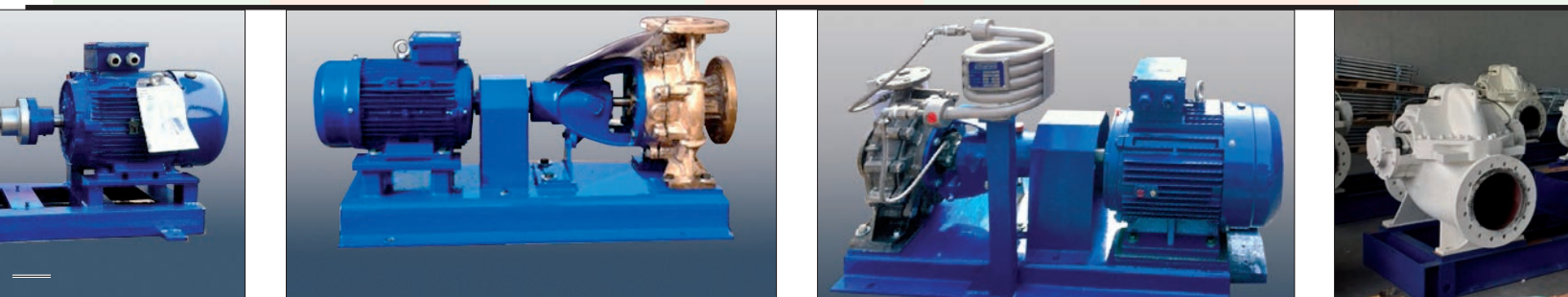


Acqueducts	Fire fighting	Civil	Heating plant	Conditioning plant	Depuration plant	Agriculture
						

The dot plot displays the distribution of scores for three groups: Control (green), Treated (red), and a third group (green). The y-axis represents scores from 0 to 10. The Control group has scores at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The Treated group has scores at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. The third group has scores at 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10.



- Project engineering
- Customer service
- Flexibility
- Lean manufacturing

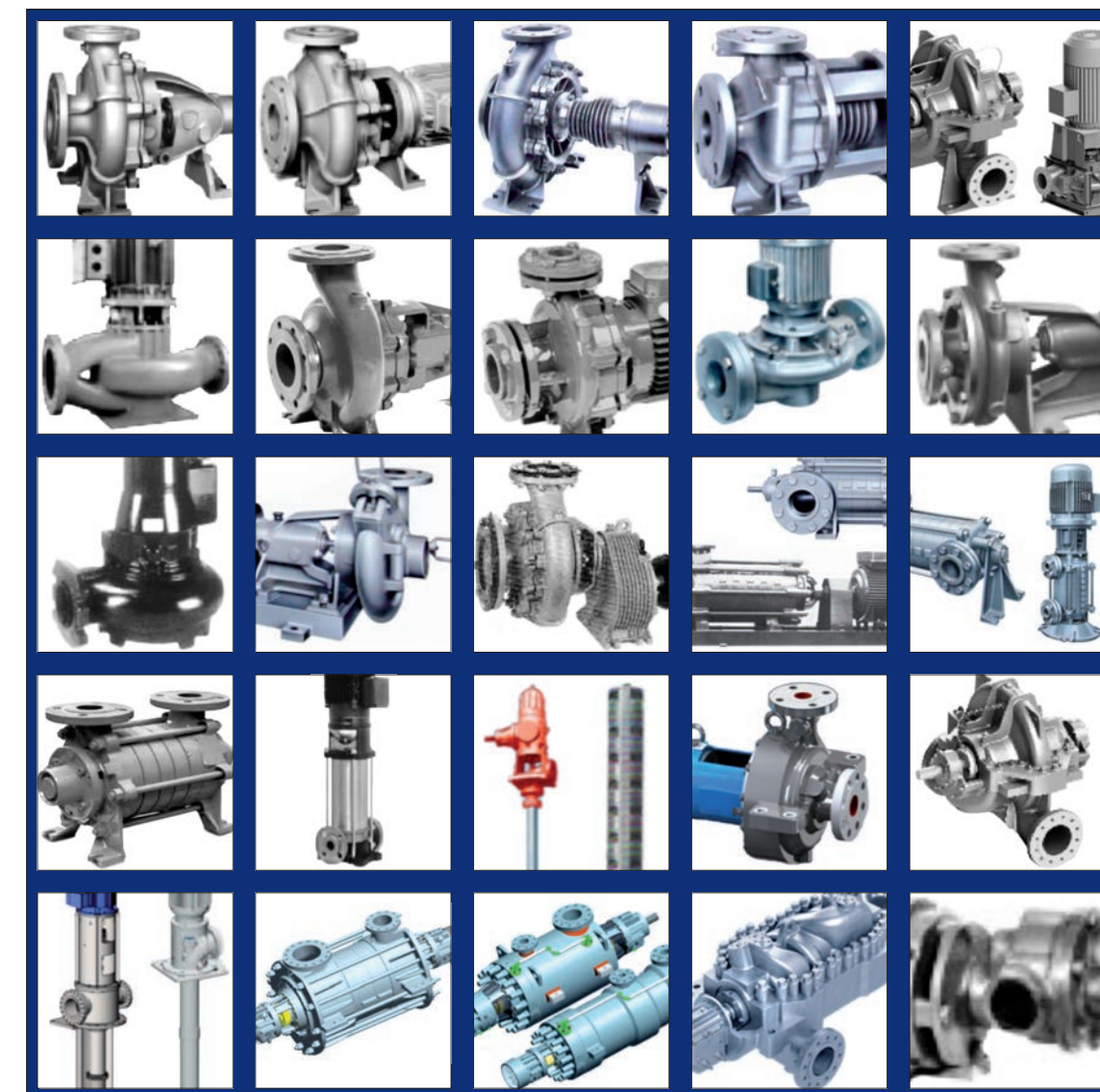
A collage of logos from various Italian companies, arranged in two rows. The top row includes ABB (Power and productivity for a better world™), AgustaWestland, BASF (The Chemical Company), Pauli, FIAT, Henkel, and Nestlé. The bottom row includes NEW HOLLAND AGRICULTURE, ALCATEL, ITALFARMACO, PIRELLI, ALSTOM, AnsaldoEnergy (Una Società Finmeccanica), Eni, Unilever, Alfa Romeo, MASEPATI, Ferrari, HOECHST, FINCANTIERI, and AkzoNobel (Tunicon's Answers Today).



Via della Giardina, 11 - Monza (MB)
Tel.: 02 8968 0866 - Fax: 02 8968 0867
www.biraghipompe1906.com

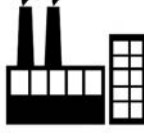
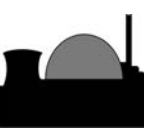


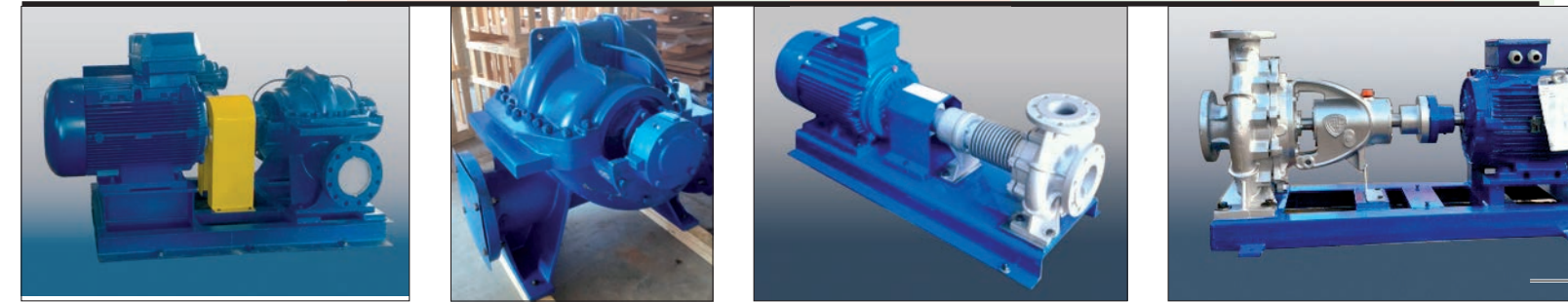
"FLUIDS MANAGEMENT & CONTROL SINCE 1906"



PRODUCTION RANGE

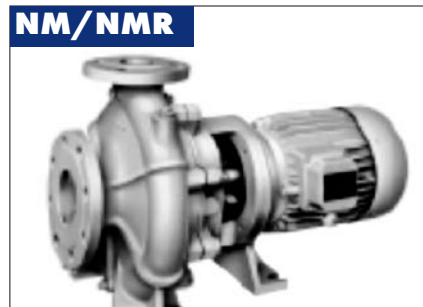


Product range Vs market segments	Industrial 	Power plant 	Offshore 	Oil & Gas 	Naval 	Other 
N / NV	•	•	•	•	•	
NM / NMR	•	•	•	•	•	
ON / ONM	•	•				
D / DV	•	•			•	
RDS	•	•			•	
EN / ENM						
R / RD					•	
K	•	•			•	
S	•	•				
V / VL / W	•				•	
T						
NP / KP	•	•				
L / LV	•	•				
LX						
US	•				•	
PN	•					
TEC	•					
OGH	•	•	•	•		
OGD	•	•	•	•		
OGV / OGV-B	•	•	•	•		
NPH	•	•	•	•		
NPH-B	•	•	•	•		
KPW	•	•	•	•		
G-GM	•					

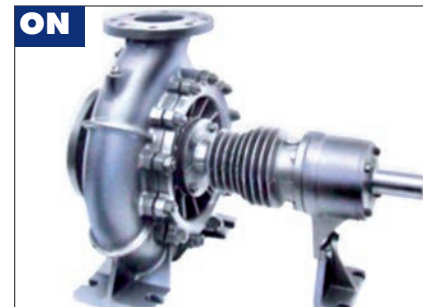




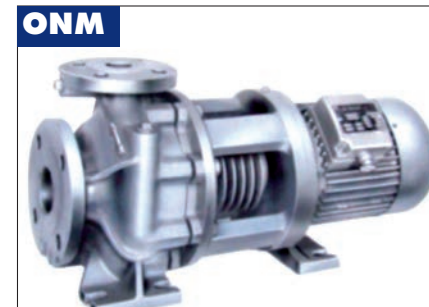
RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “N” WITH HORIZONTAL SHAFT, DESIGNED ACCORDING TO ISO 2858, SUITABLE FOR PRESSURE RISE, CHEMICAL INDUSTRY AND INDUSTRY IN GENERAL, POWER PLANT, MEDIUM PRESSURE ACQUEDUCTS, NAVAL PLANTS AND HEAVY AGRICULTURAL APPLICATIONS.



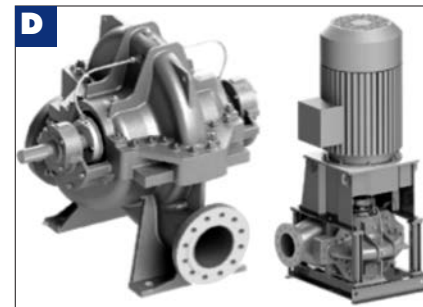
RADIAL SINGLE IMPELLER CENTRIFUGAL MONOBLOC PUMP “NM/NMR”, DESIGNED ACCORDING TO ISO 2858, SUITABLE FOR PRESSURE RISE, CHEMICAL INDUSTRY AND INDUSTRY IN GENERAL, POWER PLANT, NAVAL PLANTS AND ECOLOGICAL PLANTS.



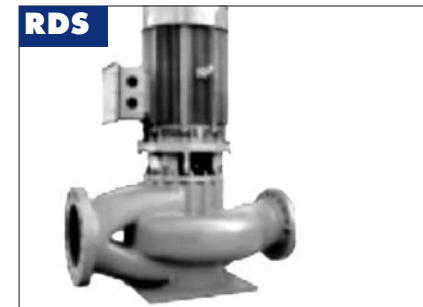
RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “ON” WITH HORIZONTAL SHAFT, DESIGNED ACCORDING TO ISO 2858, WITH MECHANICAL SEAL WITHOUT COOLING [NATURAL COOLING WITH SUPPORT EXCHANGER] FOR OLIOETHERMIC PLANTS AND SUPER-HEATED WATER.



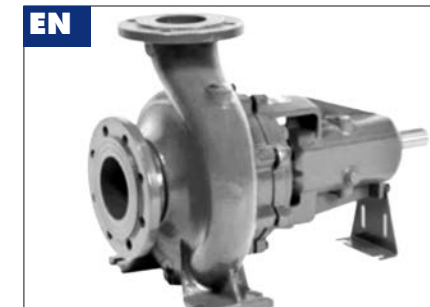
RADIAL SINGLE IMPELLER CENTRIFUGAL MONOBLOC PUMP “ONM”, DESIGNED ACCORDING TO ISO 2858, WITH MECHANICAL SEAL WITHOUT COOLING [NATURAL COOLING WITH SUPPORT EXCHANGER, FOR OLIOETHERMIC PLANTS AND SUPER-HEATED WATER.



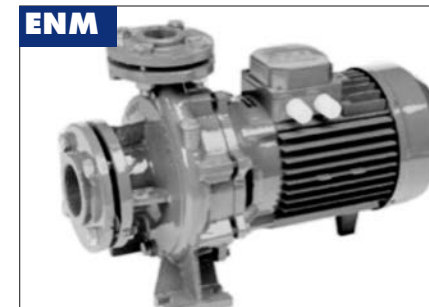
SINGLE IMPELLER DOUBLE SUCTION CENTRIFUGAL PUMP “D” WITH HORIZONTAL SHAFT, WITH PACKING OR MECHANICAL SEAL, FOR ACQUEDUCTS, HIGH FLOW INDUSTRIAL PLANT, POWER PLANTS, DAMS, NAVAL PLANTS AND FIRE-FIGHTING SYSTEMS ACCORDING TO NFPA20.



VERTICAL CENTRIFUGAL IN-LINE DOUBLE SUCTION PUMP MODEL “RDS”, WITH PACKING GLAND OR MECHANICAL SEAL FOR ACQUEDUCTS, INDUSTRIAL PLANT WITH HIGH FLOWS, POWER PLANT, DAMS, NAVAL PLANT AND SHIPYARD



RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “EN” WITH HORIZONTAL SHAFT, DESIGNED ACCORDING TO EN733, SUITABLE FOR PRESSURE RISE, CIVIL PLANT IN GENERAL AND FIRE-FIGHTING SYSTEMS ACCORDING TO UNI 12845.



RADIAL SINGLE IMPELLER CENTRIFUGAL MONOBLOC PUMP “ENM”, DESIGNED ACCORDING TO EN733, SUITABLE FOR PRESSURE RISE AND CIVIL PLANT IN GENERAL



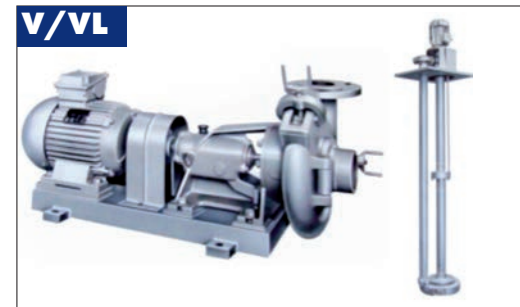
IN-LINE SINGLE IMPELLER SINGLE AND TWIN CENTRIFUGAL PUMP “R/RD”, INSTALLABLE HORIZONTALLY AND VERTICALLY, SUITABLE FOR PRESSURE RISE, CONDITIONAL AND HEATING PLANT AND NAVAL PLANTS.



RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “K” WITH HORIZONTAL SHAFT, SUITABLE FOR PRESSURE RISE, CIVIL PLANT IN GENERAL AND FIRE-FIGHTING SYSTEMS.

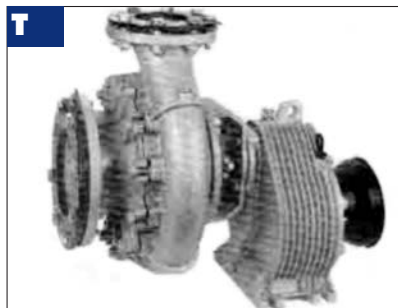


SUBMERSIBLE CENTRIFUGAL RADIAL PUMP SINGLE IMPELLER MODEL “S”, WITH DOUBLE MECHANICAL SEAL, FOR INDUSTRIAL AND DEPURATION PLANT. THE FOLLOWING IMPELLERS ARE AVAILABLE: RECESSED, SINGLE CHANNEL, VORTEX AND WITH GRINDER.

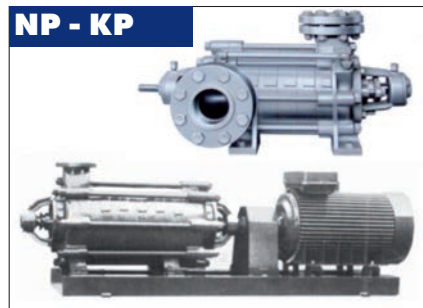


RADIAL SINGLE OPEN IMPELLER WITH HORIZONTAL OR VERTICAL SHAFT “V/VL” AND RADIAL CENTRIFUGAL SINGLE CHANNEL IMPELLER PUMP “W” WITH VERTICAL SHAFT, INSTALLABLE HORIZONTALLY AND VERTICALLY, SUITABLE FOR INDUSTRIAL, NAVAL AND DEPURATION PLANT.

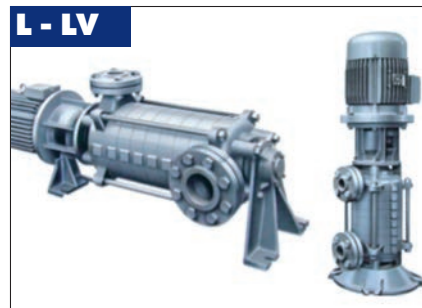
Flow:	up to 2200 mc/h	up to 350 mc/h	up to 2200 mc/h	up to 170 mc/h	up to 5000 mc/h	up to 4000 mc/h	up to 2200 mc/h	up to 350 mc/h	up to 450 mc/h	up to 850 mc/h	up to 3600 mc/h	up to 170 mc/h
Head:	up to 145 m	up to 145 m	up to 145 m	up to 145 m	up to 260 m	up to 90 m	up to 145 m	up to 145 m	up to 100 m	up to 95 m	up to 90 m	up to 50 m
Possibility of vertical construction:	NV, with support plate	NMV, with support plate			DV							
Exercise temperature:	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 350 °C for standard execution	up to 280 °C for standard execution	up to 120 °C for standard execution	up to °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution
Mechanical seal:	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single API PLAN O1	Single API PLAN O1	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single API PLAN O1	Single and double cartridge designed for API PLAN flushing systems	Double mechanical Seal	Single API PLAN O1
Rotation speed:	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 1800 rpm	up to 1800 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm
Immersion depth:	up to 4000 mm	-	-	-	-	-	-	-	-	-	-	up to 4000 m
Nozzles:	flanged UNI PN 16, DN 25÷300 mm Possibility of ANSI B 16.1	flanged UNI PN 16, DN 25÷150 mm Possibility of ANSI B 16.1	flanged UNI PN 16, DN 32÷300 mm Possibility of ANSI B 16.1	flanged UNI PN 16, DN 32÷300 mm Possibility of ANSI B 16.1	flanged UNI PN 10-16-25, DN 125÷350 mm. Possibility of ANSI B 16.1	flanged UNI PN 10-16-25, DN 125÷450 mm. Possibility of ANSI B 16.1	flanged UNI PN 16, DN 32 ÷ 300 mm	flanged UNI PN 16, DN 32÷150 mm	flanged UNI PN 10-16, DN 32÷150 mm Possibility of ANSI B 16.1	flanged UNI PN 16, DN 40÷125 mm	flanged UNI PN 10, DN 50÷300 mm	flanged UNI PN 10, DN 65÷100 mm Possibility of ANSI B 16.1
Materials:	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , uper-duplex , Hastelloy C	Nodular cast-iron standard EN-GJS-400 Possibility of castings in AISI 316	Nodular cast-iron standard EN-GJS-400 Possibility of castings in AISI 316	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, AISI 316	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, AISI 316	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, AISI 316	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C



HORIZONTAL CENTRIFUGAL SINGLE STAGE PUMP COUPLED TO A REDUCER FOR TRACTORS MODEL “T”



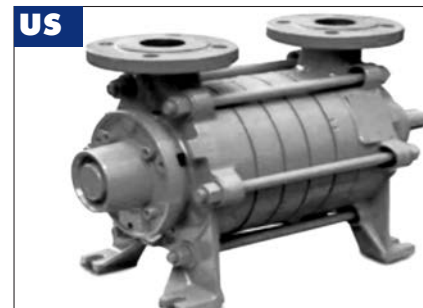
MULTISTAGE RADIAL CENTRIFUGAL PUMP “NP” AND “KP” WITH HORIZONTAL SHAFT SUITABLE FOR BOILER FEEDING, WASHING PLANTS, REVERSE OSMOSIS, SNOW-MAKING PLANTS, HYDRAULIC TESTS, ACQUEDUCTS AND HEAVY AGRICULTURAL APPLICATIONS.



MULTISTAGE RADIAL CENTRIFUGAL PUMP “L” WITH HORIZONTAL SHAFT OR VERTICAL SHAFT “LV” SUITABLE FOR BOILER FEEDING, PRESSURE RISE, JOCKEY PUMP FOR FIRE-FIGHTING SYSTEMS AND LITTLE ACQUEDUCTS.



MULTISTAGE RADIAL CENTRIFUGAL PUMP WITH VERTICAL SHAFT “LX” SUITABLE FOR BOILER FEEDING, PRESSURE RISE, JOCKEY PUMP FOR FIRE-FIGHTING SYSTEMS AND LITTLE ACQUEDUCTS.



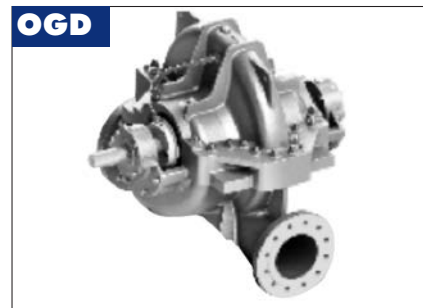
MULTISTAGE RADIAL CENTRIFUGAL PUMP WITH STELLAR IMPELLER “US” WITH HORIZONTAL SHAFT SUITABLE FOR EXTRACTING CONDENSATE FROM BOILERS, AUTOMATIC PLANTS WITH AUTOCLAVE AND INDUSTRIAL PLANTS IN WHICH, CAUSED BY AIR FILTRATION IN THE PIPE, IS NOT PERMITTED THE USE OF NORMAL CENTRIFUGAL PUMPS.



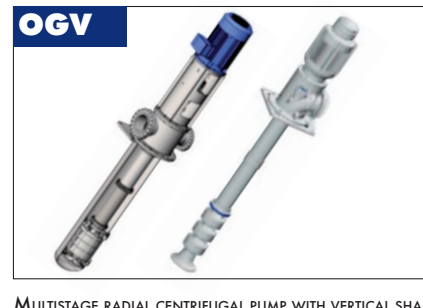
MULTISTAGE RADIAL CENTRIFUGAL PUMP WITH VERTICAL SHAFT SEMI-SUBMERSED “PN” AND SUBMERSED “TEC” SUITABLE FOR INDUSTRIAL AND CIVIL PLANTS, ACQUEDUCTS, SNOW-MAKING PLANT AND AGRICULTURE.



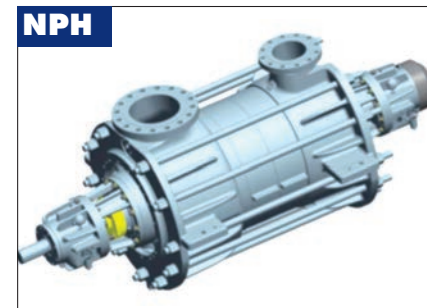
RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “OGH” WITH HORIZONTAL SHAFT, DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY OH2, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS, OFFSHORE AND SPECIAL FIRE-FIGHTING SYSTEMS.



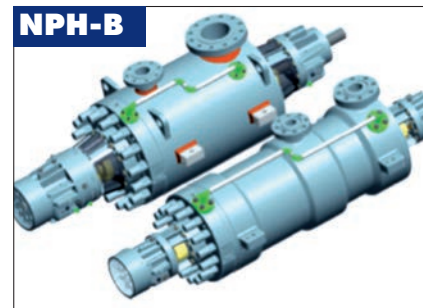
SINGLE IMPELLER DOUBLE SUCTION CENTRIFUGAL PUMP WITH HORIZONTAL SHAFT DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY BB1, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS, OFFSHORE AND SPECIAL FIRE-FIGHTING SYSTEMS NFPA20.



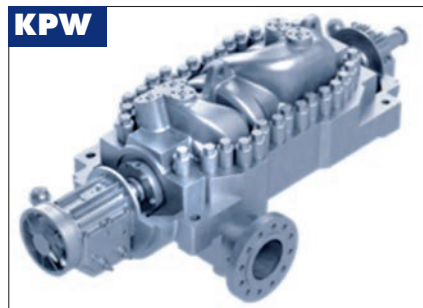
MULTISTAGE RADIAL CENTRIFUGAL PUMP WITH VERTICAL SHAFT SEMI-SUBMERSED “OGV” AND SEMI-SUBMERSED IN BARREL FOR LOW NPSH DISPONIBLE VALUES “OGV-B”, DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY VS1 AND VS6, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS AND OFFSHORE.



MULTISTAGE RADIAL CENTRIFUGAL PUMP “NPH” DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY BB4, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS AND OFFSHORE.



MULTISTAGE RADIAL CENTRIFUGAL PUMP “NPH-B” DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY BB5, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS AND OFFSHORE.



RADIAL SINGLE IMPELLER CENTRIFUGAL PUMP “KPW” WITH HORIZONTAL SHAFT, DESIGNED ACCORDING TO API 610 12th EDITION CATEGORY BB3, SUITABLE FOR HEAVY PROCESS INDUSTRY, Oil&Gas, POWER PLANTS, OFFSHORE AND SPECIAL FIRE-FIGHTING SYSTEMS.



DISPLACEMENT GEAR PUMP, MONOBLOC OR COUPLED, WITH HORIZONTAL SHAFT “G”, SUITABLE FOR CONVEY VISCOUS LIQUIDS, IN PARTICULAR DENSE FUEL OIL, GREASES, PAINTS LUBRICATING AND DIATHERMIC OILS, BITUMENS, SYRUPS AND OTHER FOODSTUFFS.

Flow:	up to 170 mc/h	up to 800 mc/h	up to 70 mc/h	up to 115 mc/h	up to 210 mc/h	up to 210 mc/h	up to 2000 mc/h	up to 6050 mc/h	up to 2500 mc/h	up to 800 mc/h	up to 800 mc/h	up to 1000 mc/h	up to 150 mc/h
Head:	up to 50 m	up to 1000 m	up to 250 m	up to 300 m	up to 320 m	up to 320 m	up to 280 m	up to 270 m	up to 250 m	up to 1000 m	up to 1000 m	up to 1000 m	up to 40 bar
Possibility of vertical construction:	-	-	-	-	-	Right angle gear drive unit, right angle and step-up gear drive unit, vertical pulley drive units and electric motor.	OGHV with support plate up to 7500 mm di profondità secondo cat, VS4						
Exercise temperature:	up to 120 °C for standard execution up to 140 °C with cooled packing gland	up to 120 °C for standard execution up to 190 °C with cooled packing gland	up to 120 °C for standard execution	up to 120 °C for standard execution	up to 120 °C for standard execution		up to 450 °C	up to 200 °C in esecuzione standard	up to 150 °C	up to 200 °C in esecuzione standard	up to 200 °C in esecuzione standard	up to 300 °C	up to 120 °C for standard execution up to 300 °C for special execution
Mechanical seal:	Single API PLAN O1 -	Single and double cartridge designed for API PLAN flushing systems	Single API PLAN O1	Single API PLAN O1	Single API PLAN O1	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single and double cartridge designed for API PLAN flushing systems	Single API PLAN O1
Rotation speed:	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 1800 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	up to 3550 rpm	1800 rpm related to the pumped liquid
Immersion depth:	up to 4000 mm	-	-	-	-	-	-	-	-	-	-	-	-
Nozzles:	flanged UNI PN 10, DN 65÷100 mm Possibility of ANSI B 16.1	flanged UNI PN 40-64-100, DIN 25÷200 mm Possibility of ANSI B 16.1	flanged UNI PN 40, DN 32÷65 mm Possibility of ANSI B 16.1	flanged UNI PN 16-40, DN 25-100 mm. Possibilità di flange ovali, attacco Victaulic e Clamp-FlexiClamp	flanged UNI PN 40, DN 32÷65 mm	flanged UNI PN 10, DN 85÷400 mm.	flanged #300 RF con foratura B 16.5, DN 40÷300 mm	flanged #300 RF con foratura B 16.5, DN 200÷600 mm	flanged #300 RF con foratura B 16.5, DN 25÷600 mm	flanged #300 RF con foratura B 16.5, #900 RF; DN 40÷300 mm.	flanged #300 RF con foratura B 16.5, DN 50÷300 mm	threaded 3/8" ÷ 2", flanged UNI PN10 DN 65÷125 mm	
Materials:	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	Standard AISI 304 Possibility of castings in AISI 316	Cast-iron EN-GJL-250 for standard. Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, AISI 316,	Cast-iron EN-GJL-250 for standard Possibility of castings in: nodular cast-iron EN-GJS-400, bronze G-CuSn10, Carbon steel , AISI 304, AISI 316, Duplex , Super-duplex , Hastelloy C	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	I1 – I2 – S1 – S3 – S4- S5 – S6 S8 – S9 – C5 – A7 – A8 – D1 – D2	Cast-iron EN-GJL-250 for standard. Possibility of castings in: Carbon steel , AISI 316