

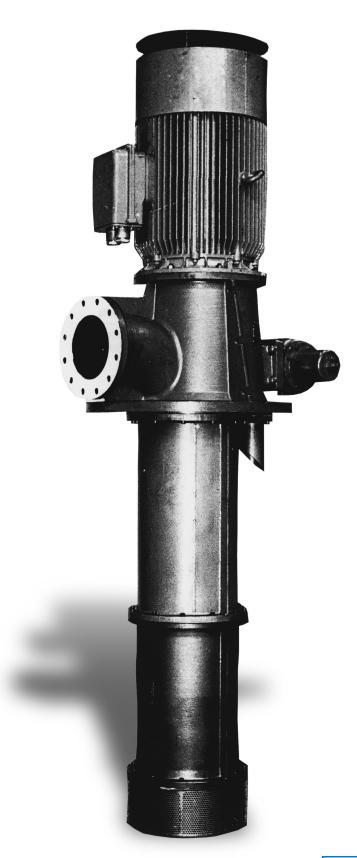
PRODUCTS

HYDRAULIC OILS

CLEAN FUEL OILS

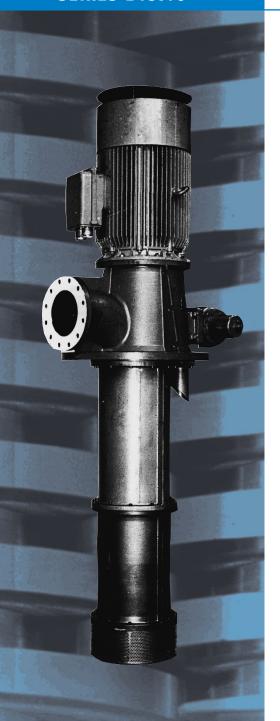
LABELLING

LUBE OIL PUMPS
HYDRAULIC SYSTEMS
FUEL OIL TRANSFER PUMPS



SERIES 215.10

GENERAL INFORMATION



Principle

The Houttuin double entry screw pumps series 215 are rotating self-priming positive displacement pumps. The pump is constructed for submergible application and has therefore a very good NPSH-value.

Two inter-meshing screws rotating in a pump casing ensure high pumping efficiency with constant axial flow and unequalled suction power.

Construction

The spindles are supported and axially held in position by ball bearings. The transmission of torque from the driven spindle to the idler spindle is effected by product lubricated timing gears in an attached gearbox. The ball bearings and timing gears maintain a small clearance between the screws, thus preventing metal to metal contact.

Shaft sealing

Product lubricated single unbalanced mechanical seal.

Overload protection

For protection against overload a built-on spring loaded relief valve can be supplied.

Applications

For pumping lubricating oils, hydraulic oils or other lubricating liquids which do not contain abrasive substances nor chemically attack the pump materials.

As lub oil pumps in ship and offshore engineerings, as filling pumps in tank farms and in hydraulic systems.

Products

- Lubricating oils
- Hydraulic oils
- Clean fuel oils

Labelling

- Main lub oil pumps
- Auxiliary lub oil pumps
- Hydraulic systems
- Fuel oil transfer systems

Performance data

Capacity	Q	up to 490 m ³ /h
Viscosity range	V	20 to 760 cSt
Temperature of		
pumped liquid	t	up to 80 °C
Inlet pressure		not applicable
Outlet pressure	p_d	up to 10 bar
Difference		
pressure	Δp	up to 10 bar
Speed	n	up to 2900 rpm
Flanges	accord	ding to DIN or ANSI

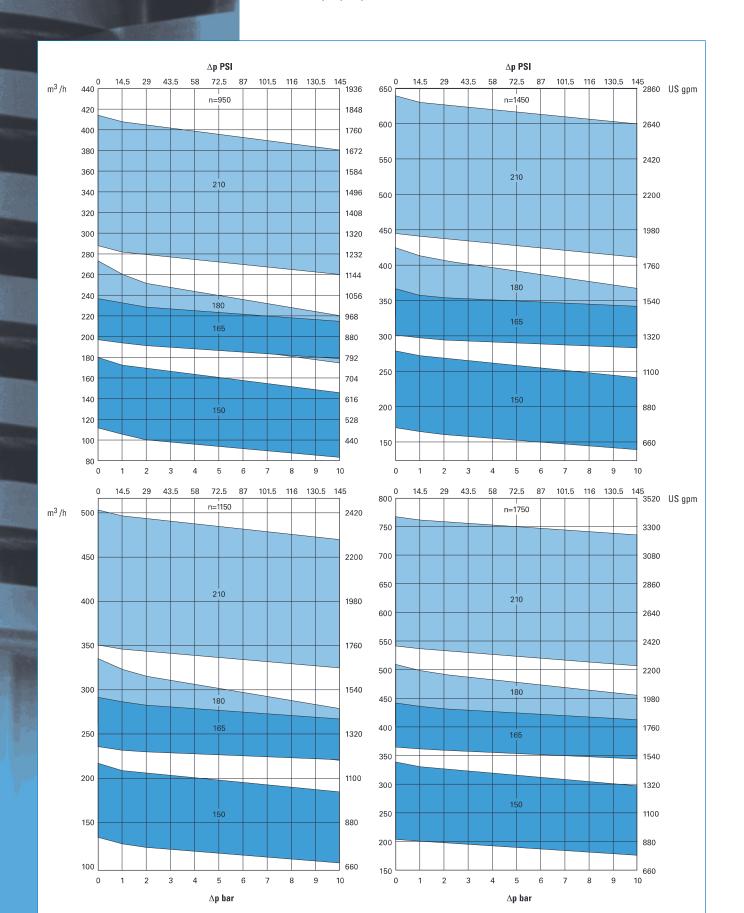
AVAILABLE MATERIALS

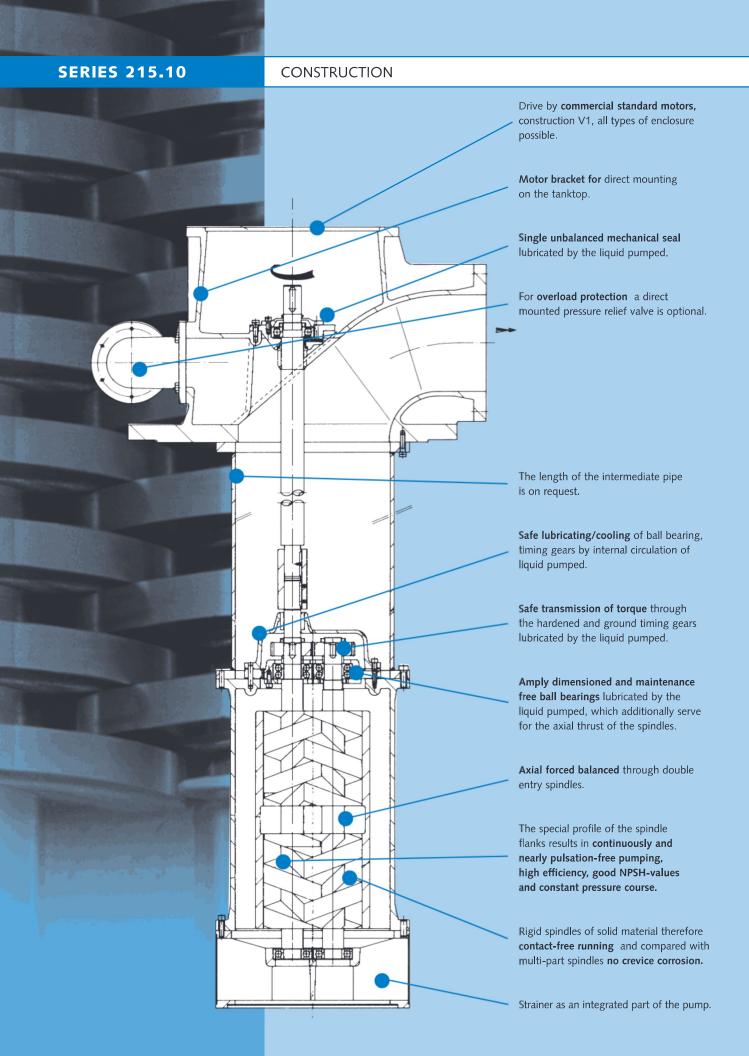
FOR PUMP AND MECHANICAL SEAL:

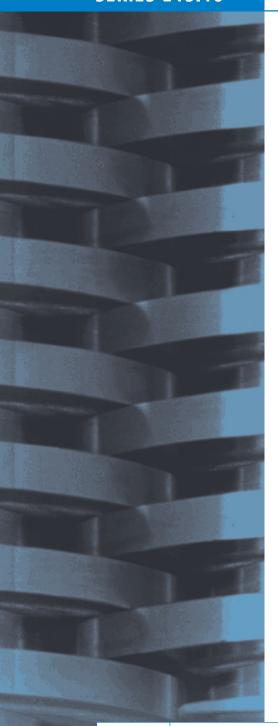
	and the state of t				
Pump		Mechanical seal according to DIN 24960 / API			
Screw shafts	Casing and Covers	Seal faces	Springs	'O' -rings	
- Carbon Steel	- Cast Iron	- Chrome Steel	- Stainless	- Viton	
	- Nodular Cast Iron	against	Steel		
	Cast Iron	- Carbon	(Type 300)		

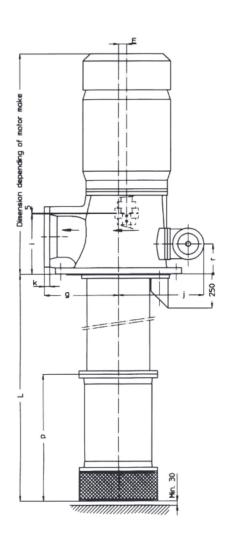
PERFORMANCE GRAPHS

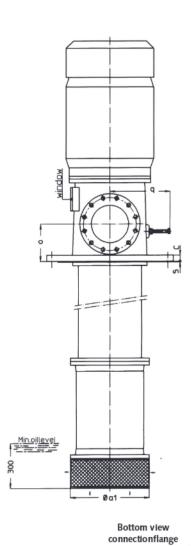
Flow rate/pressure at minimum and maximum viscosity according to pump size. For exact performance data dependent of viscosity and rpm please refer to the individual characteristics per pump size.



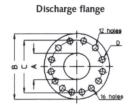


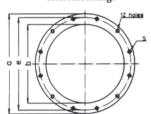






Sense of rotation: clockwise seen from drive side





PUMP SIZE	FLANGES PN16 DIN 2533					PUMP FOOT					
3122	Α	В	С	D	E	a	b	С	е	s	a1
150	250	405	355	12x26	55	850	700	40	780	12x27	505
165	250	405	355	12x26	55	850	700	40	780	12x27	540
180	250	405	355	12x26	55	850	700	40	780	12x27	690
210	350	520	470	16x26	73.5	990	850	45	920	12x27	725

PUMP DIMENSIONS									
g	i	j	k	О	р	q	r	L	
500	405	575	32	250	850	405	200	on request	100
500	405	575	32	250	870	405	200	on request	100
500	405	575	32	250	880	405	200	on request	100
	500 500	500 405 500 405	500 405 575 500 405 575	g i j k 500 405 575 32 500 405 575 32	g i j k o 500 405 575 32 250 500 405 575 32 250	g i j k o p 500 405 575 32 250 850 500 405 575 32 250 870	g i j k o p q 500 405 575 32 250 850 405 500 405 575 32 250 870 405	g i j k o p q r 500 405 575 32 250 850 405 200 500 405 575 32 250 870 405 200	g i j k o p q r L 500 405 575 32 250 850 405 200 on request 500 405 575 32 250 870 405 200 on request

PERFORMANCE DIAGRAMS TOTAL PUMP PROGRAM*)

*) The diagrams show the performance range of the different pump series in our pump program and are for information only.

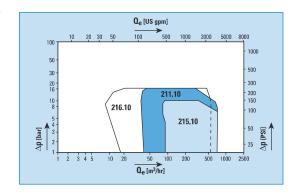
STANDARD PUMPS

With Internal Bearings

for lubricating liquids

viscosity range : 20 - 760 cSt

: 98 - 3500 SSU

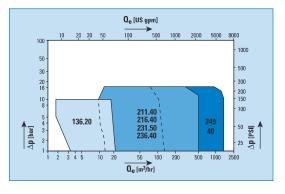


With External Bearings

for non-lubricating liquids

viscosity range : 0,6 - 1500 cSt

: 32 - 7000 SSU

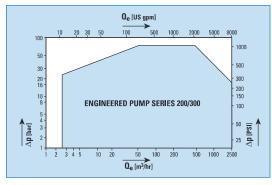


With External Bearings

for lubricating and non-lubricating liquids

viscosity range : 0,6 - 100.000 cSt

: 32 - 466.000 SSU



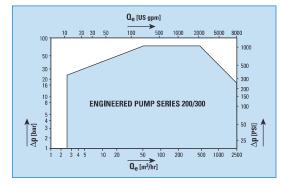
ENGINEERED PUMPS

With External Bearings

for lubricating and non-lubricating liquids

viscosity range : 0,6 - 100.000 cSt

: 32 - 466.000 SSU



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