

Submersible Grinder XP

Specifications:

DISCHARGE:

XGV Vertical 2" NPT
XGVH Flange..... 2"/2.50"/3", Horizontal
XGVHH Flange 2.50"/3", Horizontal

LIQUID TEMPERATURE 104°F (40°C) Continuous

VOLUTE Cast Iron ASTM A-48, Class 30

MOTOR HOUSING Cast Iron ASTM A-48, Class 30

SEAL PLATE Cast Iron ASTM A-48, Class 30

IMPELLER: Design..... 12 Vane,Vortex, With Pump Out Vanes
On Back Side. Dynamically Balanced,
ISO G6.3

Material Cast Iron ASTM A-48, Class 30

SHREDDING RING Hardened 440C Stainless Steel,
Rockwell® C-55

CUTTER Hardened 440C Stainless Steel,
Rockwell® C-55

SHAFT 416 Stainless Steel

SQUARE RINGS Buna-N

HARDWARE 300 Series Stainless Steel

PAINT Axalta™ Corlar® Epoxy, Two Coats

SEAL: Design Tandem Mechanical, Oil Filled Reservoir
Material Rotating Faces - Carbon
Stationary Faces - Ceramic

Elastomer - Buna-N

Hardware -300 Series Stainless

CORD ENTRY Custom Molded, Quick Connected
for Sealing and Strain Relief

POWER CORD CSA Certified Submersible Power
Cable 2000V - Ordered Separately

UPPER BEARING:

Design Single Row, Ball, Oil Lubrication

Load Radial

LOWER BEARING:

Design Double Row, Ball, Oil Lubrication

Load Radial & Thrust

MOTOR: Design NEMA B

Three Phase Torque Curve
Oil-Filled, Squirrel Cage Induction,
Inverter Duty rated per NEMA MG1

Insulation..... Class H Varnish & Magnet Wire

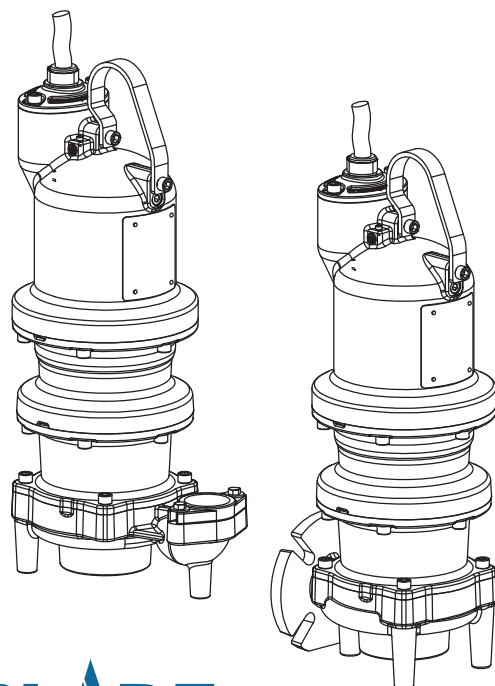
SINGLE PHASE..... Requires overload protection to be
included in control panel. Requires start
components to be included in panel.
Provided with pump

THREE PHASE..... Requires overload protection to be
included in control panel

MOISTURE SENSORS..... Normally Open (N/O), Requires relay
in control panel

TEMPERATURE SENSOR Normally Closed (N/C)
To be wired in series with control circuit

OPTIONAL EQUIPMENT..... Seal Material, Impeller Trims,
Cord Length, Leg Kit, 3" Spool Kit



BLADE

Series: XGV
3, 5 , 7.5 & 10HP,
3450RPM, 60Hz

Explosion Proof, Class 1,
Division 1, Groups C & D, T4

Sample Specifications: Section 3 Page 15.

DESCRIPTION:

THE GRINDER PUMP IS FOR USE IN **HAZARDOUS** LOCATIONS AND IS DESIGNED TO REDUCE DOMESTIC, COMMERCIAL, INSTITUTIONAL AND LIGHT INDUSTRIAL SEWAGE TO A FINELY GROUND SLURRY.



WARNING:

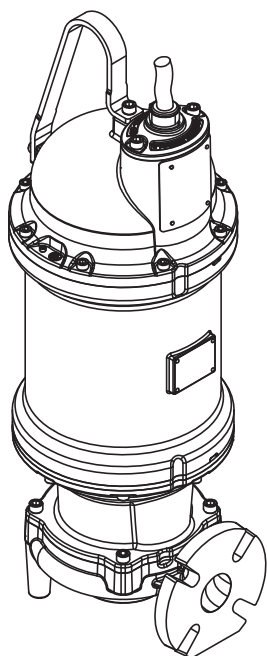
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV



LR16567



Submersible Grinder XP



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15HP,
3450RPM, 60Hz

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Sample Specifications: Section 3 Page 15.

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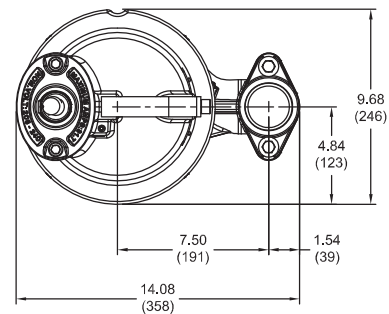
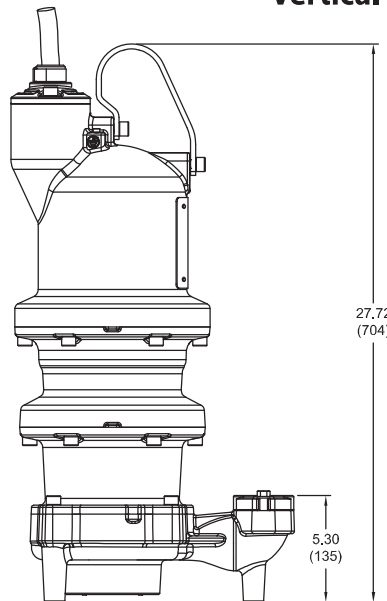
To be wired in series with control circuit

OPTIONAL EQUIPMENT Seal Material, Impeller Trims,
Cord Length, Leg Kit



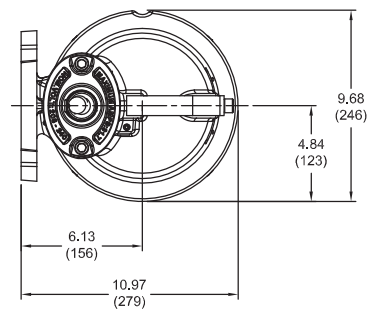
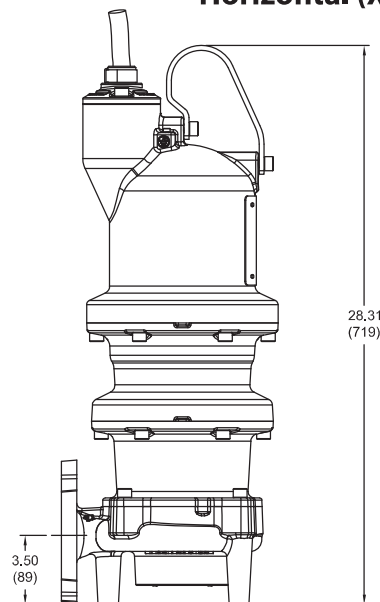
Submersible Grinder XP

Vertical (XGV - 18 Frame)

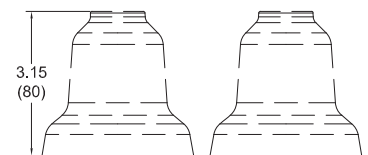


inches
(mm)

Horizontal (XGVH - 18 Frame)



Optional Leg Kit - p/n 125506

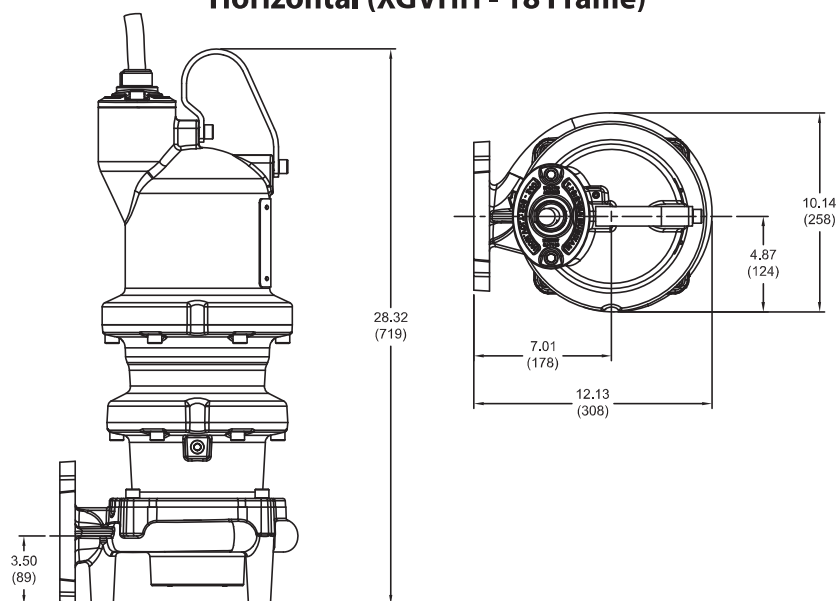


IMPORTANT !

- 1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
- 2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
- 3.) THESE PUMPS ARE CSA AND LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS.** NOT SUITABLE FOR ENVIRONMENTS CONTAINING GASOLINE OR HEXANE.
- 4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.
- 5.) A **NON-SPARKING** BREAKAWAY FITTING MUST BE USED TO VALIDATE THE EXPLOSION PROOF LISTING.

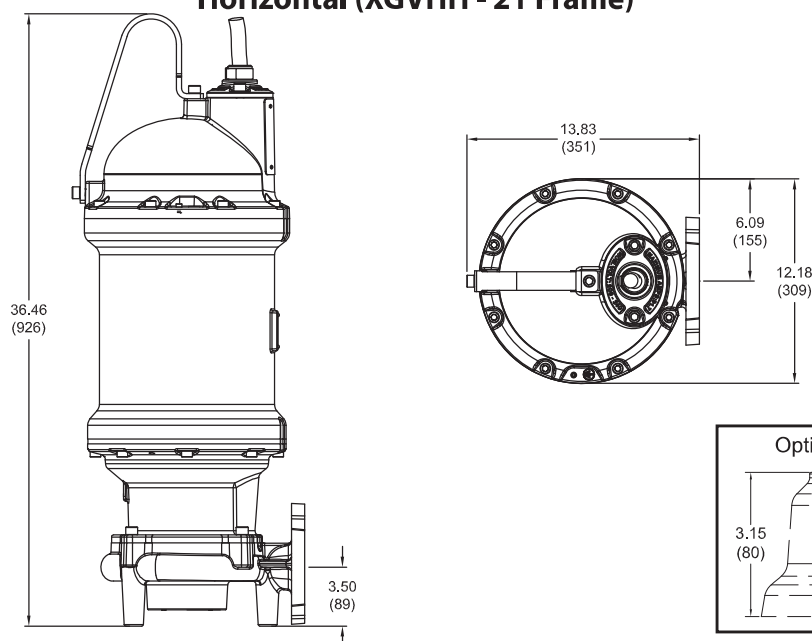
Submersible Grinder XP

Horizontal (XGVHH - 18 Frame)



inches
(mm)

Horizontal (XGVHH - 21 Frame)



Optional Leg Kit - p/n 125506



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BLADE XGV Pump - Vertical														
MODEL NO	PART NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.
XGV3072	141339	3.0	208	1	60	3450	J	25.0	1.0	113.2	18	125496	12/4 - 18/4	.86 ± .02
			230				M	23.2		131.2				
XGV30N2	141340	3.0	208	3	60	3450	P	12.1	1.0	85.4	18	125496	12/4 - 18/4	.86 ± .02
			230					12.6		95.2				
			460					6.3		47.6				
XGV3052	141342	3.0	575	3	60	3450	P	5.0	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
XGV5072	141343	5.0	208	1	60	3450	E	34.1	1.0	113.2	18	125498	8/4 - 18/4	1.12 ± .02
			230				G	29.9		131.2				
XGV50N2	141344	5.0	208	3	60	3450	J	17.8	1.0	85.4	18	125496	12/4 - 18/4	.86 ± .02
			230					16.0		95.2				
			460					8.0		47.6				
XGV5052	141346	5.0	575	3	60	3450	J	6.4	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
XGV75N2	141347	7.5	208	3	60	3450	M	28.0	1.0	173.9	18	125496	12/4 - 18/4	.86 ± .02
			230					28.2		201.0				
			460					14.1		100.5				
XGV7552	141349	7.5	575	3	60	3450	M	11.3	1.0	80.4	18	125497	12/4 - 18/4	.86 ± .02

Submersible Grinder XP

BLADE XGVH Pump - Horizontal														
MODEL NO	PART NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.
XGVH3072	141350	3.0	208	1	60	3450	J	25.0	1.0	113.2	18	125496	12/4 - 18/4	.86 ± .02
			230				M	23.2		131.2				
XGVH30N2	141351	3.0	208	3	60	3450	P	12.1	1.0	85.4	18	125496	12/4 - 18/4	.86 ± .02
			230					12.6		95.2				
			460					6.3		47.6				
XGVH3052	141353	3.0	575	3	60	3450	P	5.0	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
XGVH5072	141354	5.0	208	1	60	3450	E	34.1	1.0	113.2	18	125498	8/4 - 18/4	1.12 ± .02
			230				G	29.9		131.2				
XGVH50N2	141355	5.0	208	3	60	3450	J	17.8	1.0	85.4	18	125496	12/4 - 18/4	.86 ± .02
			230					16.0		95.2				
			460					8.0		47.6				
XGVH5052	141357	5.0	575	3	60	3450	J	6.4	1.0	38.1	18	125497	12/4 - 18/4	.86 ± .02
XGVH75N2	141358	7.5	208	3	60	3450	M	28.0	1.0	173.9	18	125496	12/4 - 18/4	.86 ± .02
			230					28.2		201.0				
			460					14.1		100.5				
XGVH7552	141360	7.5	575	3	60	3450	M	11.3	1.0	80.4	18	125497	12/4 - 18/4	.86 ± .02

Submersible Grinder XP

BLADE XGVHH Pump - Horizontal														
MODEL NO	PART NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE	CORD O.D.
XGVHH75N2	143385	7.5	208	3	60	3450	M	28.0	1.0	173.9	18	125496	12/4 - 18/4	.86 ± .02
			28.2					201.0						
			14.1					100.5						
XGVHH7552	143386	7.5	575	3	60	3450	M	11.3	1.0	80.4	18	125497	12/4 - 18/4	.86 ± .02
XGVHH100N2	143387	10.0	208	3	60	3450	K	37.0	1.0	173.9	18	125498	8/4 - 18/4	1.12 ± .02
			34.8					201.0						
			17.4					100.5						
XGVHH10052	143388	10.0	575	3	60	3450	K	13.9	1.0	80.4	18	125497	12/4 - 18/4	.86 ± .02
XGVHH150N2	141375	15.0	208	3	60	3450	E	59.0	1.0	195.7	21	125498	8/4 - 18/4	1.12 ± .02
			57.1					88.5						
			28.5					70.8						
XGVHH15052	141377	15.0	575	3	60	3450	E	22.8	1.0	70.8	21	125497	12/4 - 18/4	.86 ± .02

NOTE: A 3" Pipe Spool Kit is recommended for use of a XGVHH with a 3x3 BAF.

IMPORTANT !

Moisture and Temperature sensor leads are integral to power cord.

Pump rated for operation at $\pm 10\%$ voltage at motor.

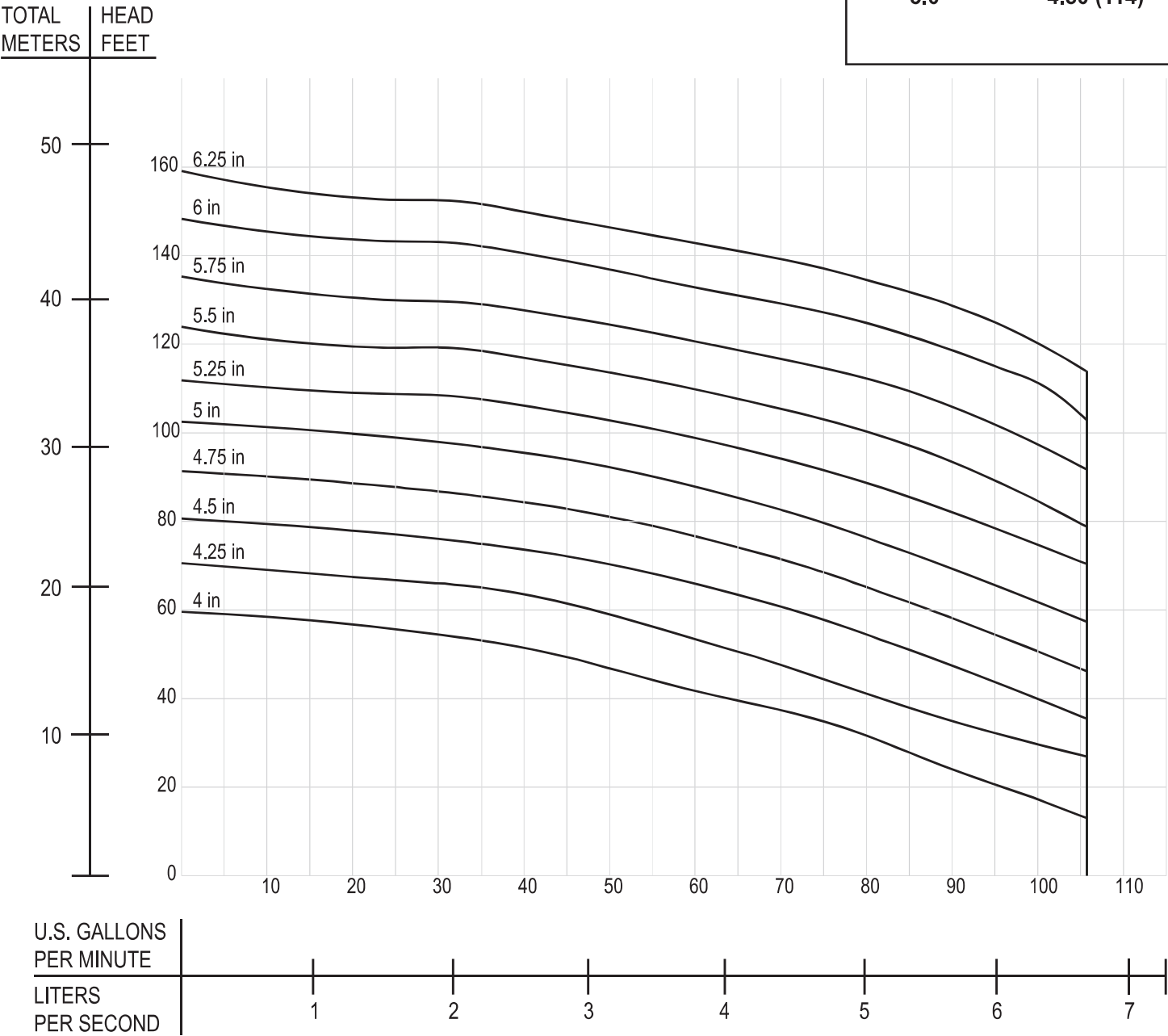
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.

▲ Cord sold separately.

Submersible Grinder XP

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. in. (mm)
7.5	6.25 (159)
5.0	5.25 (133)
3.0	4.50 (114)

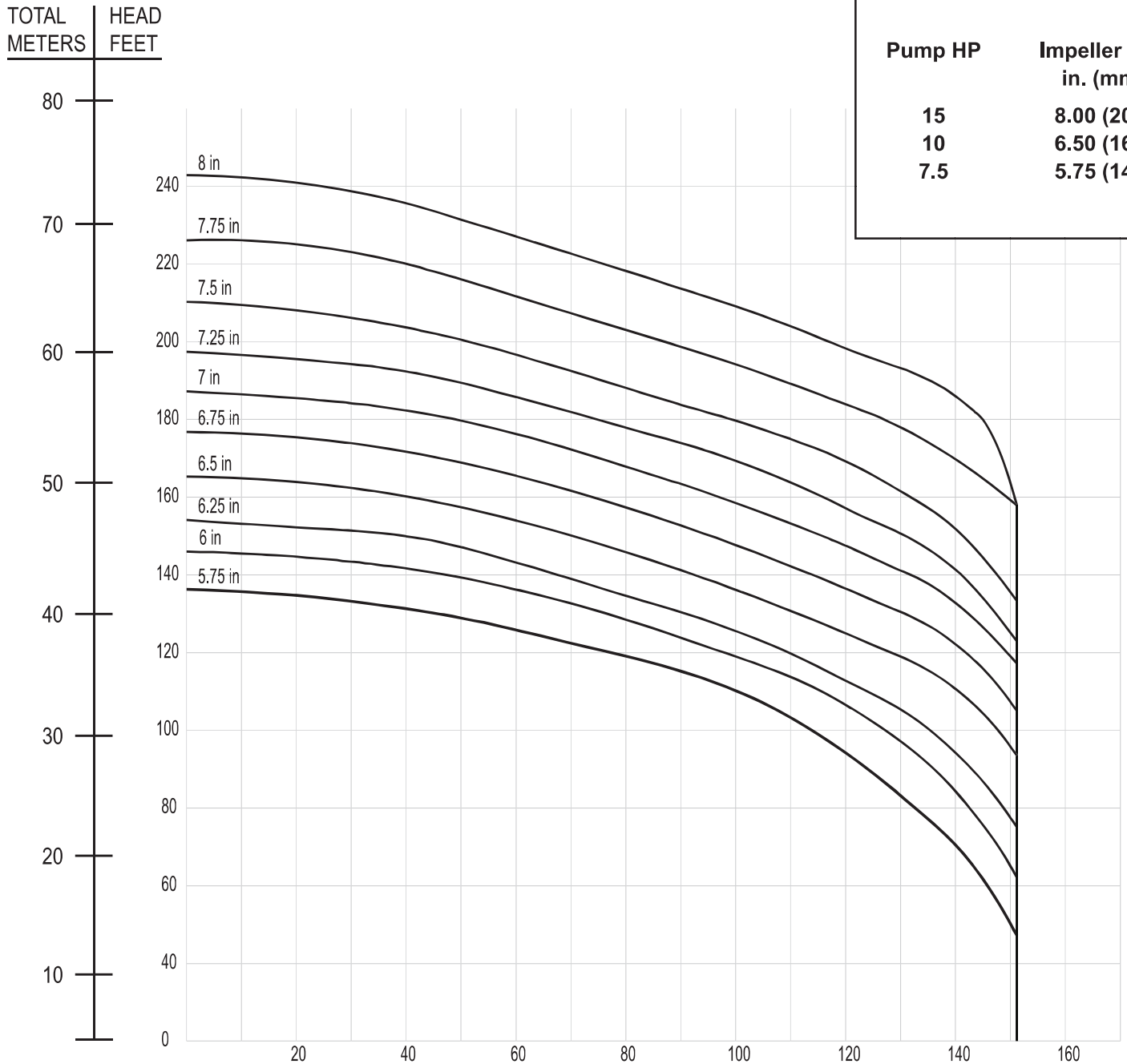


Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

Submersible Grinder XP

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. in. (mm)
15	8.00 (203)
10	6.50 (165)
7.5	5.75 (146)



U.S. GALLONS
PER MINUTE

LITERS
PER SECOND

Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance