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SECTION: Z2.10.100
 ZM1750
 0525
 Supersedes
 0524

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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:	☐ 6120	☐ 6121	☐ 6122	☐ 6123	☐ 6124	☐ 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:	☐ 3" NPT Vertical ☐ 3" Horizontal Flange ☐ 4" Horizontal Flange					

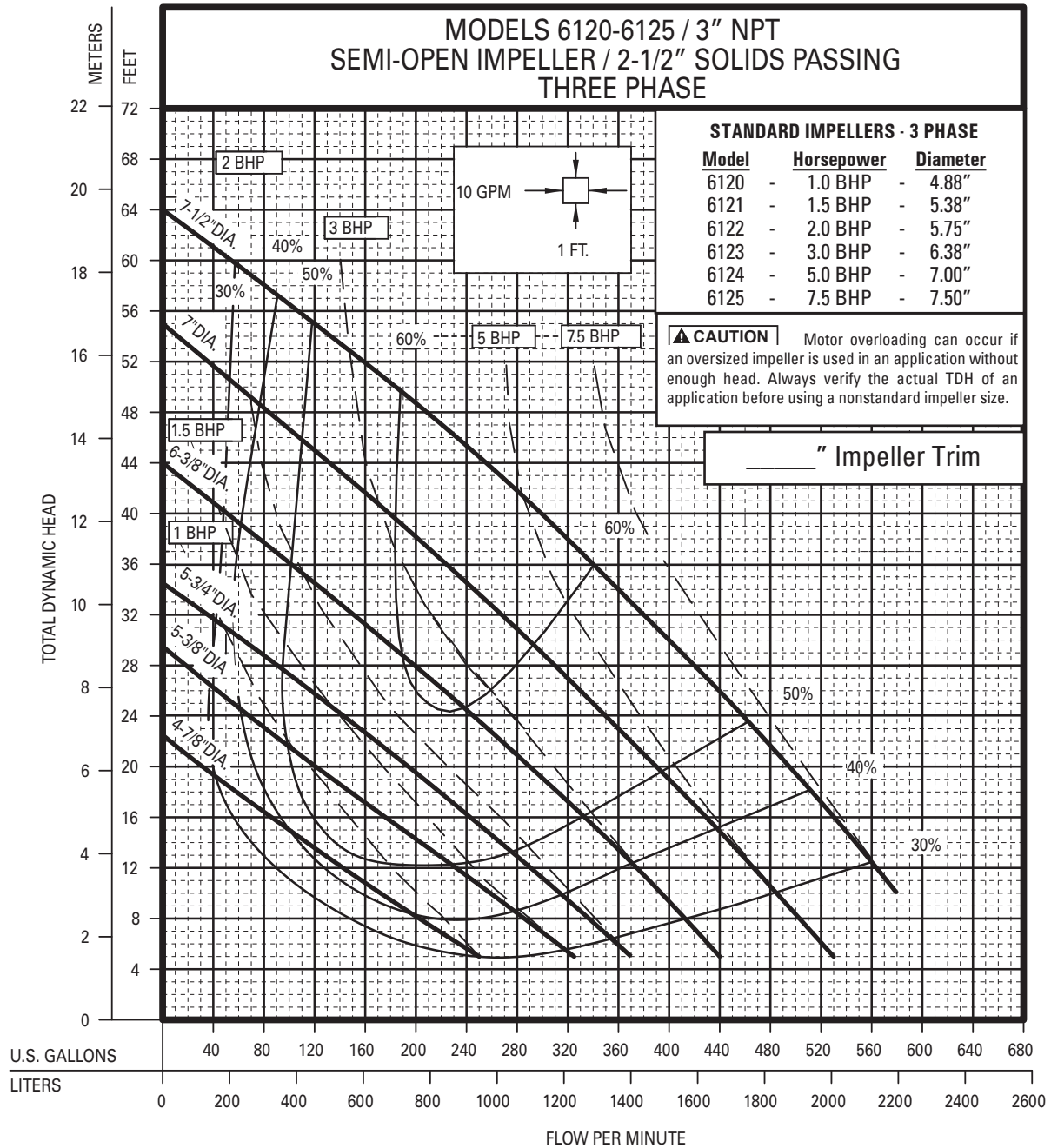
SOLID SIZE: in (mm)	2 -1/2"(64 mm) OPTIONAL ☐ 3"(76 mm)	TANDEM SEALS:	Standard
IMPELLER TYPE:	DUCTILE IRON SEMI-OPEN OPTIONAL ☐ DUCTILE IRON VORTEX	MOTOR DESIGN LETTER:	NEMA B
FLANGE:	ANSI B16.1	POWER CORD LENGTH: FT (M)	25' (7.6 m) ☐
PUMP NET WEIGHT: lbs. (kg)	245 lbs. (111kg)	POWER CORD:	#12-4 SOOW*
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)	☐
	☐ *** INVERTER DUTY SUBMERSIBLE	** HIGH TEMP (1-3 BHP ONLY)	☐ (175 °F Max.)

SHAFT SEAL CONSTRUCTION:	STANDARD	UPPER - CARBON CERAMIC LOWER - SILICON CARBIDE/SILICON CARBIDE
	OPTIONAL UPPER	☐ SILICON CARBIDE/SILICON CARBIDE ☐ SILICON CARBIDE/SILICON CARBIDE VITON
	OPTIONAL LOWER	☐ SILICON CARBIDE/SILICON CARBIDE VITON
O-RING ELASTOMERS	STANDARD	BUNA-N
	OPTIONAL	☐ 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	☐ 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, 1-7.5 HP 230 and 460 Volt, 3 phase and 2-5 HP 575 Volt 3 phase models only

MODEL	BHP	SERVICE FACTOR	☐ 230V / 1 PHASE		☐ 200V / 3 PHASE		☐ 230V / 3 PHASE		☐ 460V / 3 PHASE		☐ 575V / 3 PHASE	
			FLA	LRA	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	3.9	16.2
6124	5	1.2	28.0	139.0	17.5	64.0	15.2	58.0	7.6	29.0	6.1	23.0
6125	7.5	1.0	--	--	25.3	83.0	22.0	72.0	11.0	36.0	9.0	23.0

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



A00499



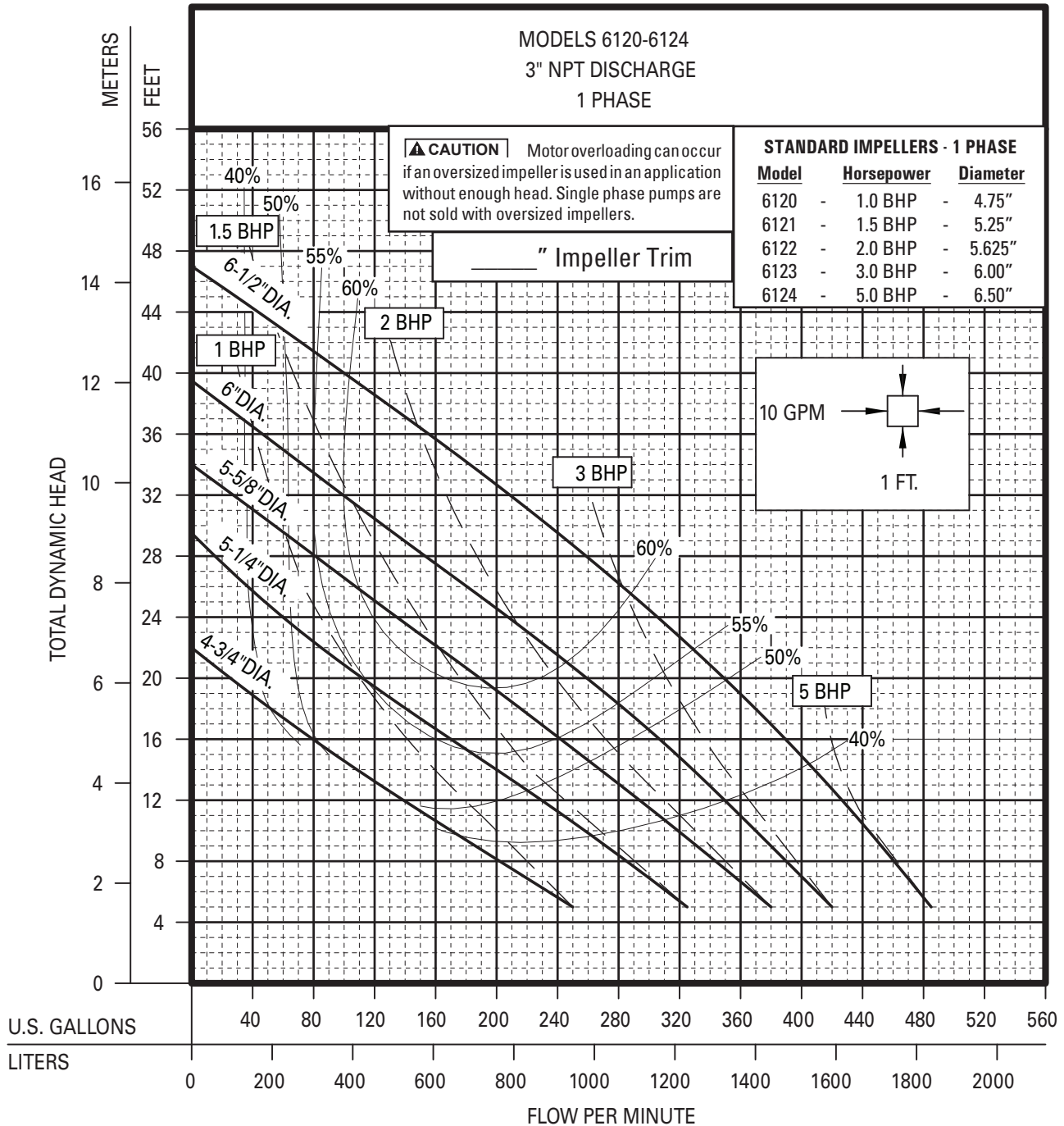
Semi-Open Impeller

PERFORMANCE DATA

1 PHASE

3" Vertical Discharge

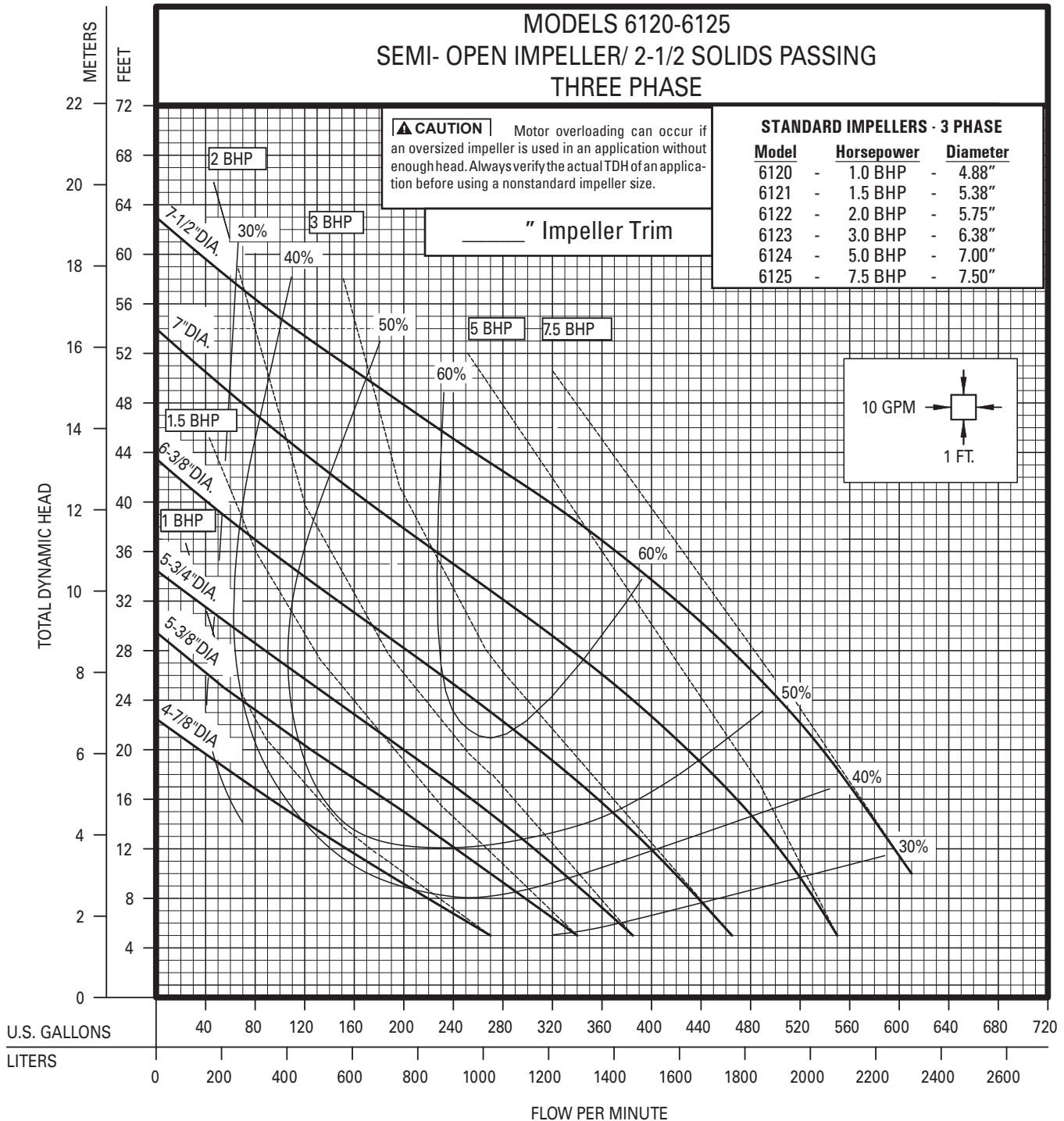
2-1/2" Solids Passing Capacity



A00672

Semi-Open Impeller PERFORMANCE DATA 3 PHASE

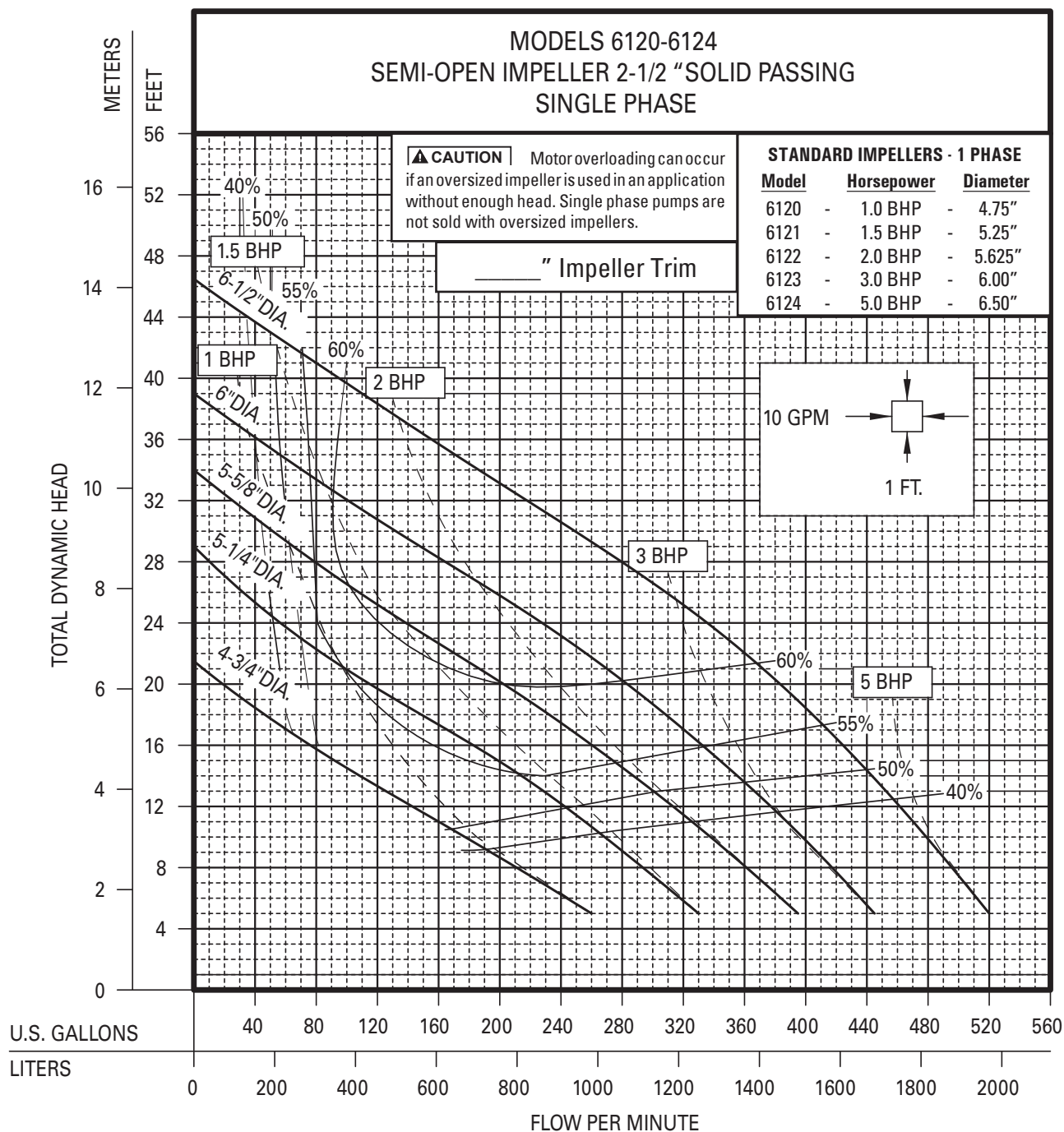
3" & 4" HORIZONTAL FLANGED DISCHARGE 2-1/2" Solids Passing Capacity



A00500

Semi-Open Impeller PERFORMANCE DATA 1 PHASE

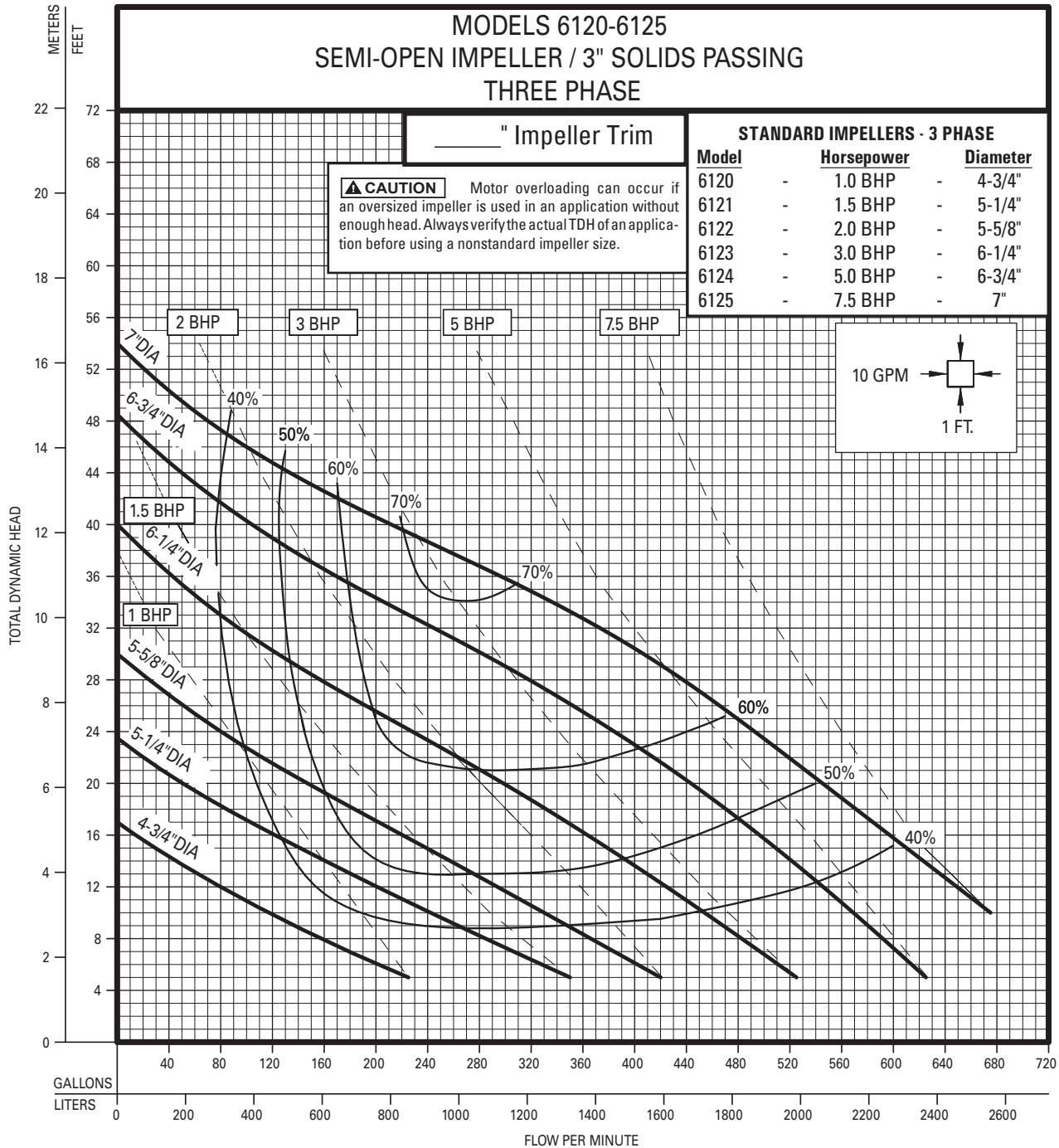
3" & 4" HORIZONTAL FLANGED DISCHARGE 2-1/2" Solids Passing Capacity



A00671

Semi-Open Impeller PERFORMANCE DATA 3 PHASE

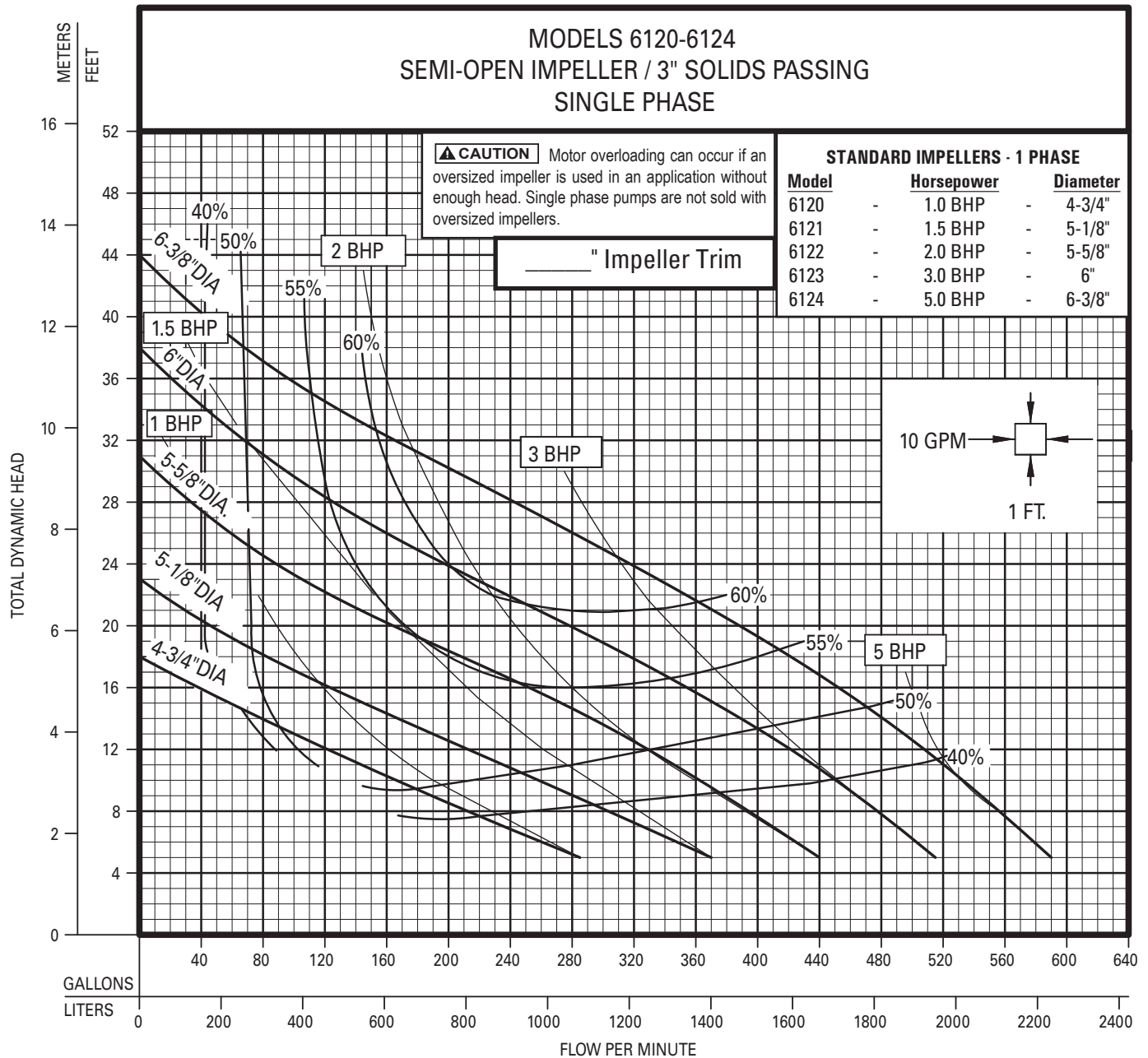
4" HORIZONTAL FLANGED DISCHARGE 3" Solids Passing Capacity



A00520

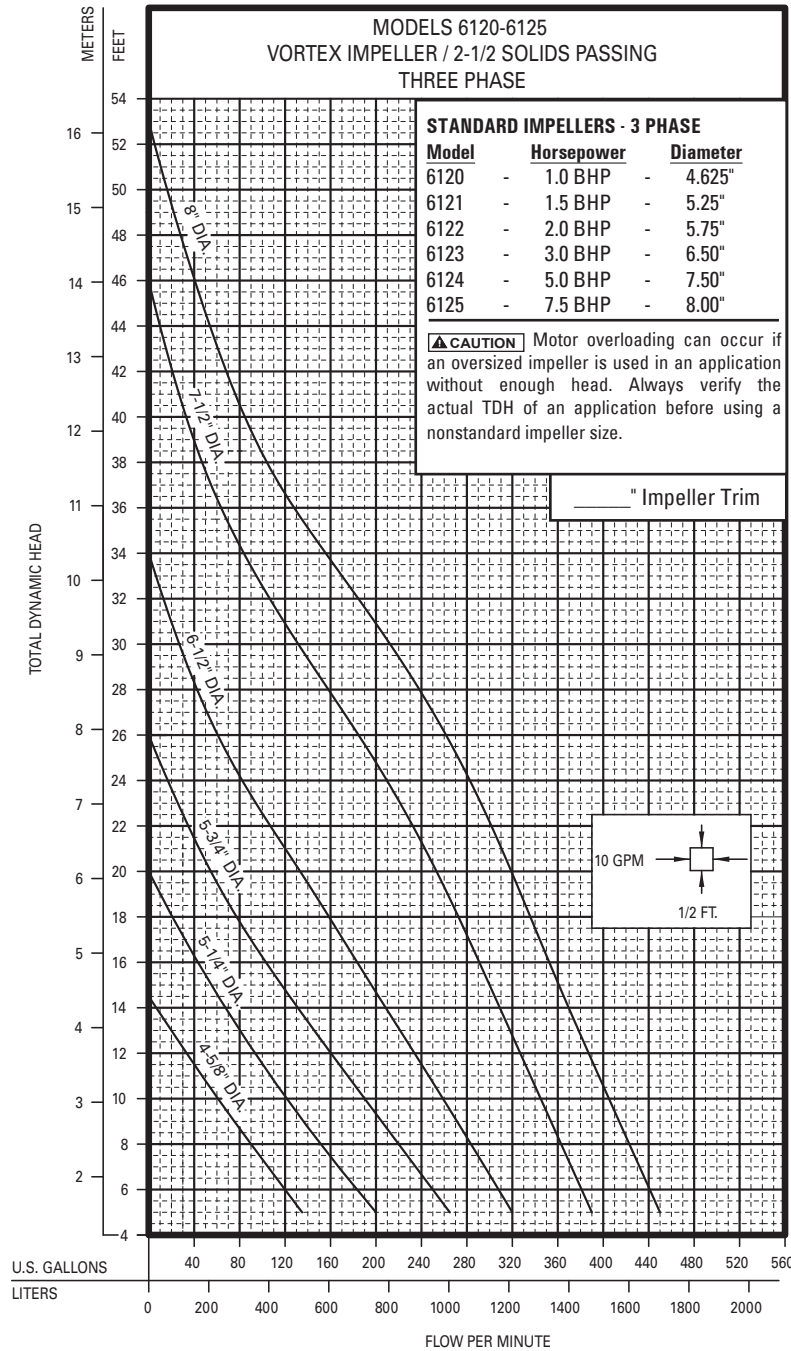
Semi-Open Impeller PERFORMANCE DATA 1 PHASE

4" HORIZONTAL FLANGED DISCHARGE
3" Solids Passing Capacity



Vortex Impeller PERFORMANCE DATA 3 PHASE

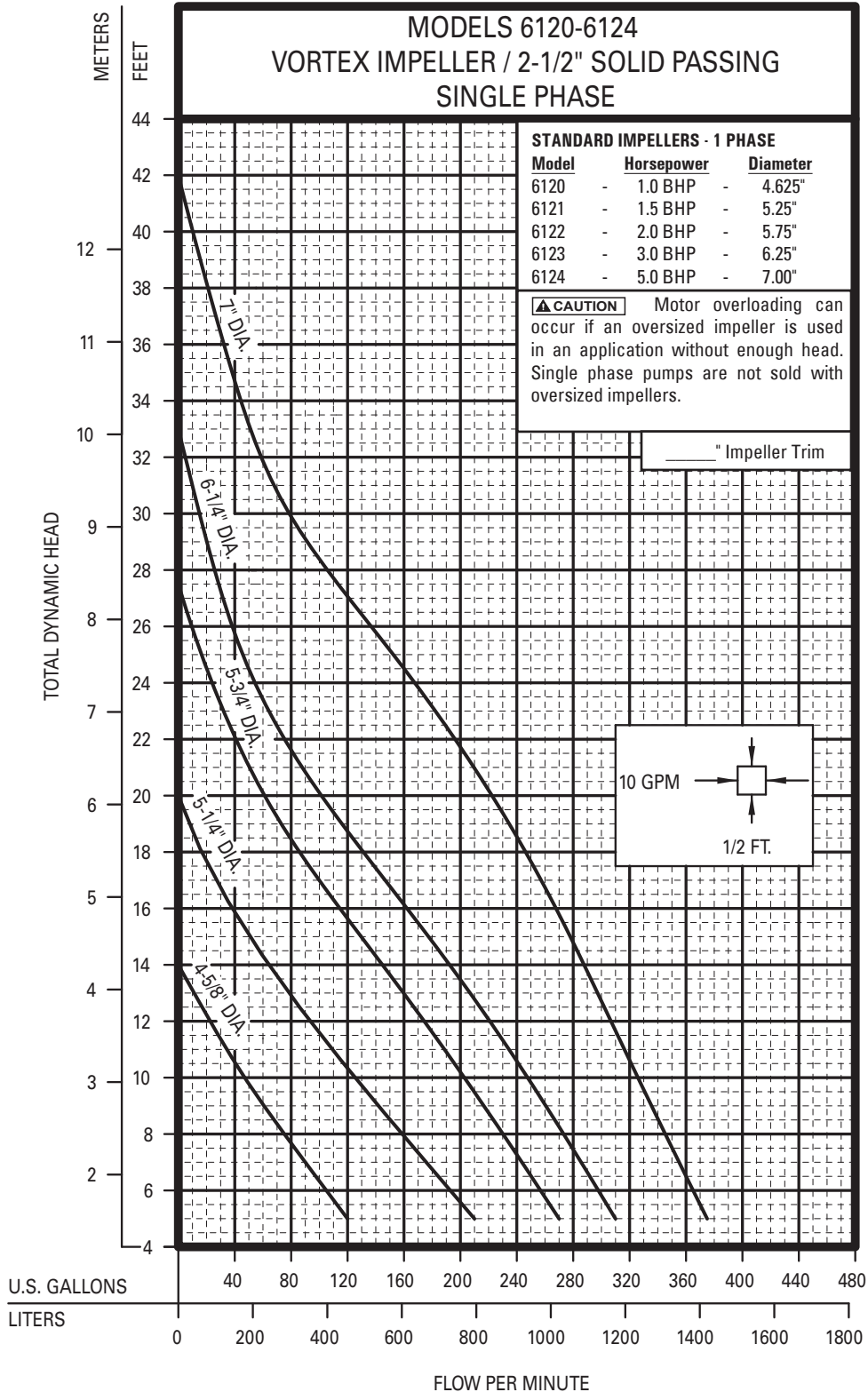
3" VERTICAL, 3" & 4" HORIZONTAL FLANGED DISCHARGE
2-1/2" Solids Passing Capacity



A00667

Vortex Impeller PERFORMANCE DATA 1 PHASE

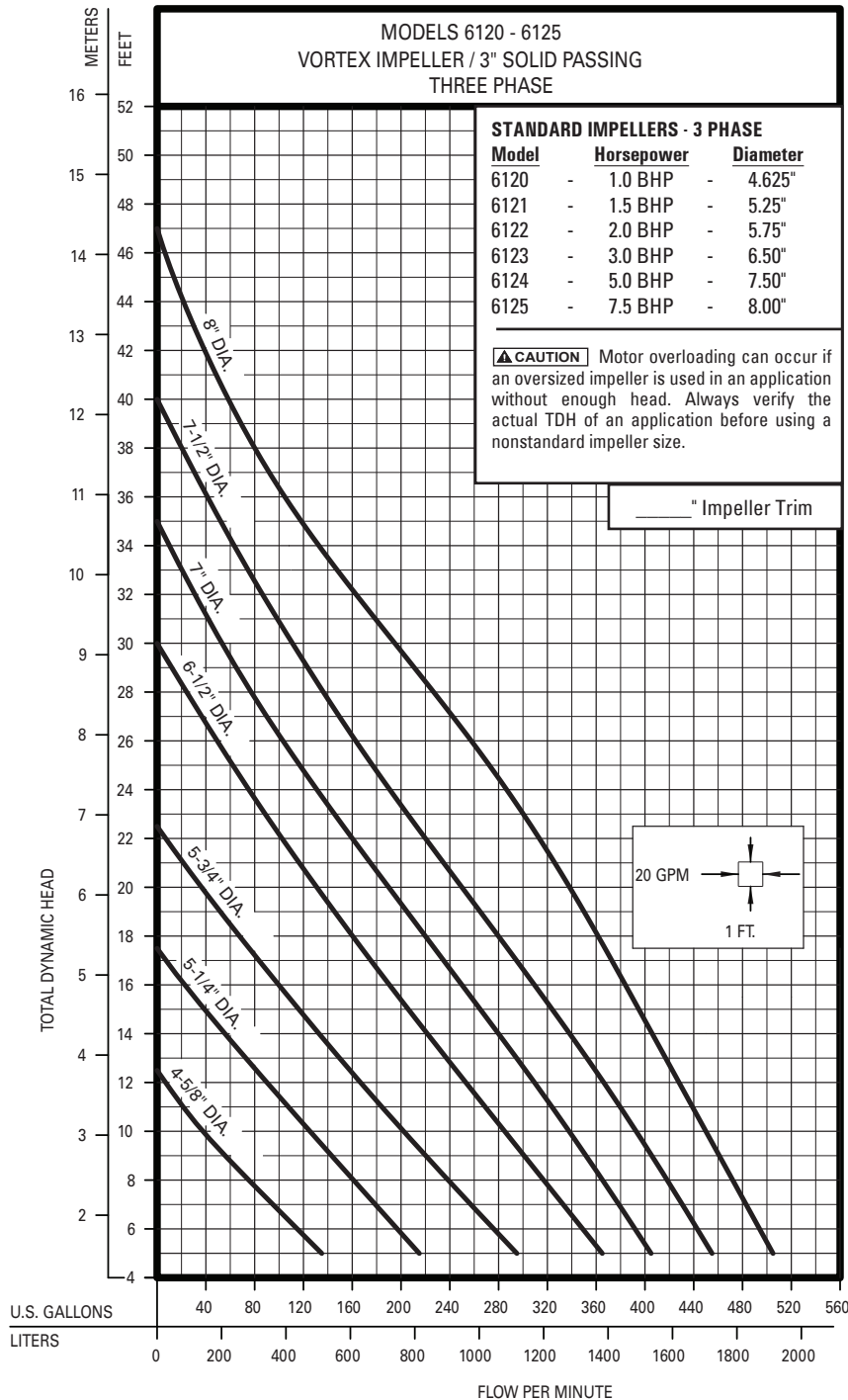
3" VERTICAL, 3" & 4" HORIZONTAL FLANGED DISCHARGE
2-1/2" Solids Passing Capacity



A00665

Vortex Impeller PERFORMANCE DATA 3 PHASE

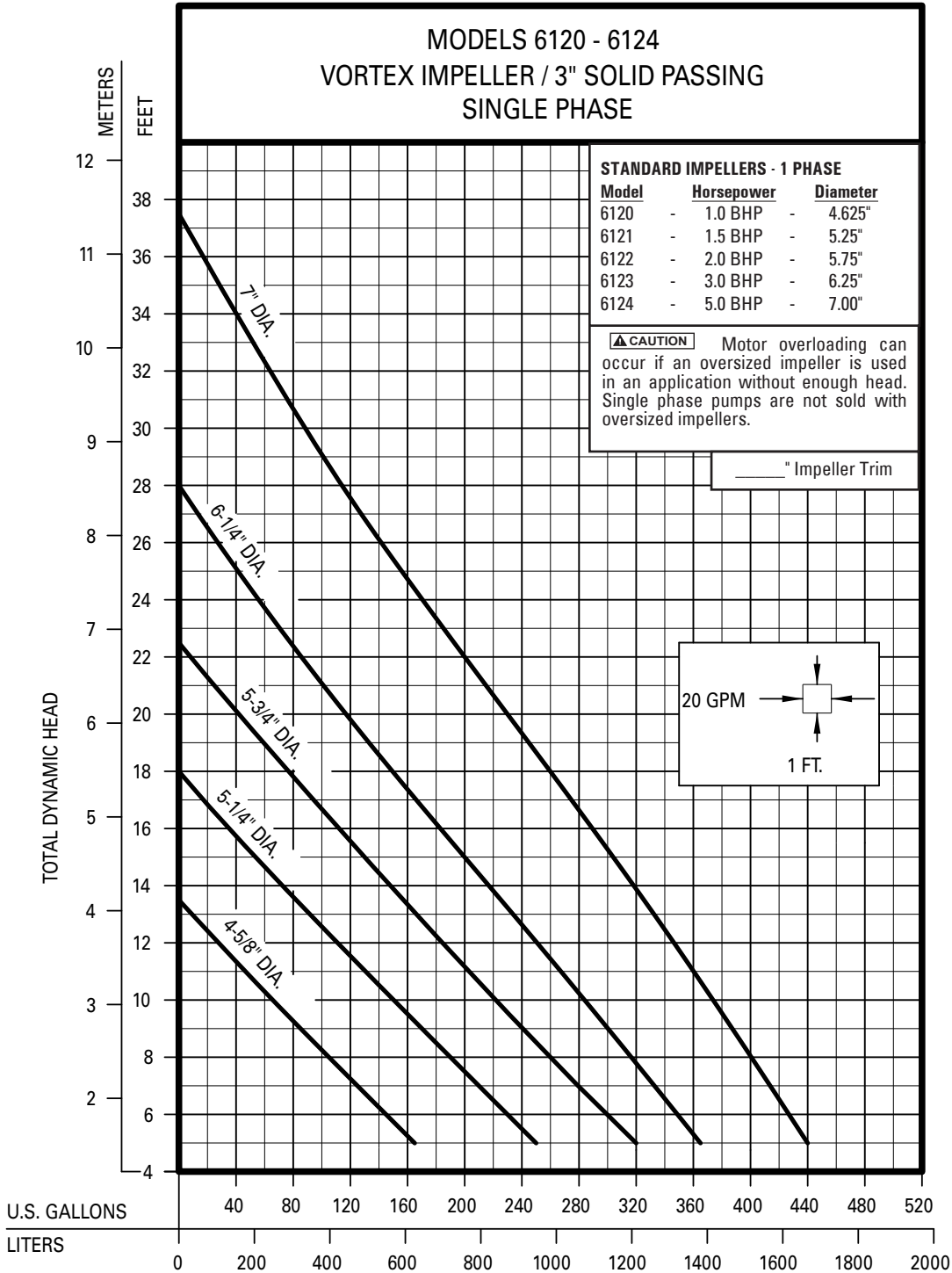
4" HORIZONTAL FLANGED DISCHARGE 3" Solids Passing Capacity



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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