

# endurel



## ENDUREL DIRECT DRIVE CENTRIFUGAL PUMP



**TOPCO**

OILSITE  
PRODUCTS LTD.

# CENTRIFUGAL PUMP

<b>SPEED RANGE:</b>	<b>0-1475 RPM (WITH VFD)</b>
<b>VOLTAGE:</b>	<b>575AC/480/3 PHASE/60 Hz.</b>
<b>MOTOR DUTY:</b>	<b>INVERTER</b>
<b>INLET DIAMETER:</b>	<b>3" TO 8"</b>
<b>OUTLET DIAMETER:</b>	<b>2" TO 6"</b>
<b>IMPELLER DIAMETER:</b>	<b>11" TO 14"</b>
<b>COUPLING:</b>	<b>DIRECT</b>
<b>MOTOR RATED SPEED:</b>	<b>1200 RPM</b>
<b>SEALS:</b>	<b>MECHANICAL OR PACKING</b>

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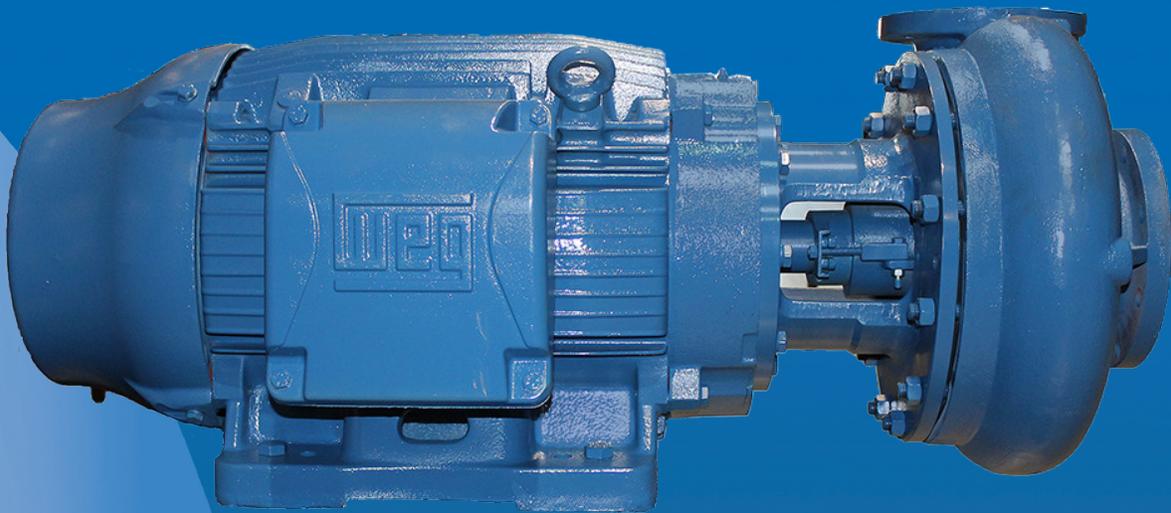
## THE DIRECT DRIVE CENTRIFUGAL PUMP BY ENDUREL

### FEATURES & BENEFITS

ENDUREL USES INVERTER DUTY MOTORS INSTEAD OF THE REGULAR NON INVERTER MOTORS.

THE UNITS ARE MANUFACTURED TO MEET CUSTOMER VOLTAGE REQUIREMENTS INCLUDING 480 / 575 VAC / 30 – 60 Hz. THE PUMPS MAY BE RUN ACROSS THE LINE OR USING A VFD.

MOTOR BEARINGS ARE DESIGNED TO HANDLE IMPELLER SIDE LOADS ASSOCIATED WITH BOTH VERTICAL AND HORIZONTAL MOUNTING POSITIONS. THE MOTOR SHAFT HAS BEEN EXTENDED AND A C FLANGE MOTOR END PLATE ADDED TO COMPENSATE FOR THE INCREASED SHAFT LENGTH. THIS FACILITATES THE INSTALLATION OF THE PUMP AND IMPELLER DIRECTLY ON THE END OF THE MOTOR SHAFT.



THE MOTOR HAS LIFTING EYES ON THE END OF THE SHAFT AS WELL AS TWO (2) EXTRA EYE BOLTS ON THE SIDE TO ENABLE LIFTING IN EITHER A VERTICAL OR HORIZONTAL POSITION. THE MOTOR IS WOUND FOR 1200 RPM AND THIS PROVIDES MORE TORQUE FOR A GIVEN HP.

EXAMPLE: 1200 RPM 50 HP HAS AS MUCH TORQUE AS A 1750 RPM 60 HP

EXAMPLE: 1200 RPM 60 HP HAS AS MUCH TORQUE AS A 1750 RPM 75 HP

EXAMPLE: 1200 RPM 75 HP HAS AS MUCH TORQUE AS A 1750 RPM 100HP

ON BELT DRIVEN UNITS THERE IS NO SIDE LOAD FROM THE BELTS AND PULLEYS ON THE PUMP BEARING.

THERE IS NO NEED TO GEAR DOWN WITH BELTS AND PULLEYS AS THE MOTOR IS SET TO RUN AT 1200 RPM OR AT 0 – 1475 RPM WITH THE USE OF A VFD.

LESS MAINTENANCE AND EASY ACCESSIBILITY TO PACKING UNIT

THE COMPLETE UNIT HAS A SMALLER FOOTPRINT WHEN MOUNTED IN A VERTICAL POSITION.

## **COST EFFECTIVE & SAFE**

- DOES NOT REQUIRE ANY GUARDS
- DOES NOT REQUIRE ANY HUB'S FOR THE PULLEY'S
- DOES NOT REQUIRE BELT'S OR PULLEY'S
- NO BEARING ASSEMBLY ON THE PUMP ITSELF
- NO SWIVEL PLATE ON THE MOTOR MOUNT THUS NO TURNBUCKLES TO ADJUST THE BELTS IN BETWEEN THE PUMP AND MOTOR
- NO BELT OR PULLEY ALIGNMENT NEEDED
- WHEN USING A VFD MOTOR CAN BE RAN SLOWER TO INCREASE SEAL LIFE
- CAN USE A LARGER PUMP AND RUN IT SLOWER BECAUSE OF EXTRA TORQUE TO MAKE PUMP SEALS LAST LONGER.
- SUBSTANTIAL FUEL SAVINGS DUE TO REDUCED MOTOR SIZE ON THE PUMP
- REDUCED NOISE LEVEL ON BOTH THE MOTOR AND PUMP
- EXPLOSION PROOF DESIGN

THE MECHANICAL SEAL PACKING AREA HAS AN ADDITIONAL 2" OF LENGTH CREATING MORE ROOM FOR WORKING ON THE MECHANICAL SEAL OR PACKING IF REQUIRED.

THE DIRECT DRIVE MOTOR IS THE SAME MOTOR, SHAFT, AND BELL HOUSING THAT IS ADAPTED TO THE FOLLOWING PUMPS:

- 5 X 6 X 11 IMPELLER
- 5 X 6 X 14 IMPELLER
- 6 X 8 X 11 IMPELLER
- 6 X 8 X 14 IMPELLER

TOPCO UTILIZES THE SAME PARTS FOR BOTH THE 5 X 6 PUMP AND THE 6 X 8 PUMPS AND THIS INCLUDES THE SAME MOTOR THAT ALLOWS FOR ANY HP CONFIGURATION.

25 HP - 30HP - 40HP - 50HP - 60HP - 75HP - 100HP OR BIGGER IF NEEDED

ALL SERIES 250 CENTRIFUGAL PUMPS HAVE THE SAME WEAR PLATES, STUFFING BOXES, IMPELLER LOCKING BOLTS, AND MECHANICAL AND PACKED SEALS.

THE ENDUREL DIRECT DRIVE PUMP USES THE SAME IMPELLER SIZES AND GASKETS (11" AND 14") ON THE 5 X 6 AND THE 6 X 8 PUMPS.

TOPCO ALSO USES THE SAME FLUTE FROM ONE PUMP SIZE 5 X 6 TO THE OTHER 6 X 8. THE ONLY DIFFERENCE IS THE INLET AND OUTLET SIZING OF THE PUMPS.



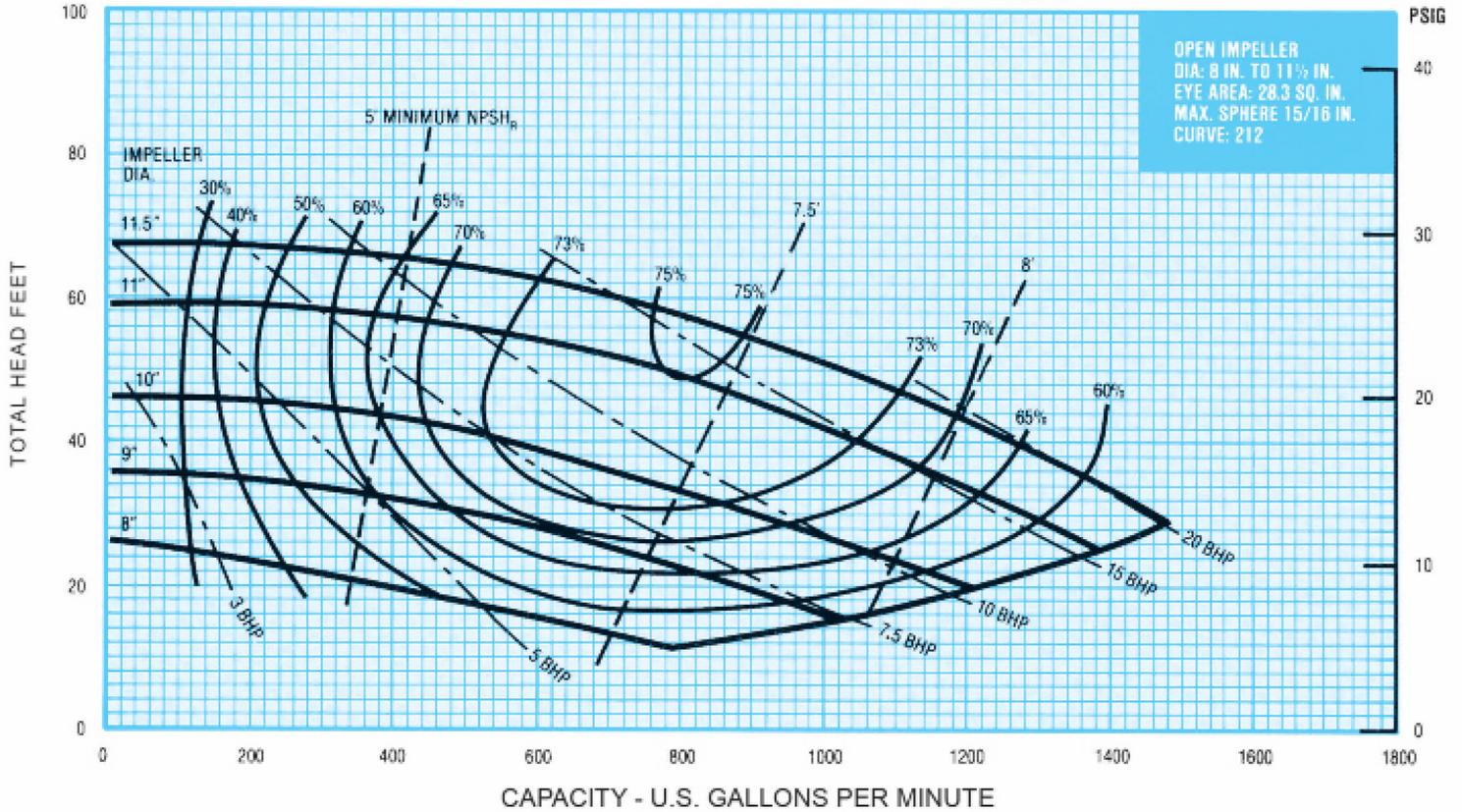
TOPCO HAS TRAINED TECHNICAL STAFF PREPARED TO ANSWER CUSTOMER QUESTIONS ABOUT THE ENDUREL DIRECT DRIVE CENTRIFUGAL PUMPS.

PLEASE DO NOT HESITATE TO CONTACT US OR GO ONLINE AT [WWW.TOPCOOILSITE.COM](http://WWW.TOPCOOILSITE.COM).

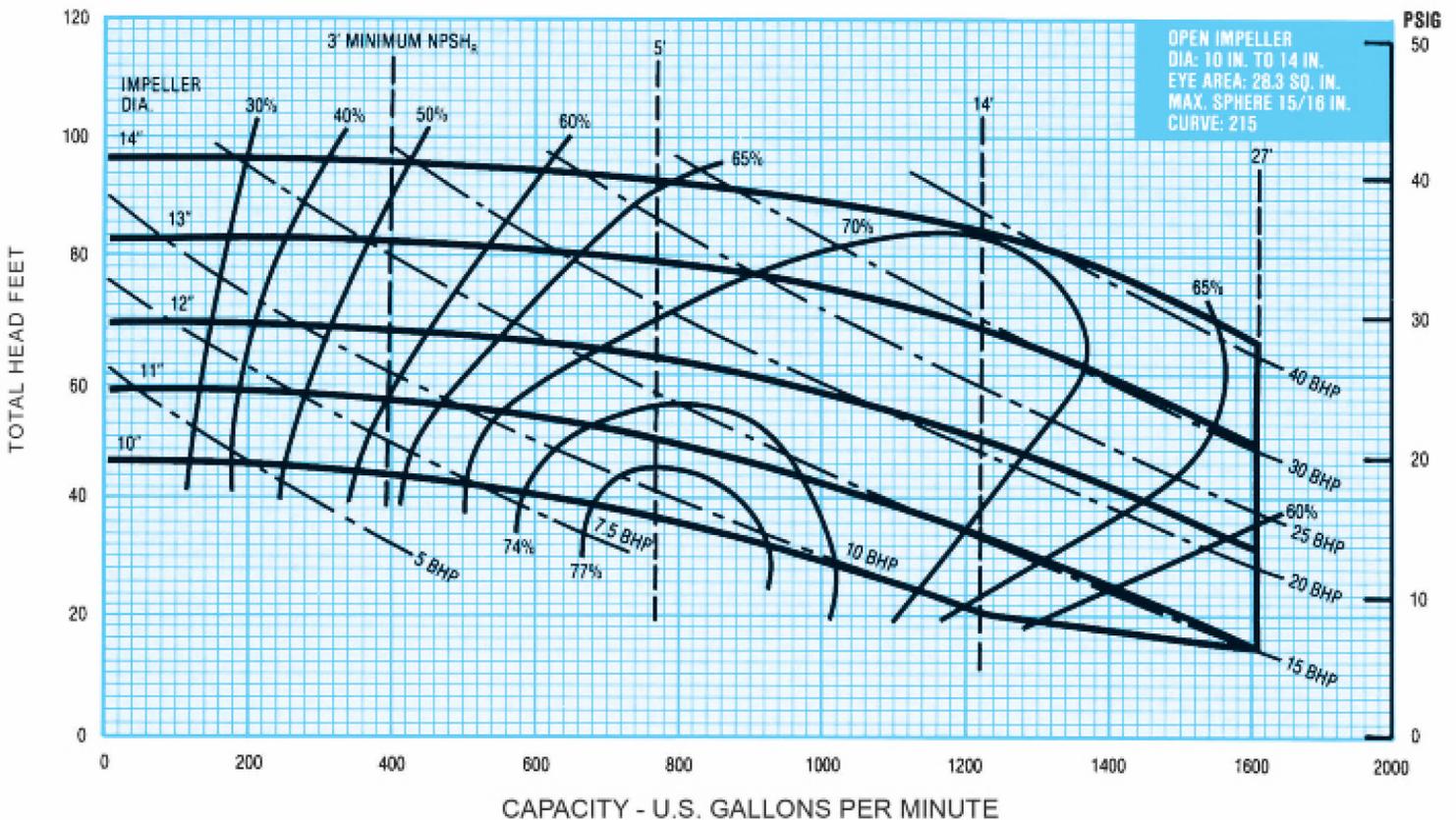
ANOTHER INNOVATIVE ENDUREL PRODUCT FROM TOPCO OILSITE.  
ENDUREL BUILDS GREAT PRODUCTS WITH GREAT PEOPLE  
(WHO CARE ABOUT OUR CUSTOMERS.)

# 250 SERIES PUMP CURVE CHARTS

## 5 x 6 x 11 1150 RPM

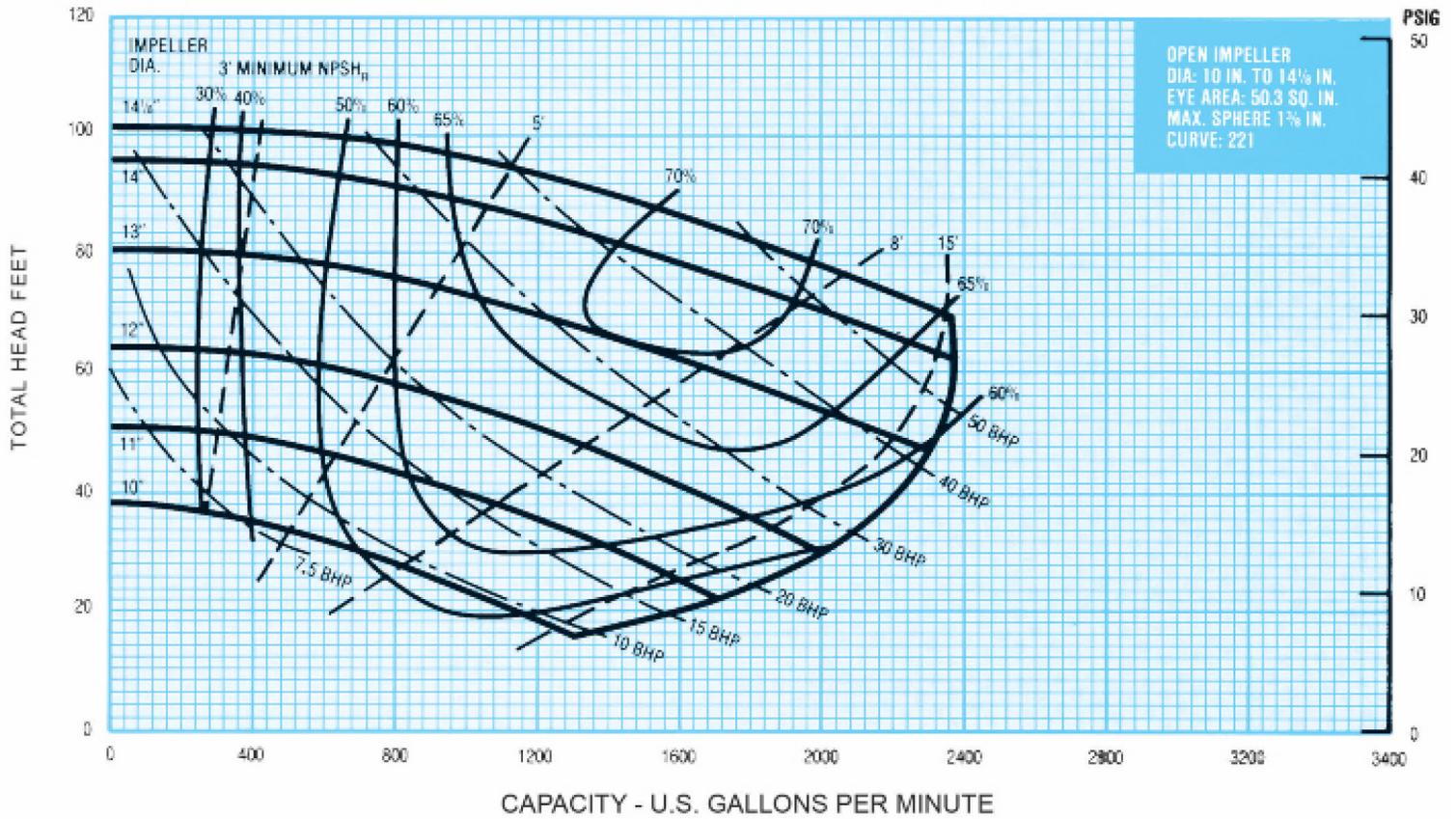


## 5 x 6 x 14 1150 RPM

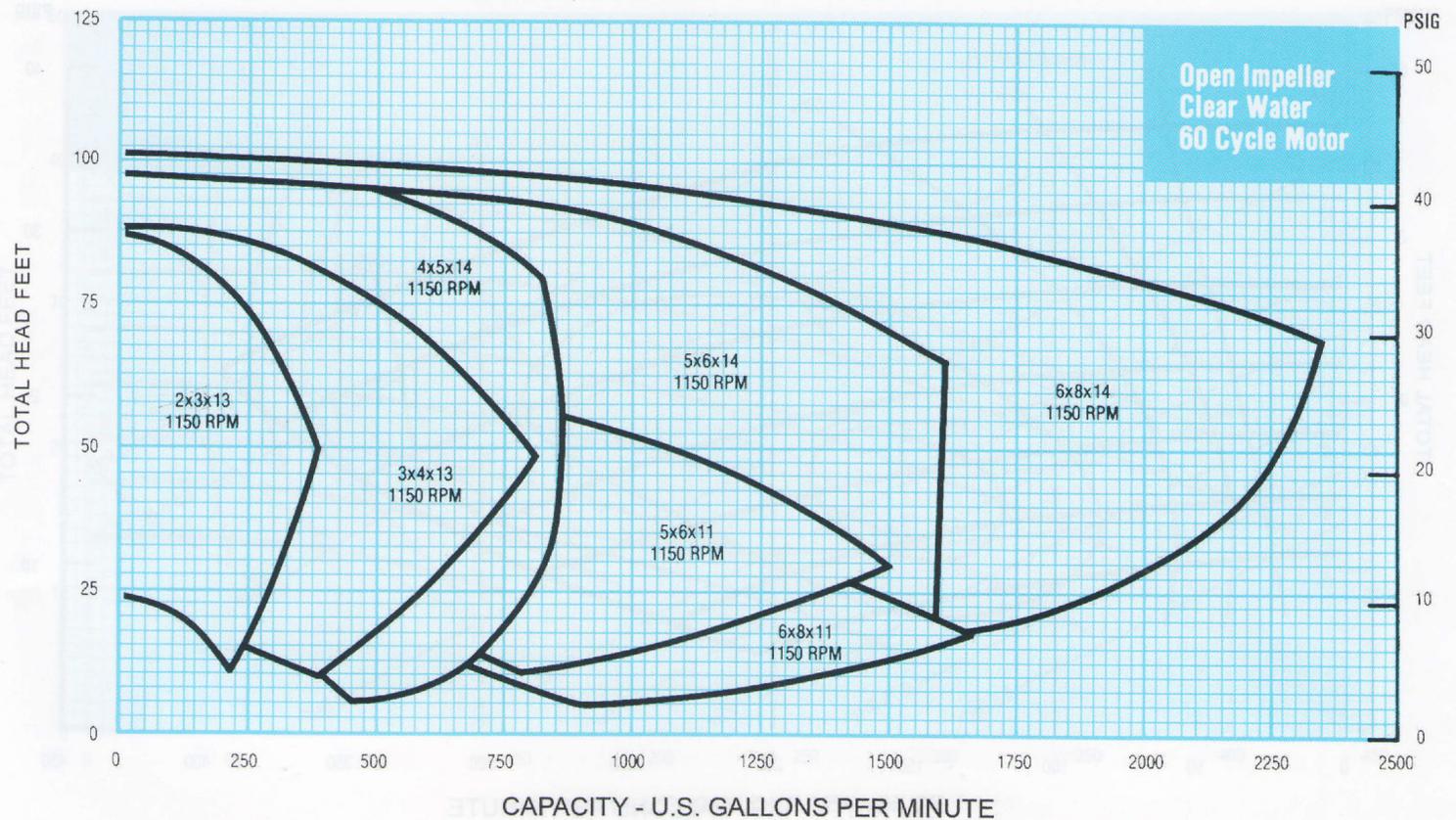


# 250 SERIES PUMP CURVE CHARTS

## 6 x 8 x 14 1150 RPM



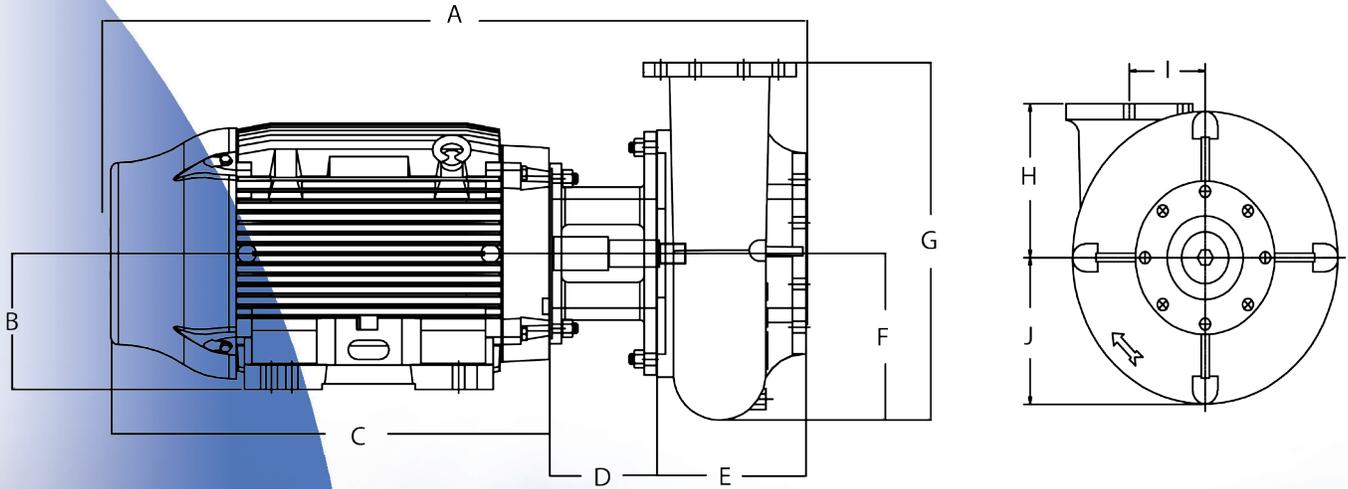
## COMPOSITE CURVE 1150 RPM



# DIMMENSIONS AND SPECS

LEFT SIDE VIEW

END VIEW



Model	A	B	C	D	E	F	G	H	I	J
50hp - 5x6x11	51.25	9.00	31.93	7.00	12.06	9.00	20.00	11.00	6.00	9.00
60hp - 5x6x14	51.75	10.00	32.48	7.00	12.06	9.00	20.00	11.00	6.00	9.00
75hp - 6x8x14	51.75	10.00	32.48	7.00	13.25	12.25	23.00	14.00	8.38	12.25

## ENDUREL SERVICE CENTRES

EDMONTON  
DISTRIBUTION CENTRE

9519 28 AVE  
EDMONTON, AB  
T6N 0A3  
P: 780-436-3400

CLAIRMONT WSP  
CENTRE

9021 - 99 ST.  
CLAIRMONT, AB  
T0H 0W0  
P: 780-567-2398

RED DEER SERVICE  
CENTRE

7920 EDGAR  
INDUSTRIAL WAY  
RED DEER, AB  
T4P 3R2  
P: 403-341-4417

REDCLIFF SERVICE  
CENTRE

114 ELBOW DRIVE NE  
REDCLIFF, AB  
T0J 2P0  
P: 436-526-3321