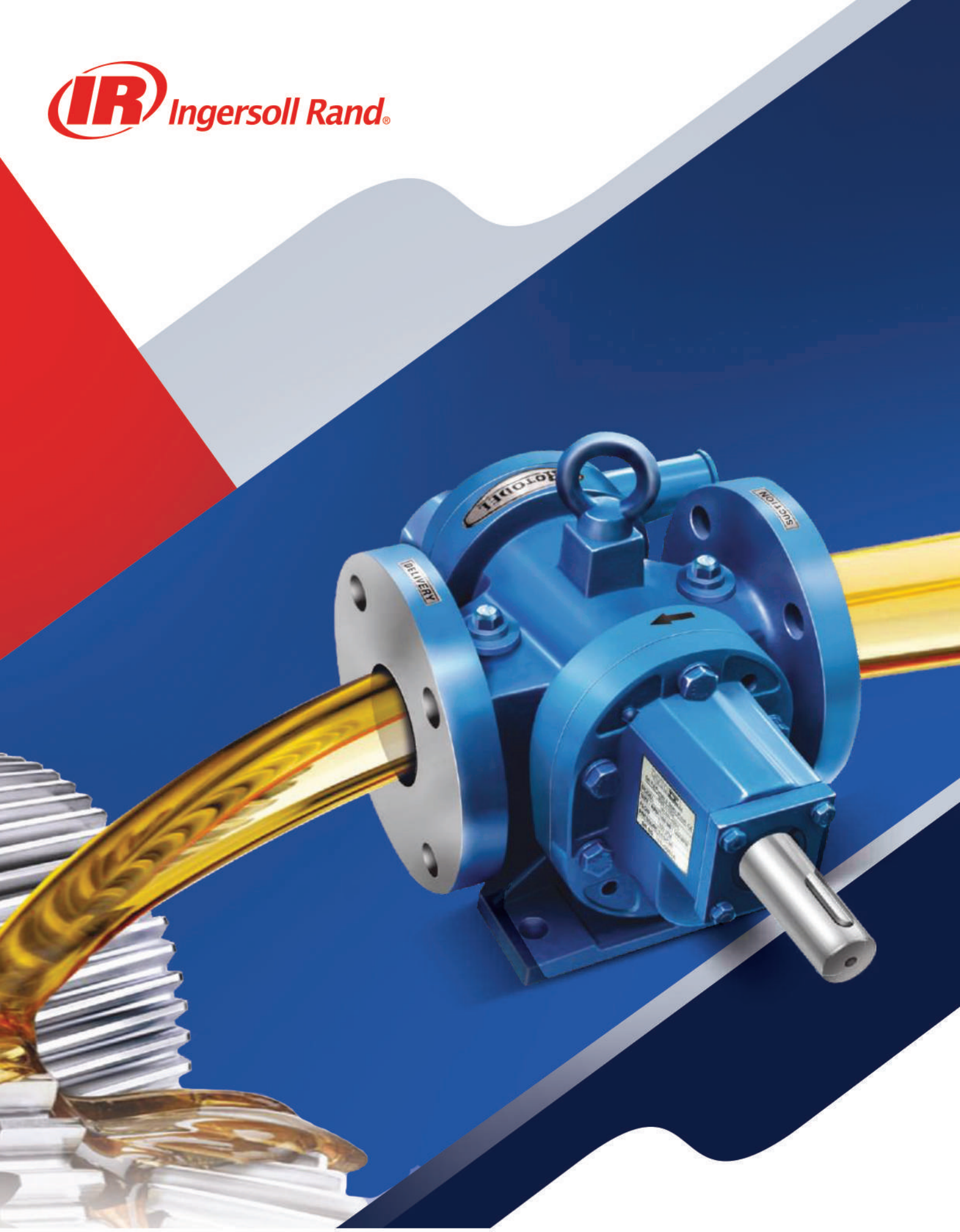
Ingersoll Rand



A Proven Performer

rotodelpump.com

Rotodel

ABOUT **US**

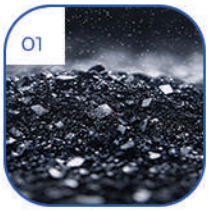
With over four decades of expertise in manufacturing gear pumps, Del Pd Pumps & Gears has firmly positioned itself as a leader in India's gear pump industry. Specializing in rotary gear pumps (single, twin and triple) for viscous and semi-viscous liquid, we are committed to innovation and quality.

Our customer-centric approach drives us to continually assess market needs and develop cutting-edge solutions for complex fluid handling challenges. Our flagship brand, ROTODEL, offers a comprehensive range of Non API and API 676 compliant external gear pumps, all designed, manufactured, and rigorously tested in our state-of-the-art facility. This ensures top-tier performance, reliability, and precision for every pump we deliver.



In June 2024, Del Pd became part of global Ingersoll Rand family, expanding our reach and pursuit of innovation in making lives better. Our products are trusted by leading industry consultants and OEMs across public and private sectors, making us the preferred choice for high-performance gear pumps in critical industrial applications.

Area of **Applications**



Abrasive



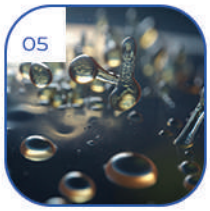
Adhesive & Sealant



Ashphalt



Bio-Diesel



Ethanol



Paints & Coating



Plastics



Polymers



Rubbers



Soaps & Detergents



Water Treatment



Wind Power Lubrication



Bulk Cargo Handling



Refineries



Chemicals



Oil & Gas



Paper Mills



Synthetic Fibre & Yarns



Pharmaceuticals



Food processing



Sugar Plants



Steel Plants



Earth Movers



Automobiles & M/C Tools



Power Plants



Fertilizers



Cement & Minerals



Off-Shore



Renewable Energy



Beverages

TYPE **HGN**
(GENERAL PURPOSE GEAR PUMP)

ROTODEL rotary gear pump type "HGN" is a self-priming positive displacement gear pump in simple two-piece cast-iron construction with single helical modified profile alloy steel gears shrink-fitted on alloy steel hardened & grounded shaft as impeller firmly supported on self-lubricated sintered bronze bush bearing. The pump can be run in either direction with a change in inlet-outlet port position. The relief valve operations can be reversed by simply changing the relief valve position.



Sizes (BSP) From 1/2" to 3"
Capacity From 20 LPM to 500 LPM
Pressure Upto 10kg/cm²
Viscosity Upto 10000 CST
Temperature Upto 250°C
Mounting Foot

MATERIAL

Casing : CI
Gears : EN 8D
Shaft : EN 8D
Bushing : Sintered Bronze

SEALING

Oil Seal
Mechanical Seal
Gland Packing

APPLICATION

Coating Machines
Filling Systems
Filter Systems
Paint Industry
Transmission Building
Waste Oil Disposal
Waste Oil Treatment
Transfer Systems
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Machine Tools
Waste Oil Transport

SUITABLE FLUIDS

Lube Oil
Vegetable Oil
Fish Oil
Animal Oil
Gear Oil
Hydraulic Oil
Glycerin
Honey
ASTM & SAE Lube Oill
Molasses
Crude Oil
Dirty Lube Oil
HSD
Kerosene
LDO
Paint
Furnace Oil

Pump Model	Port Size # (BSP)	Flow (@220 CST)	
		LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
HGN 050	1/2"	20	24
HGN 075	3/4"	30	35
HGN 100	1"	50	60
HGN 125	1 1/4"	75	90
HGN 150	1 1/2 "	110	130
HGN 200	2"	225	270
HGN 250	2 1/2"	350	420
HGN 300	3"	500	600

Note *Please contact factory for speed recommendations when pumping liquid with viscosities > 500 CST*

TYPE HGBX

(ROTARY GEAR PUMPS FOR OEMs)

ROTODEL rotary gear pump type "HGBX" is a self-priming positive displacement gear pump in simple two-piece cast-iron construction with single helical modified profile carbon steel gears shrink-fitted on alloy steel hardened & grounded shaft as impeller firmly supported on self-lubricated Sintered bronze bush bearing. The pump can be run in either direction with a change in inlet-outlet port position. The relief valve operations can be reversed by simply changing the relief valve position. The motorized pump set in mono block design ensures the perfect alignment, saves space & reduces downtime.



Sizes (BSP) From 1/4" to 2 1/2"
Capacity From 2.5 LPM to 400 LPM
Pressure Upto 11 kg/cm²
Viscosity Upto 10000 CST
Temperature Upto 90°C
Mounting Foot & Flange*

MATERIAL

Casing : CI
Gears : EN 8D
Shaft : EN 8D
Bushing : Sintered Bronze

SEALING

Oil Seal
Mechanical Seal

APPLICATION

Filling Systems
Filter Systems
Metal Forming Machines
Paint Industry
Waste Oil Disposal
Waste Oil Treatment
Transfer Systems
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Waste Oil Transport

SUITABLE FLUIDS

Clean Lube Oil
Vegetable Oil
Fish Oil
Gear Oil
Hydraulic Oil
Dirty Lube Oil
HSD
Kerosene
LDO
Paint
Turpentine
RFO
Furnace Oil

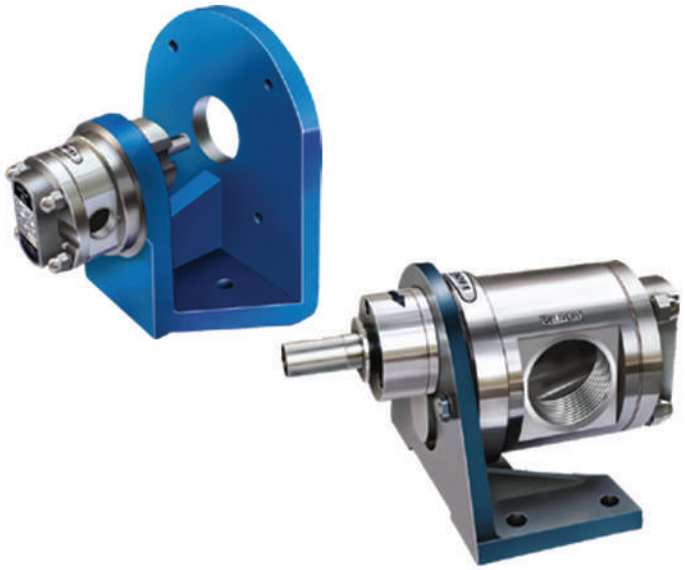
Pump Model	Port Size # (BSP)	Flow @220 CST	
		LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
HGBX 025	1/4"	2.5	3
		5	6
HGBX 050	1/2"	10	12
		15	18
HGBX 075	3/4"	20	24
		30	36
HGBX 100	1"	35	42
		50	60
HGBX 125	1 1/4"	60	72
		75	90
HGBX 150	1 1/2"	100	120
		125	150
HGBX 200	2"	150	180
		200	240
		250	300
HGBX 250	2 1/2"	300	360
		350	420
		400	480

** - Both IEC & NEMA standard mounting offered*
***Note** Please contact factory for speed recommendations when pumping liquid with viscosities > 500 CST*

TYPE HGSX

(ALL STAINLESS STEEL ROTARY GEAR PUMP)

ROTODEL gear pump type "HGSX" is an stainless-steel SS-316 self-priming positive displacement rotary gear pump, fitted with PTFE coated dry running "DU®" bush bearings. Three-piece design makes the pump easy to clean and maintain simply by removing four bolts on the back cover. Mechanical seal is optional for PTFE gland packing. The mounting bracket converts the pump to foot mounting & facilitates aligning the pump with the electric motor of appropriate rating on the base plate at the same height.



Sizes (NPT) From 1/8" to 2.1/2"
Capacity From 5 LPM to 350 LPM
Pressure Upto 11 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 250°C
Mounting Foot & Flange*

MATERIAL

Casing : SS 316
Gears : SS 316 L
Shaft : SS 316 L
Bushing : DU®-Bush / Carbon

SEALING

Mechanical Seal
Gland Packing

APPLICATION

Coating Machines
Soap & Detergent
Animal food
Dairy Product
Filling Systems
Filter Systems
Metering Systems
Paint Industry
Waste Oil Disposal
Waste Oil Treatment
Food Processing Plants
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Printing Machinery
Chemical Plants
Petrochemical Plants
Pharmaceuticals

SUITABLE FLUIDS

Cream
Shampoo
Glycerin
Adhesives
Bore Oils
Cutting Oils
Emulsions
Ghee
Acids
Chemicals & Perfume
Paint
Paraffin
Printing Inks
Linseed Oil
Olive Oil
Paraffin Waxes
Peanut Oil
Starch
Quenching Oils
Varnish
Vegetable Oils
Walnut Oil
Wax
Benzene
Lard
Butter
Butter Milk
Phenol
Cocoa Butter
Coconut Fat/Oil
Cottonseed oil
Crude Soap
Glucose
Lacquers

Pump Model	Port Size # (NPT)	Flow @220 CST	
		LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
HGSX 015	1/8"	5	6
HGSX 025	1/4"	8	10
HGSX 040	3/8"	16	20
HGSX 050	1/2"	25	30
HGSX 075	3/4 "	33	40
HGSX 100	1"	50	60
HGSX 125	1.1/4"	100	120
HGSX 150	1.1/2"	125	150
HGSX 200	2"	150	180
HGSX 200	2"	200	240
HGSX 250	2 1/2"	300	360
HGSX 250	2 1/2"	350	420

** - Both IEC & NEMA standard mounting offered*
DU® is registered trademark of GGB (Timken)

***Note** Please contact factory for speed recommendations when pumping liquid with viscosities > 500 CST*

TYPE HGCX
(MONO BLOCK ROTARY GEAR PUMP)

ROTODEL Rotary gear pump type "HGCX" s mono block integrated shaft external gear pump assembled directly on motor shaft. The casing of the pump is directly mounted on the flange of the electric motor and is sealed by an oil seal. Rotor gear is fitted on the motor shaft, whereas the stator shaft is tight fitted on the stator gear & it rotates freely on it. The pump is provided with inlet-outlet BSP ports with horizontal orientations.



Sizes (BSP) From ¼" to 1 ¼"
Capacity From 3 LPM to 90 LPM
Pressure Upto 7 kg/cm²
Viscosity Upto 250 CST
Temperature Upto 110°C
Mounting Foot

MATERIAL

Casing : CI
Gears : EN 8D
Shaft : EN 8D
Bushing : Sintered Bronze

SEALING

Oil Seal

APPLICATION

Priming of IC Engine
Pumping & Filling
Loading & unloading
Lubrication System
Pumping & Heating Units

SUITABLE FLUIDS

Lube Oil
ISO VG Oil
Gear oil
SAE OIl

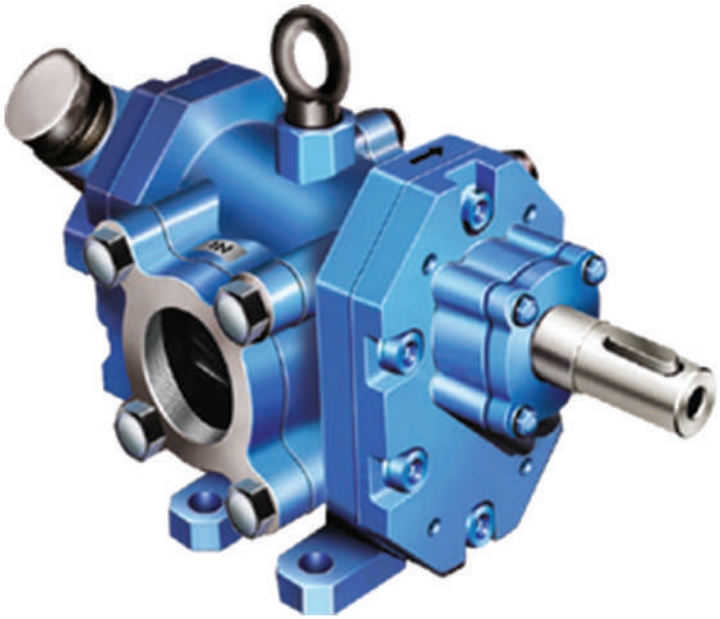
Pump Model	Port Size # (BSP)	FLOW @220 CST			
		960 RPM @50 Hz	1440 RPM @50 Hz	1150 RPM @60 Hz	1750 RPM @60 Hz
HGCX 025	1/4"x 1/4"	3	6	3.6	7
HGCX 050	1/2"x1/2"	10	16	12	19
HGCX 075	3/4"x 3/4"	20	35	24	40
HGCX 100	1"x 1"	45	60	54	70
HGCX 125	1 ¼" x 1 ¼"	75	100	90	120

Note *Motor: 1 Phase, 220V, IE3 Mounting , IP55, 50 Hz, Insulation Class F, Temperature Class B, Intermediate Duty, Foot Mounted (B3)*
Motor: 3 Phase, 415 V, IP55, IE3 / NEMA Mounting, 50/60 HZ, Insulation Class F, Temperature Class B, Continuous Duty - S1, Foot Mounted (B3)

TYPE **RDMNS/C**

(ALL INVESTMENT CAST STAINLESS / CAST STEEL ROTARY GEAR PUMP)

ROTODEL rotary gear, twin gear gear pumps are very well known, universally accepted & widely used 'PD' pumps in all the industries for efficient performance, compactness, reliable, silent operations & cost economy. Rotary gear pumps type RDMN-RDMNS-RDMNC is the ultimate in gear pump technology with all external parts built from investment casting with accurate & sophisticated internals & reliable relief valve operation.



Sizes (NPT) From 3/4" to 4"
Capacity From 8.3 LPM to 396 LPM
Pressure Upto 15 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 350°C
Mounting Foot

MATERIAL

Casing : CS / SS
Gears : ALLOY STEEL/ SS
Shaft : ALLOY STEEL / SS
Bushing : DU® / Bronze

SEALING

Mechanical Seal
Gland Packing

APPLICATION

Compressor
Turbines
Engine Construction
Filling Systems
Filter Systems
Generator Construction
Marine Engine Construction
Metal Forming Machines
Metering Systems
Paint Industry
Transmission Building
Waste Oil Disposal
Waste Oil Treatment
Food Processing Plants
Heavy Transfer Systems
Heavy Electric Machines
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Machine Tools
Printing Machinery
Rubber & Tire Manufacturers
Tank Plant Construction
Vacuum Machinery
Waste Oil Transport
Chemical Plants
Petrochemical Plants
Pharmaceuticals

SUITABLE FLUIDS

Sugar Juices
Honey
Milk
Cellulose Pulp
Hair Oils
Glues
Fuel Oils
Hardening Oils
Heavy Oils
Hydraulic Fluids
Lacquers
Motor Oils
Resins
Waste Oils
Waxes
Naptha
LDO
HSD
Heat Transfer Oil
Wood Oil
Edible Oil
Fish Oil
Hair Oil
Shampoo
Epoxy Resins
Ethanediol
Fats & Fatty Oils
Fatty Acids
Fish Oils
Fruit Juices
Fruit Pulp
Fruit Oils
Wood Pulp
Sodium Silicate
Soda
Glycol

DU® is registered trademark of GGB (Timken)

TYPE **RDMNS/C**

(ALL INVESTMENT CAST STAINLESS / CAST STEEL ROTARY GEAR PUMP)

Pump Model	Size	Port Size # (NB)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
RDMNS 075	S	3/4"	8.3	10
	M		16.6	20
RDMNS 100	S	1"	33	40
	M		50	60
RDMNS 125	S	1 1/4"	83	100
	M		100	120
RDMNS 150	S	1 1/2"	150	180
	M		166	199
RDMNS 200	S	2"	250	300
	M		300	360
RDMNS 250	S	2 1/2"	415	498
	M		450	540
RDMNS 300	S	3"	600	720
	M		666	799
RDMNS 400	S	4"	1000	1200
	M		1250	1500
RDMNS 500	S	5"	1660	-
	M		1832	-
RDMNS 600	S	6"	2500	-
	M		2915	-



Flange connection tapped as per ANSI B16.5. ASA 150#

Companion flanges are available with the BSP threading and socket weld options

Above 2"pump size jacketing option can be provided.

TYPE RDRN/RDRX/RDRB

(ROTARY TYPE TWIN GEAR PUMP)

Rotodel rotary gear pump type RDRN is twin gear pump widely accepted in all industries for its efficient performance, operational reliability, compact design & noiseless operation. Popular range of this series are re-designed & re-engineered to meet international standards like API, JIS, DIN. This series offers an enlarged capacity range with the option of self-lubricated, independent lubricated jacketing.



Sizes From 1/2" to 4"
Capacity From 8 LPM to 3333 LPM
Pressure Upto 11 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 350°C
Mounting Foot & Flange*

MATERIAL

Casing : CI / CS
Gears : ALLOY STEEL / SS
Shaft : ALLOY STEEL / SS
Bearing : Needle Roller
Bushing : Bronze / white metal

SEALING

Oil Seal
Mechanical Seal
Gland Packing
special

APPLICATION

Compressors
Turbines
Engine Construction
Filling Systems
Filter Systems
Generator Construction
Marine Engine Construction
Metal Forming Machines
Metering Systems
Paint Industry
Plain Metal Bearing Production
Transmission Building
Waste Oil Disposal
Waste Oil Treatment
Heavy Transfer Systems
Heavy Electric Machines
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Machine Tools
Printing Machinery
Rubber & Tire Manufacturers
Tank Plant Construction
Vacuum Machinery
Waste Oil Transport

SUITABLE FLUIDS

Clean Lube Oil
Vegetable Oil
Fish Oil
Animal Oil
Gear Oil
Hydraulic Oil
Glycerine
Honey
ASTM & SAE Lube Oil
Starch
LSHS
HFO
Molasses
Naptha
Phenol Resin
Crude Oil
Dirty Lube Oil
HSD
Kerosene
LDO
Paint
Sugar Solution
Turpentine
Varnish
Wood Pulp
Asphalt
Bitumen
Furnace Oil
Tar
Cellulose
RFO
Silicate
Wax

** - Both IEC & NEMA standard mounting offered*

TYPE RDRN/RDRX/RDRB

(ROTARY TYPE TWIN GEAR PUMP)

Pump Model	Size	Port Size # (NB)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
RX RDRN 050 RB	S	1/2"	8.3	10
	M		16.6	20
	L		25	30
RX RDRN 100 RB	S	1"	33	40
	M		50	60
	L		60	72
RX RDRN 150 RB	S	1 1/2"	83	100
	M		100	120
	L		125	150
RX RDRN 200 RB	S	2"	150	180
	M		166	200
	L		200	240
RX RDRN 250 RB	S	2 1/2"	250	300
	M		300	360
	L		333	400
RX RDRN 300 RB	S	3"	415	498
	M		450	540
	L		500	600
RX RDRN 400 RB	S	4"	600	725
	M		666	805
	L		833	1012
RX RDRN 500 RB	S	5"	1000	-
	M		1250	-
	L		1500	-
RX RDRN 600 RB	S	6"	1660	-
	M		1832	-
	L		2083	-
RX RDRN 800 RB	S	6"	2499	-
	M		2915	-
	L		3332	-



Note *Please contact factory for speed recommendations when pumping liquid with viscosities > 500 CST*

TYPE **RDNX/RDBX/RDZX**

(ROTARY HIGH PRESSURE GEAR PUMP)

Rotodel rotary gear pump type RDNX/RDBX /RDZX is twin gear are well known, widely accepted positive displacement pumps in all industries for its efficient performance, operational reliability, compact design & noiseless operation. Popular range of this series of rotary screw gear pumps are re-designed & re-engineered to offer further simplicity with added reliability meeting international standards like API, JIS, DIN. This series offers enlarged capacity range with option of self lubricated & independent lubricating jacketing construction.



Sizes From 1/2" to 6"
Capacity From 4 LPM to 2082 LPM
Pressure Upto 21 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 110°C
Mounting Foot & Flange*

MATERIAL

Casing : CI / CS / SS
Gears : ALLOY STEEL / SS
Shaft : ALLOY STEEL / SS
Bushing : Bronze / white metal
Bearing : Needle Roller

SEALING

Oil Seal
Mechanical Seal
Gland Packing
Double Mechanical Seal
API 682 Mechanical Seal

APPLICATION

Turbines
Compressors
Coating Metal
Engine Construction
Filling Systems
Filter Systems
Generator Construction
Marine Engine Construction
Metal Forming Machines
Waste Oil Treatment
Heavy Transfer Systems
Heavy Electric Machines
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry

SUITABLE FLUIDS

Lube Oil
Hydraulic Oil
Gear Oil
Adhesives
Base Oil
Cutting Oil
Diesel Oil
Emulsions
Chemicals
Fuel Oil
Hardening Oil
Heavy Oil
Hydraulic Fluids
Lacquers
Motor Oil
Paint
Paraffin
Printing Inks
Seed Oil
Olive Oil
Paraffin Waxes
Peanut Oil
Quenching Oil
Varnish
Vegetable Oil
Walnut Oil

** - Both IEC & NEMA standard mounting offered*

TYPE **RDNX/RDBX/RDZX**

(ROTARY HIGH PRESSURE GEAR PUMP)

Pump Model	Size	Port Size # (NB)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
RDBX/NX 050	S	1/2"	5	6
	M		8.3	10
	L		16.5	20
RDBX/NX 100	S	1"	25	30
	M		33	40
	L		42	50
RDBX/NX 125	S	1 1/4"	50	60
	M		60	72
	L		83	100
RDBX/NX 150	S	1 1/2"	100	120
	M		125	150
	L		150	180
RDBX/NX 200	S	2"	166	200
	M		200	240
	L		250	300
RDBX/NX 250	S	2 1/2"	300	360
	M		333	400
	L		350	420
RDBX/NX 300	S	3"	400	480
	M		450	540
	L		600	720
RDBX/NX 400	S	4"	700	840
	M		800	960
	L		900	1080
RDBX/NX 500	S	5"	1000	-
	M		1200	-
	L		1400	-
RDBX/NX 600	S	6"	1666	-
	M		1915	-
	L		2082	-



Model No RDBX/NX/ZX 050 to 250 are with non-standard SAE Flange.
Model No RDBX/X/ZX 300 to 600 are with ANSI B16.5. ASA 300# Flange.

Note *Contact Rotodel For Temperature > 110°C.*

TYPE **RDNXF/RDBXF**

(ROTARY HIGH PRESSURE GEAR PUMP WITH VERTICAL DESIGN)

Rotodel rotary gear pump type RDNFX/RDBXF is twin gear pump are well known, widely accepted positive displacement pumps in all industries for its efficient performance, operational reliability, compact design & noiseless operation. Popular range of this series of rotary screw gear pumps are re-designed & re-engineered to meet international standards like API, JIS, DIN. This series offers enlarged capacity range with option of self lubricated & independent lubricating jacketing construction.



Sizes From 1/2" to 6"
Capacity From 5 LPM to 2083 LPM
Pressure Upto 21 kg/cm²
Viscosity **Upto 100000 CST
Temperature *Upto 110°C
Mounting Vertical / Submerged

MATERIAL

Casing : CI / CS / SS
Gears : ALLOY STEEL / SS
Shaft : ALLOY STEEL / SS
Bearing : Needle Roller
Bushing : Bronze / White Metal

SEALING

Oil Seal
Mechanical Seal
Gland Packing

APPLICATION

Compressors
Turbines
Engine Construction
Filling Systems
Filter Systems
Generator Construction
Marine Engine Construction
Metal Forming Machines
Waste Oil Treatment
Heavy Transfer Systems
Heavy Electric Machines
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry

SUITABLE FLUIDS

Lube Oil
Hydraulic Oil
Gear Oil
Adhesives
Cutting Oil
Diesel Oil
Emulsions
Chemicals
Fuel Oil
Hardening Oil
Heavy Oil
Hydraulic Fluids
Lacquers
Motor Oil
Paraffin
Base Oil
Linseed Oil
Olive Oil
Paraffin Waxes
Peanut Oil
Quenching Oil
Varnish
Vegetable Oil
Walnut Oil

*** For higher viscosity pump should be run at lower RPM.*
** Contact Rotodel for Temperature > 110°C*

TYPE **RDNXF/RDBXF**

(ROTARY HIGH PRESSURE GEAR PUMP WITH VERTICAL DESIGN)

Pump Model	Size	Port Size # (BSP)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
RDBXF/NXF 050	S	1/2"	5	6
	M		8.30	10
	L		16.5	20
RDBXF/NXF 100	S	1"	25	30
	M		33	40
	L		42	50
RDBXF/NXF 125	S	1 1/4"	50	60
	M		60	72
	L		83	100
RDBXF/NXF 150	S	1 1/2"	100	120
	M		125	150
	L		150	180
RDBXF/NXF 200	S	2"	166	200
	M		200	240
	L		250	300
RDBXF/NXF 250	S	2 1/2"	300	360
	M		333	400
	L		350	420
RDBXF/NXF 300	S	3"	400	480
	M		450	540
	L		600	720
RDBXF/NXF 400	S	4"	700	840
	M		800	960
	L		900	1080
RDBXF/NXF 500	S	5"	1000	-
	M		1200	-
	L		1400	-
RDBXF/NXF 600	S	6"	1666	-
	M		1915	-
	L		2083	-



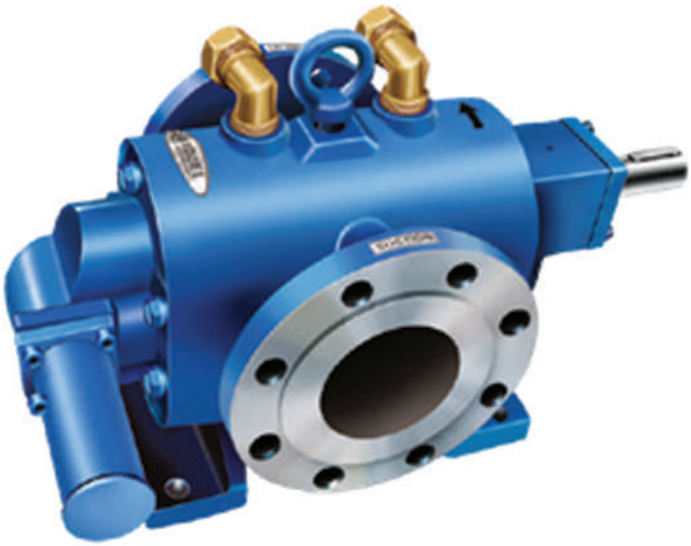
Model No RDBXF/NXF/050 to 250 are with non-standard SAE Flange.
Model No RDBXF/NXF/ 300 to 600 are with ANSI B16.5. ASA 300# Flange.

Note *For Foot Mounted Pump inlet / outlet ports are in Flange configuration.*

TYPE **RDRBJ/RDRNJ/RDRXJ**

(ROTARY JACKETED GEAR PUMP)

Rotodel rotary gear pump type RDRBJ/RDRNJ/RDRXJ is a twin gear pump that is well known, widely accepted PD pumps in all industries for its efficient performance, operational reliability, compact design & noiseless operation. Popular range of this series of rotary screw gear pumps are re-designed & re-engineered to offer further simplicity with added reliability meeting international standards like API, JIS, DIN. This series offers enlarged capacity range with option of self lubricated & independent lubricating jacketing construction.



Sizes From 1/2" to 6"
Capacity From 8 LPM to 3333 LPM
Pressure Upto 11 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 350°C
Mounting Foot & Flange*

MATERIAL

Casing : CS / SS
Gears : ALLOY STEEL / SS
Shaft : ALLOY STEEL / SS
Bushing : Bronze
Casing Jacket : CS
Bearing : Needle Roller / Bush Bearing

SEALING

Mechanical Seal
Gland Packing
API 682 Mechanical Seal

APPLICATION

Machine Building Industry
Construction Vehicle Manufacturers
Petrochemical Industry
Applications where external heating is required

SUITABLE FLUIDS

Bitumen	Tar
Asphalt	Wax
Lube Oil	HFC
FO	RFO



** - Both IEC & NEMA standard mounting offered*

TYPE RDRBJ/RDRNJ/RDRXJ

(ROTARY JACKETED GEAR PUMP)

Pump Model	Size	Port Size # (BSP)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
RXJ RDRNJ 050 RBJ	S	1/2"	8.3	10
	M		16.6	20
	L		25	30
RXJ RDRNJ 100 RBJ	S	1"	33	40
	M		50	60
	L		60	72
RXJ RDRNJ 150 RBJ	S	1 1/2"	83	100
	M		100	120
	L		125	150
RXJ RDRNJ 200 RBJ	S	2"	150	180
	M		166	200
	L		200	240
RXJ RDRNJ 250 RBJ	S	2 1/2"	250	300
	M		300	360
	L		333	400
RXJ RDRNJ 300 RBJ	S	3"	415	498
	M		450	540
	L		500	600
RXJ RDRNJ 400 RBJ	S	4"	600	720
	M		666	800
	L		833	1000
RXJ RDRNJ 500 RBJ	S	5"	1000	-
	M		1250	-
	L		1500	-
RXJ RDRNJ 600 RBJ	S	6"	1660	-
	M		1832	-
	L		2083	-
RXJ RDRNJ 800 RBJ	S	6"	2499	-
	M		2915	-
	L		3332	-



Flange connection as per ANSI B16.5. ASA 150#.
Some models are available with ANSI B16.5. ASA 300#.

***Note** * Temperature > 175°C can be given with special sealing.*

TYPE GTX
(FUEL PRESSURISING GEAR PUMP)

For applications involving oil or liquid injection in boilers and furnaces, we have introduced a comprehensive range of high-pressure external gear pumps. These pumps are specifically designed to meet the demanding requirements of such systems, ensuring optimal performance, reliability, and efficiency in high-pressure environments.



Sizes (BSP) From 3/8" to 3/4"
Capacity From 120 LPM to 2500 LPM
Pressure Upto 35 kg/cm²
Viscosity Upto 1000 CST
Temperature Upto 250°C
Mounting Foot & Flange*

MATERIAL

Casing : CI
Gears : EN 8D
Shaft : EN8D
Bushing : Sintered Bronze

SEALING

Oil Seal

APPLICATION

Fuel Pressurizing
Hydraulic Oil
Firing Application
Lubrication Oil Transfer

SUITABLE FLUIDS

HSD
LDO
SAE Oil
ISO VG Oil
Furnace Oil
HFO



Pump Model	Port Size (BSP)	Capacity @220 CST	
		LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
GTX 025	3/8"	120	144
		200	240
		250	300
GTX 040	1/2"	300	360
		450	540
		600	720
GTX 050	1/2"	750	900
		1000	1200
		1250	1500
GTX 075	3/4"	1500	1800
		2000	2400
		2500	3000

***Note** * - Both IEC & NEMA standard mounting offered*

TYPE SPN/SP-II
(ROTARY GEAR PUMP)

ROTODEL rotary gear pump type SPN/SP-II has sturdy and robust construction. The impeller gears are single helical/ spur gears fitted on hardened and ground carbon steel shaft rotating on heavy duty ball bearings mounted on a wearing plate and fitted inside the closed machined casing. The front cover is fitted with oil/mechanical seals & the back cover is fitted with an adequately designed add-on pressure relief valve. The pump is provided with inlet-outlet BSP ports with horizontal orientations.



Sizes (BSP) From 1/2" to 2"
Capacity From 5 LPM to 225 LPM
Pressure SPN Upto 21 kg/cm²
SPN II Upto 50 kg/cm²
Viscosity Upto 2500 CST
Temperature Upto 250 °C
Mounting Foot

MATERIAL

Casing : CI / CS
Gears : Alloy Steel
Shaft : SAE 8620
Bearing : Needle Roller / Ball
Bushing : Sintered Bronze / White Metal

SEALING

Oil Seal
Mechanical Seal

APPLICATION

Boiler Firing
Metal Forming Machines
Waste Oil Disposal
Waste Oil Treatment
Waste Oil Transport
Transfer Systems
Lubricant Manufacturers
Lubricating Oil Systems
Machine Building Industry
Machine Tools
Furnace Firing

SUITABLE FLUIDS

Clean Lube Oil
HPS
RFO
Furnace Oil
Gear Oil
Hydraulic Oil
ASTM & SAE Lube Oil
Crude Oil
Dirty Lube Oil
HSD
Kerosene
LDO

Pump Model	Size	Port Size # (BSP)	Capacity @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
SPN 050	-	1/2"	15	18
SPN 075	M	3/4"	25	30
	L		35	42
SPN 100	-	1"	50	60
SPN 125	M	1 1/4"	60	72
	L		75	90
SPN 150	S	1 1/2"	100	120
	M		125	150
SPN 200	S	2"	150	180
	M		200	240
	L		225	270

Note *SP-II pumps are with spur gears, suitable upto 50 kg/cm² pressure. Temperature > 175°C provided with special sealing*

TYPE NDX/NDB/NDNX

(ROTARY TRIPLE TWIN BULK CARGO PUMP WITH INBUILT GEAR BOX)

The Rotodel NDX/NDNX series pumps are designed to handle bulk volume of viscous & semi-viscous liquids quite efficiently at medium pressure. NDB is suitably designed to handle heavy molasses for the sugar industry. The pump can be coupled directly with a drive as impeller speed reduction is made possible within the pump, making it very compact & economical & thereby reducing the overall cost & space. The timing gear reduces the noise level & enhances the working life of the pump.



Sizes From 5" to 12"
Capacity From 1333 LPM to 9163 LPM
Pressure Upto 15 kg/cm² (NDNX)
Upto 10 kg/cm² (NDX)
Viscosity Upto 100000 CST
Temperature Upto 250°C
Mounting Foot

MATERIAL

Casing : CI / CS / SS 316
Gears : EN 8D / SS 316
Shaft : EN 8D / SS 316
Bushing : Bronze
Ball Bearing : SKF / NTN
Needle Roller Bearing : IKO / INA

SEALING

Oil Seal
Mechanical Seal
Gland Packing

APPLICATION

Bulk Loading & Unloading
Wagon Decanting
Storage Terminals
Ships / Ports

SUITABLE FLUIDS

Edible Oils
Fuel Oils
Crude Oils
HSD
LDO
Aviation Fuel
Molasses
Lube Oi
FO
HFO
Gasoline

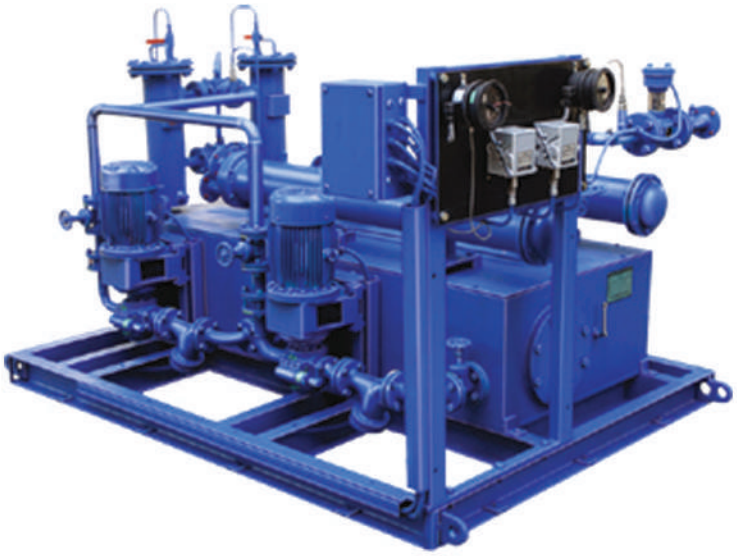
Pump Model	Port Size # (NB)	Flow @220 CST	
		LPM @720 RPM (50 HZ)	LPM @1150 RPM (60 HZ)
NDNX 400	4"	833	1330
NDNX 500	5"	1250	1996
NDNX 600	6"	1666	2661

Pump Model	Port Size # (NB)	Flow @220 CST	
		LPM @960 RPM (50 Hz)	LPM @1150 RPM (60 Hz)
NDX /NDB 500	5"	1333	1596
		1583	1896
NDX /NDB 600	6"	2083	2495
		2916	3493
NDX /NDB 800	8"	3332	3991
		4582	5488
NDX/NDB 1000	10"	5415	6486
		7081	8482
NDX /NDB 1200	12"	7914	9480
		9163	10976

Flange connection as per ANSI B16.5. ASA 150#. Some model are available with ANSI B16.5. ASA 300#.

FLS
(FORCED LUBRICATION SYSTEM)

The forced lubrication system is designed to facilitate the cooling and filtration of oil. This process effectively reduces the oil temperature and removes impurities, thereby enhancing the overall quality of the oil. All the Instruments in FLS are connected with PLC-based control panel which ensures that the pressure, flow, and temperature of oil remain within set parameters and also ensures the safety of equipment by giving an alarm or shutting down automatically if any problem occurs. FLS comes in horizontal and vertical design.



Sizes (BSP) From 1/2" to 6"
Capacity From 8 LPM to 2083 LPM
Pressure Upto 21 kg/cm²
Viscosity Upto 10000 CST
Temperature Upto 350°C
Mounting Horizontal / Vertical

APPLICATION

For forced lubrication system

SUITABLE FLUIDS

Gear Oil
All Grade of ISO VG Lube Oil
SAE Oil

MATERIAL

Pump : CI / CS / SS
Piping : CS / SS
Structure : MS / SS
Tank : MS / SS
Ball Valve : CI / WCB / SS
NRV : CS / SS
Gate Valve : CI / WCB / SS / Gun Metal
Y Type Strainer : CS / SS
Cooler : Plate Type / Shell & Tube Type / Air Cooler
Motor: NFLP / FLP / IIC

SEALING

Oil Seal
Mechanical Seal

TYPES OF INDUSTRIES SERVED

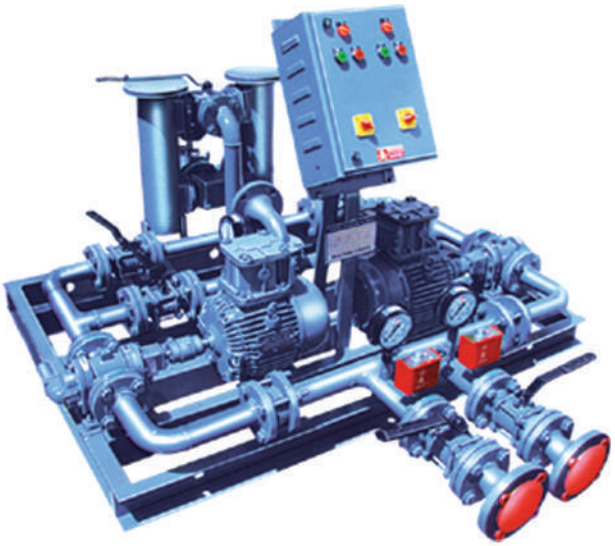
Cement Industry
Steel Plant
Sugar Industry
Refinery
Gear Box Manufacturer
Compressor Manufacturer
Centrifugal Seal Lubrication
Turbine Industries
Power Plant



Note *Please contact factory for speed recommendations when pumping liquid with viscosities > 500 CST*

SKID
(LOADING / UNLOADING OF OIL)

The skid is designed for loading, unloading, transferring & filtering of all types of oil. All the Instruments in the skid can be connected with PLC-based control panel, which ensures that the pressure, flow, and oil remain within set parameters and also ensures the safety of equipment by giving an alarm or shutting down automatically if any problem occurs. Also, they can be designed and manufactured in a compact manner with horizontal and vertical mounting options.



Sizes (BSP) From 1/2" to 6"
Capacity From 8 LPM to 2083 LPM
Pressure Upto 21 kg/cm²
Viscosity Upto 10000 CST
Temperature Upto 350°C
Mounting Horizontal / Vertical

APPLICATION

Loading / Unloading / Transfer / Bunkering etc.

SUITABLE FLUIDS

Lube Oil	Diesel
LDO	Furnace Oil
HSD	Heavy Furnace Oil
Naptha	Aviation Fuel
Crude Oil	Gasoline

MATERIAL

Pump : CI / CS / SS
Piping : CS / SS
Structure : MS / SS
Tank : MS / SS
Simplex / Duplex Filter : CS / SS
Ball Valve : CI / CS / SS / Gun Metal
NRV : CS / SS
Gate Valve : CI / CS / SS / Gun Metal
Y Type Strainer : CS / SS
Motor: NFLP / FLP / IIC

PUMP SEALINGS

Oil Seal
Gland Packing
Mechanical Seal



Note: *Higher flow Up to 8000 LPM can be offered on request*

TYPE **RDZXI / RDZZXI / RDZZX**

(FIRE FIGHTING ROTARY GEAR PUMP)

ROTODEL rotary gear pump type "RDZXI - RDZZXI - RDZZX" is a sturdy and of robust construction for fire-fighting applications. The impeller gears are double helical hob cut gears fitted on nitrided and SS shaft rotating on heavy-duty bearings mounted on outboard bearing covers and fitted inside the closed machined casing. The front cover house and the stuffing box are fitted with oil seals / mechanical seals. The back cover is fitted with add-on pressure relief valve.



Sizes From 1" to 6"
Capacity From 25 LPM to 2082 LPM
Pressure Upto 21 kg/cm²
Viscosity Upto 100000 CST
Temperature Upto 220°C
Mounting Foot & Flange

MATERIAL

Casing : SS316 / Bronze
Gears : SS316 L
Shaft : SS-431 / SS-316 L
Bushing : Bronze
Bearing : Needle Roller Bearing

SEALING

Mechanical Seal

APPLICATION

Fire Fighting
Transferring
Loading & Unloading
Chemical & Petrochemical Industry

SUITABLE FLUIDS

Foam AFFF
Glycerin
Edible Oil
Waxes
Resins
Abrasive Liquid
Corrosive Liquid
Chemicals



TYPE RDZXI / RDZZXI / RDZZX

(FIRE FIGHTING ROTARY GEAR PUMP)

Pump Model	Size	Port Size # (BSP)	Flow @220 CST	
			LPM @1440 RPM (50 Hz)	LPM @1750 RPM (60 Hz)
ZXI RDZ XI 100 ZX	S	1"	25	30
	M		33	40
	L		42	50
ZXI RDZ XI 125 ZX	S	1 1/4"	50	60
	M		60	72
	L		83	100
ZXI RDZ XI 150 ZX	S	1 1/2"	100	120
	M		125	150
	L		150	180
ZXI RDZ XI 200 ZX	S	2"	166	200
	M		200	240
	L		250	300
ZXI RDZ XI 250 ZX	S	2 1/2"	300	360
	M		333	400
	L		350	420
ZXI RDZ XI 300 ZX	S	3"	400	480
	M		450	540
	L		600	720
ZXI RDZ XI 400 ZX	S	4"	700	840
	M		800	960
	L		900	1080
ZXI RDZ XI 500 ZX	S	5"	1000	-
	M		1200	-
	L		1400	-
ZXI RDZ XI 600 ZX	S	6"	1666	-
	M		1915	-
	L		2082	-



Model No RDZXI 100 to 250 are with non-standard SAE Flange.
Model No RDZXI 300 to 600 are with ANSI B16.5. ASA 300# Flange.

Note: *Can be supplied with Diesel Engine as a prime mover*

TYPE DPRV/DPRVF
(PRESSURE RELIEF VALVE)

Rotodel manufactures pressure relief valves, designated as DPRV/DPRVF, which utilize a direct spring-type sliding piston design. These valves are specifically engineered for installation within pipelines and hydraulic circuits operating at pressures of up to 40 kg/cm². The pressure relief valves are available with flange connections in SAE standards or threaded connections, such as BSP or NPT. Designed for versatility, these valves can be effectively utilized in hydraulic circuits handling both flammable and non-flammable liquids.



Sizes (BSP) From 1/2" to 3"
Capacity From 40 LPM to 800 LPM
Pressure 0.5 to 30 kg/cm²
Viscosity Upto 1000 CST
Temperature -25°C to 180°C
Mounting Vertical
End Connection Thread / Flange End

MATERIAL

Casing : CI/CS/SS 316
Sliding Piston : EN-353 / SS-316 L
Spring : Spring steel

SUITABLE FLUIDS

Lube Oil	LDO
Base Oil	Diesel
Hydraulic Oil	FO
Turbine Oil	HFC
Crude Oil	Vegetable Oil
Edible Oil	Castor Oil



Model	Port Size		Displacement	SET PRESS (kg/cm²)
	NB	Inch	LPM	
DPRV 15	15	1/2"	40	0.2 to 30
DPRV 20	20	3/4"	90	0.5 to 40
DPRV 25	25	1"	90	0.5 to 40
DPRV 32	32	1 1/4"	450	0.5 to 25
DPRV 40	40	1 1/2"	450	0.5 to 25
DPRV 50	50	2"	550	0.5 to 25
DPRV 80	80	3"	800	0.5 to 20

Note *Temperature > 175°C provided with special sealing.*

TYPE **RSF / RDF**
(SIMPLEX / DUPLEX FILTER)

The Rotodel Lube oil filter is designed specifically for full-flow filtering of the lubricating oils used in a forced lubrication oil system. Their extremely effective filtering prevents contaminants from entering sensitive parts, thus reducing wear and boosting reliability. Their compact, space saving design makes them easy to install and retrofit as upgrades in existing installations.



Sizes (BSP) From 1/2" to 10"
Capacity From 5 LPM to 2083 LPM
Pressure Upto 21 kg/cm²
Viscosity 1000 CST
Filtration 25 µm to 500 µm
Type Simplex / Duplex
Mounting Vertical

MATERIAL

Body : CS / SS
Covers : MS / SS
Valves : CS / SS
Wire Mesh : CS / SS

SUITABLE FLUIDS

Lube Oil
HSD
LDO
Gear Oil
FO
HFO
Crude Oil

APPLICATION

Cleaning and Filtering



Note *Customer specific filter can be offered on request.*

ISO 9001 ISO 14001 ISO 45001 CE Certi. No. CE/069

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