Flanges	Cast Iron GGG40
Screws	Nitrided steel
0-rings	Viton ®
Surface protection	Only on demand



SERIES

PZ



INSTALLATION DATA	
Installation	Indoor or Outdoor
Environment	Marine, Industrial
Application	Cargo, separator, transfer, booster, feeder, fuel supply, lubricating
OPERATING DATA	
Handled fluid	Fuel oil HFO - DO - LSMGO - Hydraulic and Lube oils
Viscosity range	From 1,2 to 5000 cSt (specific configuration may apply)
Pump speed	From 750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version ; CCW on demand)
ioaasii (nonce non ocapiing one)	on (da sissing con an admand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 5400 LPM - 324 M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 16 bar (from 1000 to 3600 rpm)
Operating temperature range	From 0 to 150 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubricated for life
Mounting arrangement	Horizontal or vertical mounting (foot on demand)
Inlet & Outlet connection	DIN standard (ANSI on demand)
MATERIALS	
Casing/Flanges	Cast Iron GG25 or GGG40
Screws	Nitrided steel
0-rings	Viton ®
Surface protection	Only on demand



SERIES

PXF



INOTAL LATION DATA	
INSTALLATION DATA	
Installation	Indoor or Outdoor
Envirooment	Marine, Industrial
Application	Lube system
OPERATING DATA	
Handled fluid	Hydraulic and Lube oils
Viscosity range	From 10 to 5000 cSt (*)
Pump speed	From 750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version ;CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 4.615 LPM - 277M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 30 bar (from size 102 to 156 up to 16 bar)
Operating temperature range	From 0 to 120 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	By pumped fluid
Mounting arrangement	Horizontal or vertical mounting (foot on demand)
Inlet & Outlet connection	SAE up to size 083, DIN from size 102 to 156
MATERIALS	
Casing/Flanges	Cast Iron GG25 (standard), carbon steel on demand
Screws	Nitrided steel
O-rings	Viton ®
Surface protection	On demand



SERIES

PCX6



INSTALLATION DATA	
Installation	Indoor or outdoor
Environment	Marine, Industrial
Application	Boiler / Burner, Driving
OPERATING DATA	
Handled fluid	Diesel oils, hydraulic oils
Suggested inlet strainer filtration	400 μ
Viscosity range	From 1,2 to 5000 cSt
Pump speed	750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version; CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 650 LPM - 40 M ³ /h
Suction Pressure	From 0,5 + 10 bar (*)
Delivery pressure	UP to 50 bar
Operating temperature range	From 0 + 120 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubrificated for life
Mounting arrangement	Horizontal or vertical mounting
Inlet & Outlet Connection	DIN standard (ANSI on demand)
MATERIALS	
Casing/Flanges	Carbon Steel or Stainless Steel
Screws	Nitrided Steel
Liner	Cast Iron GG25 or Carbon Steel
0-rings	Viton ®
	Sand Blasting SA 2,5 + Inorganic Primer 75µ; Painting cycles on demand



SERIES

PWO



	•
INSTALLATION DATA	
Installation	Indoor or Outdoor
Environment	Marine, Industrial
Application	Boiler / Burner, Driving
OPERATING DATA	Light fuel oils LFO, LSMGO - heavy fuel oils (HFO) - lube oils, mineral
Handled fluid	and synthetic types
Viscosity range	From 1 to 10 cSt typical and up to 400 cSt (*)
Pump speed	From 2900 to 3500 rpm (*) low lubricity fluids; other viscosities allow different speeds.
Rotation (viewed from coupling end)	CW (Std version; CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 650 LPM - 40M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 100 bar continuos full / 120 bar with oils, at 2900 rpm
Operating temperature range	From 0 to 100 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubricated for life
Mounting arrangement	Horizontal, or vertical (also vertical semi-submerged, thanks to the intermediate flange).
Inlet & Outlet connection	Suction port: BSP thread - Delivery port: SAE 3000
MATERIALS	
Casing/Flanges	Cast Iron GG25, GGG-40 on demand (*)
Screws	Nitrided steel (*)
SULMS	
O-rings	Viton ®



SERIES

POF



INSTALLATION DATA	
Installation	Indoor or Outdoor
Environment	Marine, Industrial
Application	Driving
OPERATING DATA	
Handled fluid	For hydraulic oils, lubricating oils
Viscosity range	To 10 cSt to 400 cSt (*)
Pump speed	From 2900 to 3500 rpm (*)
Rotation (viewed from coupling end)	CW (Std version; CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 650 LPM - 40M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 120 bar continuos at 2900 rpm
Admissible temperature	0 to 120 °C
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubricated for life
Mounting arrangement	Horizontal, or vertical (also vertical semi-submerged, thanks to the intermediate flange).
Inlet & Outlet connection	Suction port: BSP thread - Delivery port: SAE 3000
MATERIALS	
	Cast Iron GG25, GGG-40 on demand (*)
Casing/Flanges	
Casing/Flanges Screws	Nitrided Steel (*)
Casing/Flanges Screws O-rings	Nitrided steel (*) Viton ®

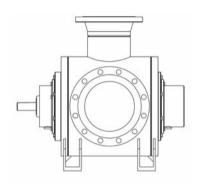


SERIES

2SP

SEIM Twin Screw Pumps 2SP Series

are available in four different arrangements suitable to match most of the applications. On demand, custom versions are available.

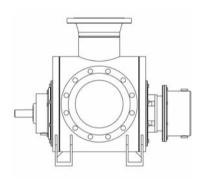


L1

Lube oil Fuel oil Hydraulic Oil Every fluid with lubricant characteristics

Self priming, double entry design, with internal bearings and sincronism timing gear.

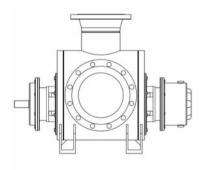
One mechanical or packing seal.



L2

Non lubricating low and medium viscosity and corrosive fluid

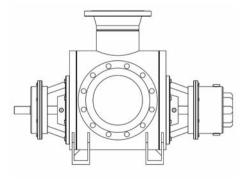
Self priming, double entry design, with external bearings separated by seals. Compact design for a simple maintenance and cheapest solution. Shaft seal shall be single or double.



L3

Non lubricating low and medium viscosity, corrosive and dangereous fluids.

Self priming, double entry design, with external bearings separated by seals. Long shaft design suitable for a wide range of seals configuration. Possibility to install a cartridge design.



L4

Non lubricating low and medium viscosity, corrosive and dangereous fluids in heavy duty service with operating more than 3 year.

Self priming, double entry design, with external bearings separated by seals. Strong shaft design for all dangereous fluids in all conditions. Design to meet API 676 and all API 682 mechanical seal configurations. Possibility to work in mixed phases.

EXPLODED VIEW, SECTION AND COMPONENTS

Working temperature

up to 200°c



PERFORMANCE DATA

2SP

Working temperature up to 300°c Viscosity range up to 2500 cst Viscosity range up to 15000 cst Working temperature up to 150°c Inlet pressure up to 6 Bar up to 1500 cst Inlet pressure up to 10 Bar Viscosity range Differential pressure up to 16 Bar Differential pressure up to 40 Bar Inlet pressure up to 6 Bar Speed up to 3500 rpm Working temperature up to 100°c up to 3500 rpm Speed Differential pressure up to 16 Bar Viscosity range up to 1500 cst Speed up to 3500 rpm Inlet pressure up to 6 Bar Differential pressure up to 16 Bar Speed up to 3500 rpm **H**, TP Ш Д \square L1 - one mechanical III 444 seal package; П .. lubricating fluids only Ш шт П П L2 - four "component" mechanical seal packages L3 - four "cartridge" mechanical seal L4 - four API 682 mechanical seal



SERIES

2SP LS WTG





INSTALLATION DATA	
Installation	Indoor or Outdoor
Envirooment	Marine, Industrial
Application	Cargo, Transfer, Lube system
OPERATING DATA	
Handled fluid	Fuel oil HFO, DO, LSMGO hydraulic and Lube oils
Viscosity range	From 1,2 to 5000 cSt
Pump speed	From 750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version ;CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 10.550 LPM - 633M ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 16 bar
Operating temperature range	From 0 to 120 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	By pumped fluid (lubrificated for life on demand)
Mounting arrangement	Horizontal or vertical mounting (with foot)
Inlet & Outlet connection	Din standard (ANSI on demand)
MATERIALS	
Casing/Flanges	GGG40 or carbon steel
Screws	Nitrided steel
0-rings	Viton ®
Surface protection	On demand



SERIES





INSTALLATION DATA	
Installation	Indoor or Outdoor
Envirooment	Marine, Industrial
Application	Check consumption fuel
TECHNICAL CHARACTERISTICS	
Delivery flow	0,9 to 900 LPM approx (0,05 to 54M ³ /h)
Pressure	version up to 200 bar continuos or version up to 400 bar/ 6000 psi continuos
Admissible temperature	-15 to +110 °C*(up to 150 °C upon request)
Precision	class 0,2% see table
Type of O/P	square wave signal in frequency, direct function of flow rate*
MATERIALS	
Casing/Flanges	Cast Iron GG25 (standard), carbon steel on demand
Screws	Nitrided steel
O-rings	Viton ®
Surface protection	On demand

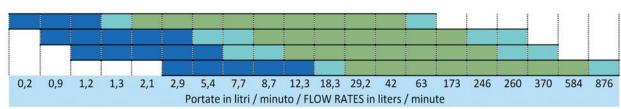
(*) For different values contact Seim

HOW TO SELECT THE MPV SERIES FLOW METER FOR YOUR APPLICATION

Use the graph below on TABLE 3 to select the perfect standard MPV size for your application. (Other sizes available on request – contact SEIM)

SUMMARY TABLE OF CAPACITY FOR EACH MODEL





Keys:

green: std range (accuracy class 0,2% read value) sky-blue.: extended range (accuracy class 0,4% read value) blue: over range (use possible with accuracy < 0,5 %)



SERIES

PDP & SD

Double & Single pump station for Fuel Oils

WHY SEIM'S CONDITIONING MODULES?

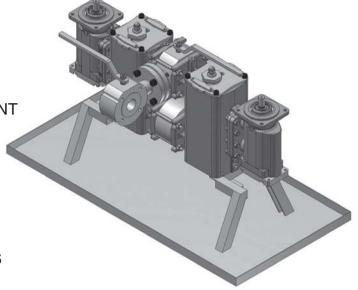
SEIM double pump station PDP Series represent the best solution

- RELIABILITY
- PRICING
- TECHNICAL CHOICE
- ROOM SAVING EXECUTION
- "CLOSE TO CUSTOMER" DEVELOPMENT



PDP Series it THE ONLY ONE for the following reasons

- LEAKAGE FREE
- EASILY INSPECTION CHECK VALVES and REGULATION PRESSURE VALVES
- STANDARD VALVES USED 1
- FLEXIBILITY 2
- 1 (easy traceability on the market)
- 2 (single and double modules with same components):



INSTALLATION DATA	
Installation	Indoor or Outdoor
Envirooment	Marine, Industrial
Application	Booster system
TECHNICAL CHARACTERISTICS	
Delivery flow	Up to standard 10,2 M³/h
Admissible delivery pressure	Up to 16 bar from 1000 to 3600 giri/min.
Admissible suction pressure	From -0,7 to 10 bar (*)
Kinematics viscosity	1,2 - 5000 cSt*
Admissible temperature	From 0 to 150 °C (*)
Driving speed (pump)	From 1000 to 3600 giri/min
Averange noise level	60 - 75 dB (A) at 3600 giri/min according to pump dimension
Filter	500 μm, filtering surface 500 cm ²
Direction of rotation	Clockwise, as seen from driving side

PART LIST (double & single conditioning modules)

#	Part	Material	Qty.
1	Body	GGG40	1
2	Body	GGG40	1
3	Shut-off valve IN/OUT DN32/40 ANSI150	A216WCB+AISI304+AISI410+R-PTFE	2
4	Filter Cartridge 500micron	AISI304	2
5	Filter Cover	GGG40	2
6	Check Valve Cartridge		2
7	Pressure Relief valve		2
8	Support		2
9	SEIM Screw Pumps ³ (see Performance Table)	GGG40	2
10	Manual fluid changeover valve	A216WCB+AISI304+AISI410+R-PTFE	1

³ Standard equipped with Mechanical seal.

