



UTILITY PRODUCT OVERVIEW

Energy-Efficient Pump Solutions

PROVEN TECHNOLOGY

DESMI

DESMI Centrifugal Pumps

DESMI has worked with customers to develop new innovations in pump technology. Whether it is solving individual application problems or developing new industry leading ideas, we are always looking for ways of doing things better. DESMI's programme within centrifugal pumps represents the latest developments, based on more than 150 years of experience in the pump industry.

The pumps are characterised by high levels of efficiency and low NPSH values.

DESMI Vertical pumps require minimal space, and have easy access for maintenance of the pump's rotating parts.

DESMI Centrifugal Pumps



DESMI ESL

ESL Inline centrifugal pump	
Nominal diameter (DN)	25 to 80
Flow rate	Up to 160 m ³ /h (660 US gpm)
Head	Up to 65 m (210 ft)
Pressure	Up to 30 bar (435 psi)
Temperature	Up to 140°C (284°F)
Applications: Hot water circulation, smaller HVAC & diesel transfer up to 500 cSt.	



DESMI DSL



DESMI DSL Horizontal

DSL Inline double suction centrifugal pump	
Nominal diameter (DN)	300 to 500
Flow rate	Up to 5400 m ³ /h (23800 US gpm)
Head	Up to 90 m (295 ft.)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 140°C (284°F)
Applications: District heating/cooling, seawater, water circulation, cooling towers distribution, chiller distribution, scrubber (flue gas cleaning).	



DESMI NSL Horizontal



DESMI NSL

NSL Inline centrifugal pump	
Nominal diameter (DN)	65 to 400
Flow rate	Up to 3800 m ³ /h (16700 US gpm)
Head	Up to 220 m (720 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 140°C (284°F)
Applications: District heating/cooling, sea water, water circulation, cooling towers distribution, chiller distribution & diesel transfer up to 500 cSt. scrubber (flue gas cleaning).	



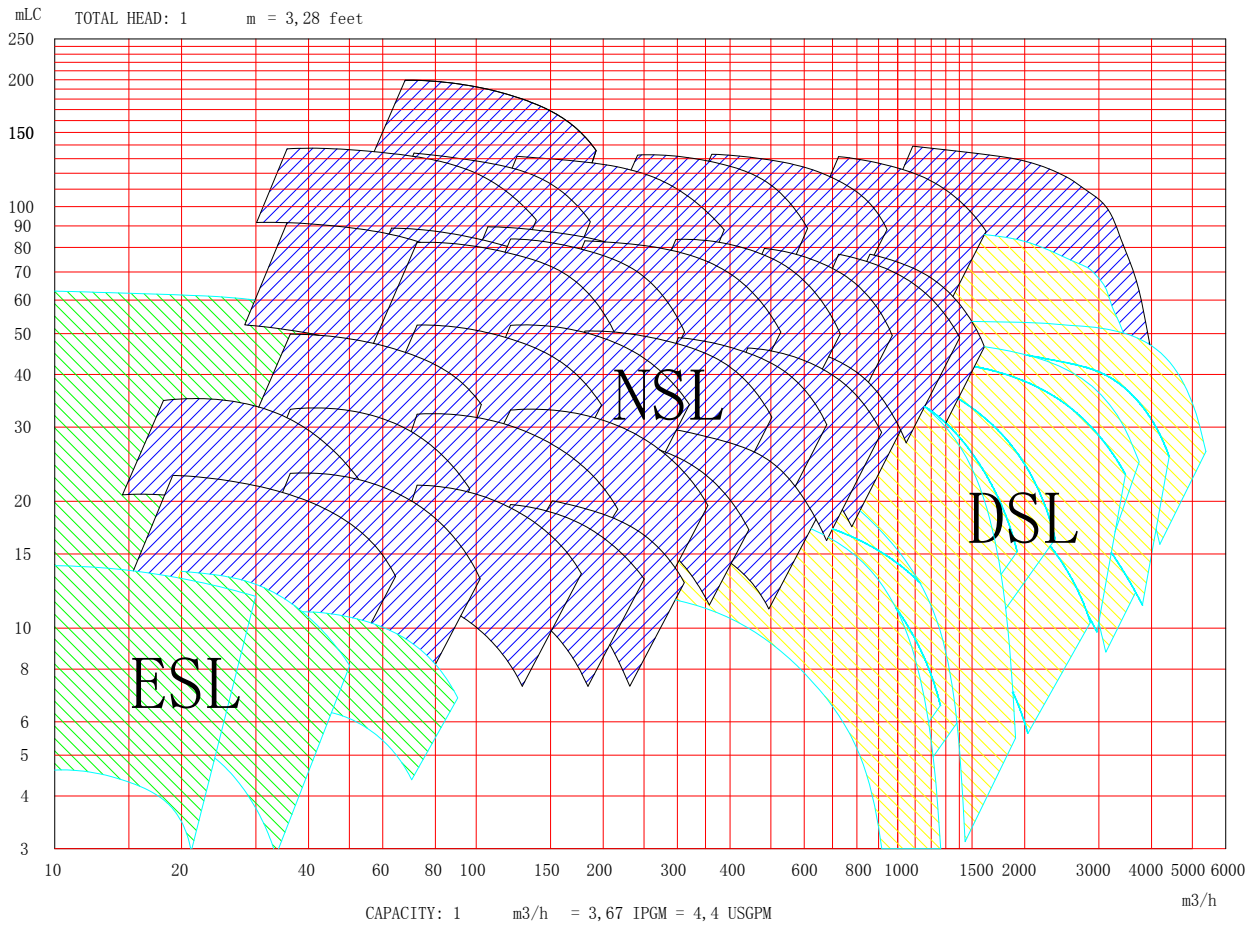
DESMI NSLH



DESMI NSLV

NSLH/V End suction centrifugal pump	
Nominal diameter (DN)	80 to 400
Flow rate	Up to 3800 m ³ /h (16700 US gpm)
Head	Up to 220 m (720 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 140°C (284°F)
Applications: District heating/cooling, sea water, water circulation, cooling towers distribution, chiller distribution. & diesel transfer up to 500 cSt. scrubber (flue gas cleaning).	

DESMI Centrifugal Pumps



Our centrifugal pumps are easy to maintain and have very low energy consumption. All models are available in cast iron, ductile iron, stainless duplex steel and bronze.



DESMI Water and Waste Water Centrifugal Pumps



Norma Pump ES03



Block Pump ES04



Horizontal High Pressure Pump



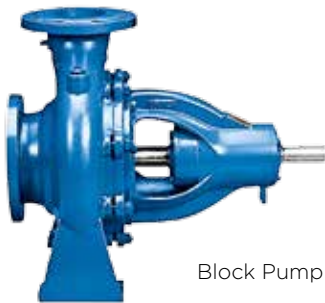
Vertical High Pressure Pump

Single-stage centrifugal pumps

EN 733, ISO 2858/5193 Norma ES03, Block pump ES04	
Nominal diameter (DN)	32 to 150
Flow rate	Up to 600 m ³ /h (2642 US gpm)
Head	Up to 160 m (525 ft)
Pressure	Up to 16 bar (232 psi)
Temperature	Up to 140° C (284° F)
Applications: Water, pulp and paper, sugar, thermal power, other industries, small hydropower. Medias: Clean, slightly contaminated, and aggressive liquids up to a viscosity of 150 mm ² /s without abrasive and solids content	

High-pressure pumps

HP 45/46/49 Horizontal High Pressure Pump Vertical High Pressure Pump	
Nominal diameter (DN)	25 to 250
Flow rate	Up to 800 m ³ /h (3522 US gpm)
Head	Up to 800 m (2625 ft)
Pressure	Up to 100 bar (1450 psi)
Temperature	Up to 160° C (320° F)
Applications: Water, pulp and paper, sugar, thermal power, other industries, small hydropower. Medias: Clean and slightly contaminated liquids up to a viscosity of 150 mm ² /s without abrasive and solid content.	



Block Pump ES 01



Block ACS 07
Splitcase Pump

Single-stage centrifugal pumps

From closed to open impellers ES 01	
Nominal diameter (DN)	65 to 600
Flow rate	Up to 6,000 m ³ /h (26417 US gpm)
Head	Up to 160 m (525 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 200° C (392° F)
Applications: Water, pulp and paper, mining, sugar, thermal power, other industries, small hydropower. Medias: Depending on the impeller design: water, slightly contaminated, and contaminated media with some solids content; consistencies up to 8%.	

Double-flow axial pumps

ACS 07 Split case	
Nominal diameter (DN)	150 to 1200
Flow rate	Up to 20,000 m ³ /h(88057 US gpm) Customized up to 36,000 m ³ /h (158502 US gpm)
Head	Up to 220 m (722 ft)
Pressure	Up to 25 bar (363 psi)
Temperature	Up to 110° C (230° F)
Applications: Water, pulp and paper, mining, sugar, thermal power, other industries, small hydropower. Medias: Depending on the impeller design: water, slightly contaminated, and contaminated media with some solids content; consistencies up to 8%.	

DESMI Vertical Centrifugal Pumps

Water, Sprinkler, Industry Applications, Cleaning Systems and Boiler Feeds



DESMI Vertical Pumps DP

50 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10 2P	DPV 10 4P
Capacity					
Capacity range (m ³ /h)/(gpm)	0.2-3.3/0.9-15	0.4-6.5/1.8-29	0.6-9/2.6-40	1.0-13.2/4-58	0.5-6.6/2-29
Nominal capacity at Qopt. (m ³ /h)/(gpm)	1.9/8.4	4/18	6.3/28	10/44	5/22
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	229/751	234/768	256/840	239/784	58/190
Maximum pressure at Qopt. (m)/(ft)	187/614	193/633	200/654	179/587	43/141
NPSH at Qopt. (m)/(ft)	2.2/7.2	1.2/4	1.2/4	1.2/4	0.9/3
Hydraulic assembly					
Temperature range medium	-20 - +140° C / -4 - 284° F				

50 Hz					
Model	DPV 15 2P	DPV 15 4P	DPV 25 2P	DPV 25 4P	DPV 85
Capacity					
Capacity range (m ³ /h)/(gpm)	1.8-22.5/8-99	0.98-11.3/4.3-50	2.8-35/12-154	1.4-17.5/6-77	8.5-112.8/37-497
Nominal capacity at Qopt. (m ³ /h)/(gpm)	18/79	9.8/43	28/123	14/62	85.7/377
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	248/814	59/194	246/807		176/577
Maximum pressure at Qopt. (m)/(ft)	193/633	44/144	185/607	45/148	132/433
NPSH at Qopt. (m)/(ft)	1.2/4	0.6/2	3.0/10	0.8/3	2.2/7
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C / -4 - 284° F				

60 Hz					
Model	DPV 2	DPV 4	DPV 6	DPV 10 2P	DPV 10 4P
Capacity					
Capacity range (m ³ /h)/(gpm)	0.24-4/1-18	0.48-7.8/2-34	0.72-10.8/3.2-48	1.3-15.8/6-70	0.6-7.9/3-35
Nominal capacity at Qopt. (m ³ /h)/(gpm)	2.3/10	4.8/21	7.6/33	13.3/59	6.3/28
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(gpm)	246/807	238/781	255/837	246/807	61/200
Maximum pressure at Qopt. (m)/(gpm)	201/659	195/640	199/653	173/568	44/144
NPSH at Qopt. (m)	3/10	1.8/6	2/7	2/7	1.3/4
Hydraulic assembly					
Temperature range medium	-20 - +140° C / -4 - 284° F				

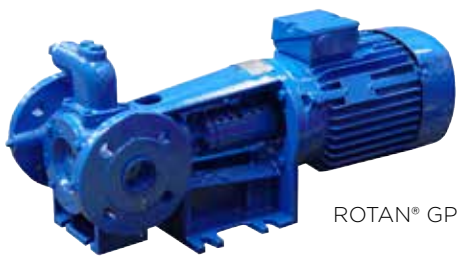
60 Hz					
Model	DPV 15 2P	DPV 15 4P	DPV 25 2P	DPV 25 4P	DPV 85
Capacity					
Capacity range (m ³ /h)/(gpm)	2.2-27/10-119	1.1-13.8/5-41	3.4-42/15-185	1.7-21/7-92	10-132/44-551
Nominal capacity at Qopt. (m ³ /h)/(gpm)	21.7/96	10.9/48	34/150	17/75	100/440
Pressure					
Norm pressure	PN16-25-40				
Maximum pump pressure (m)/(ft)	233/764	57/187	210/689	87/285	151/495
Maximum pressure at Qopt. (m)/(ft)	177/551	43/141	157/515	65/213	108/354
NPSH at Qopt. (m)/(ft)	1.5/6	1.3/4	4.6/15	1.1/3.6	3.8/12
Hydraulic assembly					
Temperature range medium	-20 up to + 140° C / -4 - 284° F				



DPV Pumps

ROTAN® pumps can be supplied in accordance with the ATEX Directive for use in potentially explosive environments.

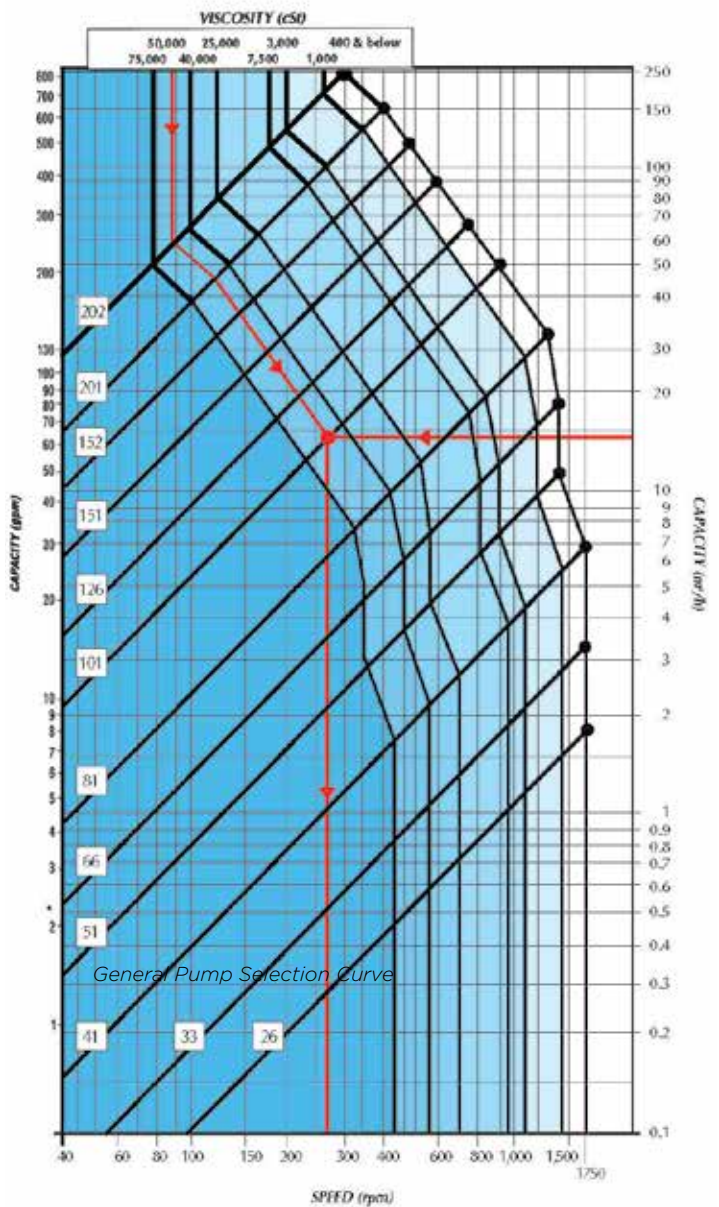
It is DESMI's policy to offer solutions developed in co-operation with worldwide leading companies and to follow-up with after-sales-service.



ROTAN® GP



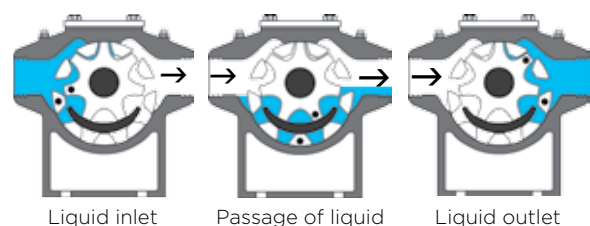
ROTAN® HD



Performance overview

	ROTAN® GP - General Purpose	ROTAN® HD - Heavy Duty
Capacity Range	Up to 50 m ³ /h / 220 gpm	Up to 250 m ³ /h / 1100 gpm
Speed	Up to 1750 rpm	Up to 1750 rpm
Differential Pressure	Up to 16 bar / 232 psi	Up to 16 bar / 232 psi
Suction Lift	Up to 0.5 / 7.25 psi bar vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping	Up to 0.5 bar / 7.25 psi vacuum while priming Up to 0.8 bar / 11.6 psi vacuum while pumping
Viscosity Range	Up to 7,500 cSt	Up to 250,000 cSt
Temperature	Up to 150°C / 302°F	Up to 250°C / 482°F
Pumping medium:	Clean oil, glycol, vegetable oil, solvents, lube oil, waste oil, fish oil, also for marine fuel- diesel- gas- and lube oil.	Oil, asphalt, chocolate, paint/lacquer, molasses, soap, additive, polyol, viscose, sulphate soap, maltose, grease, pitch, base oil, bitumen, polyester, also for marine fuel- diesel- gas- and lube oil.

Method of operation



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