



SUN Hydraulic[®]
Engineers

HYDRAULIC & ENGINEERING PRODUCTS

www.sunhydrauliceng.com

ABOUT COMPANY

Hydraulic & Engineering Products is manufacturing company established in year 1988 with an extensive range of Hydraulic Cylinders, Hydraulic Press, Hydraulic power pack, Jacks, Hoses API Flanges and many others. Equipped with modern technology and machines, our talented professionals follow industry standards and rules. Our products are highly admired for extended durability, powerful construction, and best functionality. In addition to that, these products are used in different heavy industries.

We have a state-of-the-art infrastructure unit which includes contemporary machines and tools for the manufacturing process while making the products. Our talented team members help us to carry out all the business processes. Every team member is committed to achieving maximum client satisfaction and organizational goals. They have thorough knowledge and experience in their respective fields that enable us to perform all the activities perfectly. Their helpful assistance and up-to-date infrastructure help us to make a good image in the market. We are providing these products at leading marketing price to cater different requirements of our valuable clients.



Our Vision

As a trustable and innovative manufacturer of hydraulic solutions, our customers that are distinguished by reliability, 100% testing, safety, top design and long term peace of mind in their work with hydraulic systems. We strive to service our customer with the utmost integrity, to their complete satisfaction and to become a leading, successful brand in the industry by maintaining a good clientele.

In the future, we wish to become a successful global company with high value-added products. We are aware that we have set a very high goal; however, without high future aspirations, the present will not be all that bright.

Our Mission

The Vision of SHE is to continue the heritage of our Company and be a premier Indian manufacturer of top quality products. This insight will be accomplished by sharing the responsibilities of planning, organizing and decision making with all of our employees. SHE will strive to maintain the reputation it has developed with its suppliers, employees and community as a company of excellence.

It is our goal to ensure about the manufacturing and supplying quality of hydraulic products. We are customer oriented and focus upon the quality of raw material and final goods by continuous self improvement, growth in our operations and employees; while maintaining profitability to the benefit of our customers, employees, and community.

OUR CERTIFICATES



INTERNATIONAL CODES & STANDARDS

For Design :



For Material :



HYDRAULIC POWER PACK

Hydraulic power packs are required in railway, construction, petroleum, shipbuilding, and many others. With maximum working speed and pressure, these power packs are quite appropriate for hydraulic work in gas wells and servicing oil units. Its performance is checked through different parameters before the final transmission. By searching on the our website, you will find different types of hydraulic power packs.

Features:

- » Easy to Installation
- » Low Operating Cost
- » Corrosion Resistant
- Maximum Performance
- Long Lasting

OUR RANGE IN HYDRAULIC POWER PACK

Tank Capacity-30Ltr Upto 3000Ltr

Motor Capacity - 0.5 HP- 700 HP

Cooling Unit-Water Cooled Oil Coolers / Air Cooled Oil Coolers

Working Pressure – 0 -700 Bar

PLC Based Electric Control Panel / Electrical control

Current Type-AC / DC

Circuit Customized,or according to application requirement



Hydraulic Power Pack For Spm



Hydraulic Power Unit HPU for Oilfield Drilling



Hydraulic Power Pack Pile Gripper Offshore



Hydraulic Power Unit For Hydro Dam Gate



Hydraulic Power Unit For Steel / Rubber Industries



Hydraulic Power Unit Hydro Power Plant

HYDRAULIC CYLINDERS

A hydraulic cylinder is a mechanically designed device that is used to give a unidirectional force through a unidirectional stroke. This device is widely used in manufacturing machinery, constructional equipment, engineering vehicles etc.

It uses the power from the pressurized hydraulic fluid. This device consists of a cylinder barrel in which a piston is connected to a piston rod. Our Hydraulic Cylinders are used in different industries like- Marine, Power Plant, Dam Gate, Rolling Mill Industries, Furnace Industries, and Steel Industries etc.

. Features:

- » Easy to installation
- » It is cost effective.
- » It is appropriate for Heavy Industries.
- » Long Lasting
- » Our Designs are as per customer's requirement so compact in size.
- » Corrosion Resistant

Our Range in Hydraulic Cylinder

Type- Single acting / Double acting

Bore size- 50mm - 1200 mm

Stroke Length- 10mm - 8000 mm

Working Pressure- 700 Bar Max.

With reputed imported seals

Design- Tie Rod, Welded, Mobile Design etc

Mounting Type- front flange, rear flange, eye mounting, Trunnion mounting, through shaft etc



Hydraulic Cylinder - Radial Gate



Hydraulic Cylinder - Wagon-Tippers



Hydraulic Cylinder - Marine Onshore and Offshore



Hydraulic Cylinder - Coal Mine / Steel Plant



Hydraulic Cylinder - Cement Plant



Hydraulic Cylinder - Oil / Gas Drilling Rigs

INDUSTRIAL HYDRAULIC JACK

Single & Double Acting

A hydraulic jack is a device that allows heavy loads by using force. The primary mechanism depends on the type of jack. These Hydraulic jacks can lift the heavy loads. Designs from our Industrial Hydraulic jacks are used in construction sites, cement plants, different mills, railways sites and many other industries.

Features:

- » Easy to installation
- » Maximum Performance
- » Long Lasting
- » Corrosion Resistant
- » Low operating cost
- » Hydraulic power pack with hand lever valve or with electrical panel & auto cut off with pressure switch



Hydraulic Jack For Ship Building

Our Range in Industrial Hydraulic Jacks

- Type- Single acting / Double acting
- Capacity - 5Ton - 1000 Ton
- Working Pressure-700 Bar Max.
- With reputed imported seals
- Design- as per customer's requirement



Hydraulic Jack For Tank Lifting



Hydraulic Tandem Jack



Hydraulic Jack Wire Stressing



Hydraulic Jack With Hand Pump



All Type Of Hydraulic Jack

HYDRAULIC PRESS

A hydraulic press is a device using a hydraulic cylinder and hydraulic power pack to generate a compressive force for pressing something. Hydraulic presses are commonly used for forging, clinching, moulding, blanking, punching, deep drawing, and metal forming operations

Features:

- » Easy to installation
- » It is cost effective.
- » It is appropriate for Heavy Industries.
- » Long Lasting
- » Corrosion Resistant
- » Our Designs are as per customer's requirement so compact in size.

According to the structural form, the hydraulic press machine is mainly divided into:

Our Range in Hydraulic Press

Four-column H type hydraulic press (capacity up 10ton to 1000ton)

C type hydraulic press (capacity up 10ton to 1000ton)

Horizontal hydraulic press (capacity up 10ton to 1000ton)

Workshop hydraulic press (capacity up 10ton to 1000ton)



HYDRAULIC PRESS C TYPE



HYDRAULIC PRESS H TYPE DEEP DRAWING



FOUR COLUMN HYDRAULIC PRESS



H TYPE HYDRAULIC WORK SHOP PRESS

API PIPE FLANGES

API Test Flange



Size : 2 1/2 To 12"
Pressure : API 2000
Connection : Bolted

API Integral Flange



Size : 2 1/2" To 12"
Finish : Smooth
Pressure : API 5000

API Blind Flange



Size : 1 1/2" To 24"
Machined : CNC
Connection : Welding

API Weld Neck Flange



Size : 1 1/2" To 26"
Pressure : API 3000
Material Class : BB

API Flange Standards

- ❖ API 6A flange
- ❖ API 6BX flange
- ❖ API 6B flange
- ❖ API 17D flanges

Comparison of ASME B16.5 & API Flange

Type Of API Flange	Pressure Class		Size in Inch	
	ASME B16.5 Rating	API Rating	ASME B16.5	API
API Weld neck Flange	600#	2000 PSI	1/2 To 24"	1/2" To 12"
	900#	3000 PSI		
	1500#	5000 PSI		
API Blind Flange	600#	2000 PSI		1 1/2" To 16"
	900#	3000 PSI		1 1/2" To 12"
	1500#	5000 PSI		2" To 12"
Standard Full Form	American Society of Mechanical Engineers			American Petroleum Institute

Pressure Rating Of API 6BX Flange

Pressure Class	Pressure Rating
API 3k Flange	API 3000
API 5k Flange	API 5000
API 10k Flange	API 10000
API 15k Flange	API 15000

API Swivel Flanges



Size : 2" To 16"
Bolts Holes : 4 To 48
Testing : Tensile Test

API Threaded Flanges



Size : 1/2" To 24"
Face : Raised Faced
Threads : NPT & BSP

ALL HYDRAULIC VALVE

PROPORTIONAL & SERVO VALVE



Category	Series	Size	Max. Pressure (Bar)	Max. Flow (L/min)	Features
Direct Operated Proportional Directional Valve	4WRA	6, 10	315	95	Without Electric Feedback
	4WRE	6, 10	315	180	With Electric Feedback
	4WRA(E)-2X	6	315	30	With Integrated Control Electronics
	4WRE(E)-2X	6, 10	315	180	With Integrated Control Electronics & Electrical Position feedback
Pilot Operated Proportional Directional Valve	4WR2/4WRH	10, 16, 25, 32	350	1600	4wrh External Pilot Operated Type
	4WREKE	10, 16, 25, 32, 35	315	10	With Position feedback
Proportional Pressure Relief Valve	DBETR	6			With Inductive Position Transducer
	DBE/ DBEM	10, 20, 30	315	400	Max. Pressure Protection Optional
	DBETX-- 1XT	6	315	1	Pilot Valve
	EDG (YUKEN SERIES)	01	250	2	Used With Suitable Power Amplifier
	EBG (YUKEN SERIES)	01	210	170	With Good Stability
	(Z)DBE/ (Z)DBEE	6	315	30	With Integrated Control Electronics
Proportional Pressure Reducing Valve	3DREP	6	100	15	3Way Reducing Valve
	DRE/ DREM	10, 20, 30	315	600	Max. Pressure Protection Optional
	3DREPE6	6	100	15	With Integrated Control Electronics
Proportional Flow Control Valve	2FRE	6, 10, 16	315	160	With Pressure Compensator
Proportional Pressure Relief & Flow Control Valve	EFBG (YUKEN SERIES)	02, 03, 06, 10	250	500	With Meter In Flow Control
Servo Solenoid Proportional Valve	4WREH	6, 10	70	100	With Position Feedback And Integrated Electronics

HYDRAULIC MOTOR / MANIFOLD

HYDRAULIC MOTOR



Category	Series	Size (CC/REV)	Max. Torque (Nm)	Max. RPM
AXIAL FIXED DISPLACEMENT PISTON MOTOR	A2FM	16 TO 180	89 TO 1146	8000 TO 3600
	A2FE	56, 80, 107, 125, 160	313 TO 1021	5500 TO 3600
AXIAL VARIABLE DISPLACEMENT PISTON MOTOR	A6VE	55, 80, 107, 160	88 TO 889	5000 TO 2650
	A6V	28, 55, 80, 107, 160, 225, 500	157 TO 2785	8750 TO 2000
ORBITAL MOTOR	BMM, BMR, BMP, BM3Y, BM4U, BM5	8 TO 985	7 to 1900	7 to 2500
RADIAL PISTON MOTOR	ITM	63 TO 10000	19843	500 to 80
	ITMS	630 TO 3500	8930	280 to 160
	STFC	1000 TO 6800	22400	300 to 120
	STFD	100 TO 1600	4830	900 TO 290
	CRM HA/ HB	280, 400, 560, 840	USED IN HEAVY DUTY APPLICATION LIKE, MINING MACHINE, CONSTRUCTION, CEMENT INDUSTRIES, HEAVY METALLURGY, MILITARY INDUSTRIES	
	CRM PS	02, 05, 08, 11, 18, 25, 35		

MANIFOLD BLOCK

Our manifolds are tailor-made by an experienced team of hydraulic specialists for each individual application. This begins with the drafting of the circuit diagram, and goes on to include the manufacturer-independent selection of valve components, up to the design stage, where the installation space available is also given due consideration. Depending on the customer's requirements, manifolds made of high-tensile aluminum or steel are available. Such solutions are unbeatable with regard to weight, compact dimensions and circuit integration. Even for small batch quantities, we are able to deliver at a lower cost than classic, piped systems. We Designed Block for both more complex as well as simple hydraulics systems. Block is also available with or without Valve Assembly.



RANGES :

1. CETOP Block from NG6 to NG32 with Single or Multiple stages
2. Block for Screw In Type Valve
3. Customized Block as per customer Application

HYDRAULIC VALVES

DIRECTION CONTROL VALVE



Category	Series	Size	Max. Pressure (Bar)	Max. Flow (L/min)
Solenoid Operated Spool Type	WE	NG4, NG6, NG10	315	120
Pilot Operated Spool Type	WEH	NG1 6, NG22, NG32	350	1100
Hand Operated (Mobile Valve)	P40, P80, P120 (MONOBLOCK)	1 TO 6 LEVER	250	120
	SECTIONAL VALVE	55, 80, 120, 160, 240	315	240
	4DI	NG10	315	100
Solenoid Operated Poppet Type	SEW	NG6, NG10	630	40
	SED	NG6	350	25
	23QDF	6, 10	315	36

FLOW CONTROL VALVE



Category	Series	Size	Features
LINE MOUNTED	DV	6, 8, 10, 12, 16, 20, 25, 30, 40	For Setting and Shut-off flow of fluid
	ORV (WITH CHECK VALVE)	6, 8, 10, 12, 16, 20, 25, 30, 40	
	MG	6, 8, 10, 15, 20, 25, 30	Pressure and Viscosity Dependent
	MK (WITH CHECK VALVE)	6, 8, 10, 15, 20, 25, 30	
SANDWICH (MODULAR)	Z2FS (WITH CHECK VALVE)	6, 10, 16, 22	Meter IN & Meter Out control
MANIFOLD MOUNTED	2FRM	5, 6, 10	Pressure Compensator and Check valve Optional

HYDRAULIC VALVES

PRESSURE CONTROL VALVE



Category	Series	Size	Max. Pressure (Bar)	Type
Direct Operated Relief	DPRH	6, 10, 16,	400	Cartridge, Threaded, Subplate
	DBD	6, 8, 10, 15, 20, 25, 30	400	
	ZDB	6, 10	315	
Pilot Operated Relief	DB, DBW, DB2W	10, 15, 20, 25, 30	350	Cartridge, Subplate, Threaded
	22DB	6, 10	315	Sandwich (Modular)
Direct Operated Reducing	DR-DP	5, 6, 10	315	Subplate Mounting
	ZDR	6, 10	210	Sandwich (Modular)
Pilot Operated Reducing	DR	10, 15, 20, 25	315	Subplate, Threaded
Pilot Operated Sequence	DZ	10, 20, 30	315	Subplate, Check valve Optional
Direct Operated Sequence	DZ-DP	5, 6, 10	315	Subplate Mounting
Pilot Operated Unloading	PPRU	10, 20, 30	315	Subplate
Pilot Operated Shutoff Valve	DNDW	10, 20, 30	315	Subplate
Pressure Control Module	PCM	06-06, 20-06, 20-10, 20-16, 30-16	315	Tank Mounted

CHECK VALVE



Category	Series	Size	Max Flow (l/min)
FREE FLOW CHECK VALVE	c,s	6, 8, 10, 15, 20, 25, 30	450
	21S (MODULAR)	6, 10	100
	RVP	6, 8, 10, 12, 16, 20, 25, 30, 40	600
PILOT OPERATED CHECK VALVE	SV/SL (SUBPLATE)	10, 20, 30	550
	22S (MODULAR)	6, 10, 16, 22	450
	PV (PREFILL VALVE)	40, 50, 63, 80, 100	1200

ALL HYDRAULIC PUMP

PISTON PUMP



Type	Series	Size (CC/REV)	Max. Pressure (Bar)	Features
Fixed Displacement	A2F (BENT AXIS)	10to500	350	Used in open &close circuit
	A2FO (BENT AXIS)	10 to 200		
	CY14-1B	1.5T0400	350	Simple structure, Small size, Good self priming capacity
Variable Displacement	A10VSO	10,18,28,45,71,100,140	280	Available in different controls (DR,DRG,DFR,DFR1,DFLR,DFLR1)
	A4VSO	40,71,125,180,250,300,355	350	Different pump combinations possible
	A11VO/A11VLO	95,130,190,260	350	Available in through shaft option only
	A7V (BENT AXIS)	"20,28,40,55,58,78,80, 107,117,160,250,355,500	350	High efficiency, Long life, Different controls, Steplessly variable at different drive speeds
	A4VTG	71,90	280	Used in Close loop circuit
	A8V	28,55,58,80, 107,125,160	350	Two variable pumps in common housing
	A Series	16, 22, 37, 45, 56, 64, 70, 80, 90, 100, 120, 145, 160	210	Overall efficiency 90%, Available in control 01, 04
	AR Series	10,16,22	210	Application: Machine tool, High efficiency machines
	PV	16 TO 270	420	Available in different controls
	A2VK	12,28,55,107	250	Manual control with hand wheel with measuring scale

ALL HYDRAULIC PUMPS

VANE PUMP



Category	Series	Size (CC/REV)	Max. Pressure (Bar)	Features
FIXED DISPLACEMENT	LMX (YUKENPVR)	4 TO 135	175	Suitable For All Industrial Application
	PV2R	6 TO 348	250	Silent Vane Pump
	VPS	16 TO 180	280	Servo Vane Pump, Max. Rpm 2800
	TXB, T6B, T6C, T60, T6E (VEUAN)	6 TO 270	275	High Pressure Vane Pump
VARIABLE DISPLACEMENT	TVCM (SVPF YUKEN)	4.4 TO 28	70	Space Saving Design, Silent During Operation, Suitable For Machine Tool And Spm Machine
	HVPF	7 TO 22	70	
	VON (NACHI EQUIVALENT)	8 & 16	80	

GEAR PUMP



Category	Series	Size (CC/REV)	Max. Pressure (Bar)	Features
EXTERNAL GEAR PUMP	3000 PSI SERIES	0.8 TO 156	210	Available in multiple stages combination
	PF2G	0.19 TO 100	270	
INTERNAL GEAR PUMP	IGP/OIGP	8 TO 160	350	Available upto 2 stages for few combination, Suitable for Injection Molding Application
SUMITOMO INTERNAL GEAR PUMP	QT	31.5 10 125	160	

ALL HYDRAULIC HOSES



Size	1/4" to 6"
Tube	PTFE Tube
Connections	Screwed (BSP, NPT, BSPT / UNF) / Tube end / TC end / Socket Weld / Butt Weld / Flange end and Other Thread on Request
Max Working Pressure	1523Psi at 5/16" I.D.
Working Temperature	-65°F to +400°F (-54°C to +204°C); Static: -65°F to +450°F (-54°C to +232°C);
Min Bend Radius	75mm at 5/16" I.D.
Inside Diameter	5/16 - 1-1/4
Pressure Rating	Up to 10,000 Psi @ up to 250°F
Braided	Single & Double
Material	PVC/Rubber/SS Corrugated/CS/SS304/SS316 & Other Material on Request
Brand	J K Pioneer, Parker, Gates, Polyhose, Kisan, Arrow Line, Global Etc.

ALL HYDRAULIC ACCESSORIES



1. Accumulator
2. Air oil cooler and shell & tube type Oil Cooler
3. Filters (Suction, Return Line, Pressure line)
4. Filler Breather
5. Bell housing (Aluminum & Cast Iron)
6. Gear Coupling
7. Pressure Switch
8. Oil level Indicator (Visual and Sensor Type)
9. Pressure Gauge
10. Hydraulic hose pipe
11. Hydraulics fittings
12. Electric coil & Connector for solenoid valve

HYDRAULIC FILTRATION UNIT

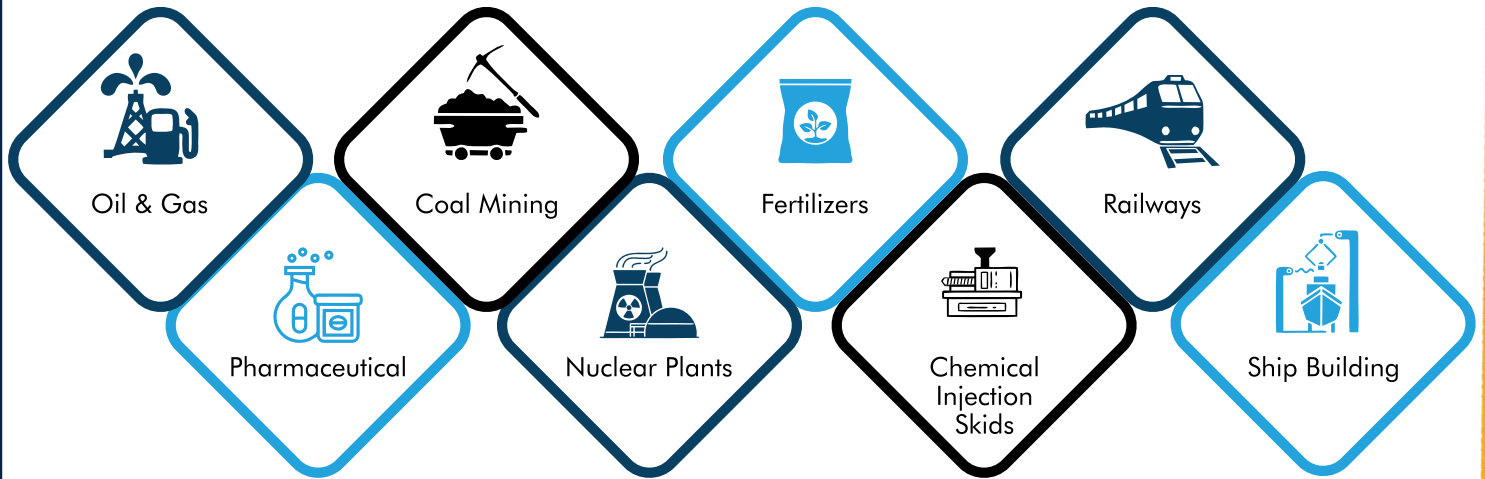


Our hydraulic filter carts provide a convenient mode of offline filtration, flushing and fluid transfer for use with in-plant machinery and hydraulic equipment.

Benefits :

- Powerful one horsepower motor Coupled with a gear pump, provides efficient fluid transfer and filtration
- Removable tray for easy clean up, fluid will not leak out when tipped back
- Clear braided hoses visually show fluid flowing
- Rugged and durable frame for long service life
- High efficiency media gives cost effective filtration
- Integrated safety relief valve protects against over pressurizing and damage to pump, hoses and filters
- Suction filter protects pump
- Electric panel with electric clogging indicator

Industries We Serve



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