

# GENESYS

A NEW BEGINNING



## Genesys 2x3x6 Model

Advance Pump Company is proud to announce the arrival of the interchangeable 2X3X6 model, which conforms to the ANSI specification B73.1 envelope dimensions. The GENESYS® non-metallic, end-suction centrifugal pump line is designed and engineered for highly efficient pumping solutions.

The GENESYS® composite construction with no wetted metal parts gives it compatibility with most aggressive chemistries. The unique closed-impeller and time-tested volute design render performances up to 500 GPM and 180' of shut off head. And if that isn't enough, it can produce peak performances at 81% efficiency! You won't find that anywhere else in the pump industry today!

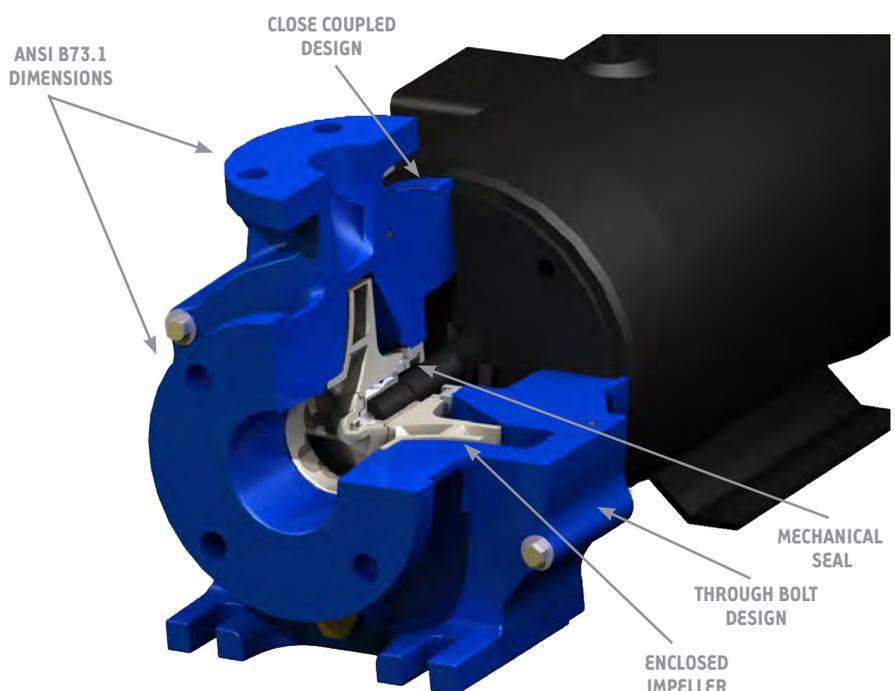
### Other money saving features include:

- Straight forward through-bolt construction for simplified field maintenance
- True closed-coupled / back pull-out design for ease of use
- No impeller or seal adjustment necessary. The simple assembly maintains proper heights

### GENESYS® can be delivered with short lead times for the following configuration:

- Wet-End Kits
- Pedestal Mounted
- Close or Long Coupled Pump Motor Units

This combination of options gives you the best value for your unique channel.



**Springer Pumps, LLC**

Toll Free: 866-777-6060 Int'l: 484-949-2900 Fax: 866-777-6383 [www.springerpumps.com](http://www.springerpumps.com)

# GENESYS Part Numbering

To determine a part number, select the appropriate number from the categories listed below and insert them into the corresponding digits. For example: G1T-01N-12 would be a Genesys 2X3X6 (Material Polyvinyl Ester), trimmed impeller, ¼ HP, Single Phase, TEFC, Seal: Carbon on Ceramic SS316, Viton® trim.

1st digit - Pump Family
G = Genesys

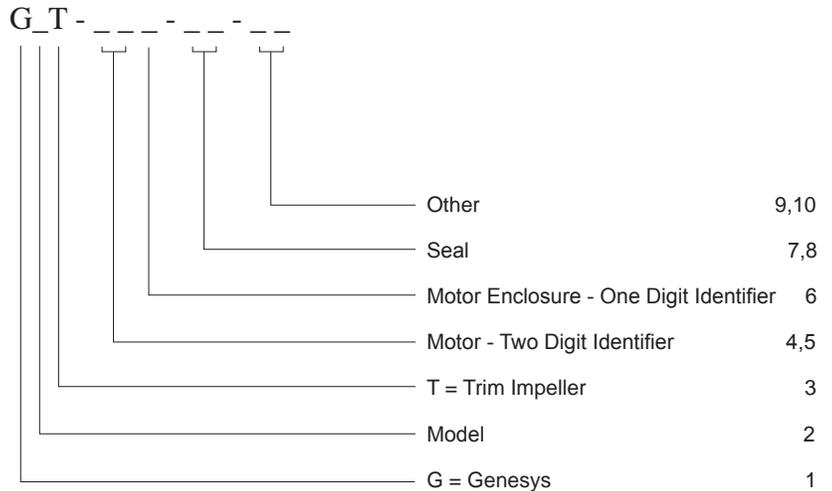
2nd digit - Pump size and material
1 = 2" discharge x 3" suction x 6" nominal impeller diameter, glass-fiber reinforced Vinyl Ester, Noryl® impeller.

3rd digit - Impeller Trim
X = full diameter impeller T = Trimmed impeller (specify trim on order)

4th and 5th digits - Motor Identifier				
Motor ID	Hp	RPM	Phase	Voltage
01	3/4	1200	1	115/230
02	1	1200	1	115/230
03	1	1800	1	115/230
04	1 1/2	1800	1	115/230
05	2	1800	1	115/230
06	3	1800	1	115/230
07	5	1800	1	230
08	5	3600	1	230
09	7 1/2	1800	1	230
10	7 1/2	3600	1	230
11	10	1800	1	230
12	10	3600	1	230

30	3/4	1200	3	230/460
31	1	1200	3	230/460
32	1	1800	3	230/460
33	1 1/2	1800	3	230/460
34	2	1800	3	230/460
35	3	1800	3	230/460
36	5	1800	3	230/460
37	5	3600	3	230/460
38	7 1/2	1800	3	230/460
39	7 1/2	3600	3	230/460
40	10	1800	3	230/460
41	10	3600	3	230/460
42	15	3600	3	230/460

AO	Pump End Only, No Installed Seal
AI	Pump End Only, Installed Seal
AP	Pedestal Mount, Installed Seal



6th digit - Motor Enclosure
N = TEFC O = ODP E = Exp Proof W = Wash Down

7th and 8th digits - Seal			
Seal ID	Description		
12	Carbon on Ceramic, SS316, Viton® trim		
14	Carbon on Ceramic, SS316, Buna trim		
Non-Metallic Impenatra Seals:			
Seal ID	Seal Head Asm	Seal Seat	Trim
21	Resin-impregnated Carbon Graphite	Ceramic	Viton®
22	Resin-impregnated Carbon Graphite	Ceramic	EPDM
23	Resin impregnated Carbon Graphite	Silicon Carbide	Viton®
24	Resin-impregnated Carbon Graphite	Silicon Carbide	EPDM
41	Graphite	Ceramic	Viton®
42	Graphite	Ceramic	EPDM
43	Graphite	Silicon Carbide	Viton®
44	Graphite	Silicon Carbide	EPDM
51	Silicon Carbide	Silicon Carbide	Viton®
52	Silicon Carbide	Silicon Carbide	EPDM

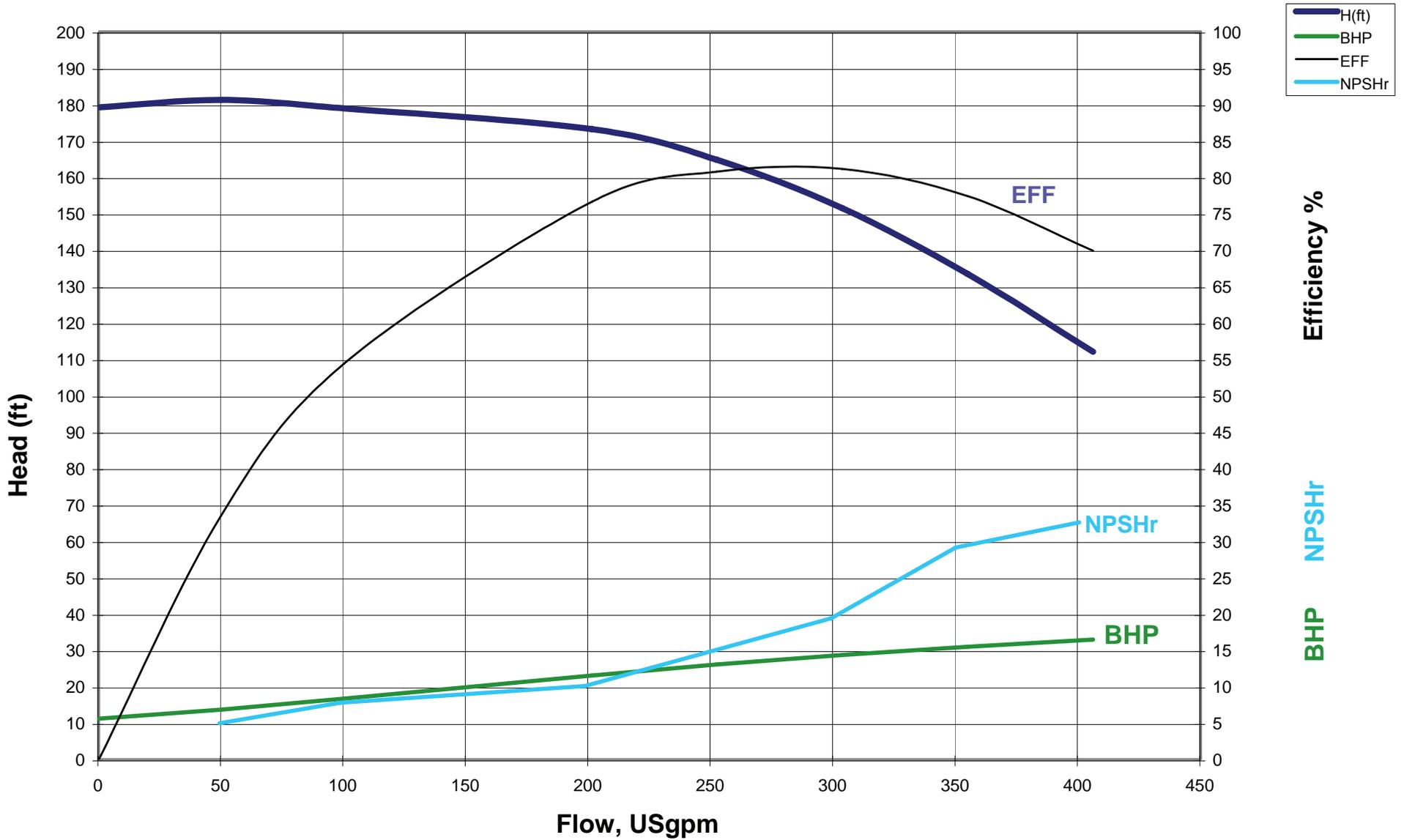
9th and 10th digits - Other
P = Shaft Protection



Corrosion-resistant, non-metallic pumps.



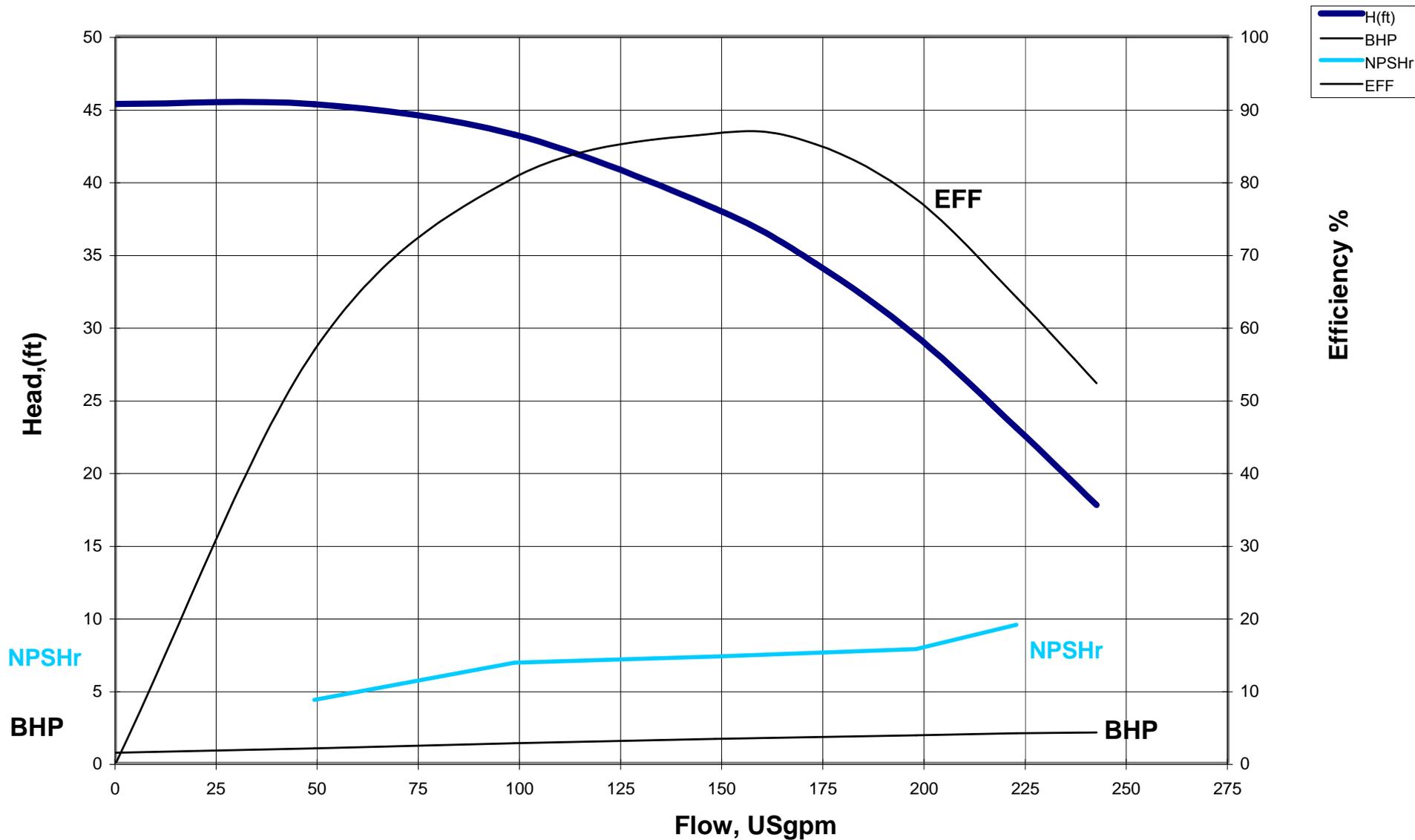
# Genesys 2x3x6 full diameter impeller, 2 Pole 60 Hz



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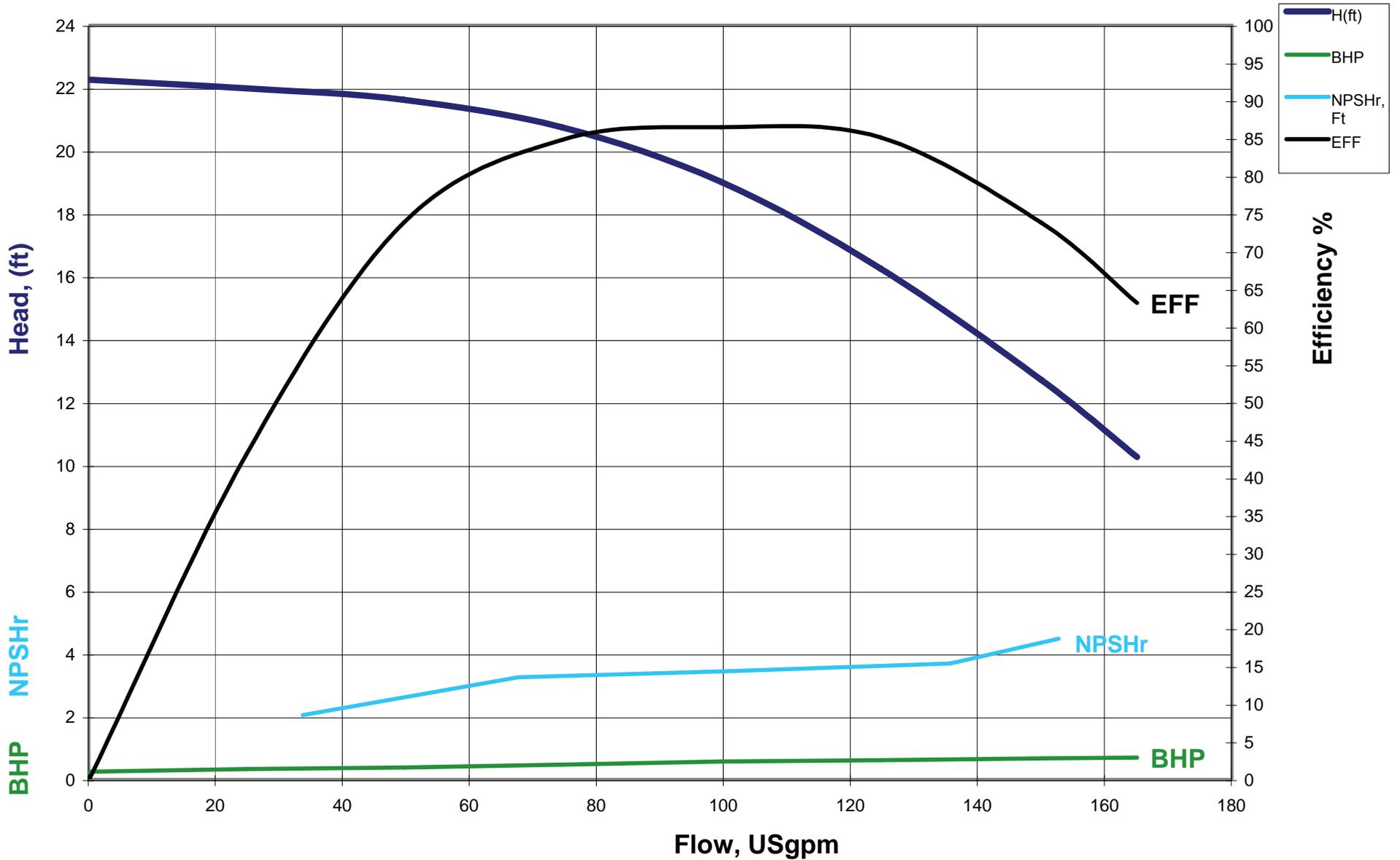
# Genesys 2x3x6 full diameter impeller, 4 pole 60 Hz



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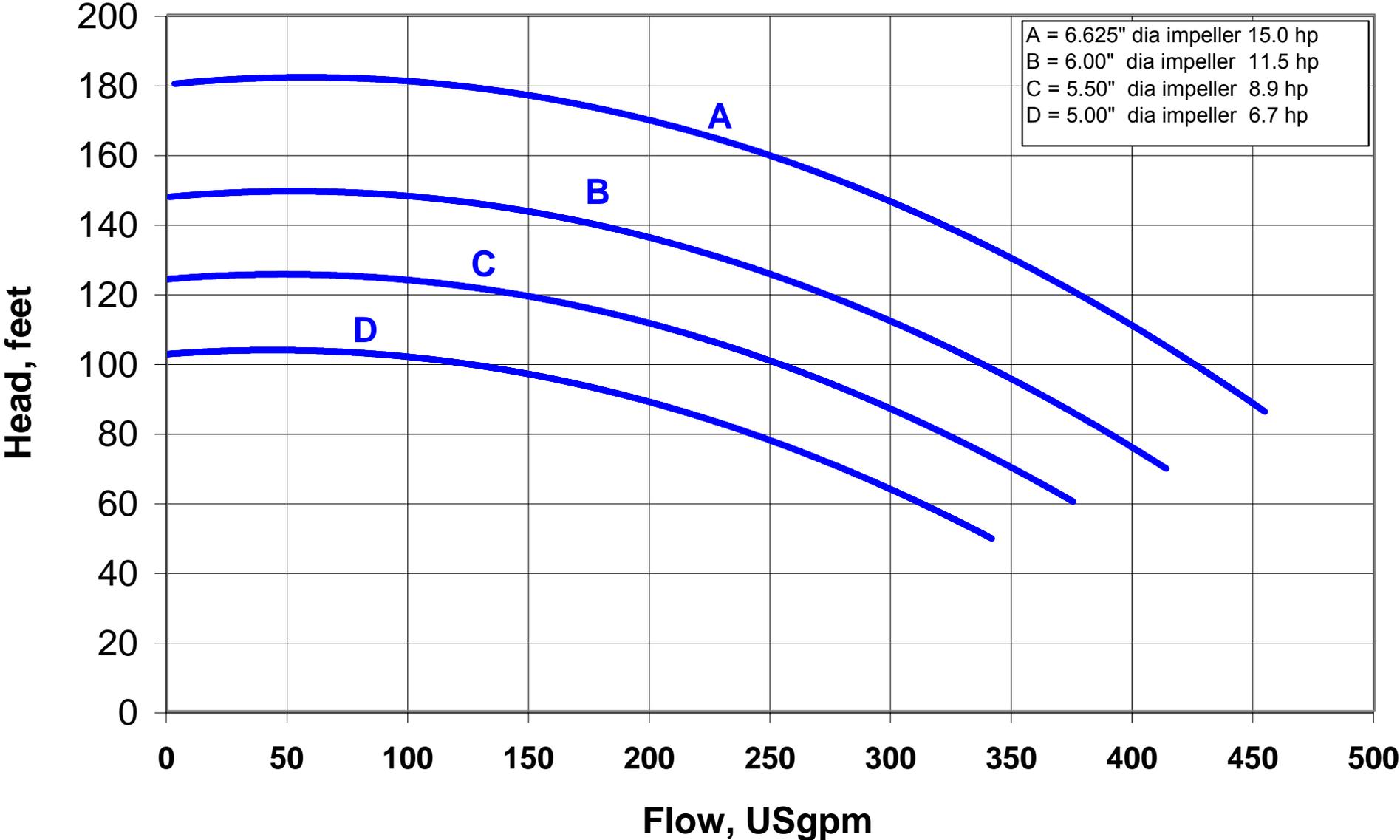
# Genesys 2x3x6 full diameter impeller, 6 Pole 60 Hz



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# 2x3x6 Performance - 2 Pole 60Hz

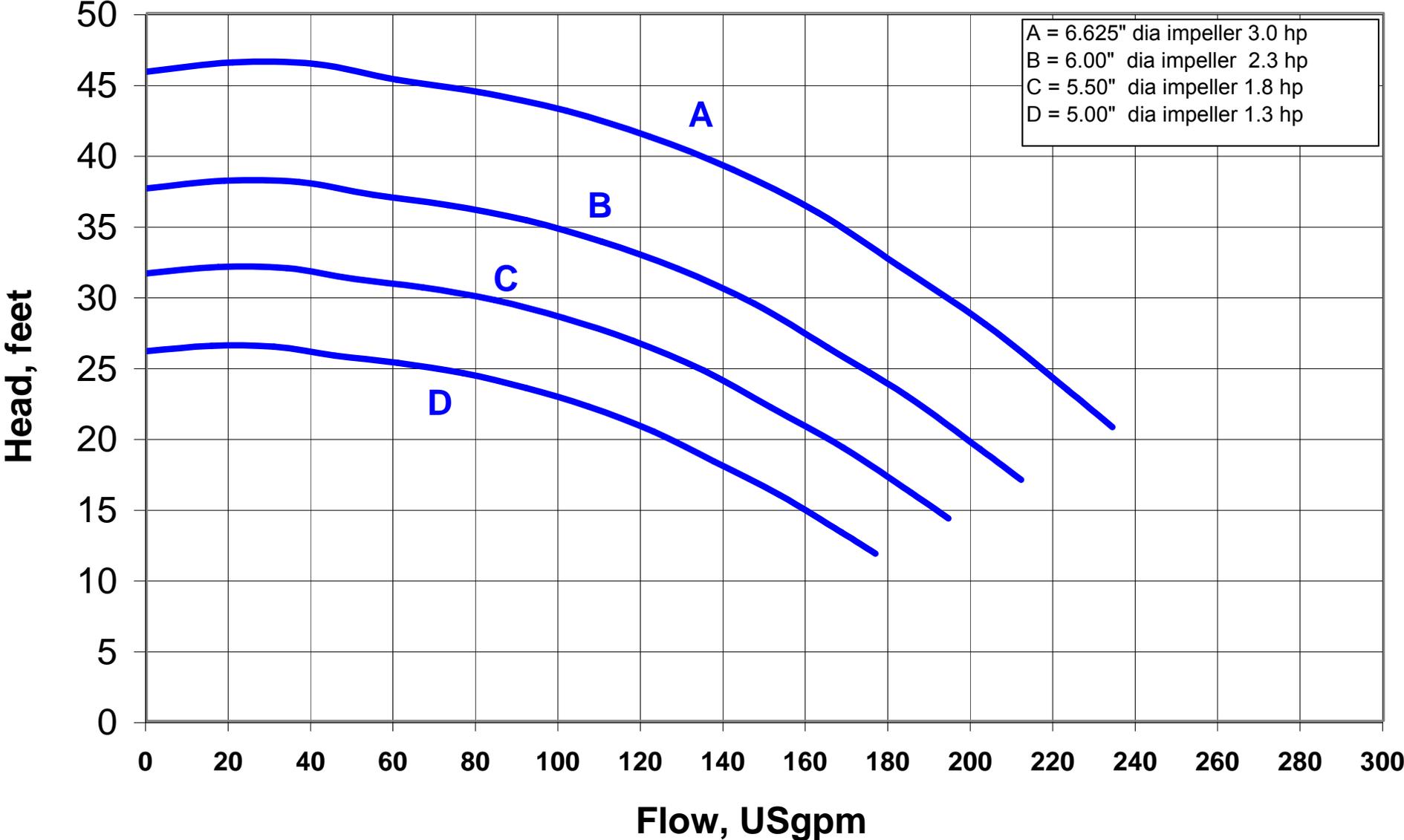


A = 6.625" dia impeller 15.0 hp  
B = 6.00" dia impeller 11.5 hp  
C = 5.50" dia impeller 8.9 hp  
D = 5.00" dia impeller 6.7 hp

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# 2x3x6 Performance - 4 Pole 60Hz

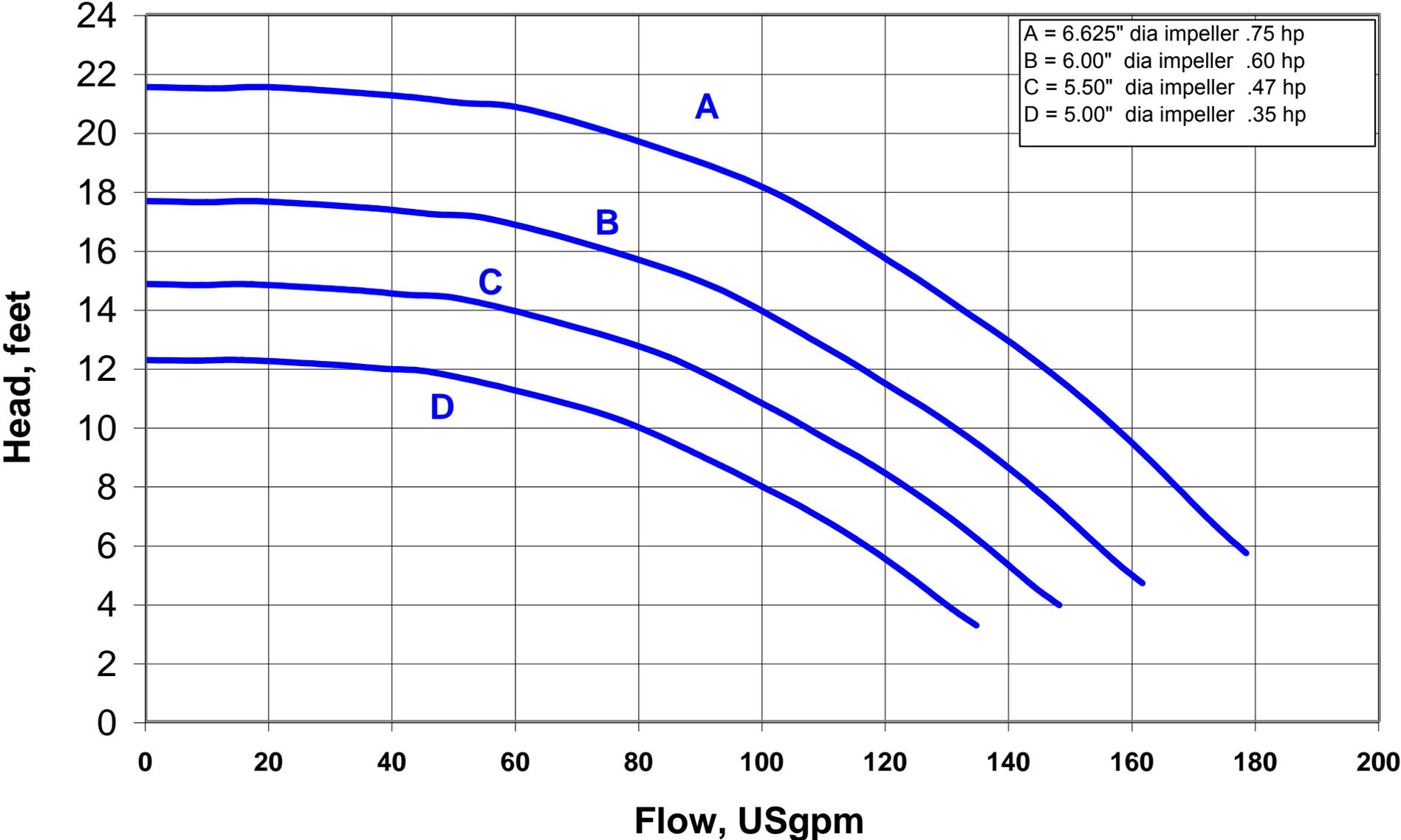


A = 6.625" dia impeller 3.0 hp  
B = 6.00" dia impeller 2.3 hp  
C = 5.50" dia impeller 1.8 hp  
D = 5.00" dia impeller 1.3 hp

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# 2x3x6 Performance - 6 Pole 60Hz

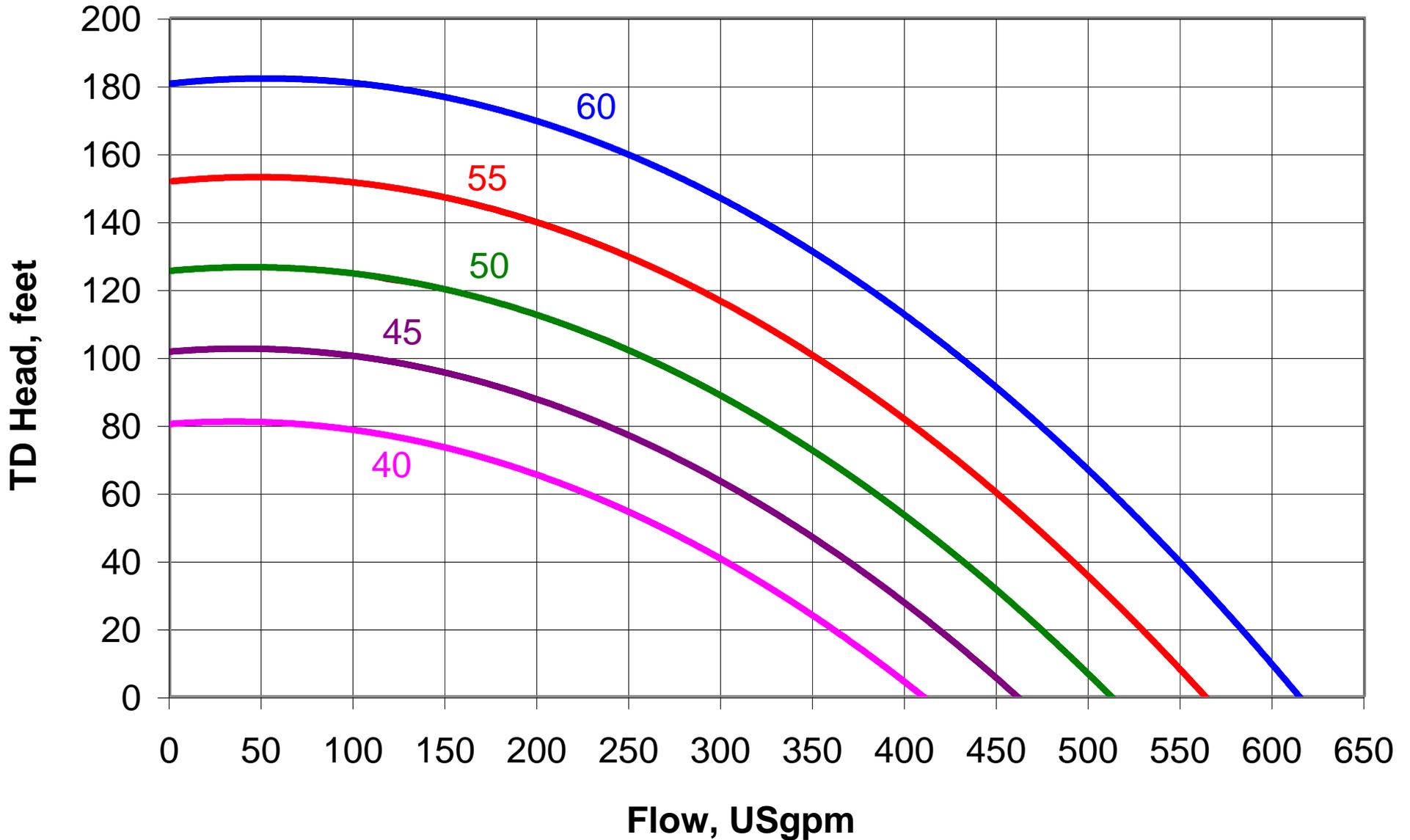


A = 6.625" dia impeller .75 hp  
B = 6.00" dia impeller .60 hp  
C = 5.50" dia impeller .47 hp  
D = 5.00" dia impeller .35 hp

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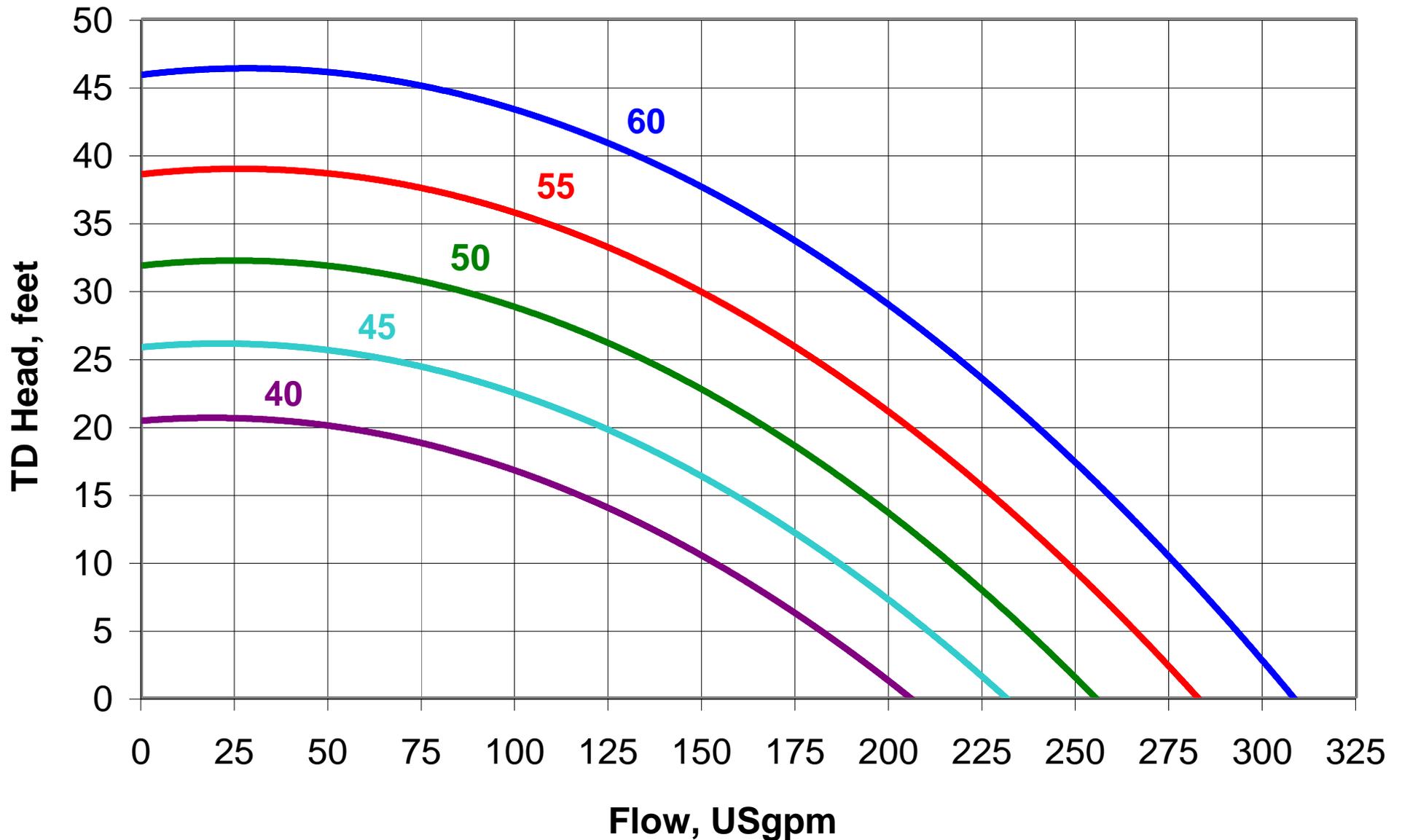
## 2x3x6 Performance - 2 Pole 60Hz and at various frequencies - driven by VFD



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## 2x3x6 Performance - 4 Pole 60Hz and at various frequencies - driven by VFD



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## CHEMICAL

	NORYL	POLYPROPYLENE	STAINLESS STEEL	BUNA-N	VITON	EDPM
POTASSIUM CYANIDE	A	A	A	A	A	A
POTASSIUM DICHROMATE	A	A	A	A	A	A
POTASSIUM FERRICYANIDE	A	A	A	B	A	A
POTASSIUM HYDROXIDE	A	A	B	B	C	A
POTASSIUM NITRATE	A	A	B	A	A	A
POTASSIUM PERMANGANATE	A	AB	A	A	A	A
POTASSIUM SULFATE	A	A	A	A	A	A
POTASSIUM SULFIDE	A	A	A	A	A	A
POTASSIUM SULFITE	A	A	A	-	-	-
PROPYL ACETATE	A	-	A	C	C	A
PROPYL ALCOHOL	A	A	A	A	A	A
PYRIDINE	AC	A	A	C	C	A
SALT BRINE	A	A	B	A	A	A
SEA WATER	A	A	C	A	A	A
SILICONE OIL	A	A	A	A	A	A
SOAP SOLUTIONS	A	A	A	A	A	A
SODIUM ACETATE	A	A	A	B	C	A
SODIUM BICARBONATE	A	A	A	A	A	A
SODIUM BISULFATE	A	A	C	A	A	A
SODIUM BISULFITE	A	A	AB	A	A	A
SODIUM BORATE (Borax)	A	A	B	A	A	A
SODIUM BROMIDE	A	A	C	A	A	A
SODIUM CARBONATE	A	A	B	A	A	A
SODIUM CHLORATE	A	A	A	B	A	A
SODIUM CHLORIDE	A	A	B	A	A	A
SODIUM CHROMATE	A	-	A	A	A	-
SODIUM CYANIDE	A	A	B	A	A	A
SODIUM DICHROMATE	A	A	B	A	A	A
SODIUM FERRICYANIDE	A	A	B	A	A	A
SODIUM FLUORIDE	A	A	C	A	A	A
SODIUM HYDROXIDE	A	A	B	N/R	B	A
SODIUM HYPOCHLORITE	A	A	B	C	A	A
SODIUM NITRATE	A	A	A	A	A	A
SODIUM NITRITE	A	A	B	A	A	A
SODIUM PHOSPHATES	A	A	A	A	A	A
SODIUM SILICATE	A	A	A	A	A	A
SODIUM SULFATE	A	A	A	A	A	A
SODIUM SULFIDE	A	A	B	A	A	A
SODIUM SULFITE	A	A	A	A	A	A
SODIUM THIOSULFATE	A	A	A	A	A	-
STANNIC CHLORIDE	A	A	C	A	A	A
STARCH	A	A	A	A	A	A
STEAM	A	A	A	N/R	B	A
STODDARD SOLVENT	C	B	A	A	A	N/R

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## CHEMICAL

	NORYL	POLYPROPYLENE	STAINLESS STEEL	BUNA-N	VITON	EDPM
SUGAR JUICE	A	A	A	A	A	A
SULFOLENE	A	-	-	-	-	-
SULFUR DIOXIDE (wet)	A	AB	C	C	A	A
SULFURIC ACID	B	AB	C	C	A	B
TANNIC ACID	A	A	B	A	A	A
TANNING LIQUOR	A	A	A	C	A	A
TARTARIC ACID	A	A	B	A	A	B
TETRAHYDROFURAN	C	B	A	C	C	N/R
TOLUENE (Toluol)	C	BC	A	C	A	N/R
TRICHLORACETIC ACID	A	A	C	C	C	A
TRICHLORETHYLENE	C	C	A	C	A	N/R
TRICHLOROTRI-FLUOROETHANE (Freon 113)	C	-	A	A	A	N/R
TRITHANOLAMINE	A	C	A	C	C	-
TRISODIUM PHOSPHATE	A	A	A	A	A	A
TURPENTINE	A	B	A	C	A	N/R
UREA	A	A	A	A	A	A
URINE	A	A	A	A	A	A
VINEGAR	A	A	A	C	A	A
WATER, DISTILLED	A	A	A	A	A	A
WATER, DE-IONIZED	A	A	A	A	A	A
WATER, DE-MINERALIZED	A	A	A	A	A	-
WHISKEY	A	A	A	A	A	A
WHITE LIQUOR (Pulp Mill)	A	A	A	A	A	A
WHITE SPIRIT	C	-	-	A	A	N/R
WINE	A	A	A	A	A	A
XYLENE (Xylol, Xylole)	C	C	A	C	A	N/R
ZINC CHLORIDE	A	A	B	A	A	A
ZINC SULFATE	A	A	A	A	A	A