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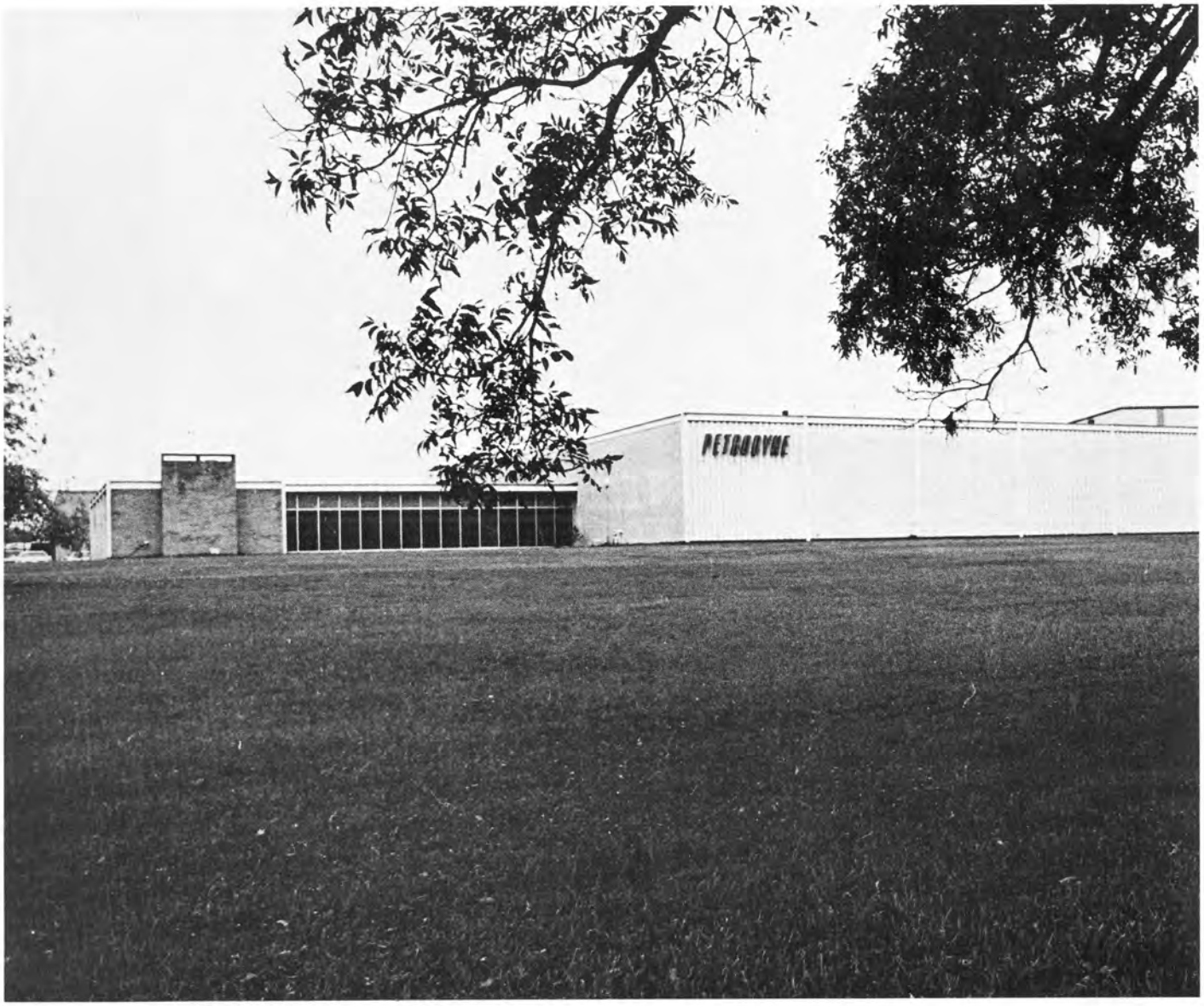
PETRODYNE PUMPS



PRESSURE FOR INDUSTRY

To 200,000 psi

1979-1980
GENERAL CATALOG

PETRODYNE PUMP APPLICATION SELECTOR GUIDE

APPLICATION

PETRODYNE MODEL	HYDROSTATIC TESTING										MAXIMUM PRESSURE	PAGE NUMBER
	LARGE PIPELINE	PLANT PIPING, VESSELS	LABORATORY SMALL VOLUME	CHEMICAL ADDITIVE	OILFIELD ADDITIVE	LDPE CATALYST INJECTION	GREASE INJECTION WIRELINE, ETC.	WELL TUBING TESTING	WATER JET CUTTING	AUTOFRETTAGE		
LM			X	X	X						10,000	15
HPT		X	X	X	X						20,000	9
SDA		X	X	X	X						18,000	10
DP-DE						X				X	200,000	10
6B	X	X									18,000	11
6B-SK-1	X	X									18,000	11
6B-SK-2	X	X									18,000	11
6B-SK1-6M	X										18,000	12
6B-TR2, 4	X	X									18,000	12
6B-SK-R2, 4	X	X									18,000	12
6B-SK2-DHT								X			18,000	22
52							X				30,000	24
PW					X						10,000	16
P-47-100									X		60,000	17
CI						X					60,000	13
SKG1							X				30,000	23
SK-142							X				26,000	26

CONTENTS

PAGE

PETRODYNE EQUIPMENT SELECTOR GUIDE

Air or Gas Powered Reciprocating Plunger Pumps

Page 9

Model LM

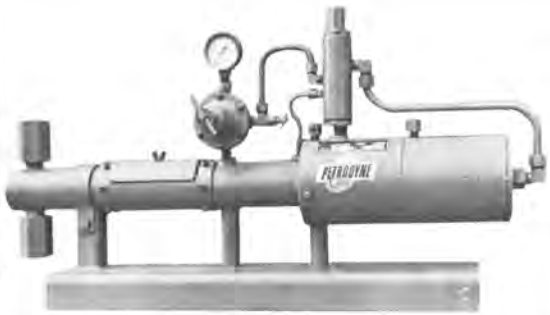
- Single acting stroke
- Discharge forward, Suction reverse
- Adjustable stroke
- 100 psi air or gas powered
- Choice of plunger size

Ratings

- Output pressure: 0-10,000 psi
- Volume output: .01-.36 pm
- Air pressure: 10-100 psi
- Air usage: 30 cfm max.

Service

- Chemical additive
- Pressure testing
- Laboratory
- Low volume
- Natural gas odorization injection



Page 9

Model HPT

- Single acting stroke
- Discharge forward, Suction reverse
- Adjustable stroke
- 100 psi air or gas powered
- Choice of plunger size
- Multiple power cylinders

Ratings

- Output pressure: 0-20,000 psi
- Volume output: .06-2.4 gpm
- Air pressure: 10-150 psi
- Air usage: 120 cfm max.

Service

- Chemical additive process
- Oilfield
- Laboratory
- Moderate volume
- Hydrostatic testing

Page 10

Model SDA

- Double acting stroke
- Discharge: Forward/reverse
- Suction: Reverse/forward
- Choice of plunger size
- 100 psi air or gas powered

Ratings

- Output pressure: 0-18,000 psi
- Volume output: .3-3 gpm
- Air pressure: 0-100 psi
- Air usage: 103 cfm max.

Service

- Chemical injection
- Fluid transfer
- Oilfield inhibitor injection
- Laboratory
- Glycol pumping
- Pressure testing
- All purpose shop
- Increased volume
- Hydrostatic testing

Page 10

Model DP-DE

- Double power cylinder
- Double ended
- 20-125 psi air or gas powered
- Choice of plunger size
- Adjustable stroke

Ratings

- Output pressure: 0-150,000 psi
- Volume output: 0-3 gpm
- Air pressure: 20-125 psi
- Air usage: 312 cfm max.

Service

- High pressure chemical injection
- Autofrettage
- Hydrostatic testing
- Ultra high pressure

Air, Gas or Water Powered Hydrostatic Testing Units

Page 11

Model 6B

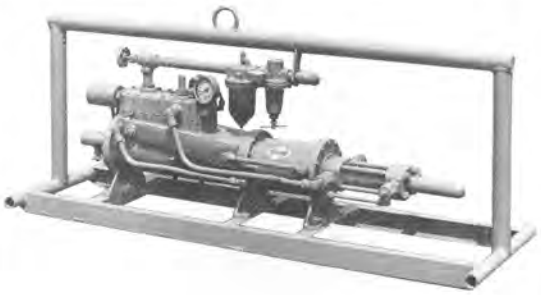
- Double acting stroke
- 100 psi air, gas, water powered
- Cast bronze/aluminum construction
- Choice of plunger size

Ratings

- Primary output pressure: 0-750 psi
- Secondary output pressure: 0-18,000 psi
- Primary volume: 14 gpm
- Secondary volume: .42-2.77 gpm

Service

- Hydrostatic testing
- Pipelines
- Vessels
- Exchangers



Page 11

Model 6B-SK-1

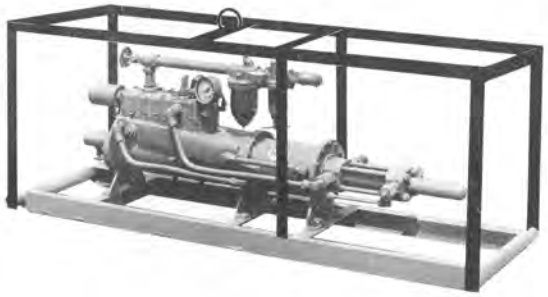
- Tubular steel skid
- Lifting eye

Ratings

Same as 6B

Service

Same as above



Page 11

Model 6B-SK-2

- 2" x 2" x ¼" angle iron frame
- Lifting eye

Ratings

Same as 6B

Service

Same as above

Page 12

Model Shown
6B-SK1-6M-D*

- 100 hp diesel or 168 h.p. gas driven
- 1500 gpm centrifugal fill pump
- Model 6B pressure pump
- Skid mounted

*Denotes skid mounting 6" centrifugal pump diesel driven

Ratings

- Primary pressure: 160 psi gas 100 psi diesel
- Primary volume: 1500 gpm gas 1200 gpm diesel
- Secondary pressure and volume same as Model 6B

Service

- Primary fill: large pipelines
- Large vessels
- High volume
- Hydrostatic testing

Page 12

Model Shown
6B-TR-R

- Trailer mounted
- Diesel or gas driven
- Fast fill
- 200 or 400 gal. mobile reservoir
- Model 6B pressure pump

Ratings

- Primary pressure: 100 psi
- Primary volume: 138 gpm
- Secondary volume and pressure same as Model 6B

Service

- Mobile
- Hydrostatic testing
- Isolated location

Page 12

Model Shown
6B-SK-R

- Skid mounted
- 200 or 400 gal. reservoir
- Diesel driven
- Fast fill
- Model 6B pressure pump

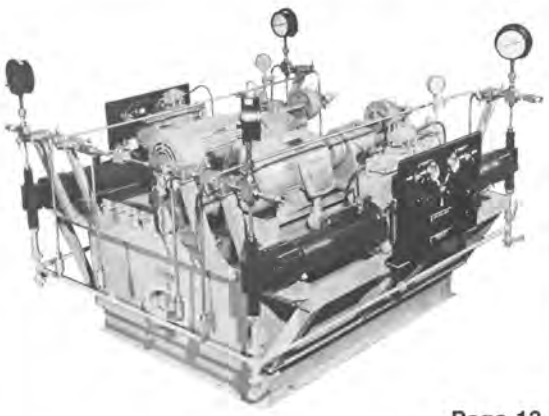
Ratings

- Primary pressure: 100 psi
- Primary volume: 138 gpm
- Secondary volume and pressure same as Model 6B

Service

- Semi-mobile
- Off-shore
- Isolated location
- Hydrostatic testing

Hydraulic Powered-Reciprocating Plunger Pumps



Page 13

Dual Injection Unit
Model CI

- Double acting stroke
- Continuous output
- Remote control
- Local control panel
- Variable stroke
- Variable speed
- Compact mounted
- Common reservoir
- Choice of plunger size

Ratings

- Pressure: 3000-50,000 psi
- Volume: .035-6.6 gpm
- Control air: 3-15 psi inst.
- Average weight: 3000 lbs.
- Dimension: 74" x 84" x 44"

Service

- LDPE catalyst injection
- LDPE modifier additive
- Chemical injection

Page 13

Single Injection Unit
Model CI

- Double acting stroke
- Continuous output
- Remote control
- Control panel
- Variable stroke
- Variable speed
- Reservoir mounted
- Choice of plunger size

Ratings

- Pressure: 3000-50,000 psi
- Volume: .035-6.6 gpm
- Control air: 3-15 psi
- Average weight: 1800 lbs.
- Dimension: 74" x 40" x 44"

Service

- LDPE catalyst injection
- LDPE modifier additive
- Chemical injection

SPECIALTY EQUIPMENT

Refinery, Petrochemical, Oilfield, Manufacturing, Aeronautical

Page 15

Model LM Pump With 5 Gallon Tank

- Remote, air or gas operated

Ratings

See Page 2

Service

- Chemical additive
- Oilwell paraffin inhibitors
- Hydrostatic testing

Page 15

Portable Relief Valve Tester

- Compact
- Portable or mobile
- 5 gallon tank
- Model LM test pump
- Remote air or bottle
- Gas operated

Ratings

- 5000 psi test
- 125 psi air or gas

Service

- Mobile or shop pressure test
- Relief valves
- Flanges
- Valves

Page 15

Portable Testing Pump

- Cart mounted
- Mobile service
- Model SDA test pump
- Air or gas operated

Ratings

See Page 2

Service

- Valves, flanges, vessels, pipes
- Power source: small press, crimping, clamping, jacking, raising
- Hydrostatic testing

Page 16

Beam Operated Chemical Pump

- Stainless steel construction
- Positive drive tension
- Compact 11" x 16" x 16"
- Lightweight 18½ lbs. net weight
- 2 or 5 gallon tank

Ratings

- 1.5-11.5 pints per 24 hours
- 10,000 psi operation

Service

- Remote oilfield
- Chemical additive
- Paraffin inhibitor addition
- Lubrication

Page 16

Truck Mounted High Pressure Pump

- Mobile service
- 4-wheel drive
- High volume — high pressure

Ratings

- 20 gpm at 9000 psi
- 3 gpm at 20,000 psi
- 125 gallon reservoir
- 25 foot hp hose

Service

- Hydrostatic testing
- Liquid transfer
- Chemical injection
- High pressure

Page 17

Water Jet Cutting Unit

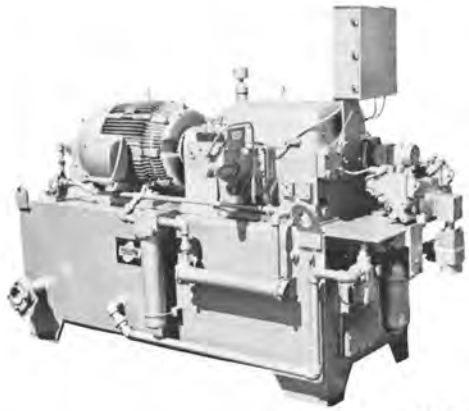
- Compact
- Insulated cabinet
- Hydraulic power
- Integral control panel
- Self-contained

Ratings

- Working pressure: 60,000 psi
- Volume output: 1.5 gpm
- 12 in. per minute cutting speed

Service

- Automated cutting
- Leather, carpet shoe soles, etc.
- Graphite/epoxy
- Cloth



Page 19

Custom Engineered Power Packages

- Rotary drives
- Linear drives
- Manifold assemblies
- Valves, components
- Custom control
- Console

Ratings

- 5-200 hp packages
- Electric, pneumatic
- Hydraulic, manual

Service

- Extruder drives
- Conveyor drives
- Offshore jacking systems
- Machine drives
- Divider pacer drives
- Billet casting systems

Page 20

High Pressure Relief Valves

- Reduced product loss
- Lower maintenance cost
- Eliminates rupture disc
- Tight seal after repeated actuations

Ratings

- 15,000-60,000 psi

Service

- LDPE process
- Hydrostatic testing
- Research and development

OILFIELD EQUIPMENT

Tube Testing, Wireline Wellhead and Grease Injection

Page 22

Well Tubing Testing Unit Model 6B-SK2-DHT

- Compact
- Skid mounted
- Diesel powered
- Model 6B high pressure pump
- Centrifugal low pressure

Ratings

- Low pressure water: 138 gpm @ 100 psi
- High pressure: Model 6B with optional high pressure plungers to 20,000 psi
- 25 hp diesel engine
- Mounted on 200 gallon reservoir

Service

- Continuous pressure testing of tubing while running in well
- Intermittent tubing testing
- Pipe rack testing

Page 22

Wireline Wellhead Equipment

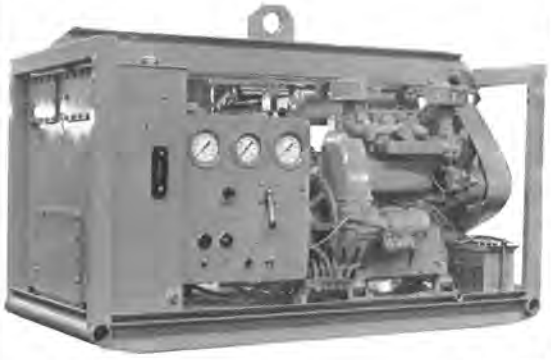
- Wellhead adapters
- Blowout preventers
- Tool traps
- Safety check valves
- Risers
- Line wipers
- Grease control heads

Ratings

- 2,000-15,000 psi working pressure
- All line sizes
- H^2S service
- Std service

Service

- Wireline
- Well service
- Workover
- Completion



Page 23

Model SKG1 Wireline Grease Injector

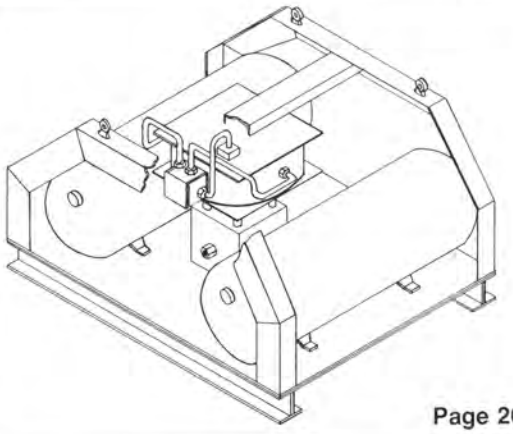
- Self contained
- Skid mounted
- Diesel powered
- Onshore/offshore

Ratings

- 10,000-20,000 psi working pressure
- 72 GPH grease output
- Auxiliary hydraulic supply

Service

- Wireline grease injection



Page 26

Model SK-142 Wireline Grease Injector

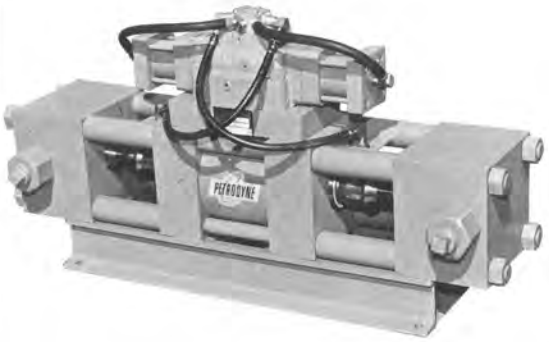
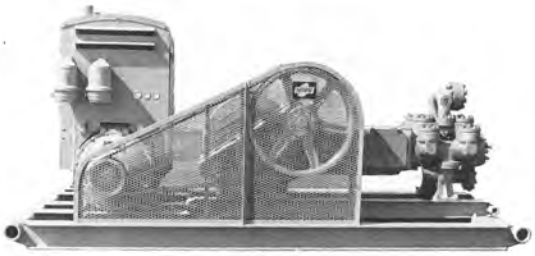
- Self contained
- Skid mounted
- Air powered
- Onshore/offshore

Ratings

- 0-15,000 psi working pressure
- 30 GPH grease output
- 60 gallon grease supply
- 100-250 psi rig air operated

Service

- Wireline grease injection

 **Page 24**	**Model 52 High Pressure Grease Injector** • Double acting stroke • Hydraulic powered	**Ratings** • Pressure: 3000-30,000 psi • Volume: 0-6 lbs./min. • Control air: 50 psi	**Service** • Stuffing box • Conductor cables • Cased hole and open hole wireline service
 **Page 16**	**High Volume Duplex/Triplex Pumping Units** • Skid mounted • Diesel/gasoline driven • High volume	**Ratings** • Pressure: 500-6,500 psi • Volume: 50-350 gpm • Horsepower: 18-200	**Service** • Fluid transfer • Water flood • Salt water disposal • Hydrostatic testing

AIR OR GAS POWERED RECIPROCATING PLUNGER PUMPS

Model LM

The Petrodyne Model LM Pumps are reciprocating positive displacement pumps which are capable of injecting a wide range of liquid chemical compounds.

Volume rates are easily controlled throughout the operating range while the pump is in service. All units are equipped with a throttle valve for control of the strokes per minute. A "lost motion", or variable stroke, adjustment which provides a wider range of volume control is standard on Model LM Pumps.

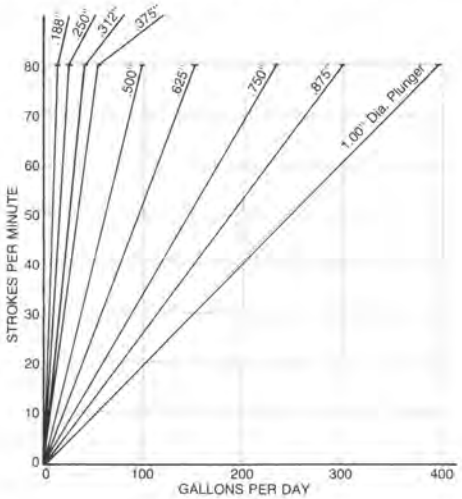
This pump is ideal for injecting corrosion inhibitors and chemicals into flow lines and tubing of producing wells. It is used in petrochemical plants for blending, proportioning or metering in small quantities, or may be used as a bench hydrostatic test pump.

The Model LM Pump operates on air or gas pressures from 10 to 100 psi. Discharge pressure is controlled by a pressure regulator on the input air line. The pump is constructed of non-corrosive materials throughout and can be supplied with or without a round, easy-to-clean stainless steel tank.

The Model LM Pump is available with discharge pressures to 17,000 psi, and a selection of fluid plungers from ¼" to 1" diameter.

Plunger Dia.		Pressure x 100		*Volume	
In.	Cm.	Lb./In.²	Bars	GPM	LPM
1/4	.64	170	11.7	.02	.08
5/16	.79	110	7.6	.03	.11
3/8	.95	80	5.5	.04	.15
1/2	1.3	40	2.8	.07	.26
5/8	1.6	27	1.9	.11	.40
3/4	1.9	18	1.2	.16	.60
7/8	2.2	13	.9	.21	.79
1	2.5	10	.7	.77	1.0

*Volume output based on 80 strokes per minute with 1" stroke.



Model "LM" Production Chart

Petrodyne Series HPT Pumps provide a dependable source of pressure from zero to 45,000 psi for hydrostatic testing; for injecting chemicals and other additives in producing oil and gas wells; for chemical injection in petrochemical plants; for transfer service; for handling LPG; for high pressure lubrication; for operating hydraulic motors and cylinders. They will handle all types of liquids, including water, common chemicals, viscous lubricants and abrasive-free sludges. Special materials are available for handling corrosive chemicals.

They are available with single, double, triple and quadruple powered cylinders, and operate on gas or air at pressures from 10 to 150 psi. The discharge pressure is in direct ratio to the operating pressure, which is easily and accurately controlled by a regulator on the input pressure line. Speed ranging from 5 to 80 strokes per minute is controlled by a throttle valve.

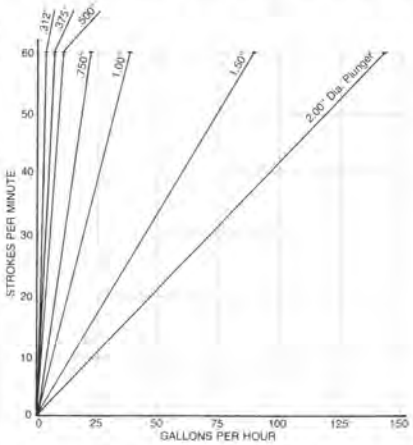
When the selected discharge pressure is attained, the pump stops and holds the pressure without pulsation and without exhausting powering gas or air.

These pumps are constructed of non-corrosive materials throughout. They have only two moving parts, for maximum service with minimum maintenance.

Pressure x 100

Plunger Dia.		HPT Model No. 1		2		3		4		*Volume	
In.	Cm.	PSI	Bars	PSI	Bars	PSI	Bars	PSI	Bars	GPM	LPM
5/16	.79	110	7.7	250	17.6					.06	.23
3/8	.95	80	5.6	180	12.4	300	21	450	31.6	.09	.34
1/2	1.3	40	2.8	100	7.0	173	12.2	220	15.5	.15	.57
3/4	1.9	18	1.2	45	3.2	76	5.3	106	7.5	.34	1.3
1	2.5	10	.7	25	1.8	42	3.0	60	4.2	.61	2.3
1-1/2	3.8	5	.4	10	.7	19	1.3	26	1.8	1.3	4.9
2	5.1	—		5	.4	10	.7	15	1.1	2.4	9.1

*Volume output based on 60 strokes per minute with 3½ stroke.



Model "HPT" Production Chart

Model HPT-1 Single Power Cylinder
Discharge pressure: 0 to 15,000 psi
Air consumption: 40 CFM @ 100 psi — 80 SPM.

Model HPT-2 Double Power Cylinder
Discharge pressure: 0 to 20,000 psi
Air consumption: 76 CFM @ 100 psi — 80 SPM.

Model HPT-3 Triple Power Cylinder
Discharge pressure: 20,000 psi*
Air consumption: 90 CFM @ 100 psi — 60 SPM.

Model HPT-4 Quadruple Power Cylinder
Discharge pressure: 0 to 20,000 psi*
Air consumption: 120 CFM @ 100 psi — 60 SPM.

*Fittings and fluid end can be supplied for 60,000 psi upon special order.

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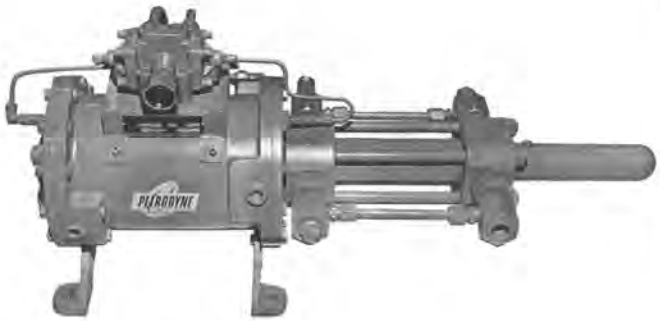
Model SDA



Petrodyne SDA Pump is an all-purpose air operated, double acting, reciprocating pump.

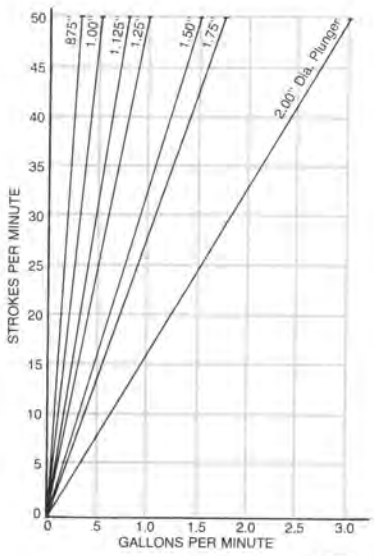
This pump is uniquely designed and can be assembled into a variety of combinations of fluid plungers and power cylinder sizes which make them adaptable to most any combination of power to discharge pressure which might arise.

A selection of two sizes of power cylinders and seven interchangeable fluid ends can provide discharge pressures to 18,000 psi with 100 psi operating pressures.

The discharge pressure is in direct ratio to the input air pressure and is controlled accurately with a regulator in the input air line.

It can be hand cart mounted and used as a portable testing pump, particularly suited for pressure testing valves and pressure vessels, power for small presses, crimping, clamping, jacking, raising work tables and many other applications found in industrial complexes.

Plunger Dia.		Volume Output		6" Cylinder Discharge Pressure		8" Cylinder Discharge Pressure	
In.	Cm.	GPM	LPM	PSI	Bars	PSI	Kg./Cm.²
7/8	2.22	.3	1.13	9500	655	17000	1195
1	2.54	.5	1.89	5800	400	10000	703
1-1/8	2.86	.73	2.76	4100	283	7300	513
1-1/4	3.18	.98	3.71	3000	267	5000	352
1-1/2	3.81	1.5	5.68	1900	131	3250	228
1-3/4	4.44	1.75	6.62	1300	90	2000	141
2	5.08	3.0	11.36	980	68	1500	105



Model "SDA" Production Chart

Model DP-DE

DOUBLE-POWERED-DOUBLE ENDED PRESSURES TO 200,000 psi*

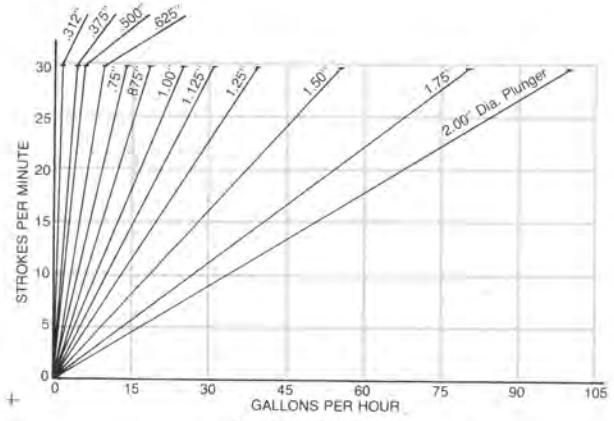
Petrodyne Model "DP-DE" Pumps are capable of delivering discharge pressure up to 200,000 psi. The discharge pressure is in direct ratio to input air pressure and is controlled accurately by a regulator in the input air line. When a selected discharge pressure is achieved, the pump maintains the pressure and volume unattended. Standard pumps are designed for continuous operating discharge pressures.

Model "DP-DE" Pumps are double-powered and have a 4" stroke. Power pistons are furnished in 8" or 10" diameters. A wide range of plunger diameters is available. See the operating data chart below for plunger diameters.

Air is used as the powering medium at pressures from 20 to 125 psi.

**Special applications only*

Plunger Dia.		Discharge Pressure				Volume	
		8" Cylinder		10" Cylinder		30 Strokes/Min.	
In.	Cm.	PSI	Bars	PSI	Bars	GPM	LPM
5/16	.79	130000	8966	200000	13793	.5	2
3/8	.95	88500	6103	135000	9310	3.4	13
1/2	1.3	49500	3414	78500	5414	6.0	23
5/8	1.6	31500	2172	50000	3448	9.5	36
3/4	1.9	22000	1517	35000	2414	13.8	52
7/8	2.2	16000	1103	25500	1759	18.7	71
1	2.5	12400	855	19400	1338	24.5	93
1-1/8	2.9	9800	676	15500	1069	31	117
1-1/4	3.2	8000	552	12400	855	38	144
1-1/2	3.8	5500	379	8500	586	55	208
1-3/4	4.4	4000	276	6200	428	75	284
2	5.0	3000	207	4700	324	98	371



Model "DP-DE" Production Chart

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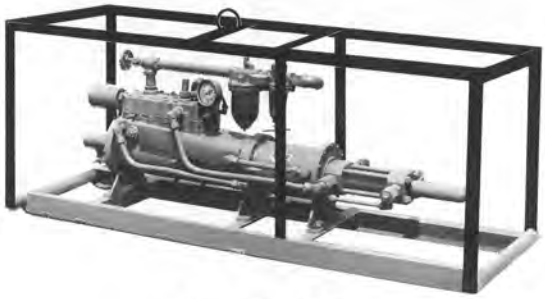
HYDROSTATIC TESTING UNITS

Model 6B



Model 6B-SK-2

Model 6B-SK-1

DESCRIPTION

The Petrodyne Model 6B is a two stage, double acting reciprocating plunger pump. No prime mover is necessary for operation other than air, gas or water at 100 psi. The primary stage allows for higher volume (14 GPM @ 100 strokes per minute) up to 750 psi. When the maximum primary pressure of 750 psi is attained the 6B pump automatically by-passes to the high pressure secondary stage for lower volume higher pressure testing to 18,000 psi.

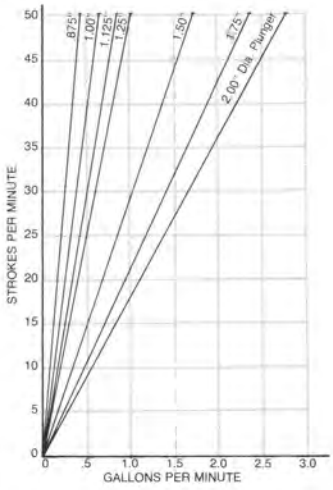
The Model 6B can be adjusted to stall at the desired output pressure and hold until leakage occurs. The pump will automatically restart to maintain pressure if leakage occurs.

Interchangeable secondary fluid ends are available from 7/8" to 2" diameter.

APPLICATIONS

- Pipeline
- Petrochemical/refinery process — Pressure vessels — Exchangers piping — Flanges
- Standard equipment
  Regulator — Lubricator — Filter — Recirculating valve
- Optional accessories
  Hoses — Strainers — Filters
- Optional fabrication
  Skid mounting — Reservoir mounting — Frame mounting — Trailer mounting

Model "6B" Production Chart



Plunger Dia.	Maximum Primary Pressure		Maximum Secondary Pressure		Volume Discharge Primary (at 100 SPM)		Volume Discharge Secondary (at 50 SPM)	
In.	PSI	Kg./Cm.²	PSI	Kg./Cm.²	GPM	LPM	GPM	LPM
2	750	51.7	1500	103	14	53	2.8	10.5
1-3/4	750	51.7	2000	138	14	53	2.4	8.9
1-1/2	750	51.7	3250	224	14	53	1.7	6.4
1-1/4	750	51.7	5000	345	14	53	1.0	3.8
1-1/8	750	51.7	7500	517	14	53	.8	3.2
1	750	51.7	10000	690	14	53	.6	2.3
7/8	750	51.7	18000	1241	14	53	.4	1.6

NOTE

1. Secondary discharge volume based on 50 strokes per minute.
2. Primary discharge volume based on 100 strokes per minute.
3. Varying supply pressure will effect pump output and pressure proportionately.

OPTIONAL HYDROSTATIC TESTING UNIT ARRANGEMENTS

6B-TR Unit*

SPECIFICATIONS

TRAILER	DIMENSIONS	
	IN.	CM.
6B-TR-R2	68 x 138 x 75	173 x 350 x 180
6B-TR-R4	68 x 138 x 83	173 x 350 x 211

Tandem axle with brakes

EMPTY WEIGHT

	LBS.	KILO.
6B-TR-R2	3250	1474
6B-TR-R4	3450	1565

FULL WEIGHT (approx.)

	LBS.	KILO.
6B-TR-R2	4918	2231
6B-TR-R4	6786	3078

SPECIFICATIONS

TANK	DIMENSIONS	
	IN.	CM.
6B-TR-R2	48 x 84 x 12	122 x 213 x 31
6B-TR-R4	48 x 84 x 24	122 x 213 x 62

TANK	CAPACITY	
	GAL.	LITER
6B-TR-R2	200	757
6B-TR-R4	400	1514

Complete with baffles, drain, foot valve and strainer.

WATER PUMP

TYPE	GPM	LPM	PSI	BAR
Centrifugal	138	522	100	7

ENGINE

GASOLINE	DIESEL
15 HP	21 HP

Complete with generator, starter and battery.

TEST PUMP

Petrodyne Model 6B

PIPING

Includes: strainer, relief valve, operating valve, pressure gauges, 2" NPT low pressure and ¾" NPT high pressure discharge lines.

**Formerly TR2-TR4*

6B-SK Unit*

SPECIFICATIONS

TANK	DIMENSIONS	
	IN.	CM.
6B-SK-R0	48 x 84 x 4	122 x 213 x 10
6B-SK-R2	48 x 84 x 12	122 x 213 x 31
6B-SK-R4	48 x 84 x 24	122 x 213 x 62

TANK	CAPACITY	
	GAL.	LITER
6B-SK-R0	0	0
6B-SK-R2	200	757
6B-SK-R4	400	1514

Mounted on 4" (10 cm.) I Beam. Complete with baffles, drain foot valve and strainer.

SKID DIMENSIONS

TANK	IN.	CM.
6B-SK-R0	48 x 92 x 39	122 x 234 x 99
6B-SK-R2	48 x 92 x 53	122 x 234 x 135
6B-SK-R4	48 x 92 x 64	122 x 234 x 163

EMPTY WEIGHT

	LBS.	KILO.
6B-SK-R0	2000	907
6B-SK-R2	2450	1111
6B-SK-R4	2650	1202

FULL WEIGHT

	LBS.	KILO.
6B-SK-R2	4118	1868
6B-SK-R4	5986	2715

WATER PUMP

TYPE	GPM	LPM	PSI	BAR
Centrifugal	138	522	100	7

ENGINE

GASOLINE	DIESEL
15 HP	21 HP

TEST PUMP

Petrodyne Model 6B

PIPING

Includes: strainer, relief valve, operating valve, pressure gauges, 2" NPT low pressure and ¾" NPT high pressure discharge lines.

**Formerly SK2-SK4*

NOTE: 6B-TR and 6B-SK are available with dual 6B pumps.

6B-SKI-6M Unit*

SPECIFICATIONS

TANK	DIMENSIONS	
	IN.	CM.
6B-SKI-6M	80 x 48 x 50	203 x 122 x 127

EMPTY WEIGHT

	LBS.	KILO.
6B-SKI-6M	3300	1497

WATER PUMP GASOLINE ENGINE

TYPE	GPM	LPM	PSI	BAR
Centrifugal	*1500	5678	160	11

**Rated at 2800 RPM*

WATER PUMP DIESEL ENGINE

TYPE	GPM	LPM	PSI	BAR
Centrifugal	1200	4542	100	6.9

ENGINE

GASOLINE	DIESEL
168 HP V8	100 HP 6 Cyl.

Complete with generator, starter and battery.

TEST PUMP

Petrodyne Model 6B

PIPING

6" suction flange, 6" discharge flange, ¾" NPT pressure discharge pipe.

**Formerly SKI-6B-6M*

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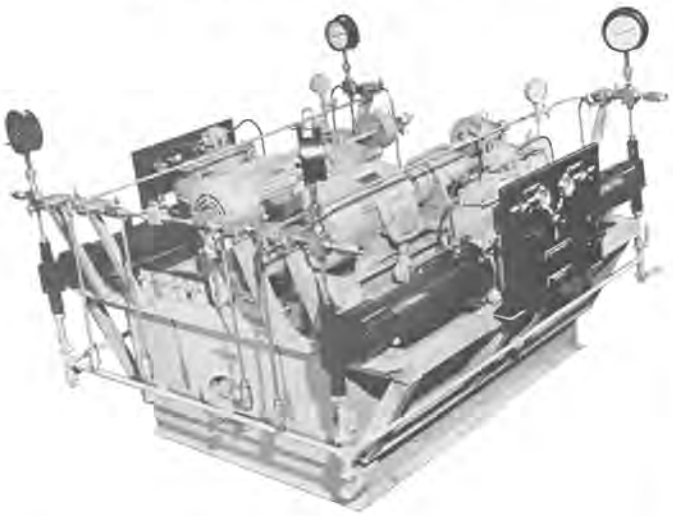
PETRODYNE MODEL CI

Hydraulic Reciprocating Plunger Pumps

Dual Unit with Manifold



Single Unit

Petrodyne high pressure hydraulically powered reciprocating pumps are designed and built for continuous use in processes requiring injection of chemicals and petrochemicals.

Models are available to meet requirements for discharge pressures ranging from 3,000 psi to 50,000 psi operating pressure. Fluid pumping capacities range from 0.15 gallons/hour to 396 gallons/hour.

These pumps are of the in-line type having a single power cylinder with power rods extending from both ends which actuate two co-axially mounted fluid ends in reverse sequence.

Air-piloted controls provide rapid reversal and minimize pressure drop between strokes. Pumps are conveniently and compactly mounted on a hydraulic fluid reservoir tank and permanently piped to an electric-motor-driven hydraulic pumping system.

SINGLE OR DUAL UNITS

Petrodyne units are available with either one or two pumps, each with its own power system, mounted on a single reservoir. The dual units offer greater versatility i.e., the second pump may be used for a stand-by unit when repairs or a packing change become necessary. The same pump can provide additional pumping capacity when required and can be admitted to the system with no interruption in production. Suction and discharge manifolding, piped complete, with steam or water tracing for temperature control is available with these units as an option.

ACCURATE, POSITIVE CONTROL

Petrodyne hydraulic pumping units are equipped with a precision control system which provides positive, finite control between minimum and maximum output with a high degree of repeatability. The accuracy and instantaneous response of these controls make them adaptable for use in conjunction with automation and computer control systems. Operating panels are mounted directly on the units and provide manual override of remote controls.

Dual or single unit systems provide constant pressure-variable volume output or constant volume with variable pressure.

Manifolding can be designed so that either or both fluid ends on each pump can be isolated at any time.

By means of a unique hydraulic stagging system, a set of dual pumps can be synchronized and controlled to provide constant, pulseless discharge flow and pressure.

FEATURES:

Precision Control—Instrument-air-controlled systems provide extremely accurate control of flow rates.

Hydraulically Powered—Reciprocating pump and hydraulic power source are both mounted on hydraulic reservoir tank. On dual units, two pumps and two power units are mounted on a single reservoir.

Variable Stroke—Adjustment on pump permits stroke to be set at any desired length while pump is in operation.

Variable Speed—Stroke speeds are controlled by means of an instrument-air-operated control on the hydraulic pump.

Temperature Control—Cooling jackets are provided for each high pressure cylinder through which a coolant may be circulated during operation; an oil bath chamber cools and lubricates the plunger and packing; hydraulic oil temperature is controlled by a water-cooled heat exchanger and temperature control valve.

Check Valves—Suction and discharge check valves are of the double ball type. Check valves are available as separate units for use with a closure seal or they can be furnished as an integral part of the fluid end.

Manifolds and Tracing—Suction and discharge manifolds, prepiped at the factory, are available at the customer's option as are rupture disks, drain valves, and high pressure gauges.

Manifolds can be traced at the factory prior to shipment; suction and discharge piping as well as check valves, block valves and fittings are double traced complete with copper tubing for steam, hot or cold water for temperature control.

Terminal Connections—Panels are provided with connections for instrument air, operating air, tracing water and coolant; process suction and discharge connections are conveniently located for piping to headers.

Control Panels—Each pump is manually controlled at a panel conveniently mounted on the unit. Instrument air, auxiliary air and pump speed controls are provided as well as motor controls and pressure gauges.

Maintenance—The Model 68 has been designed to provide long, continuous service with a minimum of maintenance. When packing changes are required, the fluid ends can be easily and rapidly removed and may be repacked with minimum lost time.

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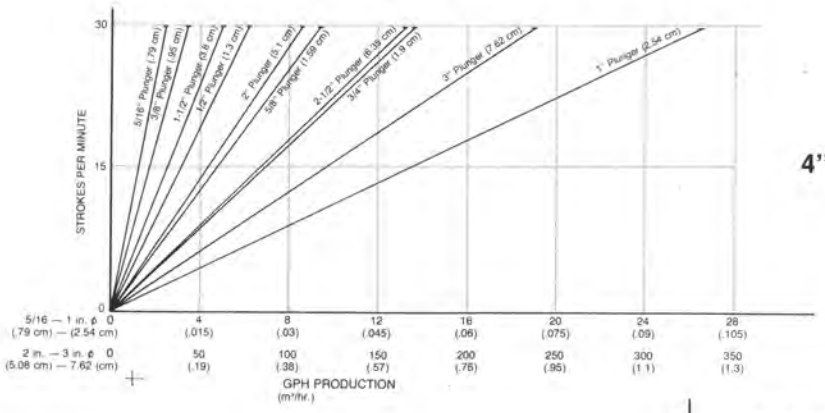
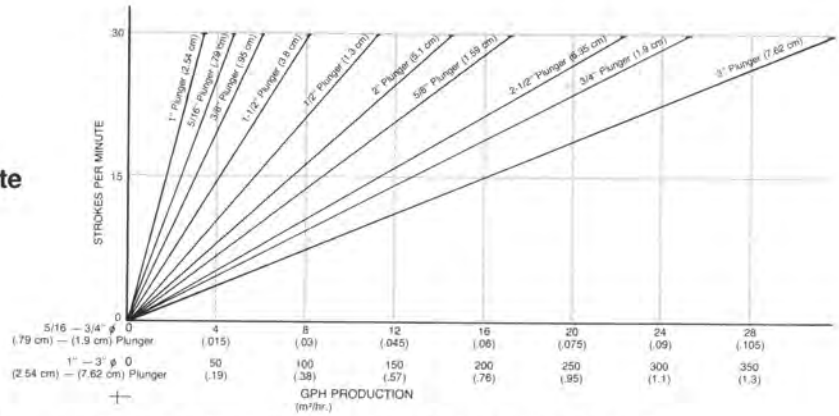
PETRODYNE MODEL CI
General Performance Data and Selector Guide

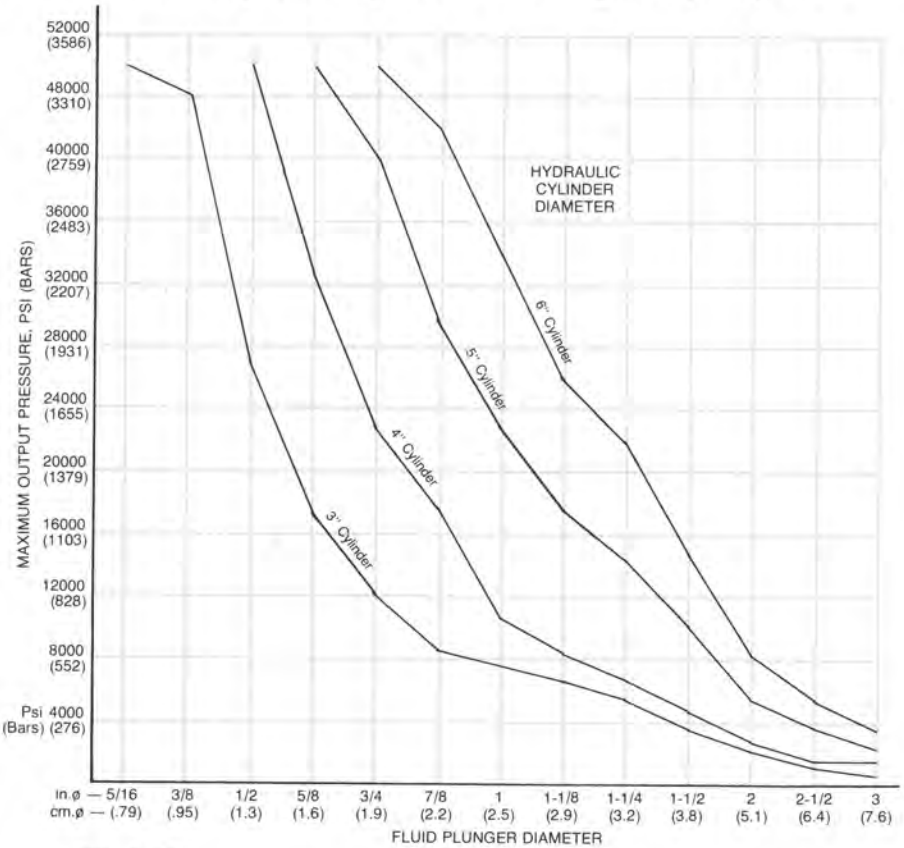


4" Stroke Length — 30 Strokes Per Minute

8" Stroke — 30 Strokes Per Minute



Maximum Output Pressure of Petrodyne Hydraulic Powered Reciprocating Pumps with 3", 4", 5" and 6" Hydraulic Cylinders Assuming 1000 psi Hydraulic Pressure



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SPECIALTY EQUIPMENT

Refinery, Petrochemical, Oilfield

Model "LM" Chemical Injector

This model is ideal for injecting corrosion inhibitors and chemicals into flow lines and tubing of producing wells, also into separators. It is used in petrochemical plants for blending, proportioning or metering in small quantities.

The Model "LM" operates on air or gas pressures from 10 to 100 psi. Stroke speed is controlled by a throttle valve; discharge pressure by a regulator on the input pressure line.

It has variable speed control through which discharge volume may be changed while the injector is in operation. It is built of non-corrosive materials throughout and can be supplied with or without a round, easy-to-clean stainless steel container.

SPECIFICATIONS:

See Model LM Page 9

Model SDA Portable Testing Pump Hand Cart Mounted

Hydrostatic testing of valves and pressure vessels, power for small presses, crimping, clamping, jacking, raising work tables and many other applications found in industrial complexes. Available as a single end, Model SDA shown here or as double end, Model DQA.

SPECIFICATIONS:

1. Pump — Petrodyne Model SDA
2. Discharge Pressure — 20,000 psi (1380 bar) maximum
3. Piping — Suction: .75" NPT (1.9 cm)
   Air: .5" NPT (1.3 cm)
4. Dimensions — L - 34" (86.4 cm), W - 13" (33 cm), H - 16" (40.64 cm)
5. Weight — 85 lbs.

Portable Relief Valve Tester

For testing and setting relief valves in chemical plants, refineries, oil and gas pipelines and in manufacturing or repair shops where relief valves are serviced. This compact, well balanced, completely unitized system can be mounted on a dolly, hauled in a pick-up truck or secured in a fixed location. Complete with Petrodyne Model LM Pump with five-gallon liquid tank, pressure chamber, valves, gauges, and rack for nitrogen bottle. Only operating power required is an air supply to 125 psi (can be bottled gas) to the ¼" NPT air connection on the LM Pump.

SPECIFICATIONS:

1. Pump — Petrodyne Model LM - .5" (1.3 cm) plunger
2. Maximum Pressure — 5000 psi (345 bar)
3. Piping — For flanged or threaded bodies
4. Operating Pressure — 125 psi (8.6 bar)
5. Volume Maximum — .07 GPM (.26 LPM)
6. Dimensions — L - 30" (76.2 cm), W - 24" (60.9 cm), H - 48" (121.9 cm)
7. Weight — 250 lbs. (113.4 kilo.)

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Model PW
Beam Operated Chemical Pump

The Petrodyne "PW" Beam-Operated Chemical Pump is built to meet the exacting requirements of injecting present-day chemicals in the proper proportions for maximum economy in treating oil.

Powered by the walking beam, the Model "PW" Pump is connected by a rod or cable from the walking beam to the pump operating arm. Variable stroke speed is obtainable by adjustments in the operating lever.

CAPACITIES: at 12 SPM and 90° pump lever movement:

3/16" Plunger (.48 cm)	0-1½ PINTS PER ¼½ HRS. (.71 liters)
1/4" Plunger (.64 cm)	0-2¾ Pints per 24 hrs. (1.3 liters)
5/16" Plunger (.79 cm)	0-4¼ Pints per 24 hrs. (2.0 liters)
3/8" Plunger (.15 cm)	0-6½ Pints per 24 hrs. (3.1 liters)
1/2" Plunger (1.3 cm)	0-11¼ Pints per 24 hrs. (5.3 liters)

FEATURES:

Fluid Head of "CB" Meehanite
Fluid Plunger of Stainless Steel
Stainless steel chemical tank — 2 or 5 gallon (7.6 or 18.9 liters)
Dust-proof chemical tank lid
Minimum of operating parts
Positive drive tension
Compact — 11" x 16" x 16" (27.9 x 40.6 x 40.6 cm)
Lightweight — only 18½ pounds, net weight (8.40 kg)
Operating Pressure — 0-10,000 psi (689 bar)

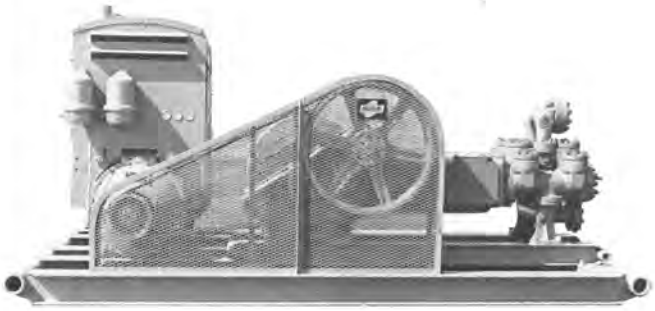
Truck-Mounted Test Units

Petrodyne Truck-Mounted Test Units are custom built to particular specifications. Units are available with separate prime movers or can be powered by a power take off from the truck transmission. Models are available for off-the-road use for testing pipelines, pressure vessels or process plants. Other units are available for injection of corrosion inhibitors into oil wells under high pressure conditions.

SPECIFICATIONS: (as shown)

1. Truck — ¾ ton - 6 cylinder - 4WD - PTO
2. Hydraulic Power — 30 GPM (112.5 LPM) axial piston Hydraulic pump driven by PTO
3. Test Pump — Petrodyne Hydraulic Powered Reciprocating Plunger
4. Discharge Volume — Minimum: 1.8 GPM (6.8 LPM) Maximum: 4.0 GPM (15.1 LPM)
5. Discharge Pressure — Maximum: 20,000 psi (1379 bar)

Portable High Volume
Duplex/Triplex Pumping Units



APPLICATIONS:

General pipeline and industrial pumping service requiring large volumes of fluid at moderate pressures — hydrostatic testing, fluid transfer, salt-water disposal, water flooding and crude oil gathering systems. The pump and engine are mounted on a skid. The well-balanced unit can be mounted on a trailer or secured at a permanent location.

SPECIFICATIONS:

1. Pump — Duplex or Triplex pump driven by gasoline or diesel engine.
2. Discharge Pressure — 500 to 6500 psi.
3. Piping — Flanged
4. Skid mounted

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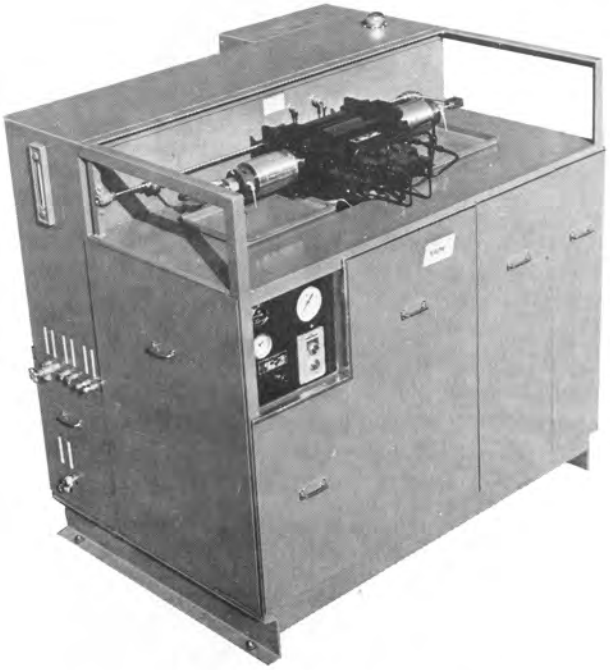
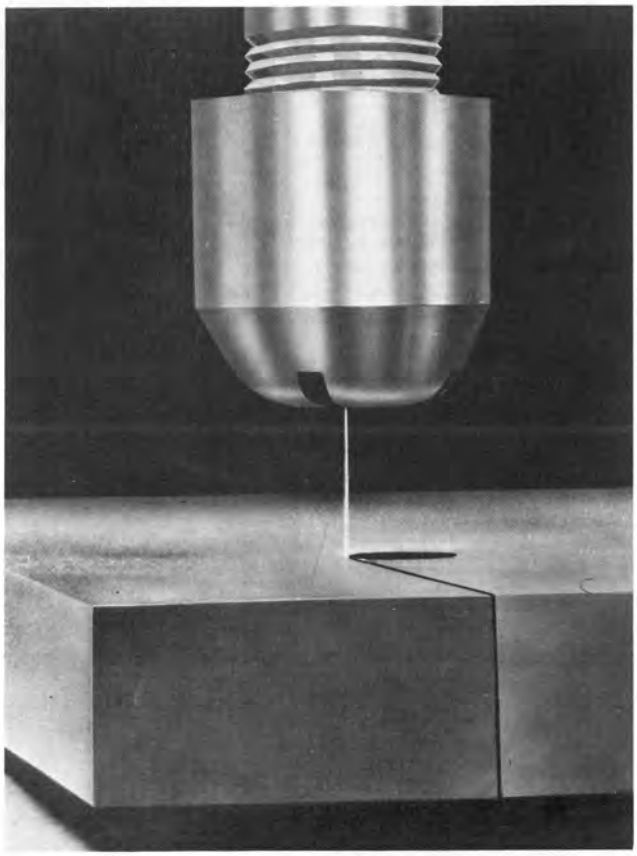
WATER - JET CUTTING UNIT

MODEL P-47-100

With Constant Flow High Pressure Pumping System



Constant Flow Hydraulic Power Package



Jet Cutter In Operation

DESCRIPTION

OILGEAR ENGINEERING has developed a constant flow high pressure intensifier pumping system. The unit is rated at 60,000 psi (4136 Bar) operating pressure for use in water jet cutting applications. Pictured above is a unit designed to provide a constant flow output of 1½ gpm (5.6 lpm) at 60,000 psi (4136 Bar). This output is sufficient to operate three .008 inch (.203 mm) diameter nozzles, two .010 inch (.254 mm) diameter nozzles or one .015 inch (.381 mm) diameter nozzle.

The intensifier is an adaptation and application of the high pressure technology of catalyst injection units which have been manufactured and industry proven by Petrodyne for many years. Such applications are provided by Petrodyne around the world in the petrochemical industry.

SPECIFICATIONS

Maximum Working Pressure:	60,000 psi (4137 Bar)
Maximum Discharge Volume:	1.5 gpm (5.680 lpm)
Suction Pressure:	25 psi (1.72 Bar)
Cutting Fluid:	Water
Electric Motor:	220/440V 60 H.P.
Hydraulic Pump:	3000 psi (207 Bar), 45 gpm (170 lpm)
High Pressure Filter:	5 Micron
Water Filter	5 Micron

DIMENSIONS

Intensifer Power Unit	36"x60"x48" (92x153x122 cm)
Weight	3,575 lbs. (7882 Kg)
Cutting Cabinet and Controls	24"x48"x60" (61x122x153 cm)
Weight	3,000 lbs. (6614 Kg)

NOZZLE SPECIFICATIONS

Diameter	Flow Rate (Approx.)
.005 (.013 cm)	27 cipm (443 cc)
.008 (.020 cm)	69 cipm (1131 cc)
.010 (.025 cm)	105 cipm (1721 cc)
.015 (.038 cm)	250 cipm (4097 cc)

APPLICATIONS

The water jet unit has found wide spread use in cutting non-metallic materials. Water jet units are suitable to cut materials such as rubber, both natural and synthetic; leather, carpet fiber, plywood, corrugated plastic sheets, paper, laminated plastic panels. It has also found use in the aircraft industries for cutting materials such as laminated graphite epoxy and polyurethane foam.

Other materials which can be cut are frozen foods, baker products, foam insulation materials, vinyl flooring and synthetic shoe sole materials and cloth.

This type of cutting system lends itself to automated equipment. There are many applications using water jets which can be programmed for mass production of many varied items. One Petrodyne power unit is capable of driving a number of jet orifices simultaneously. Cutting speeds up to 12 inches (30 cm) per second have been attained during cutting of non-metallic material.

One of the principle advantages of water cutting is that the velocity of the water cutting is so great that very little wetting results during the cutting operation.

Another plus, inherent in this type of cutting is the elimination of dust from the atmosphere which is generally accompanied by conventional types of saw cutting.

This type of cutting provides a minimum width of cut, resulting in minimum loss of material since the width of the cut can be as small as .005 to .010 in. (.127 to .254 mm).

The water jet has another advantage over saw or knife type cutting in that it can cut in any direction. It can cut contours or any numeric controlled direction. The cuts are clean and a better cutting surface finish can be obtained than with conventional cutting methods.

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SPECIALTY EQUIPMENT

Custom Engineered Power Packages

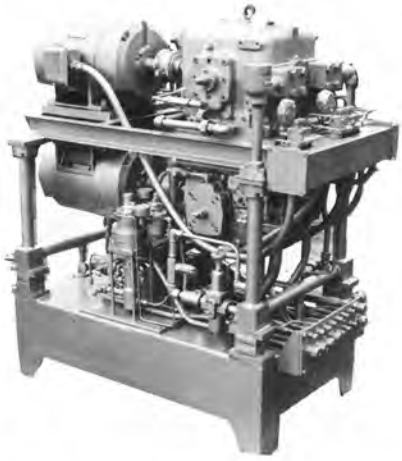
EXTRUDER HEAD DRIVE

Provides a variable speed drive capable of operating at low and stalled speeds indefinitely. It is designed for applications where it is desirable to precisely limit and maintain torque when stall conditions develop.

MULTIPLE CONVEYOR DRIVE

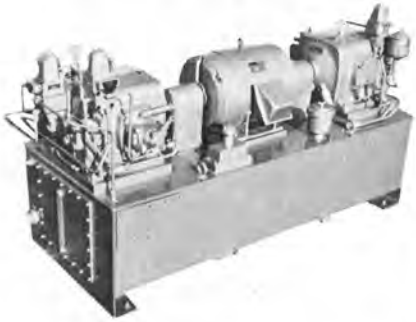
Ten identical stations having one common command. All drives will accelerate together according to master command. Each drive can be adjusted to produce a constant percentage draw in relation to the master line speed throughout the entire range. Speed accuracy is better than 0.2%.

WINDER & PACER UNIT



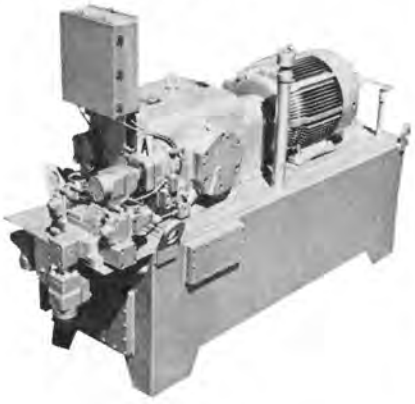
Dual drive requires minimum floor space for complete system. One drive is controlled by hydraulic tachometer feedback with better than 1% accuracy during load changes from driving to dynamic braking. Second drive controls system torque as the roll diameter increases to produce a constant tension drive.

PAINT SPRAY MACHINE DRIVE



Single reservoir provides two drives; one controlling machine speed with a simple lever control, the other automatically controlling web tension with a surface type rewind drive.

OFFSHORE DRILLING BARGES



Complete hydraulic system with control console and power packages for elevating mobile drilling platforms.

ALUMINUM BILLETS DIRECT CASTING STATION HYDRAULIC CONTROL SYSTEM

Hydraulic control for a casting station at a constant speed while load increases as more metal is cast, with remote adjustable casting speed and accuracy better than 1.0%.

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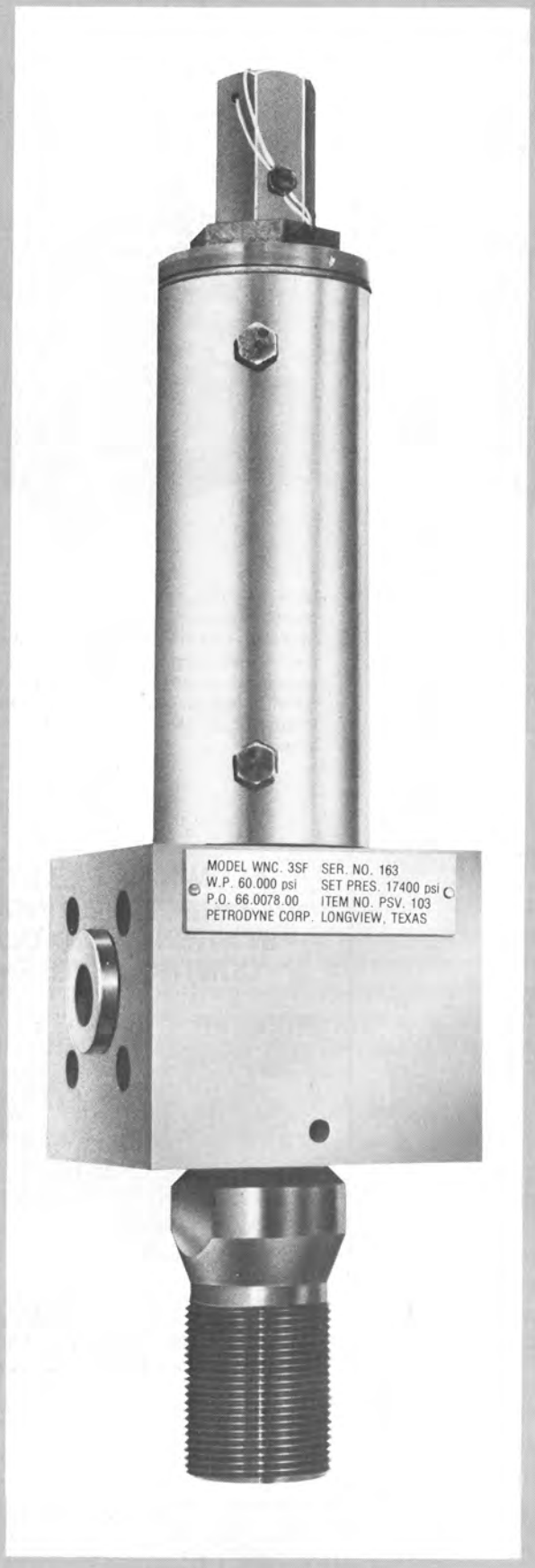

Oilgear

PETRODYNE Products

MODEL WNC

HIGH PRESSURE RELIEF VALVE

PETRODYNE High Pressure Relief Valves have been developed primarily for service with high pressure ethylene processing; however, they can be effectively used wherever a safe dependable high pressure safety relief valve is required for either gas or liquid service at pressures up to 60,000 psi.

Nozzle Design

Nozzle orifices have been scientifically designed to provide maximum escape velocities with balanced thrust force discharge, and with a minimum of erosion and flow damage to stem and seat.

Stem and Seat

Both seating surfaces are ground and polished and provide an effective seal even after repeated actuations. Stems and seats may be repaired or replaced at the plant site.

Metallurgical Quality

The particular care used in the specification and heat treatment of metals makes possible the reliable performance of the Petrodyne relief valve, and enables the valve to withstand extremely high pressures and low temperatures.

Reduced Plant Maintenance Cost

Installation of Petrodyne high pressure relief valves results in less down time and reduced product loss. Total maintenance costs are lower, since operations do not have to be suspended as is the case where the replacement of rupture discs is necessary. The Petrodyne relief valve reseats itself automatically at the rated reseating pressure.

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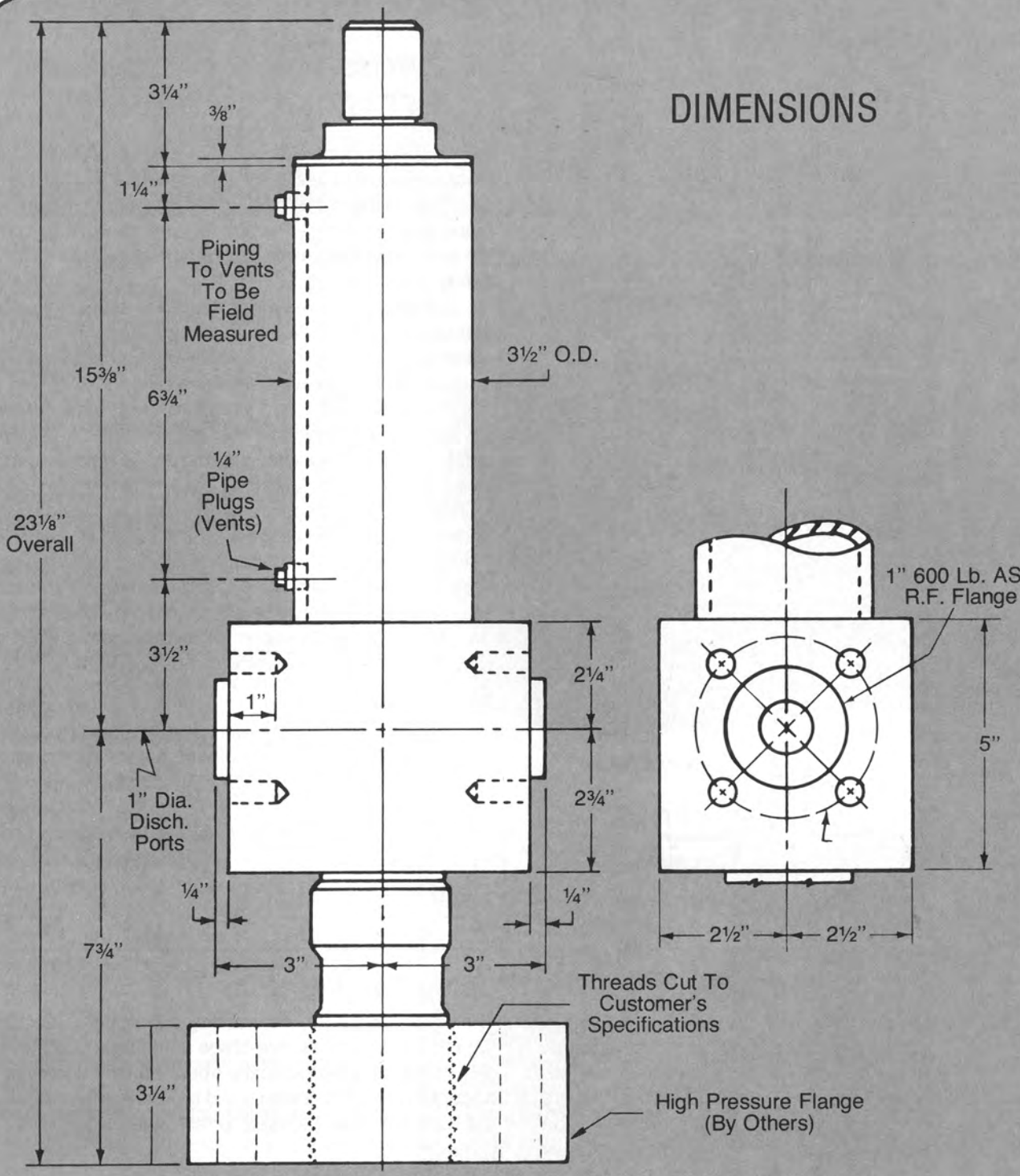
DIMENSIONS



MODEL WNC RELIEF VALVE SIZES AND PRESSURES

NOZZLE DIAM.—IN.*	MAXIMUM PRESSURE SETTING—PSI	NORMAL RESEATING PRESSURE—PSI	EXHAUST CONNECTION FLANGE
WNC-5 5/16	25,000	23,500	600 LB. ASA-1"RF
WNC-4 1/4	35,000	33,500	600 LB. ASA-1"RF
WNC-3 3/16	50,000	48,000	600 LB. ASA-1"RF
WNC-2 1/8	60,000	58,000	600 LB. ASA-1"RF
WNC-1 1/16	60,000	58,000	600 LB. ASA-1"RF

*When ordering, please designate orifice size by using complete model code with digit as indicated.

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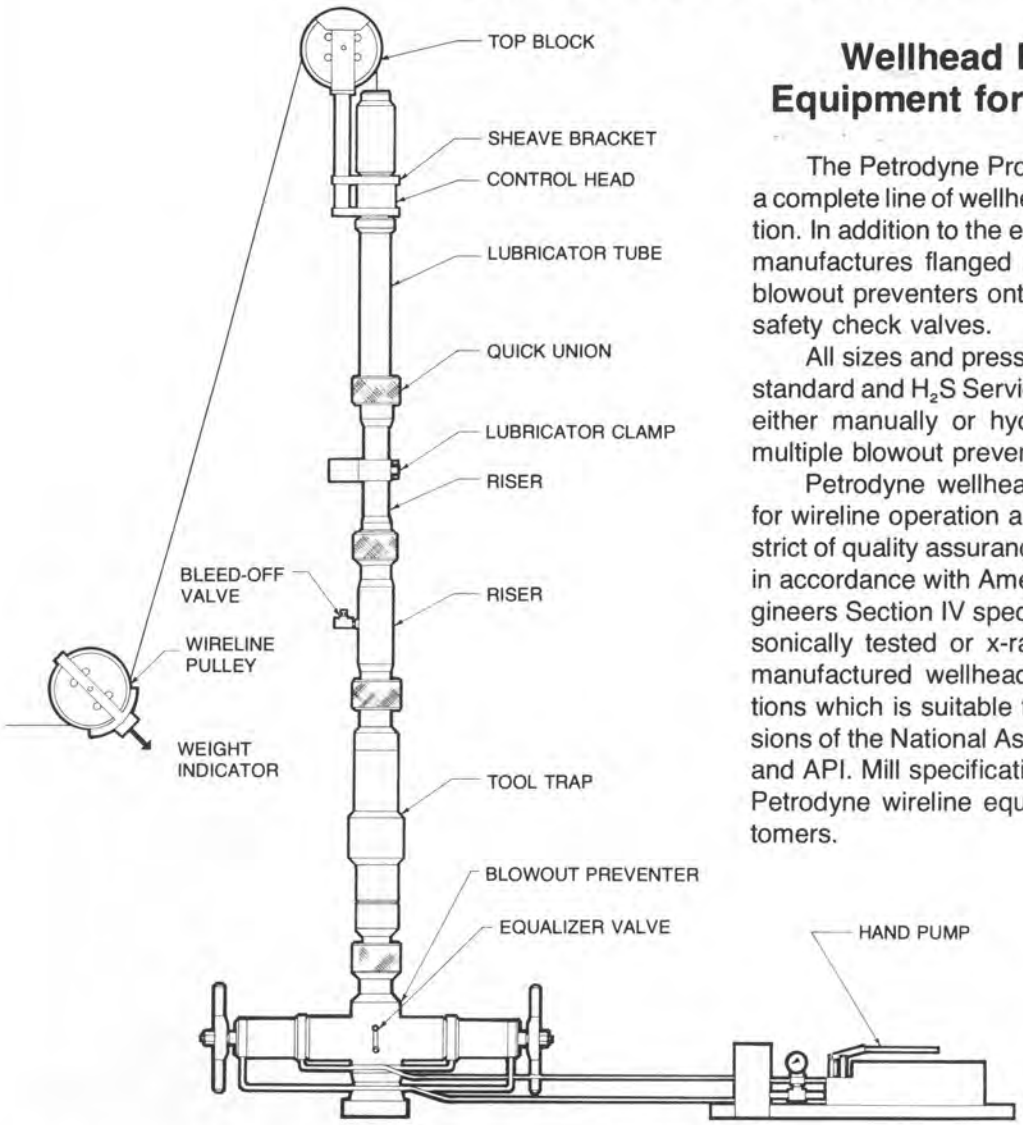
OILFIELD EQUIPMENT



Wellhead Pressure Control Equipment for Wireline Operations

The Petrodyne Products Corporation manufactures a complete line of wellhead equipment for wireline operation. In addition to the equipment shown, Petrodyne also manufactures flanged adapters and swages to mount blowout preventers onto wellheads as well as ball type safety check valves.

All sizes and pressure ratings are available for both standard and H_2S Service. Petrodyne equipment may be either manually or hydraulically actuated. Single and multiple blowout preventers are available.

Petrodyne wellhead pressure control components for wireline operation are manufactured under the most strict of quality assurance standards. All welds are made in accordance with American Society of Mechanical Engineers Section IV specifications and each weld is ultrasonically tested or x-rayed for its integrity. Petrodyne manufactured wellhead equipment for wireline operations which is suitable for H_2S service meets the provisions of the National Association of Corrosive Engineers and API. Mill specifications for all raw materials used in Petrodyne wireline equipment are provided to its customers.

Model 6B SK2-DHT Tubing Testing Unit

For pressure testing tubing as it is being run in the well to detect improper joint make-up and tubing leaks. Dependable Petrodyne 6B Pump gives a gradual, smooth buildup of controlled pressure. Unit holds exact pressure without pulsations. With good pressure gauges on the pump, leak can be detected in four or five seconds at maximum pressure. All working components, including 25 HP diesel engine, five-stage centrifugal pump, Model 6B Pump, and hydraulically operated wire line reel, are mounted on a 200-gallon liquid tank which is skid-mounted. Unit can also be used to test pipe on the rack.

SPECIFICATIONS:

1. Water Pump — Type: 5-stage centrifugal
   Volume: 138 GPM (518 LPM)
   Pressure: 100 psi (6.9 bar)
2. Test Pump — Petrodyne Model 6B
3. Pressure Rating — 0 to 18,000 psi
4. Reservoir — 200 gal. (757 liters)
5. Power — Diesel 30 hp @ 2600 rpm
6. Dimensions — L - 120" (305 cm), W - 48" (122 cm), H - 53" (135 cm)
7. Weight — 5600 lbs. (2540 kilo.)

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GREASE INJECTION UNIT

MODEL SKG1

Three Standard Models

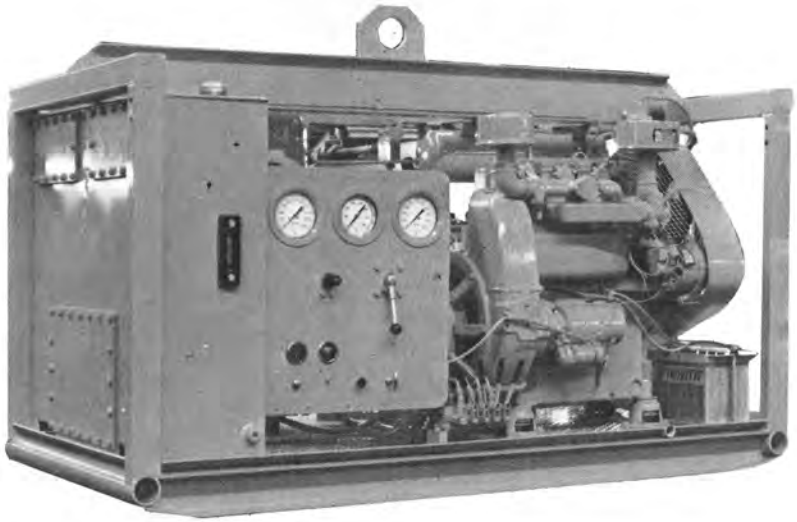
10,000 PSI Working/12,000 PSI Maximum/15,000 PSI Test
15,000 PSI Working/18,000 PSI Maximum/22,000 PSI Test
20,000 PSI Maximum/30,000 PSI Test

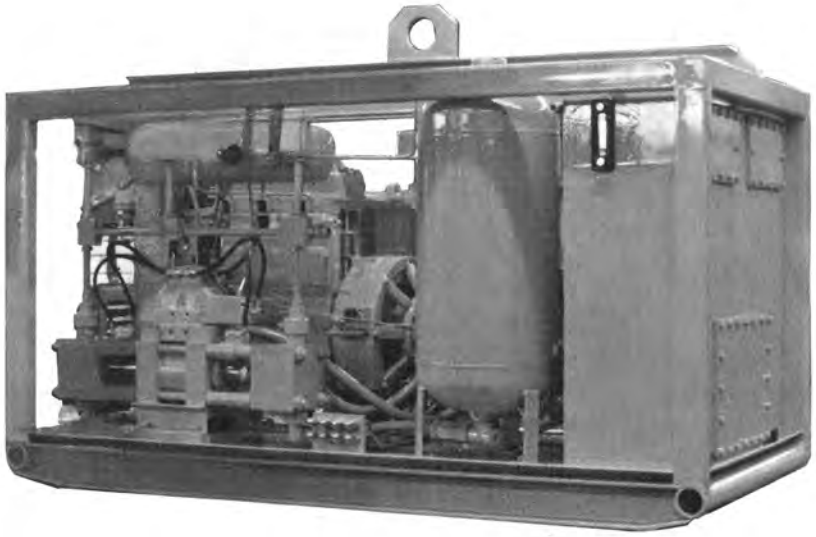
Autoclave High Pressure Stainless Steel Manifolds and Valves

STANDARD EQUIPMENT

. . . Lister 3 cylinder air cooled diesel engine
. . . Oilgear/Petrodyne dual plunger hydraulic powered Model 52 Grease Pump
. . . Oilgear/Hydura axial piston, pressure compensated, Model PVQ15, 15 gallon/3,000 PSI Hydraulic Pump
. . . Gardner Denver Model ACB 4.30 CFM Air Compressor
. . . Unloaded, electric, air or hydraulic starting
. . . Coastal and Marine primer paint systems suitable for offshore locations
. . . Heavy duty "I" beam frame and lifting eye
. . . Auxiliary grease supply connections
. . . Any type grease — Motor oil to #1 — #2 chassis

SELF CONTAINED — SKID MOUNTED MODEL SKG1



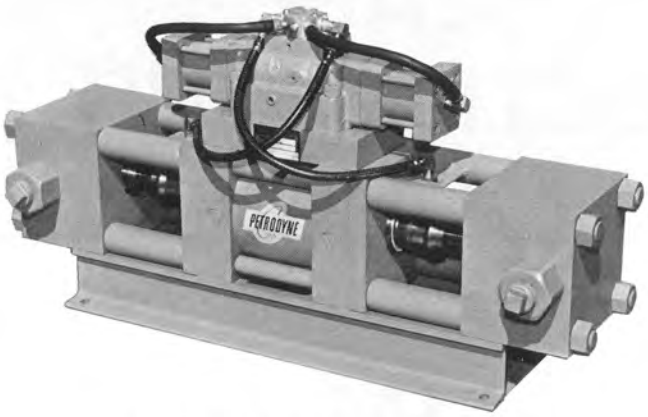


SUPERIOR CAPACITY

. . . Grease — 72 GPH (maximum)
. . . Diesel fuel — 10 gallons
. . . Grease Tank — 20 gallon (pressurized)
. . . Hydraulic Oil tank — 45 gallon
. . . Air Supply tank — 3 gallon

OPTIONAL EQUIPMENT

. . . Oilgear/Hydura 3.5 GPM/3,000 PSI Auxiliary Hydraulic Supply for B.O.P., etc. operation
. . . Four valve auxiliary hydraulic manifold
. . . Pneumatic or hydraulic starter for diesel engine

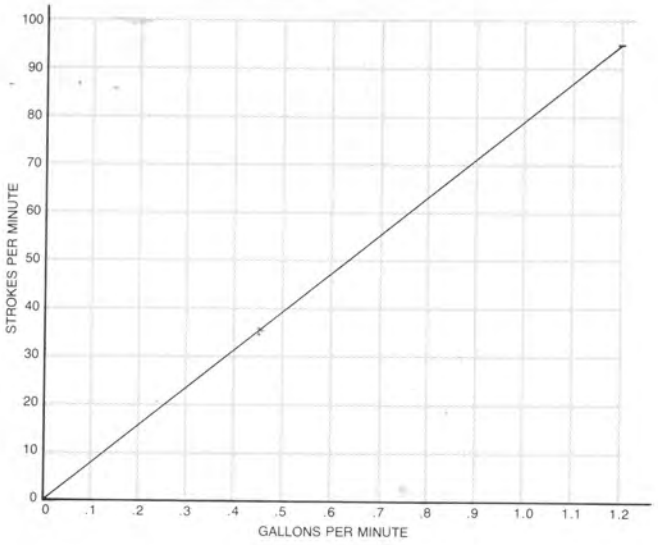


MODEL 52 GREASE PUMP

OPTIONAL ACCESSORIES

Barrel Pump, Hydraulic Accessory
Power Pack, Hoses and Connectors

MODEL 52 GREASE PUMP
PERFORMANCE CHART



SPECIFICATIONS

	Pressure				Volume			
	WORKING		TEST		GPM	LPM	LB./MIN.	KG./MIN.
GREASE PUMP (Petrodyne Model 52)	PSI	BAR	PSI	BAR	1.16	3.7	7.5	3.4
	20000	1379	30000	2069				
HYDRAULIC PUMP (To Drive Grease Pump)	1800	124	2700	186	15	56.8	—	—

CAPACITY

	GALLONS	LITERS
HYDRAULIC OIL RESERVOIR	45	170
GREASE RESERVOIR	20	76
DIESEL FUEL TANK	10	38
AIR SUPPLY TANK	3	11

OVERALL DIMENSIONS:	IN.	CM.
Length	72	183
Width	40	102
Height	49	124

DIESEL ENGINE

BHP	RPM
22	1800
30	2600

GROSS SERVICE WEIGHT	LBS.	KG.
	3100	1406

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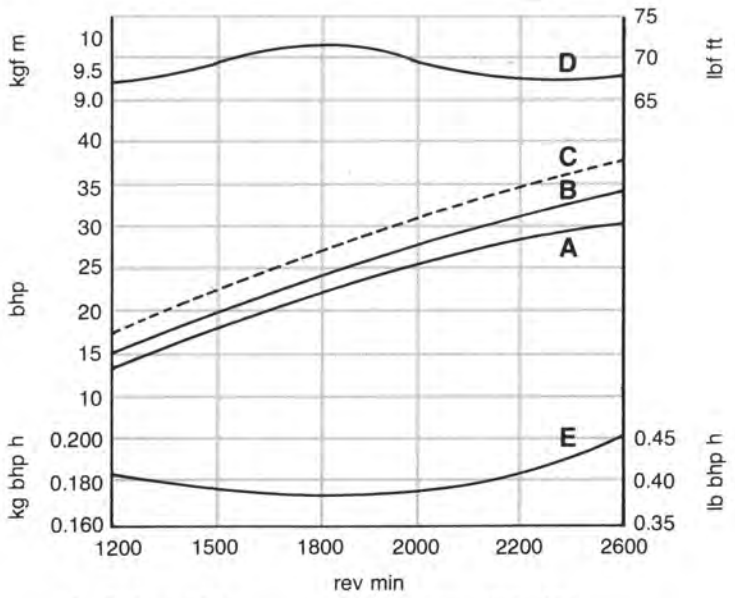
Lister Diesel Type ST3 Air Cooled Engine

PERFORMANCE CURVES

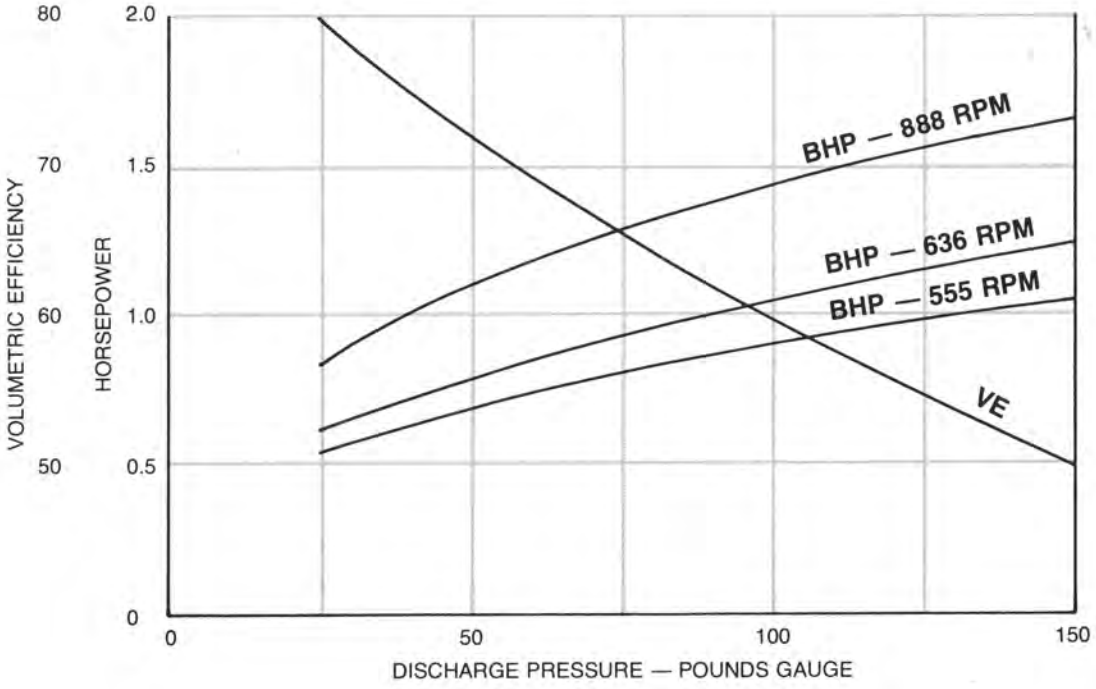


A Continuous bhp
B Intermittent bhp and Din 'B'
C Maximum Gross bhp
D Torque, 1 hour rating and Din 'B'
E Fuel Consumption at full load

Gardner-Denver Model ACB Single Stage Air Compressor

PERFORMANCE CURVES

ACB 2¾ x 2½
Single Stage Compressor
7.60 cu. ft. Displacement — 888 RPM
5.45 cu. ft. Displacement — 636 RPM
4.75 cu. ft. Displacement — 555 RPM



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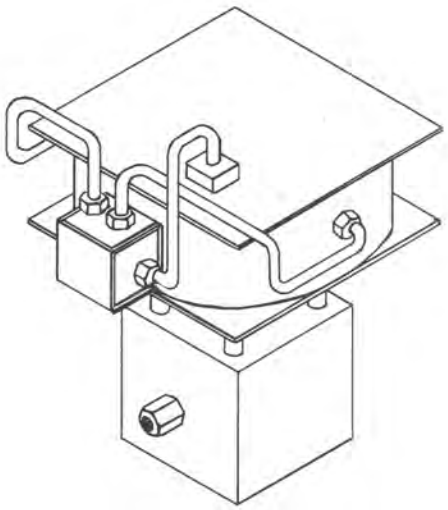
GREASE INJECTION UNIT

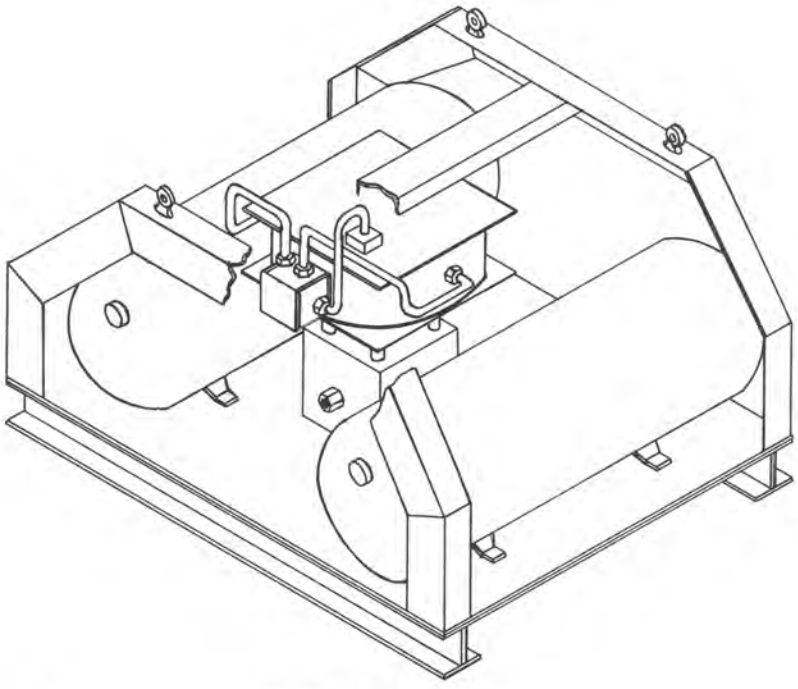
MODEL 142

The Petrodyne Model 142 Pneumatic Grease Injection Pump is the *first Air Operated High Pressure Grease Injection Pump ever designed specifically for the Wireline Industry.* Petrodyne has combined the high pressure fluid end (Pumping Head, Packings, Check Valves) from its 30,000 PSI Test, Hydraulic Powered, High Pressure Grease Pump with the Pneumatic Drive section from their ultra-reliable Model SDA Pump and have produced a rugged and reliable Air Operated Grease Injection Unit with a maximum Grease Output Capacity of 30 gallons per hour at 10,000 PSI.

The Model 142 Pump is mounted on an offshore type skid with two 30 gallon grease tanks (60 gallons) laying horizontally to give a tip-proof Wireline Grease Injection Package that is 26 inches high by 36 inches wide by 48 inches long. The Grease Injection Unit comes standard with offshore zinc rich epoxy primers and the standard corporate colors of the Wireline Service Companies. It is a self contained package that is ready to hook up to the rig air supply and begin work immediately upon being set on the drilling floor.



MODEL 142 PUMP



MODEL SK-142 SKID UNIT

SPECIFICATIONS — MODEL #SK-142

Pneumatic operated by 14" Power Cylinder (154 Sq. In. Area)

Grease Plunger — 1.375" Diameter (1.485 Sq. In. Area); 2" Stroke Length (2.97 Cu. In. per stroke)

Operating Ratio of 104 to 1

Working Pressure — 10,000 PSI @ 100 PSI Rig Air Supply

15,000 PSI @ 150 PSI Rig Air Supply

Maximum Grease Pressure — 26,000 PSI @ 250 PSI Air

Stall Pressure @ 100 PSI — 10,360 PSI

Maximum Grease Capacity — 30 gallons per hour @ 42 SPM

Dimensions 26" High — 36" Wide x 48" Long

Grease Tank Capacity — 60 gallons (2-30 gallon tanks)

Air Consumption @ 100 PSI, 60 CFM.

TERMS AND CONDITIONS

PRICES — Unless otherwise stated, the prices quoted do not include other charges applicable to the sale or delivery of the products, and Seller reserves the right to add such charges. Sales, use, franchise, excise or other taxes or duty imposed directly or indirectly on Seller shall be billed to Buyer unless said imposition is removed by Buyer's certificate of exemption thereto.

SPECIFICATIONS — In order that product improvements may be introduced at any time, the right is reserved to change specifications without notice.

QUOTATION — All quotations are F.O.B. our plant, 211 Industrial Blvd., Longview, Texas, unless otherwise expressly stipulated. Unless otherwise agreed in writing, lighterage, wharfage, or other handling charges, dues, duties, or any other charges at destination are not included in quotations, or indicated by list prices. No orders shall be considered as accepted by this Company until approved at our General Offices in Longview, Texas.

SHIPPING WEIGHTS — All weights listed are approximate shipping weights only.

DELIVERY — We make an effort to ship all materials within the time promised by us, but do not guarantee to do so, and all such promises are subject to delays occasioned by causes beyond our control.

INSURANCE — We will place insurance as nearly as possible in accordance with our customer's written instructions, but assume no liability for the placing of such insurance.

TERMS OF PAYMENT — Interest at the rate of one and one half percent (1½%) per month, an annual percentage rate of eighteen percent, will be charged on all past due accounts, plus costs and fees incurred for collection. Invoices shall be paid in United States Dollars to our office from which billed.

GUARANTEE — We guarantee all products of our manufacture for a period of one year from date of invoice against defects due to materials or workmanship; provided that such products are used for the purpose and in the manner intended.

Any such defective products or parts will be replaced free of charge F.O.B. plant after they have been returned to our plant, carrying charges prepaid, if defective upon our examination. At the termination of one year from date of invoice all liability on our part shall cease. In the case of goods, or parts thereof, not wholly of our manufacture, our guarantee shall extend only so far as the guarantee we may have received from the manufacturers of such goods or parts and to the actual extent that we are able to enforce the same. It is expressly understood that we will allow no claim for labor, freight, drayage, injury, or for compensatory or other damage of any nature. There shall be no liability for indirect, special consequential or liquidated damages or penalties. There are no warranties which extend beyond the description on the face hereof.

TITLE AND RISK OF LOSS — Full risk of loss (including transportation delays and losses) shall pass to the Buyer upon delivery of products hereunder to the F.O.B. point. However, Seller retains title, for security purposes only, to all products until paid for in full in cash and Seller may, at Seller's option, repossess same, upon Buyer's default in payment hereunder, and charge Buyer with any deficiency.

INSPECTION AND ACCEPTANCE — Products sold hereunder shall be finally inspected and accepted within ten days after the receipt thereof at Buyer's place of business (regardless of whether further installation, inspection or tests are to be performed at Buyer's plant or elsewhere by the Seller) and all claims whatsover by Buyer hereunder (including claims for shortages) excepting only those provided for under the WARRANTY provisions hereof must be asserted in writing by Buyer within said ten-day period or they shall be deemed waived. If this contract involves partial deliveries, all such claims must be asserted within said ten-day period for each partial delivery.

CANCELLATION AND RETURNS — Orders for products of special design, size or materials are not subject to cancellation after having been manufactured. Written permission must be secured before returning goods for credit.

EXPORT PACKING — We endeavor to pack materials for export so that they will not break, rust or deteriorate in transit, but do not guarantee against such damage.

CONSULAR INVOICES — No consular fees for legalizing invoices, stamping bills of lading, or other documents required by the laws of any country or destination, are included in quotations or selling prices. If instructed in writing we will take out consular documents and make declarations as agent of the purchaser, but assume no responsibility for any fines or other charges imposed due to errors or incorrect declarations.

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