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SECTION: Z2.10.100  
ZM1750  
0524  
Supersedes  
0823

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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



## 61 HD SERIES TECHNICAL DATA 1-7.5 BHP / 1750 RPM



MODEL NUMBER:	<input type="checkbox"/> 6120	<input type="checkbox"/> 6121	<input type="checkbox"/> 6122	<input type="checkbox"/> 6123	<input type="checkbox"/> 6124	<input type="checkbox"/> 6125
PUMP NAME PLATE HORSEPOWER: BHP	1.0	1.5	2.0	3.0	5.0	7.5
SERVICE FACTOR:	1.2	1.2	1.2	1.2	1.2	1.0
NEC LOCKED ROTOR CODE:	M	J	K	F	E	C
MAXIMUM KW INPUT:	1.4	1.9	2.4	3.5	5.5	6.9
3 PHASE IMPELLER DIA.: in (mm) STANDARD	4-7/8" (124 mm)	5-3/8" (137 mm)	5-3/4" (146 mm)	6-3/8" (162 mm)	7" (178 mm)	7-1/2" (191 mm)
DISCHARGE SIZE:	<input type="checkbox"/> 3" NPT Vertical <input type="checkbox"/> 3" Horizontal Flange <input type="checkbox"/> 4" Horizontal Flange					

SOLID SIZE: in (mm)	2 -1/2"(64 mm) OPTIONAL <input type="checkbox"/> 3"(76 mm)	TANDEM SEALS:	Standard
IMPELLER TYPE:	DUCTILE IRON SEMI-OPEN OPTIONAL <input type="checkbox"/> DUCTILE IRON VORTEX	MOTOR DESIGN LETTER:	NEMA B
FLANGE:	ANSI B16.1	POWER CORD LENGTH: FT (M)	25' (7.6 m) <input type="checkbox"/>
PUMP NET WEIGHT: lbs. (kg)	245 lbs. (111kg)	POWER CORD:	#12-4 SOOW*
MOTOR SHAFT	416 SS	STATOR & LEAD WIRES INSULATION:	Class F
RPM:	1750	MAXIMUM STATOR TEMPERATURE:	311 °F (155 °C)
MOTOR TYPE:	STANDARD SUBMERSIBLE	**DRY PIT (1-3 BHP, INTERMITTENT DUTY)	<input type="checkbox"/>
	<input type="checkbox"/> **** INVERTER DUTY SUBMERSIBLE (1-5 BHP, 230/460 VOLT, 3 PHASE ONLY)	**HIGH TEMP (1-3 BHP ONLY)	<input type="checkbox"/> (175 °F Max.)

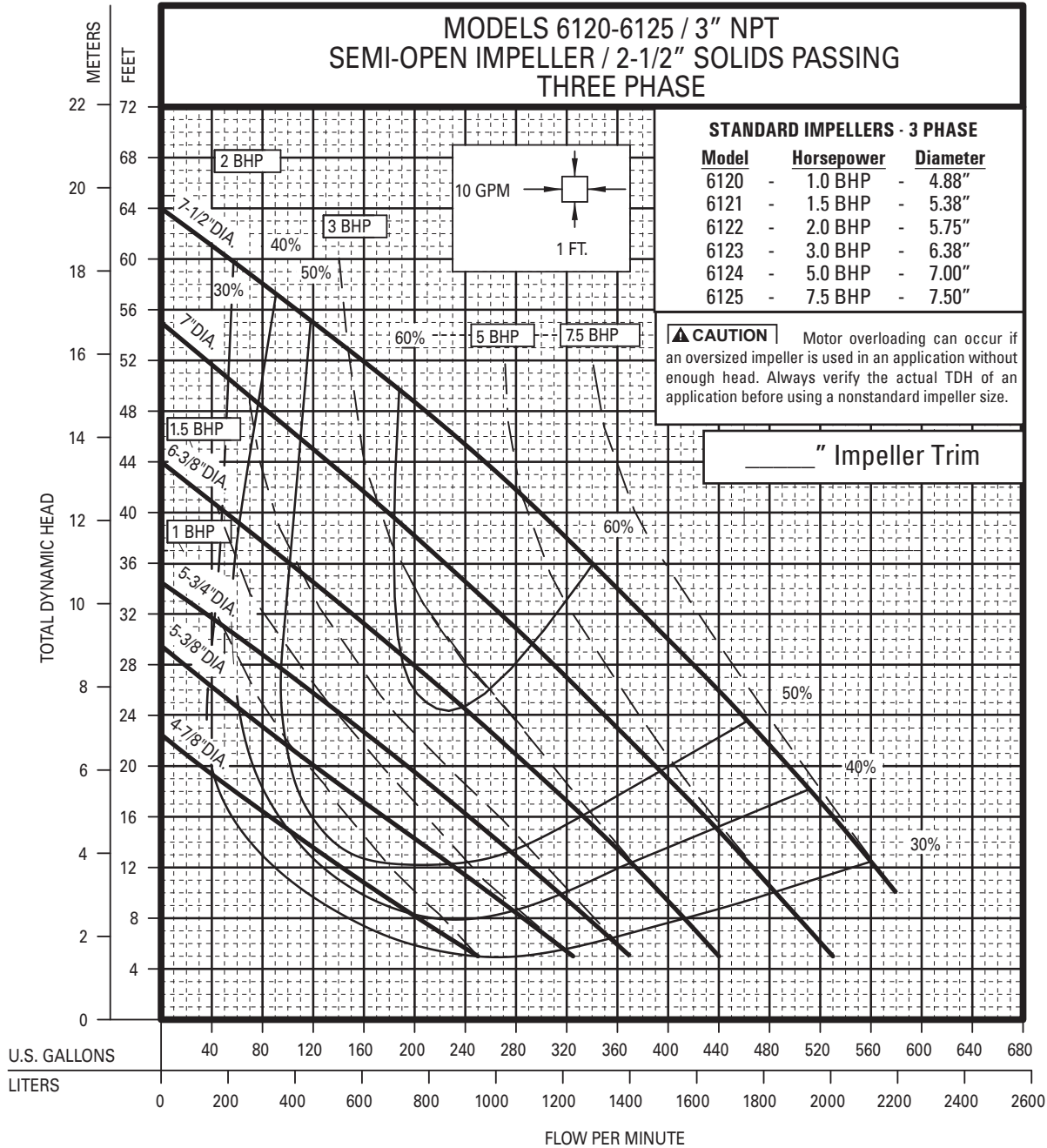
SHAFT SEAL CONSTRUCTION:	STANDARD	UPPER - CARBON CERAMIC LOWER - SILICON CARBIDE/SILICON CARBIDE
	OPTIONAL UPPER	<input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE <input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE VITON
	OPTIONAL LOWER	<input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE VITON
O-RING ELASTOMERS	STANDARD	BUNA-N
	OPTIONAL	<input type="checkbox"/> VITON
STANDARD SENSING DEVICES*** w/ #18-5 SOOW Cord	MOTOR THERMAL SHUTOFF	THERMAL SENSORS WITH AUTOMATIC RESET
	MOISTURE DETECTION	MOISTURE SENSING PROBES
IMPELLER TRIM:	OPTIONAL	<input type="checkbox"/> DESIGN POINT: ___ GPM @ ___' TDH, IMPELLER DIA. ___"
RECOMMENDED FLUID LEVEL FOR CONTINUOUS OPERATIONS: in (m)	24" (0.6m) (For Continuous Duty, Refer to Warranty)	
MAXIMUM WATER TEMPERATURE FOR CONTINUOUS OPERATION:	104 °F (40 °C)	

\* Models with a FLA greater than 20 amps use #8-4 gauge power cord. \*\* 1-3 BHP Only. Contact factory. These configurations are not CSA listed.  
\*\*\* Requires a circuit in control panel to function. \*\*\*\* 30-60Hz Max, NEMA MG-1, Part 30, cCSAus certified with type VPWM inverter, 230/460 Volt, 3 Ph models only

MODEL	BHP	SERVICE FACTOR	<input type="checkbox"/> 230V / 1 PHASE		<input type="checkbox"/> 200V / 3 PHASE		<input type="checkbox"/> 230V / 3 PHASE		<input type="checkbox"/> 460V / 3 PHASE	
			FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
6120	1	1.2	6.9	48.0	4.8	32.0	4.2	28.0	2.1	14.0
6121	1.5	1.2	8.9	48.0	5.9	32.0	5.1	28.0	2.6	14.0
6122	2	1.2	14.5	86.0	7.8	46.0	6.8	41.0	3.4	20.5
6123	3	1.2	17.0	86.0	11.0	46.0	9.6	41.0	4.8	20.5
6124	5	1.2	28.0	139.0	17.5	64.0	15.2	58.0	7.6	29.0
6125	7.5	1.0	--	--	25.3	83.0	22.0	72.0	11.0	36.0



# Semi-Open Impeller PERFORMANCE DATA 3 PHASE 3" Vertical Discharge 2-1/2" Solids Passing Capacity



A00499



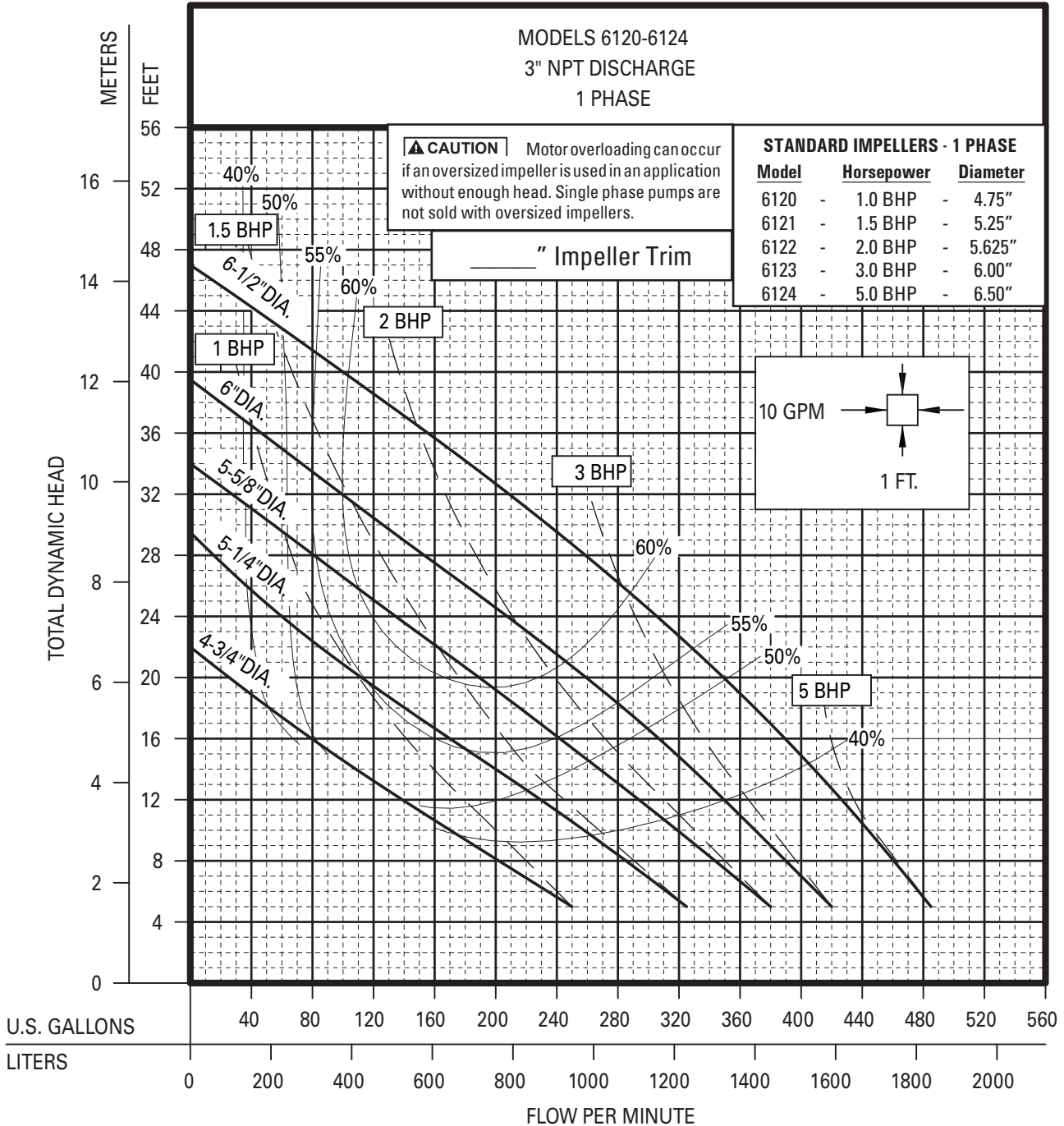
# Semi-Open Impeller

## PERFORMANCE DATA

### 1 PHASE

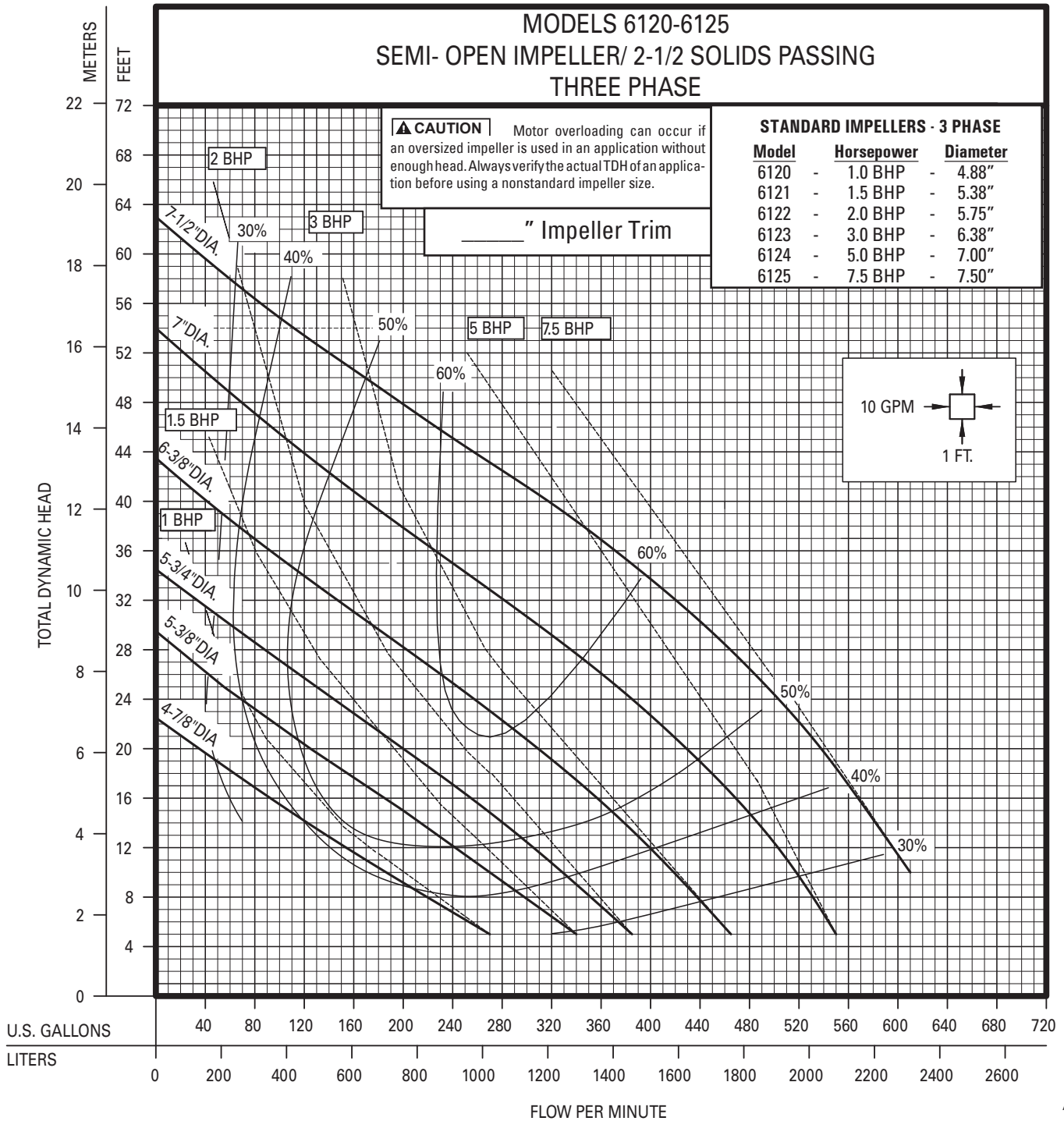
#### 3" Vertical Discharge

#### 2-1/2" Solids Passing Capacity



# Semi-Open Impeller PERFORMANCE DATA 3 PHASE

## 3" & 4" HORIZONTAL FLANGED DISCHARGE 2-1/2" Solids Passing Capacity

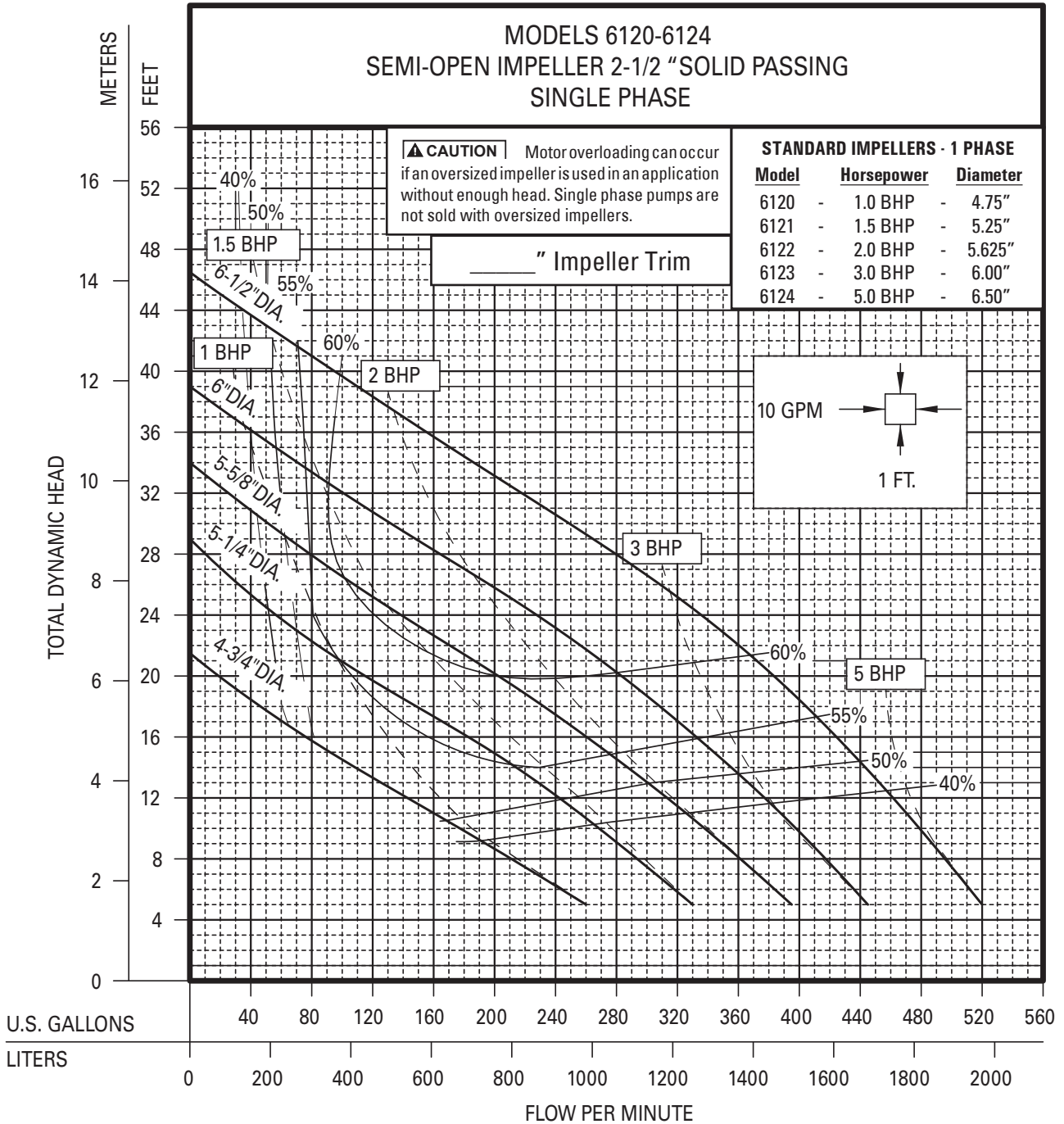




# Semi-Open Impeller PERFORMANCE DATA 1 PHASE



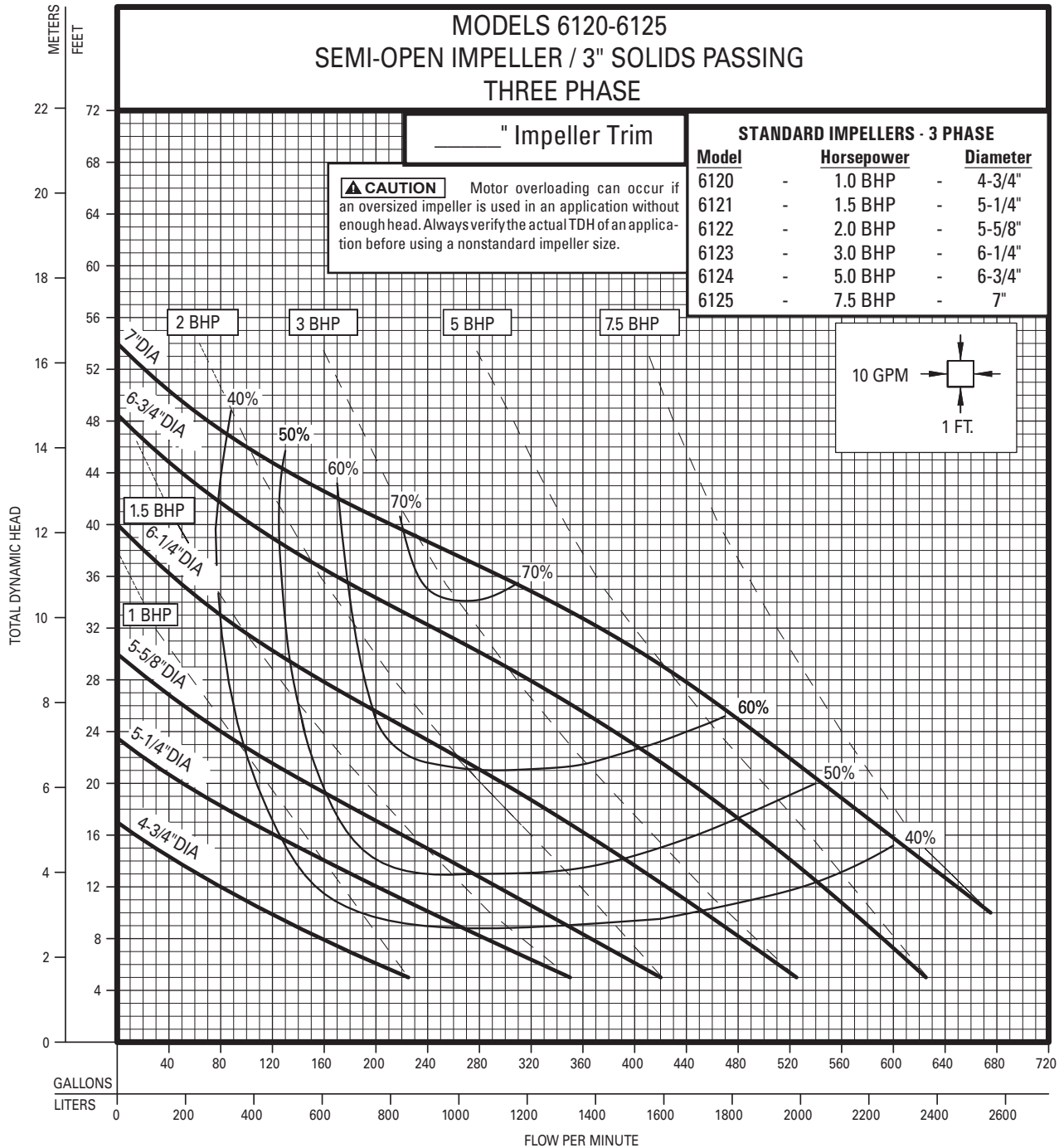
## 3" & 4" HORIZONTAL FLANGED DISCHARGE 2-1/2" Solids Passing Capacity



A00671

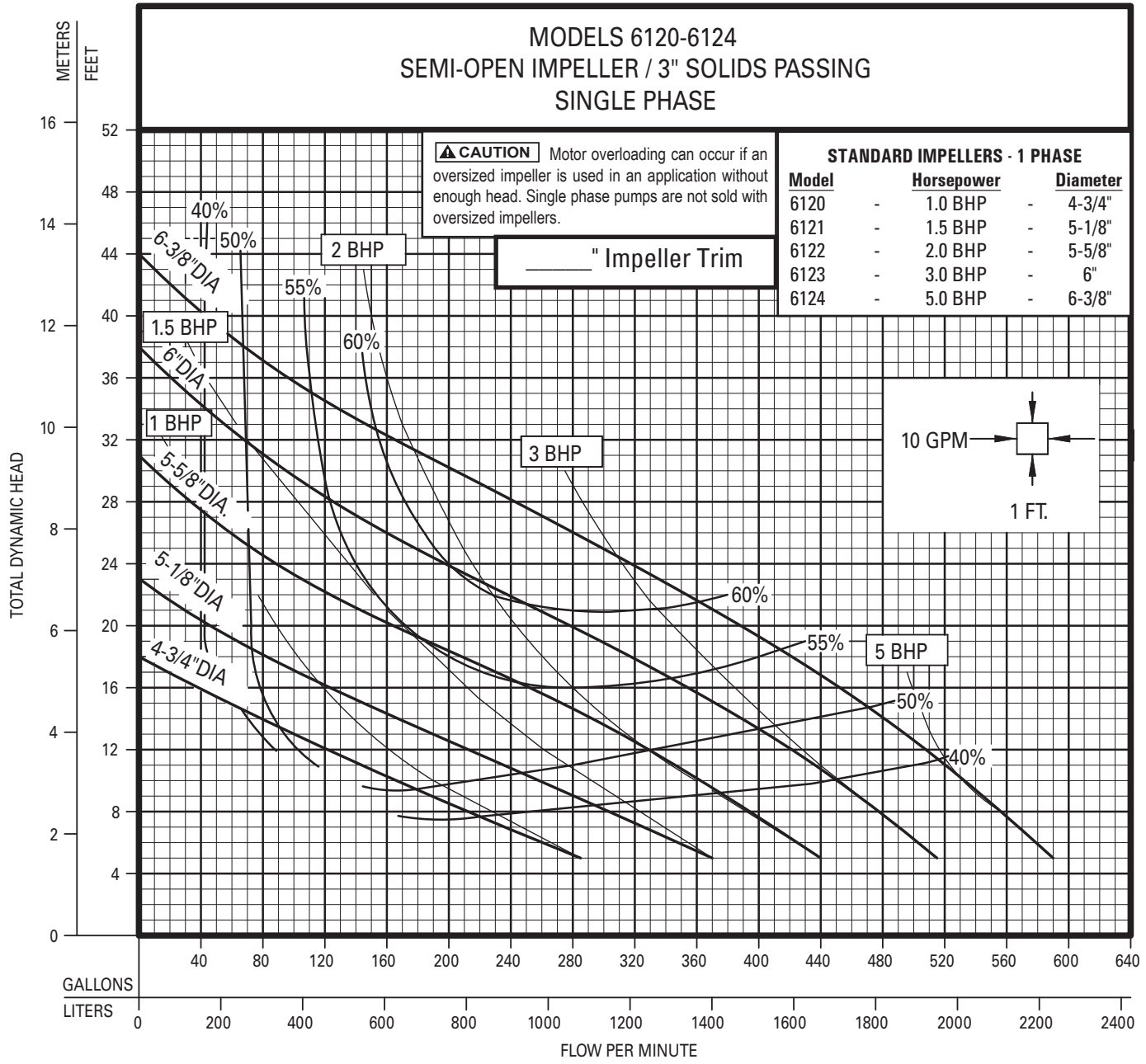
# Semi-Open Impeller PERFORMANCE DATA 3 PHASE

## 4" HORIZONTAL FLANGED DISCHARGE 3" Solids Passing Capacity



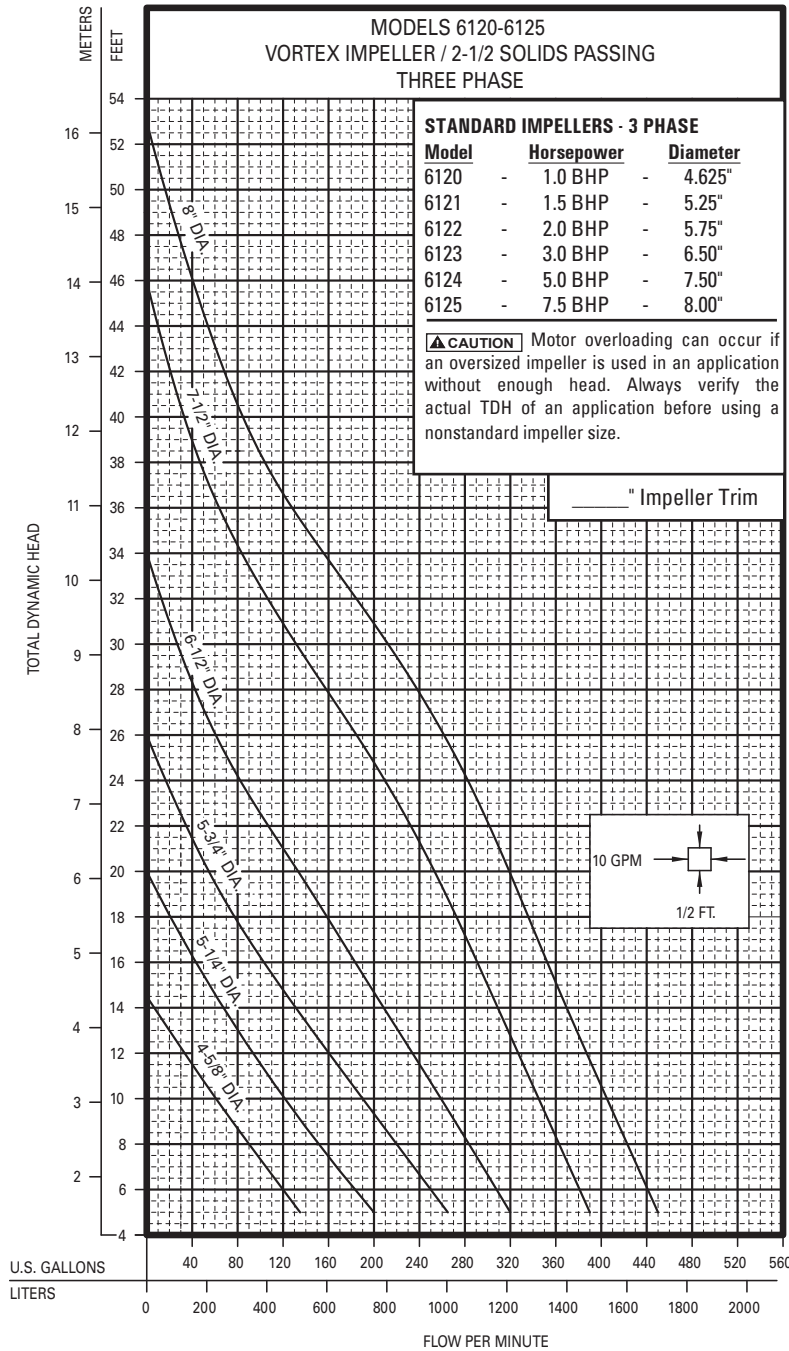
A00520

# Semi-Open Impeller PERFORMANCE DATA 1 PHASE 4" HORIZONTAL FLANGED DISCHARGE 3" Solids Passing Capacity



# Vortex Impeller PERFORMANCE DATA 3 PHASE

3" VERTICAL, 3" & 4" HORIZONTAL FLANGED DISCHARGE  
*2-1/2" Solids Passing Capacity*



A00667

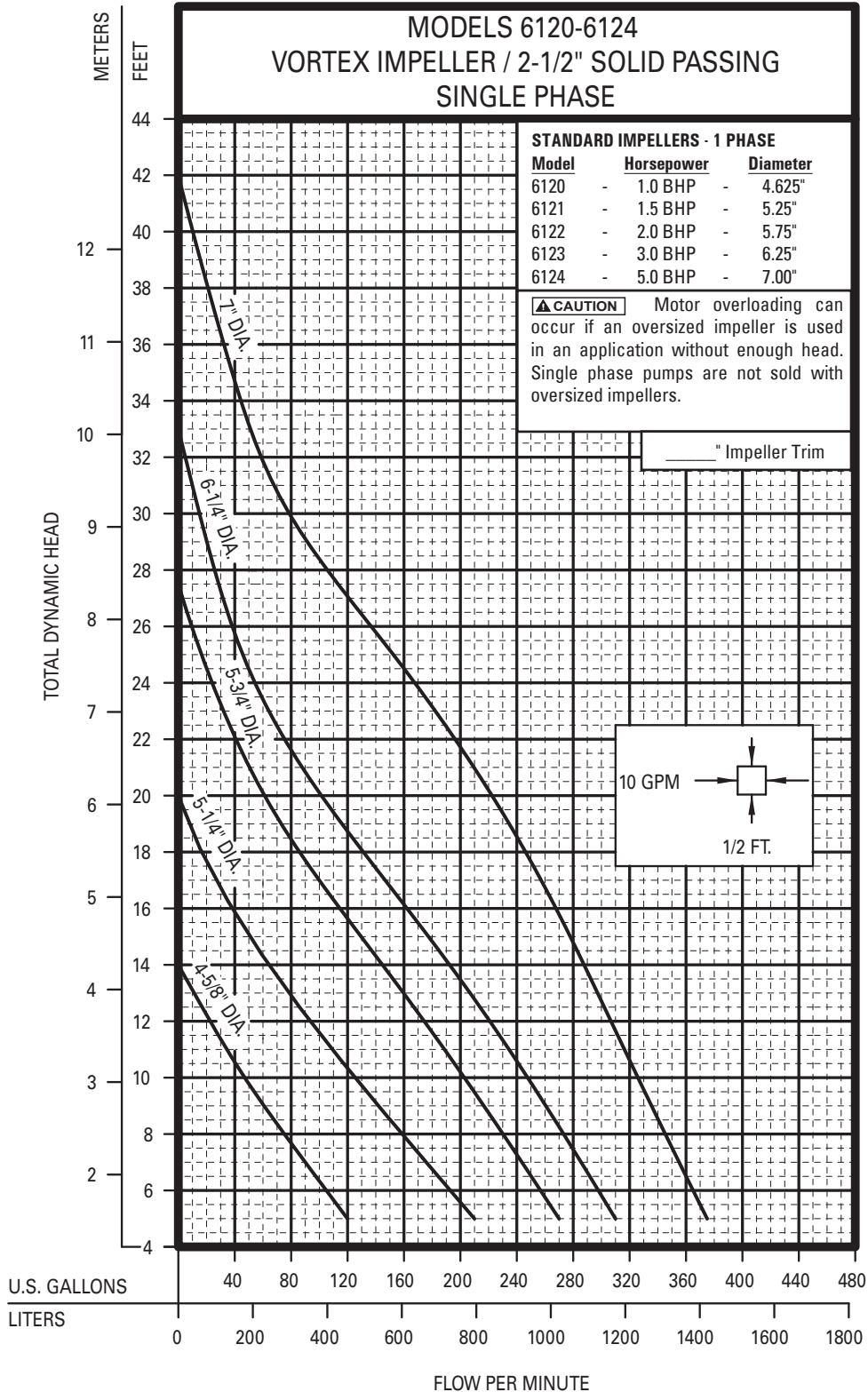




# Vortex Impeller PERFORMANCE DATA 1 PHASE



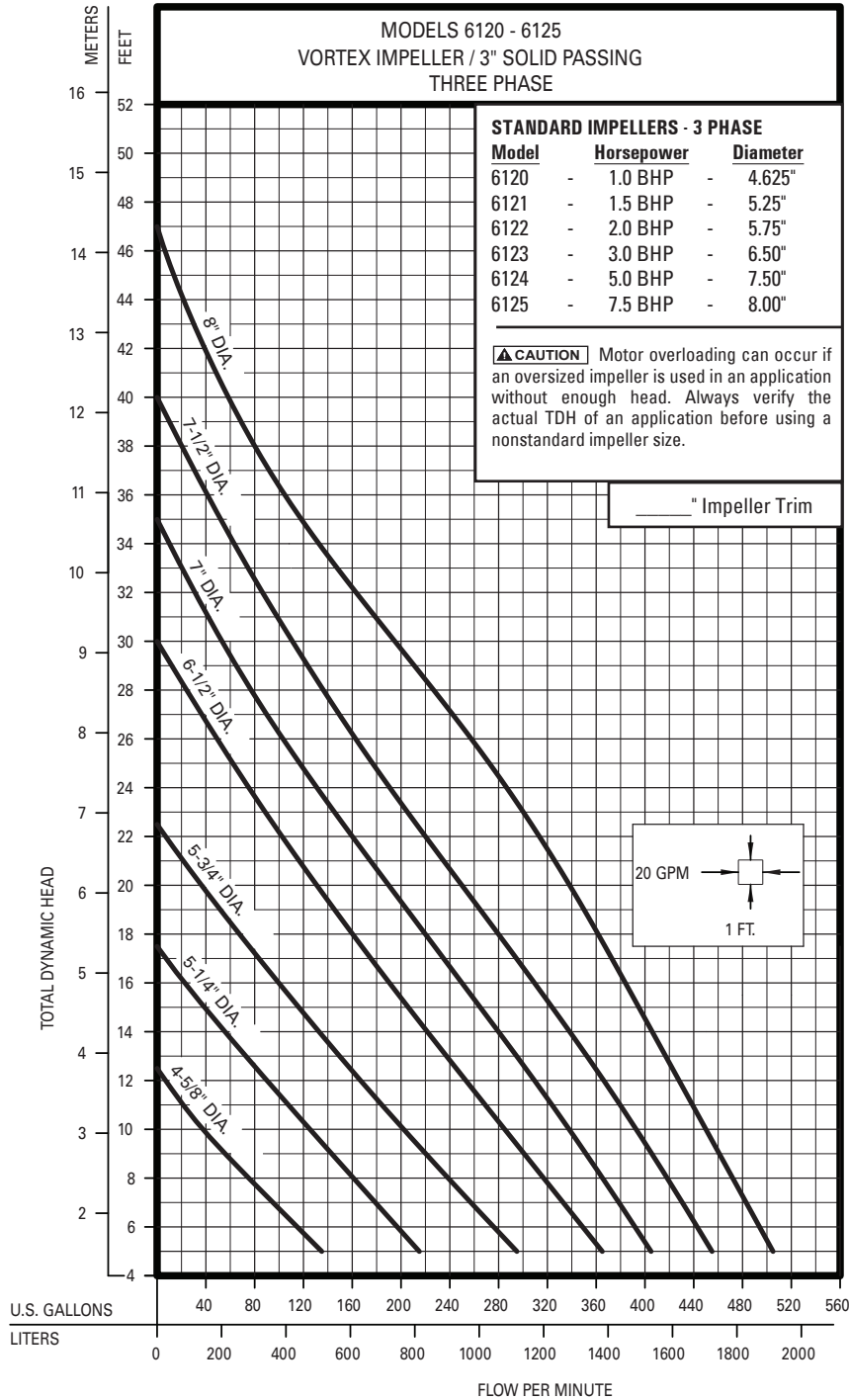
**3" VERTICAL, 3" & 4" HORIZONTAL FLANGED DISCHARGE  
2-1/2" Solids Passing Capacity**



A00665

# Vortex Impeller PERFORMANCE DATA 3 PHASE

## 4" HORIZONTAL FLANGED DISCHARGE 3" Solids Passing Capacity



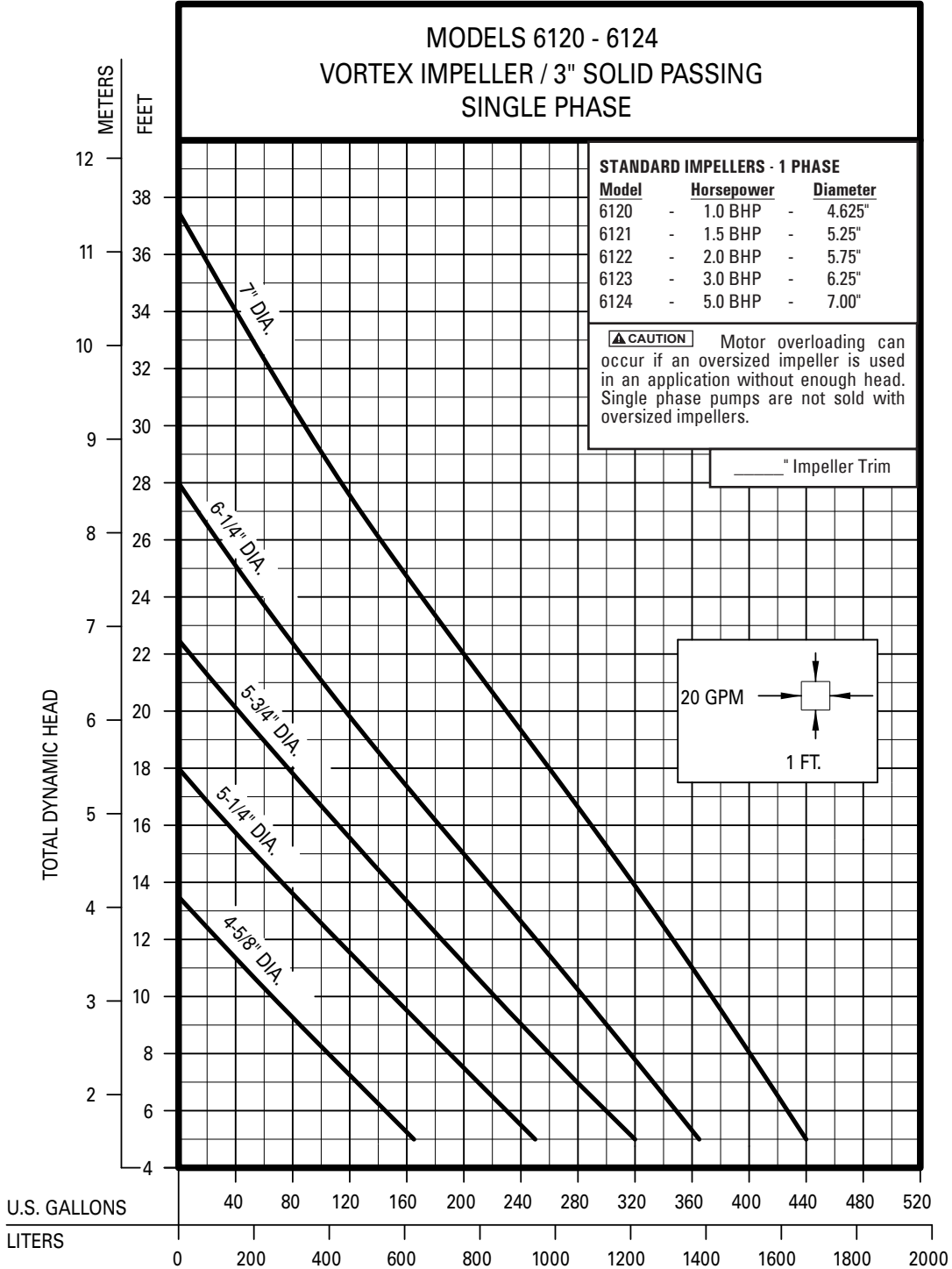
A00668



# Vortex Impeller PERFORMANCE DATA

1 PHASE

4" HORIZONTAL FLANGED DISCHARGE  
3" Solids Passing Capacity



A00666

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*SWPA Data Categories Presented -- Data on this sheet supply design information as the minimum recommended by the Submersible Wastewater Pump Association and is defined in accordance with SWPA's Standardized Definitions for Pump and Motor Characteristics. The accuracy of the data is the responsibility of Zoeller Engineered Products.*

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