

# SHAKTI PUMP

## WINNERS OF GLOBAL TRUST



**SUBMERSIBLE PUMPS**

**60 Hz CATALOG**  
NORTH AMERICA



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## SHAKTI PUMPS USA LLC.

740, Florida Central Parkway, Suite # 1008, Longwood, FL 32750, USA  
Ph: 407 574 4001, 407 574 2797,  
E-mail : [usa@shaktipumps.com](mailto:usa@shaktipumps.com), Visit us at : [www.shaktipumps.us](http://www.shaktipumps.us)

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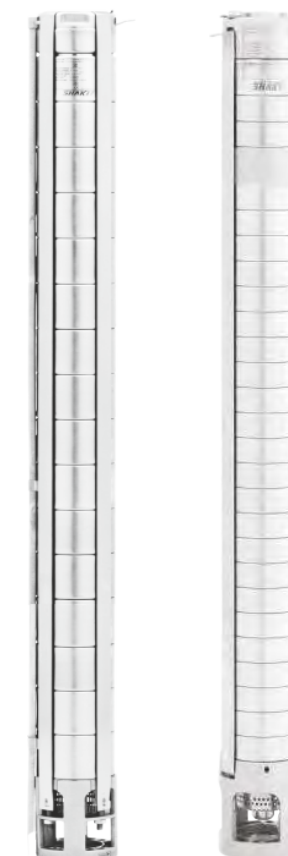
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## 4-inch Submersibles

# Performance Curve And Technical Data

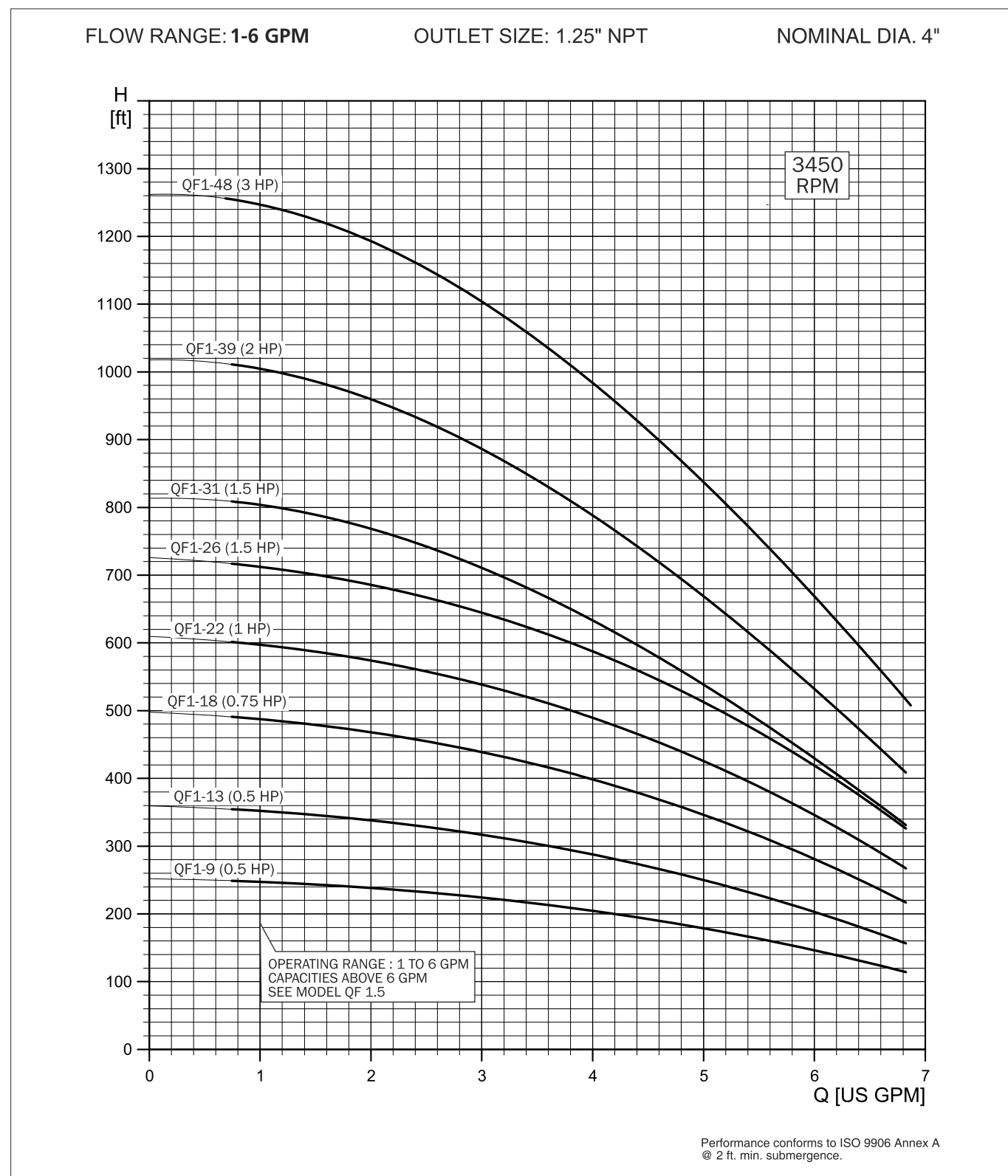
## 4-inch Submersibles



### PERFORMANCE CURVE

5 GPM

MODEL QF 1



### TECHNICAL DATA

5 GPM

MODEL QF 1

#### DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF1-9	A	0.50	4"	1.25" NPT	24.57	11.03	13.55	3.74	3.97	21.6
QF1-13	A	0.50	4"	1.25" NPT	27.88	11.03	16.86	3.74	3.97	26.9
QF1-18	A	0.75	4"	1.25" NPT	32.60	11.62	20.99	3.74	3.97	29.7
QF1-22	A	1	4"	1.25" NPT	36.50	12.21	24.30	3.74	3.97	32.4
QF1-26	A	1.5	4"	1.25" NPT	41.30	13.71	27.60	3.74	3.97	41.4
QF1-31	A	1.5	4"	1.25" NPT	47.21	13.71	33.51	3.74	3.97	47.7
QF1-39	B	2	4"	1.25" NPT	53.82	13.71	40.12	3.74	3.97	57.6
QF1-48	B	3	4"	1.25" NPT	65.56	18.00	47.56	3.74	3.97	77.4

NOTES: All models suitable for use in 4" wells.  
Weights include pump end with motor in lbs.

#### MATERIALS OF CONSTRUCTION

COMPONENT	SPLINE SHAFT
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Pump Shaft	304 L Stainless Steel
Straps	316 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	304 Stainless Steel
Check Valve Seat	NBR
Top Bearing	NBR
Impeller Seal Ring	NBR/PBT
Intermediate Bearings	NBR

NOTES: Specifications subject to change without notice.

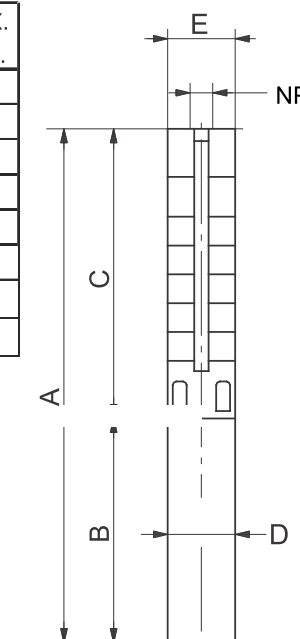


Fig. A

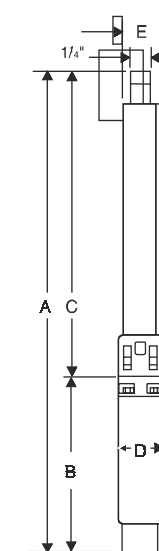
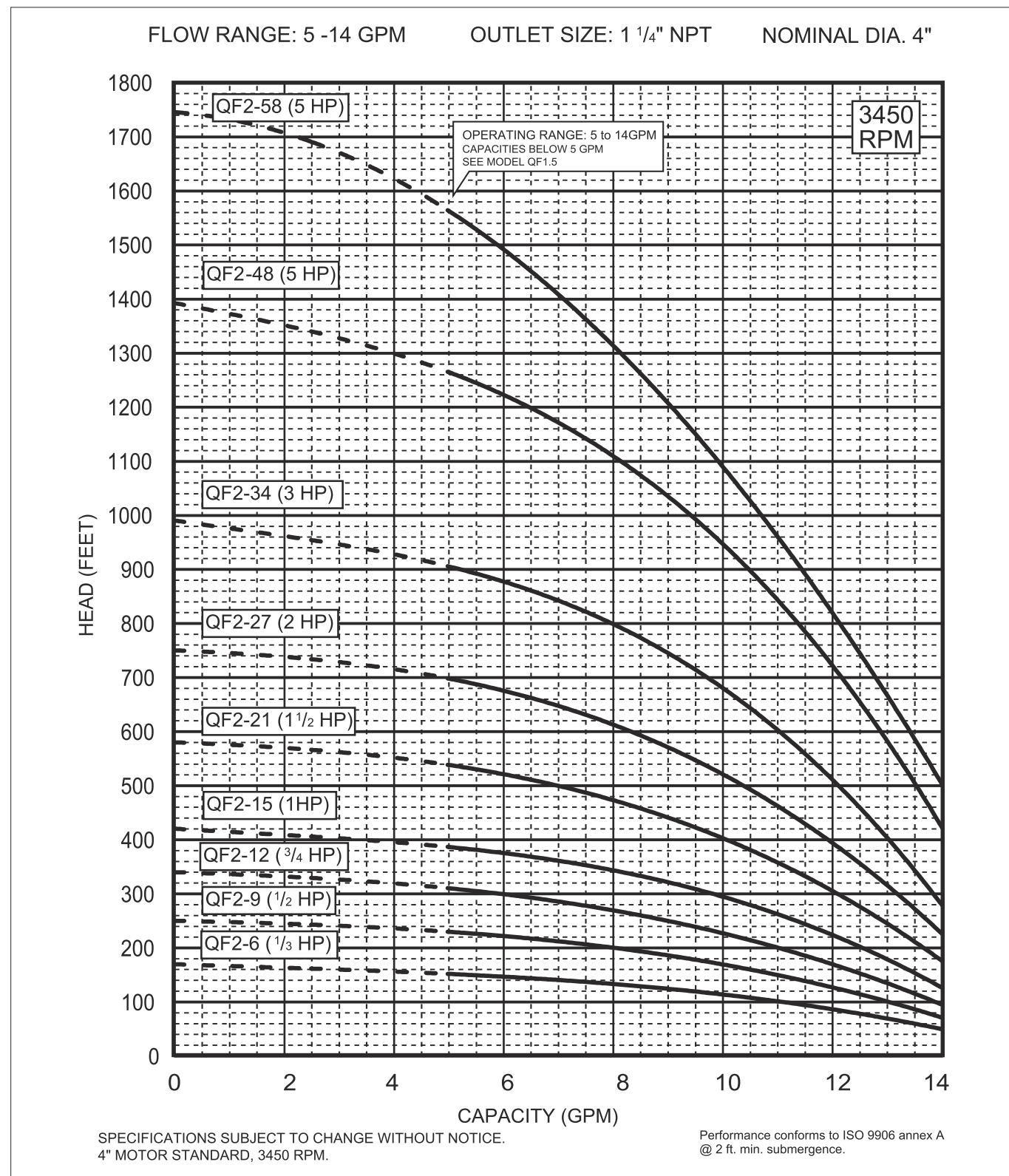


Fig. B

**PERFORMANCE CURVE 10 GPM MODEL QF 2**

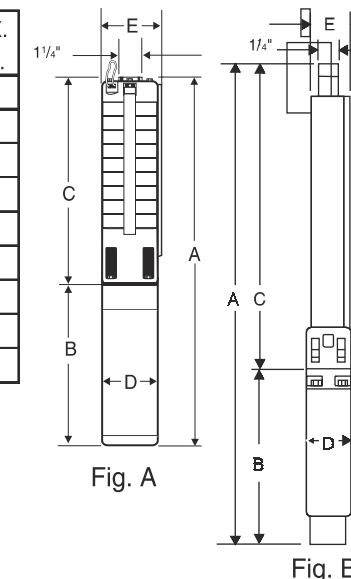


**TECHNICAL DATA 10 GPM MODEL QF 2**

**DIMENSIONS AND WEIGHTS**

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF 2-6	A	1/3	4"	1 1/4" NPT	19.9	8.8	11.1	3.8	3.9	26
QF 2-9	A	1/2	4"	1 1/4" NPT	23.0	9.5	13.5	3.8	3.9	29
QF 2-12	A	3/4	4"	1 1/4" NPT	26.7	10.7	16.0	3.8	3.9	32
QF 2-15	A	1	4"	1 1/4" NPT	30.3	11.8	18.5	3.8	3.9	34
QF 2-21	A	1 1/2	4"	1 1/4" NPT	37.1	13.6	23.5	3.8	3.9	44
QF 2-27	A	2	4"	1 1/4" NPT	43.5	15.1	28.4	3.8	3.9	49
QF 2-34	A	3	4"	1 1/4" NPT	54.7	20.6	34.1	3.8	3.9	83
QF 2-48	A	5	4"	1 1/4" NPT	71.3	23.6	47.7	3.8	3.9	115
QF 2-58*	B	5	4"	1 1/4" MPT	88.2	23.6	64.5	3.8	4.3	142

NOTES: All models suitable for use in 4" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\* Built into sleeve 1 1/4" MPT discharge, 5" min. well dia.



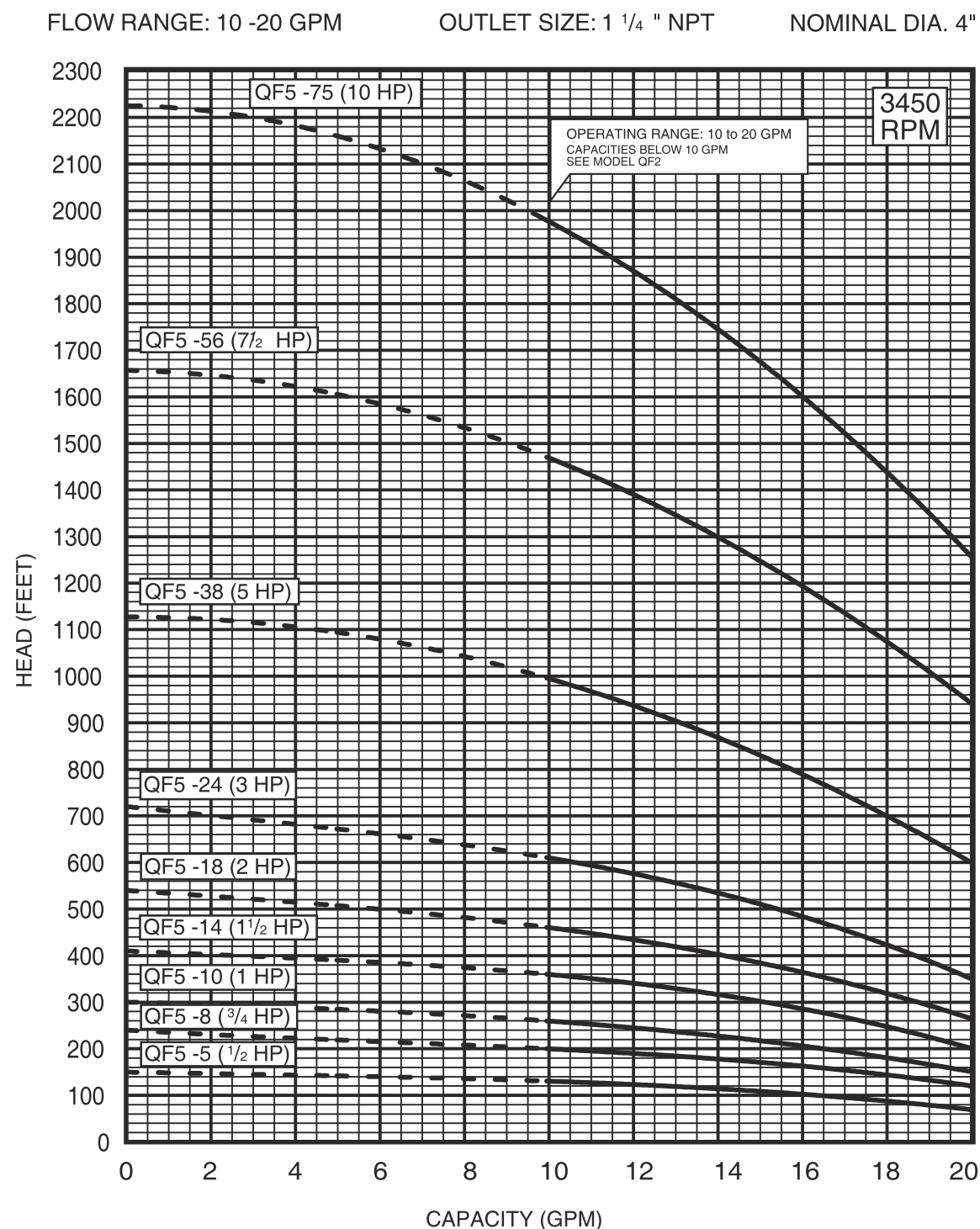
**MATERIALS OF CONSTRUCTION**

COMPONENT	SPLINED SHAFT (6-27 Stgs.)	CYLINDRICAL SHAFT (34-48 Stgs.)	DEEP SET (58 Stgs.)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Pump Shaft	304 L Stainless Steel	304 L Stainless Steel	304 L Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Coupling	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve Seat	NBR	NBR	NBR
Top Bearing	NBR	NBR	NBR
Impeller Seal Ring	NBR/PBT	NBR/PPS	NBR/PPS
Intermediate Bearings	NBR	NBR	NBR
Shaft Washer	Not Required	LCP	LCP
Split Cone	Not Required	304 Stainless Steel	30 Stainless Steel
Split Cone Nut	Not Required	304 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	Not Required	304 Stainless Steel
Sleeve Flange	Not Required	Not Required	Zincless Bronze*

NOTES: Specifications subject to change without notice.  
\* Stainless Steel option available.



**PERFORMANCE CURVE      16 GPM      MODEL QF 5**



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
4" MOTOR STANDARD, .5-5 HP/3450 RPM.  
6" MOTOR STANDARD, 7.5-10HP/3450 RPM.

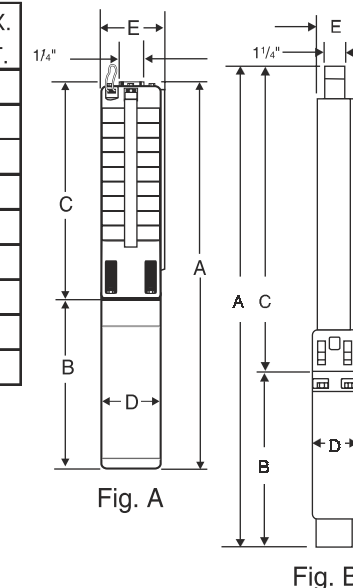
Performance conforms to ISO 9906 Annex A  
@ 2 ft. min. submergence.

**TECHNICAL DATA      16 GPM      MODEL QF 5**

**DIMENSIONS AND WEIGHTS**

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF 5 -5	A	1/2	4"	1 1/4" NPT	19.7	9.5	10.2	3.8	3.9	27
QF 5 -8	A	3/4	4"	1 1/4" NPT	23.4	10.7	12.7	3.8	3.9	29
QF 5 -10	A	1	4"	1 1/4" NPT	26.2	11.8	14.4	3.8	3.9	32
QF 5 -14	A	1 1/2	4"	1 1/4" NPT	32.8	15.1	17.7	3.8	3.9	36
QF 5 -18	A	2	4"	1 1/4" NPT	36.0	15.1	20.9	3.8	3.9	40
QF 5 -24	A	3	4"	1 1/4" NPT	46.5	20.6	25.9	3.8	3.9	64
QF 5 -38	A	5	4"	1 1/4" NPT	61.1	23.6	37.5	3.8	3.9	94
QF 5 -56*	B	7 1/2	6"	1 1/4" MPT	93.0	24.2	68.8	5.4	4.6	220
QF 5 -75*	B	10	6"	1 1/4" MPT	109.9	25.4	84.5	5.4	4.6	245

NOTES: All models suitable for use in 4" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\* Built into sleeve 1 1/4" MPT discharge, 6" min. well dia.

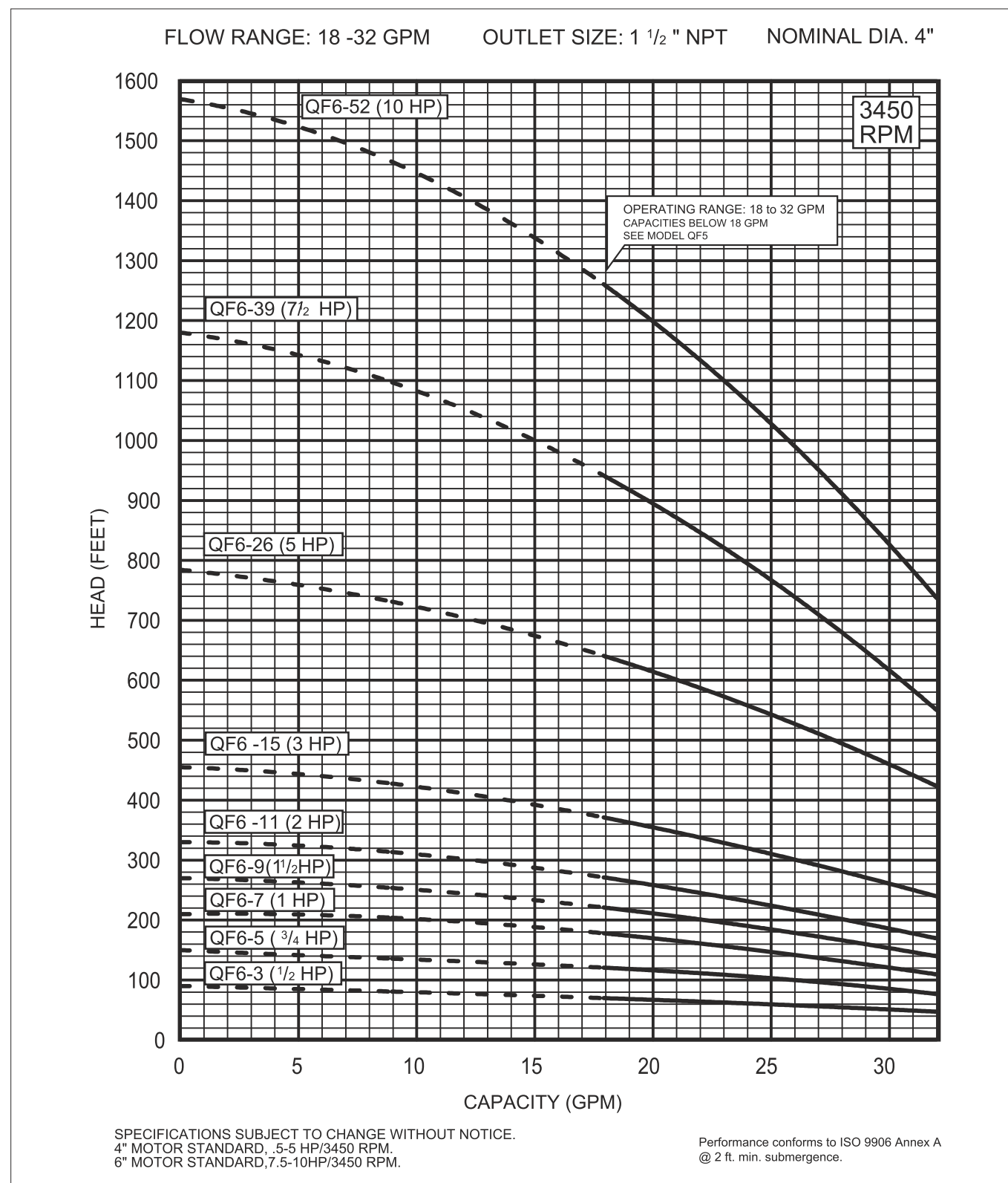


**MATERIALS OF CONSTRUCTION**

COMPONENT	SPLINED SHAFT (5-24 Stgs.)	CYLINDRICAL SHAFT (38 Stgs.)	DEEP SET (56-75 Stgs.)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Pump Shaft	304 L Stainless Steel	304 L Stainless Steel	304 L Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Coupling	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve Seat	NBR	NBR	NBR
Top Bearing	NBR	NBR	NBR
Impeller Seal Ring	NBR/PBT	NBR/PPS	NBR/PPS
Intermediate Bearings	NBR	304 Stainless Steel	NBR/316 Stainless Steel
Shaft Washer	Not Required	LCP	LCP
Split Cone	Not Required	304 Stainless Steel	304 Stainless Steel
Split Cone Nut	Not Required	304 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	Not Required	304 Stainless Steel
Sleeve Flange	Not Required	Not Required	Zincless Bronze*
Coupling Key	Not Required	Not Required	316 Stainless Steel

NOTES: Specifications are subject to change without notice.  
\*Stainless Steel option available.

**PERFORMANCE CURVE      25 GPM      MODEL QF 6**

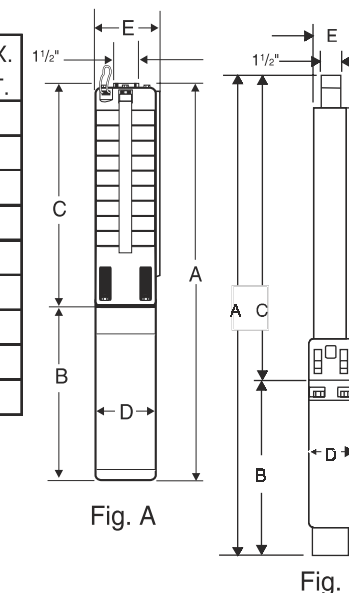


**TECHNICAL DATA      25GPM      MODEL QF 6**

**DIMENSIONS AND WEIGHTS**

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF 6 -3	A	1/2	4"	1 1/2" NPT	18.1	9.5	8.6	3.8	3.9	26
QF 6 -5	A	3/4	4"	1 1/2" NPT	20.9	10.7	10.2	3.8	3.9	28
QF 6 -7	A	1	4"	1 1/2" NPT	23.7	11.8	11.9	3.8	3.9	29
QF 6 -9	A	1 1/2	4"	1 1/2" NPT	27.1	13.6	13.5	3.8	3.9	34
QF 6 -11	A	2	4"	1 1/2" NPT	30.3	15.1	15.2	3.8	3.9	37
QF 6 -15	A	3	4"	1 1/2" NPT	39.1	20.6	18.5	3.8	3.9	59
QF 6 -26	A	5	4"	1 1/2" NPT	51.2	23.6	27.6	3.8	3.9	76
QF 6 -39*	A	7 1/2	6"	1 1/2" NPT	66.8	24.2	42.6	5.4	4.6	168
QF 6 -52*	B	10	6"	1 1/2" MPT	90.9	25.4	65.5	5.4	5.4	226

NOTES: All models suitable for use in 4" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\* Built into sleeve 1 1/2" MPT discharge, 6" min. well dia.



**MATERIALS OF CONSTRUCTION**

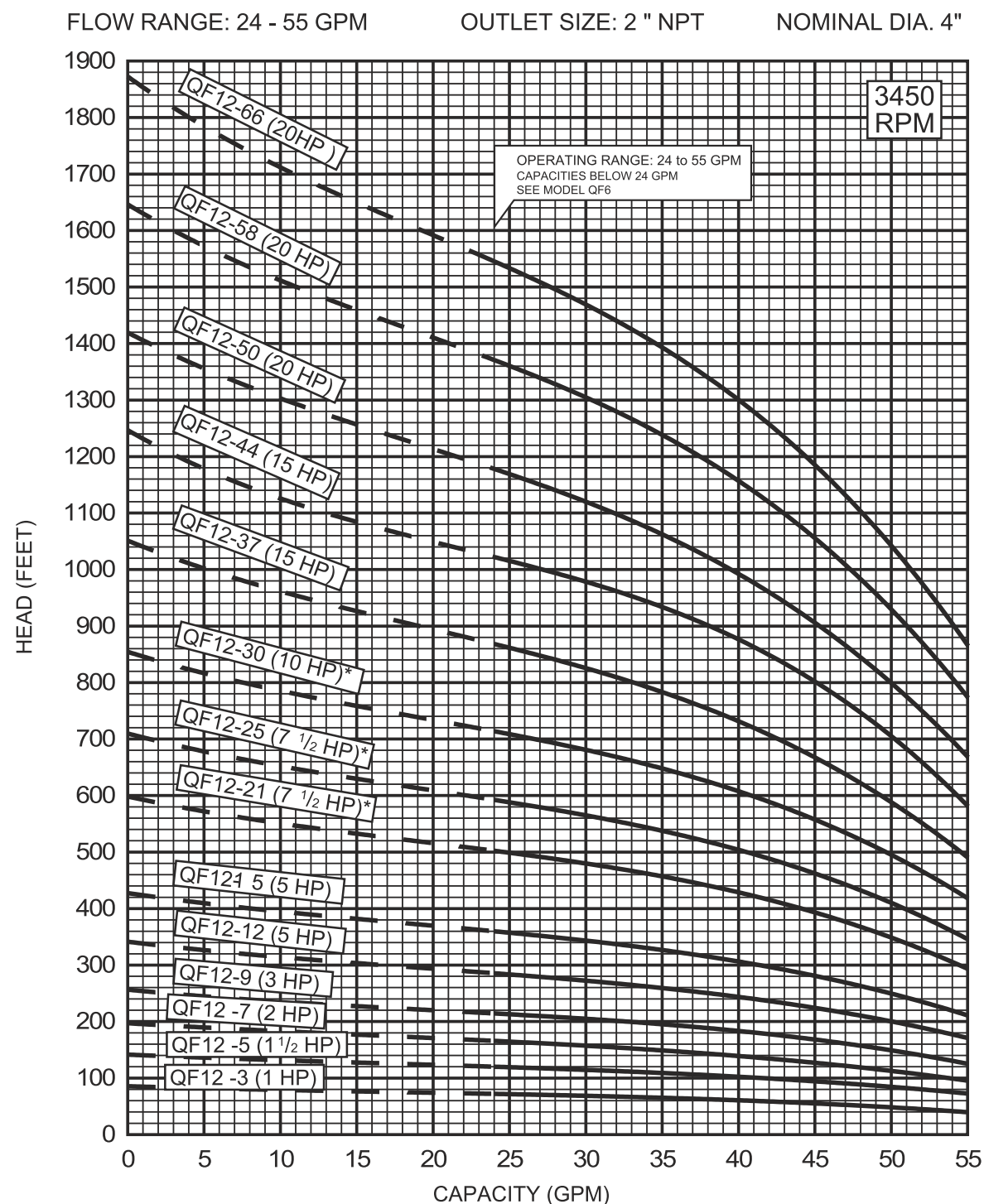
COMPONENT	SPLINED SHAFT (3-26 Stgs.)	CYLINDRICAL SHAFT (39 Stgs.)	DEEP SET (52 Stgs)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Pump Shaft	304 L Stainless Steel	304 L Stainless Steel	304 L Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Coupling	304 Stainless Steel	304 Stainless Steel	304 Stainless Steel
Check Valve Seat	NBR	NBR	NBR
Top Bearing	NBR	NBR	NBR
Impeller Seal Ring	NBR/PBT	NBR/PPS	NBR/PPS
Intermediate Bearings	NBR	NBR	NBR
Shaft Washer	Not Required	LCP	LCP
Split Cone	Not Required	304 Stainless Steel	304 Stainless Steel
Split Cone Nut	Not Required	304 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	Not Required	304 Stainless Steel
Sleeve Flange	Not Required	Not Required	Zincless Bronze*
Coupling Key	Not Required	Not Required	316 Stainless Steel

NOTES: Specifications are subject to change without notice.  
\*Stainless Steel option available.

### PERFORMANCE CURVE

40 GPM

MODEL QF 12



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
4" MOTOR STANDARD, 1-10 HP/3450 RPM.  
6" MOTOR STANDARD, 15-20 HP/3450 RPM.  
\* Also available with 6" motor.

Performance conforms to ISO 9906 Annex A  
@ 5 ft. min. submergence.

### TECHNICAL DATA

40 GPM

MODEL QF 12

#### DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF12-3	A	1	4"	2" NPT	24.6	11.8	12.8	3.8	3.9	32
QF12-5	A	1 1/2	4"	2" NPT	29.7	13.6	16.1	3.8	3.9	37
QF12-7	A	2	4"	2" NPT	34.5	15.1	19.4	3.8	3.9	41
QF12-9	A	3	4"	2" NPT	43.3	20.6	22.7	3.8	3.9	65
QF12-12	A	5	4"	2" NPT	51.3	23.6	27.7	3.8	3.9	78
QF12-15	A	5	4"	2" NPT	56.2	23.6	32.6	3.8	3.9	84
QF12-21*	A	7 1/2	4"	2" NPT	74.6	29.6	45.0	3.8	3.9	120
QF12-25*	A	7 1/2	4"	2" NPT	81.2	29.6	51.6	3.8	3.9	124
QF12-30*	A	10	4"	2" NPT	103.7	43.9	59.8	3.8	3.9	181
QF12-37	A	15	6"	2" NPT	99.5	28.0	71.5	5.4	5.4	244
QF12-44	A	15	6"	2" NPT	111.0	28.0	83.0	5.4	5.4	340
QF12-50**	B	20	6"	2" MPT	136.0	30.6	105.4	5.4	5.5	319
QF12-58**	B	20	6"	2" MPT	149.2	30.6	118.6	5.4	5.5	334
QF12-66**	B	20	6"	2" MPT	162.4	30.6	131.8	5.4	5.5	394

NOTES: All models suitable for use in 4" wells, unless otherwise noted.

Weights include pump end with motor in lbs.

\* Also available with 6" motor.

\*\* Built into sleeve 2" MPT discharge, 6" min. well dia.

#### MATERIALS OF CONSTRUCTION

COMPONENT	CYLINDRICAL SHAFT (3-44 Stgs.)	DEEP SET (50-66 Stgs.)
Check Valve Housing	304 Stainless Steel	304 Stainless Steel
Check Valve	304 Stainless Steel	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel	304 Stainless Steel
Impeller	304 Stainless Steel	304 Stainless Steel
Suction Interconnector	304 Stainless Steel	304 Stainless Steel
Inlet Screen	304 Stainless Steel	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel	Duplex Stainless Steel
Straps	304 Stainless Steel	304 Stainless Steel
Cable Guard	304 Stainless Steel	304 Stainless Steel
Priming Inducer	304 Stainless Steel	304 Stainless Steel
Coupling	304 Stainless Steel	304 Stainless Steel
Check Valve Seat	NBR	NBR
Top Bearing	NBR	NBR
Impeller Seal Ring	NBR	NBR
Intermediate Bearings	NBR	NBR
Shaft Upthrust Washer	LCP	LCP
Split Cone	304 Stainless Steel	304 Stainless Steel
Split Cone Nut	304 Stainless Steel	304 Stainless Steel
Sleeve	Not Required	304 Stainless Steel
Sleeve Flange	Not Required	Zinc less bronze*

NOTES: Specifications are subject to change without notice.

\*Stainless Steel option available.

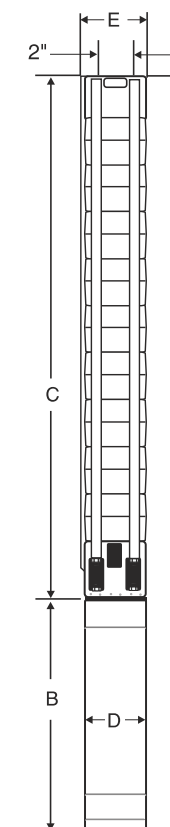


Fig. A

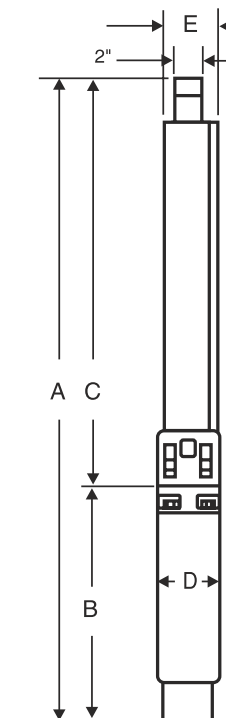
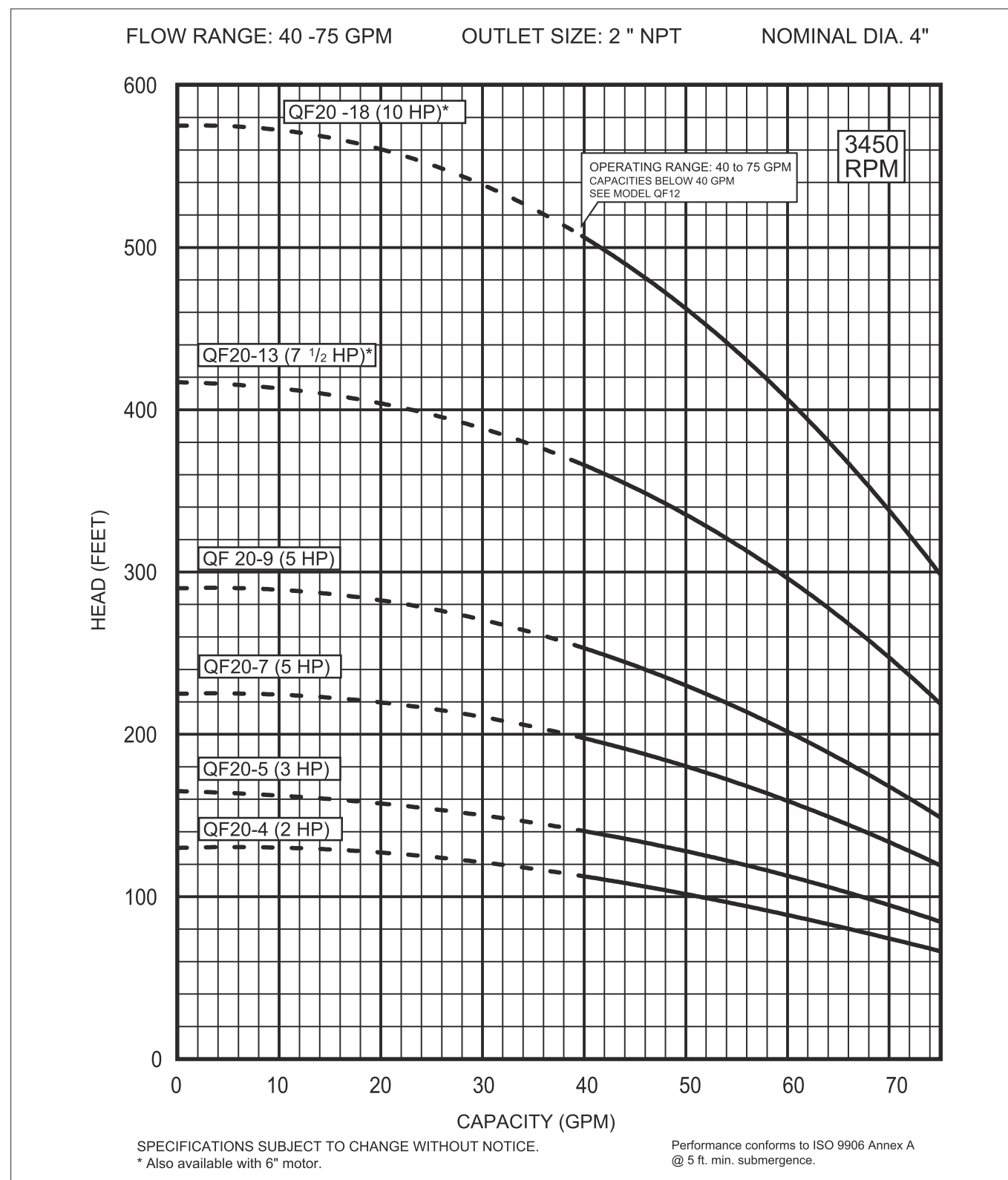


Fig. B

**PERFORMANCE CURVE      60 GPM      MODEL QF 20**



**TECHNICAL DATA      60 GPM      MODEL QF 20**

**DIMENSIONS AND WEIGHTS**

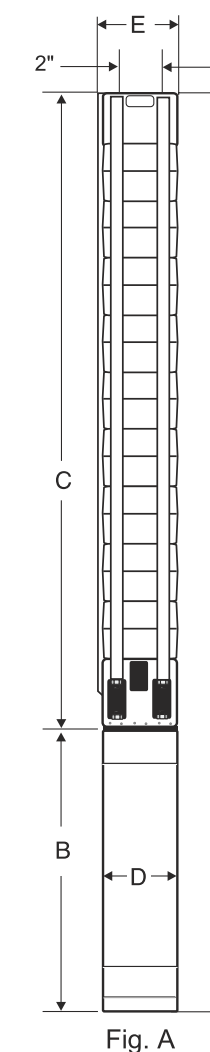
MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF 20-4	A	2	4"	2" NPT	32.6	15.1	17.5	3.8	3.9	39
QF 20-5	A	3	4"	2" NPT	40.7	20.6	20.1	3.8	3.9	64
QF 20-7	A	5	4"	2" NPT	48.8	23.6	25.2	3.8	3.9	75
QF 20-9	A	5	4"	2" NPT	53.9	23.6	30.3	3.8	3.9	80
QF 20-13*	A	7 1/2	4"	2" NPT	70.1	29.6	40.5	3.8	3.9	105
QF 20-18*	A	10	4"	2" NPT	97.3	43.9	53.4	3.8	3.9	160

NOTES: All models suitable for use in 4" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\* Also available with 6" motor.

**MATERIALS OF CONSTRUCTION**

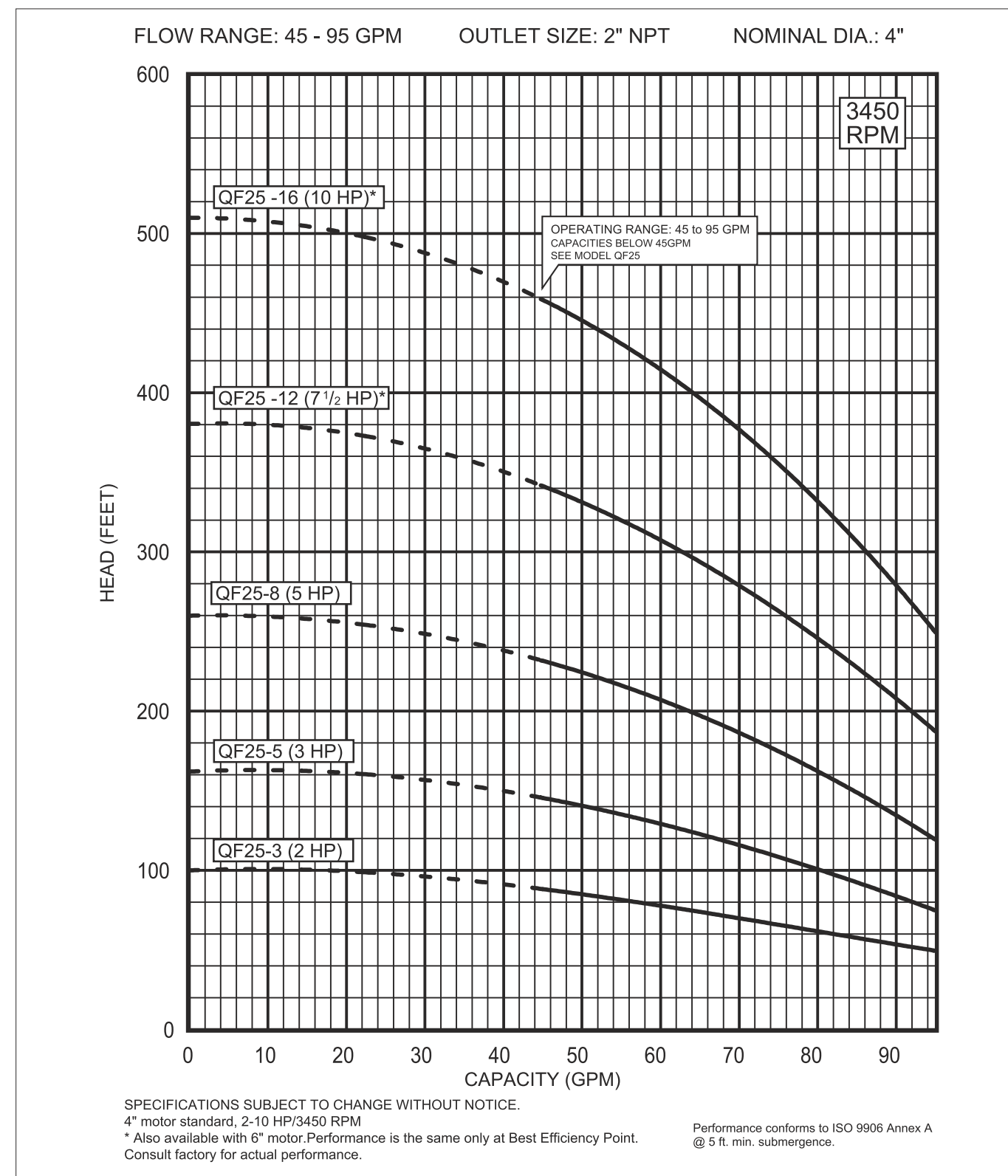
COMPONENT	CYLINDRICAL SHAFT (4-18 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	304 Stainless Steel
Check Valve Seat	NBR
Top Bearing	NBR
Impeller Seal Ring	NBR
Intermediate Bearings	NBR
Shaft Washer	LCP
Split Cone	304 Stainless Steel
Split Cone Nut	304 Stainless Steel

NOTES: Specifications are subject to change without notice.





**PERFORMANCE CURVE 75 GPM MODEL QF 25**



**PERFORMANCE CURVE 75 GPM MODEL QF 25**

**DIMENSIONS AND WEIGHTS**

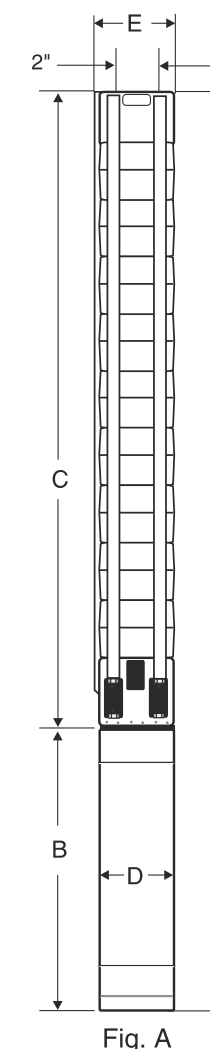
MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF25-3	A	2	4"	2" NPT	30.0	15.1	14.9	3.8	3.9	38
QF25-5	A	3	4"	2" NPT	40.7	20.6	20.1	3.8	3.9	64
QF25-8	A	5	4"	2" NPT	51.4	23.6	27.8	3.8	3.9	78
QF25-12*	A	7 1/2	4"	2" NPT	67.5	29.6	37.9	3.8	3.9	100
QF25-16*	A	10	4"	2" NPT	92.1	43.9	48.2	3.8	3.9	155

NOTES: All models suitable for use in 4" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\* Also available with 6" motor. Performance is the same only at Best Efficiency Point.  
Consult factory for actual performance.

**MATERIALS OF CONSTRUCTION**

COMPONENT	CYLINDRICAL SHAFT (3-16 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	304 Stainless Steel
Check Valve Seat	NBR
Top Bearing	NBR
Impeller Seal Ring	NBR
Intermediate Bearings	NBR
Shaft Washer	LCP
Split Cone	304 Stainless Steel
Split Cone Nut	304 Stainless Steel

NOTES: Specifications are subject to change without notice.





## 6- Inch,8- Inch & 10-Inch SUBMERSIBLES

# Performance Curve And Technical Data

## 6- Inch,8- Inch & 10-Inch Submersibles



## TECHNICAL DATA

85 GPM

MODEL QF 30

### DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES					APPROX. SHIP WT.
					A	B	C	D	E	
QF30 -1	A	1 1/2	4"	3" NPT	25.9	13.6	12.3	3.75	5.2	37
QF30 -2	A	3	4"	3" NPT	35.3	20.6	14.7	3.75	5.2	61
QF30 -3	A	5	4"	3" NPT	40.7	23.6	17.1	3.75	5.2	75
QF30 -4	A	5	4"	3" NPT	43.1	23.6	19.5	3.75	5.2	77
QF30 -5	A	7 1/2	4"	3" NPT	51.5	29.6	21.9	3.75	5.2	95
QF30 -6	A	7 1/2	4"	3" NPT	53.9	29.6	24.3	3.75	5.2	97
QF30 -7	A	10	4"	3" NPT	70.5	43.9	26.6	3.75	5.2	151
QF30 -8	A	10	4"	3" NPT	72.9	43.9	29.0	3.75	5.2	154
QF30 -9	A	10	4"	3" NPT	75.3	43.9	31.4	3.75	5.2	156
QF30 -5	A	7 1/2	6"	3" NPT	46.7	24.2	22.5	5.38	5.6	135
QF30 -6	A	7 1/2	6"	3" NPT	49.1	24.2	24.9	5.38	5.6	137
QF30 -7	A	10	6"	3" NPT	52.7	25.4	27.3	5.38	5.6	148
QF30 -8	A	10	6"	3" NPT	55.0	25.4	29.6	5.38	5.6	151
QF30 -9	A	10	6"	3" NPT	57.4	25.4	32.0	5.38	5.6	153
QF30 -10	A	15	6"	3" NPT	62.4	28.0	34.4	5.38	5.6	170
QF30 -11	A	15	6"	3" NPT	64.8	28.0	36.8	5.38	5.6	174
QF30 -12	A	15	6"	3" NPT	67.2	28.0	39.2	5.38	5.6	176
QF30 -13	A	15	6"	3" NPT	69.6	28.0	41.6	5.38	5.6	178
QF30 -14	A	20	6"	3" NPT	74.5	30.6	43.9	5.38	5.6	193
QF30 -15	A	20	6"	3" NPT	76.9	30.6	46.3	5.38	5.6	198
QF30 -16	A	20	6"	3" NPT	79.3	30.6	48.7	5.38	5.6	200
QF30 -17	A	20	6"	3" NPT	81.7	30.6	51.1	5.38	5.6	202
QF30 -18	A	20	6"	3" NPT	84.1	30.6	53.5	5.38	5.6	204
QF30 -19	A	25	6"	3" NPT	88.9	33.1	55.8	5.38	5.6	240
QF30 -20	A	25	6"	3" NPT	91.9	33.1	58.2	5.38	5.6	244
QF30 -21	A	25	6"	3" NPT	94.7	33.1	60.6	5.38	5.6	246
QF30 -22	A	25	6"	3" NPT	96.7	33.1	63.0	5.38	5.6	249
QF30 -23	A	30	6"	3" NPT	101.1	35.7	65.4	5.38	5.6	264
QF30 -24	A	30	6"	3" NPT	103.5	35.7	67.8	5.38	5.6	266
QF30 -25	A	30	6"	3" NPT	105.8	35.7	70.1	5.38	5.6	271
QF30 -26	A	30	6"	3" NPT	108.8	35.7	73.1	5.38	5.6	273
QF30 -27	A	30	6"	3" NPT	116.3	40.8	75.5	5.38	5.6	278
QF30 -28	A	40	6"	3" NPT	118.7	40.8	77.9	5.38	5.6	281
QF30 -29	A	40	6"	3" NPT	121.1	40.8	80.7	5.38	5.6	283
QF30 -30	A	40	6"	3" NPT	123.4	40.8	82.6	5.38	5.6	287
QF30 -33*	B	40	6"	3" NPT	139.7	40.8	98.9	5.38	6.9	343
QF30 -36*	B	40	6"	3" NPT	146.9	40.8	106.1	5.38	6.9	354
QF30 -39*	B	50	6"	3" NPT	171.0	57.8	113.2	5.38	6.9	448
QF30 -33*	B	40	8"	3" NPT	134.7	35.8	98.9	7.5	6.9	377
QF30 -36*	B	40	8"	3" NPT	141.9	35.8	106.1	7.5	6.9	390
QF30 -39*	B	50	8"	3" NPT	152.0	38.8	113.2	7.5	6.9	498

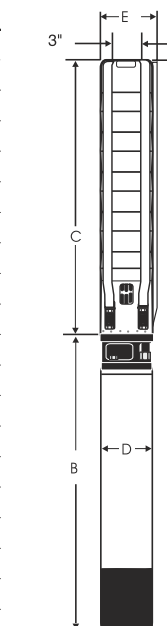


Fig. A

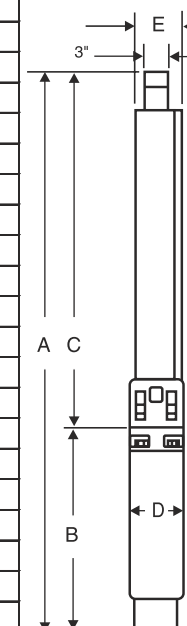


Fig. B

NOTES: All models suitable for use in 6" wells, unless otherwise noted.

Weights include pump end with motor in lbs.

\* Built into sleeve 3" NPT discharge, 8" min. well dia.

### TECHNICAL DATA

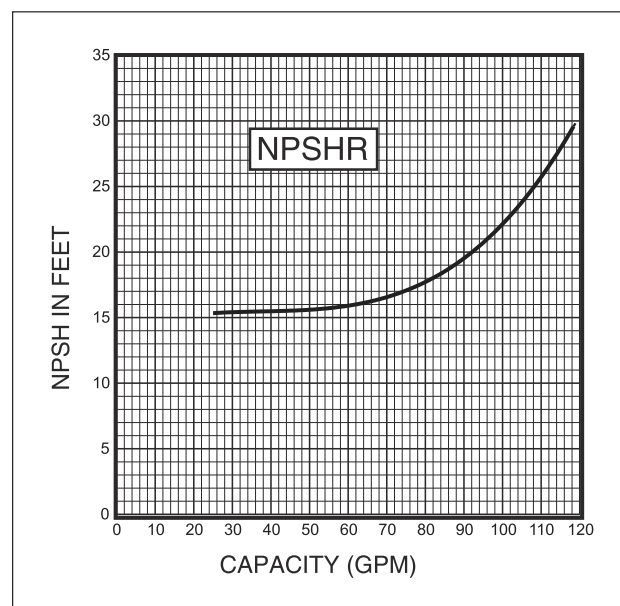
85 GPM

MODEL QF 30

#### MATERIALS OF CONSTRUCTION

COMPONENT	CYLINDRICAL SHAFT (1- 39 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Seal Ring Support	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR/PPS
Check Valve Seat	NBR/304 Stainless Steel
Upthrust Disc	Carbon/Graphite
Upthrust Stop Washer	304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Sleeve *	304 Stainless Steel
Sleeve Flange *	Zinc less bronze

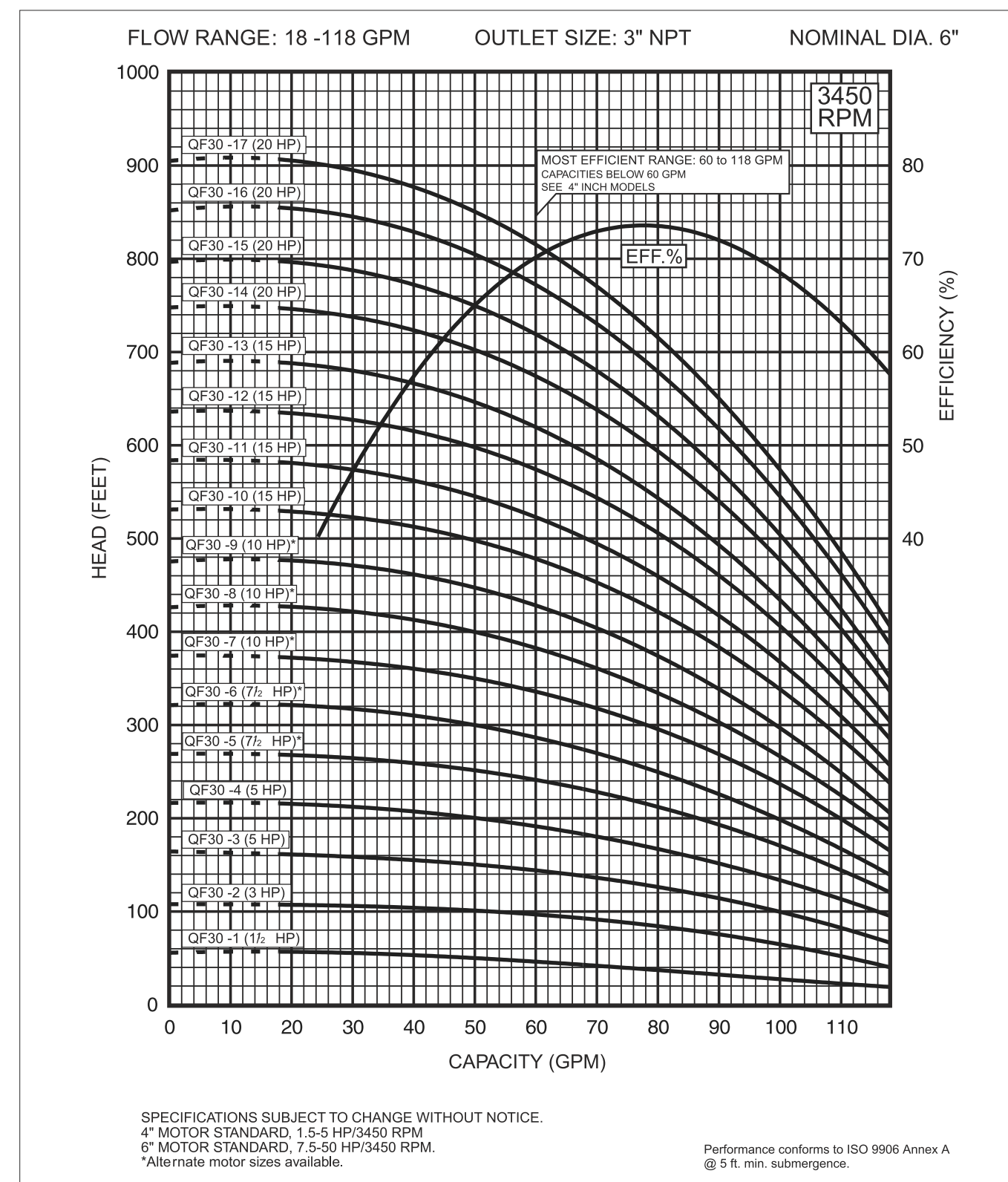
NOTES: Specifications are subject to change without notice.  
\* Required for 33-39 stages.



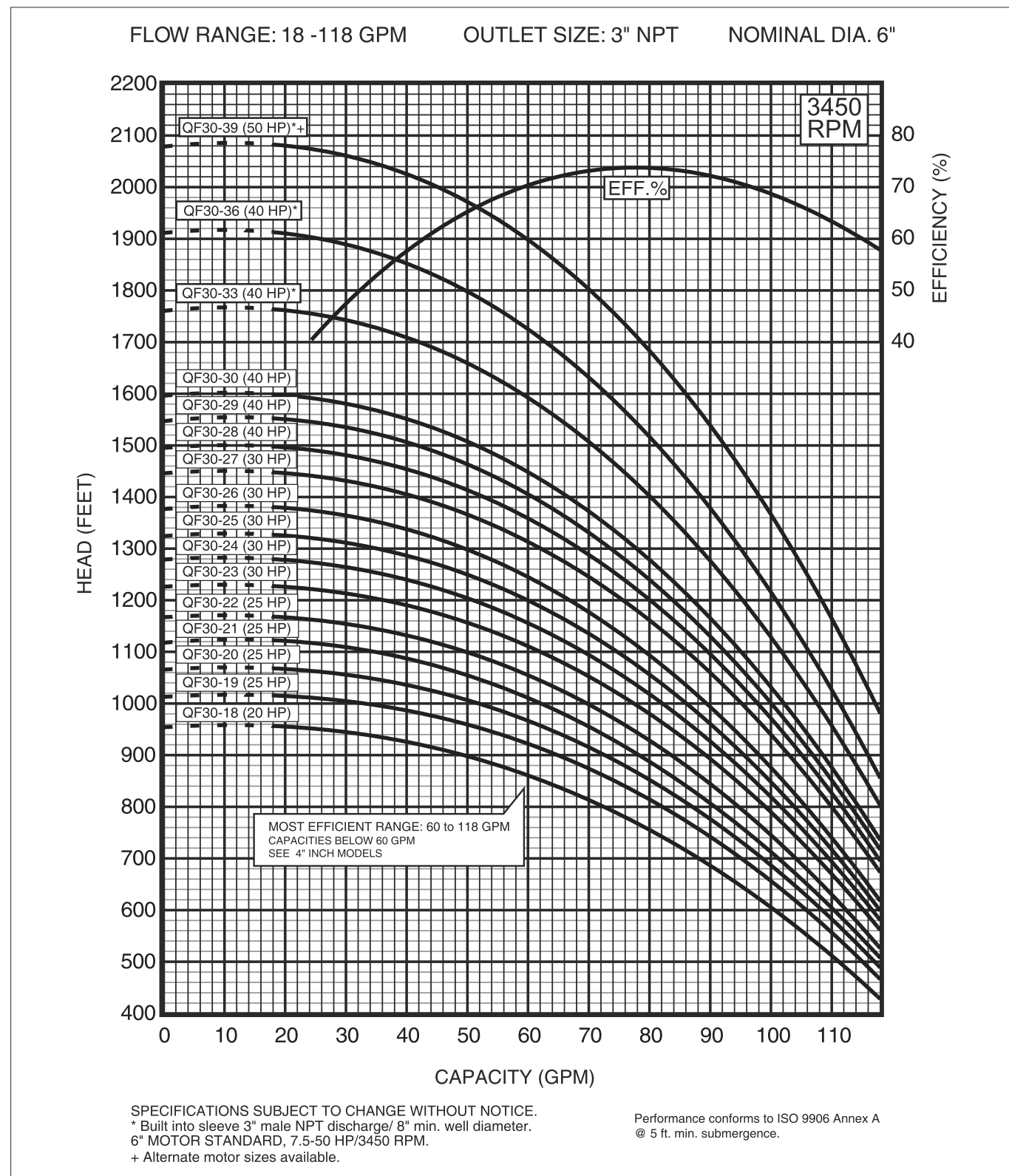
### PERFORMANCE CURVE

85 GPM

MODEL QF 30



**PERFORMANCE CURVE 85 GPM MODEL QF 30**



**TECHNICAL DATA 150 GPM MODEL QF 50**

Dimensions and weight

Model No	Fig	HP	Motor Size	Disch. Size	A	B	C	D	E	Approx ship wt.
QF 50-1	A	2	4"	3" NPT	27.3	13.6	13.7	3.75	5.2	55
QF 50-2	A	5	4"	3" NPT	41.1	23.6	17.5	3.75	5.2	75
QF 50-3	A	7 1/2	4"	3" NPT	50.9	29.6	21.3	3.75	5.2	92
QF 50-4	A	7 1/2	4"	3" NPT	54.7	29.6	25.1	3.75	5.2	97
QF 50-5	A	10	4"	3" NPT	72.8	43.9	28.9	3.75	5.2	151
QF 50-4	A	7 1/2	6"	3" NPT	49.9	24.2	25.7	5.38	5.6	135
QF 50-5	A	10	6"	3" NPT	54.9	25.4	29.5	5.38	5.6	148
QF 50-6	A	15	6"	3" NPT	61.3	28	33.3	5.38	5.6	167
QF 50-7	A	15	6"	3" NPT	65	28	37	5.38	5.6	169
QF 50-8	A	15	6"	3" NPT	68.8	28	40.8	5.38	5.6	174
QF 50-9	A	20	6"	3" NPT	75.2	30.6	44.6	5.38	5.6	191
QF 50-10	A	20	6"	3" NPT	79	30.6	48.4	5.38	5.6	193
QF 50-11	A	20	6"	3" NPT	82.8	30.6	52.2	5.38	5.6	198
QF 50-12	A	25	6"	3" NPT	89	33.1	55.9	5.38	5.6	235
QF 50-13	A	25	6"	3" NPT	92.8	33.1	59.7	5.38	5.6	238
QF 50-14	A	25	6"	3" NPT	96.6	33.1	63.5	5.38	5.6	242
QF 50-15	A	30	6"	3" NPT	103	35.7	67.3	5.38	5.6	260
QF 50-16	A	30	6"	3" NPT	106.8	35.7	71.1	5.38	5.6	262
QF 50-17	A	30	6"	3" NPT	110.5	35.7	74.8	5.38	5.6	266
QF 50-18	A	40	6"	3" NPT	119.4	40.8	78.6	5.38	5.6	306
QF 50-19	A	40	6"	3" NPT	123.2	40.8	82.4	5.38	5.6	308
QF 50-20	A	40	6"	3" NPT	127	40.8	86.2	5.38	5.6	323
QF 50-21	A	40	6"	3" NPT	130.8	40.8	90	5.38	5.7	334
QF 50-22	A	40	6"	3" NPT	134.5	40.8	93.7	5.38	5.7	338
QF 50-23	A	40	6"	3" NPT	138.3	40.8	97.5	5.38	5.7	340
QF 50-24	A	50	6"	3" NPT	162.2	57.8	104.4	5.38	6.1	442
QF 50-25	A	50	6"	3" NPT	166	57.8	108.2	5.38	6.1	444
QF 50-26	A	50	6"	3" NPT	169.8	57.8	112	5.38	6.1	446
QF 50-27	A	50	6"	3" NPT	173.6	57.8	115.8	5.38	6.1	448
QF 50-28	A	50	6"	3" NPT	183.4	63.8	119.6	5.38	7.1	450
QF 50-29	A	60	6"	3" NPT	193.7	63.8	129.9	5.38	7.1	448
QF 50-31	A	60	6"	3" NPT	201.3	63.8	137.5	5.38	7.1	452
QF 50-24	A	50	8"	3" NPT	143.2	38.8	104.4	7.5	7.5	492
QF 50-25	A	50	8"	3" NPT	147	38.8	108.2	7.5	7.5	495
QF 50-26	A	50	8"	3" NPT	150.8	38.8	112	7.5	7.5	497
QF 50-27	A	50	8"	3" NPT	154.6	38.8	115.8	7.5	7.5	499
QF 50-28	A	50	8"	3" NPT	158.4	38.8	119.6	7.5	7.5	501
QF 50-29 *	B	60	8"	3" NPT	169.7	41.8	127.9	7.5	7.5	539
QF 50-31 *	B	60	8"	3" NPT	177.3	41.8	135.5	7.5	7.5	543
QF 50-33 *	B	60	8"	3" NPT	184.8	41.8	149	7.5	7.5	547
QF 50-36 *	B	75	8"	3" NPT	201.8	47.4	154.4	7.5	7.5	592
QF 50-39 *	B	75	8"	3" NPT	213.1	47.4	165.7	7.5	7.5	598

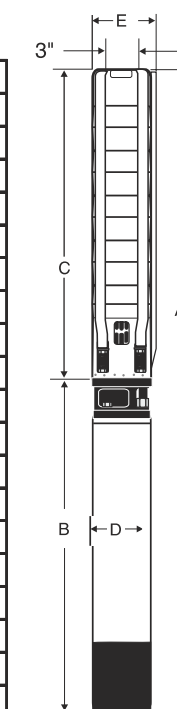


Fig. A

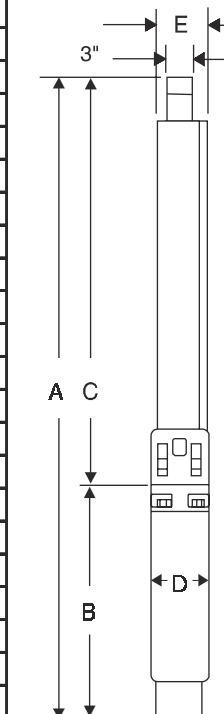


Fig. B

Notes : All models suitable for use in 6" wells, unless otherwise noted.

Weight include pump end with motor in lbs.

\* Built into sleeve 3" NPT discharge, 8" min. well dia.



### TECHNICAL DATA

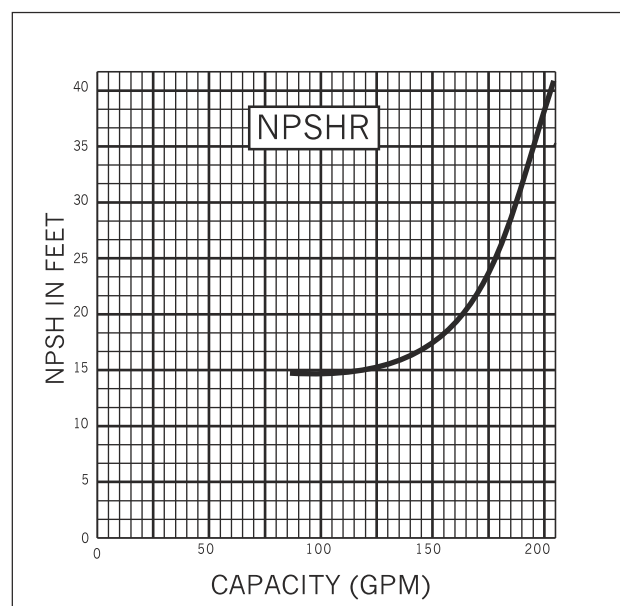
### 150 GPM

### MODEL QF 50

#### MATERIALS OF CONSTRUCTION

COMPONENT	CYLINDRICAL SHAFT (1- 39 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Seal Ring Support	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Priming Inducer	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR/PPS
Check Valve Seat	NBR/304 Stainless Steel
Upthrust Disc	Carbon/Graphite
Upthrust Stop Washer	304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Sleeve *	304 Stainless Steel
Sleeve Flange *	Zinc less broze*

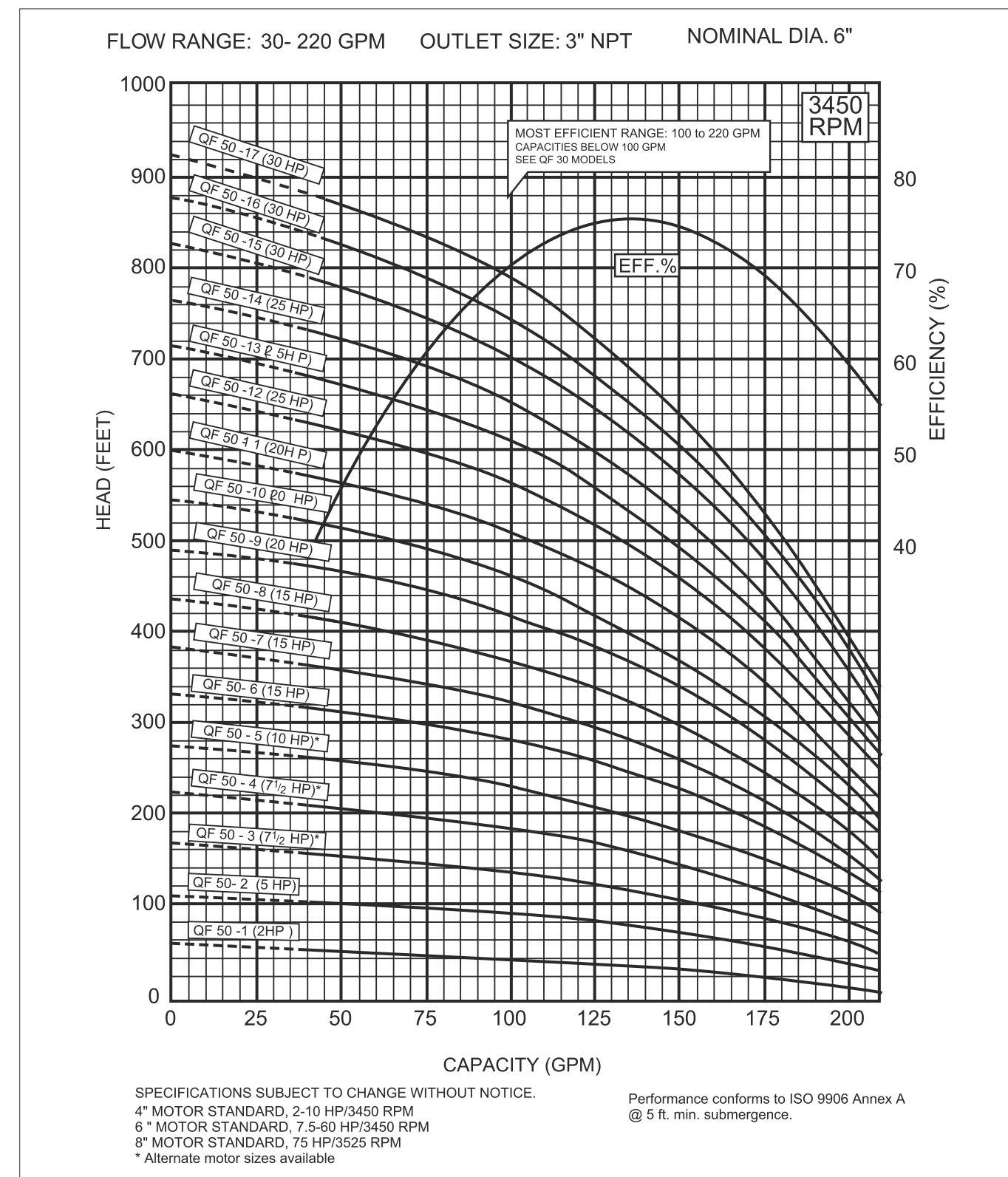
NOTES: Specifications are subject to change without notice.  
 \* Required for 29-39 stages.



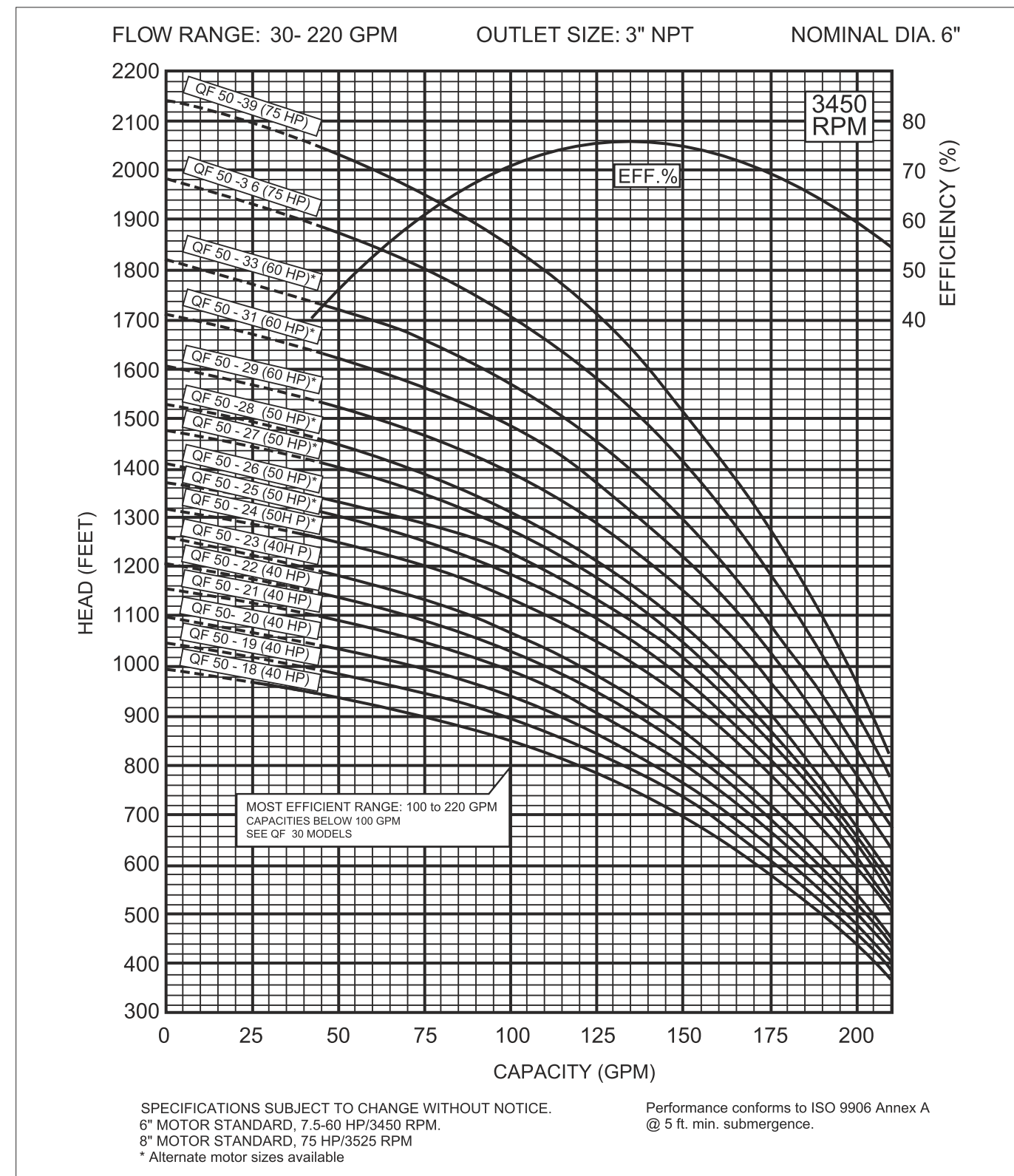
### PERFORMANCE CURVE

### 150 GPM

### MODEL QF 50



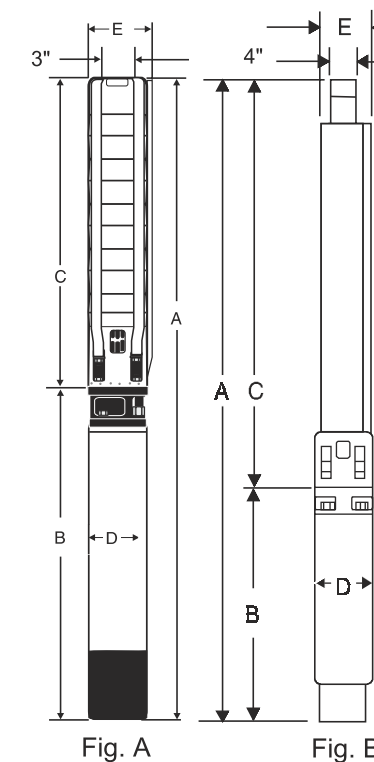
**PERFORMANCE CURVE 150 GPM MODEL QF 50**



**TECHNICAL DATA 230 GPM MODEL QF 75**

**DIMENSIONS AND WEIGHTS**

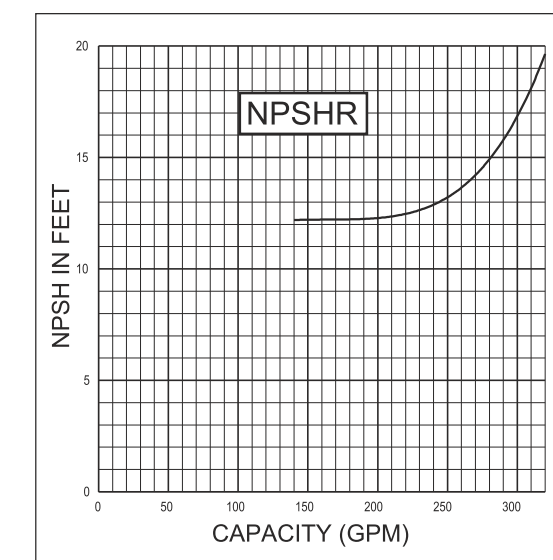
Model No.	FIG	HP	MOTOR SIZE	DISCH. SIZE	DIMENSION IN INCHES					APPROX SHIP WT.
					A	B	C	D	E	
QF75-1B-	A	2	4"	3" NPT	29.7	15.1	14.6	3.8	5.7	44
QF75-1A	A	3	4"	3" NPT	38.2	23.6	14.6	3.8	5.7	55
QF75-1	A	5	4"	3" NPT	44.2	29.6	14.6	3.8	5.7	65
QF75-2AB	A	5	4"	3" NPT	48.5	29.6	18.9	3.8	5.7	71
QF75-2	A	7.5	4"	3" NPT	48.5	29.6	18.9	3.8	5.7	88
QF75-2	A	7.5	6"	3" NPT	43	24.2	18.9	5.4	5.7	124
QF75-3BB	A	7.5	4"	3" NPT	53.5	29.6	23.9	3.8	5.7	96
QF75-3BB	A	7.5	6"	3" NPT	48.1	24.2	23.9	5.4	5.7	96
QF75-3	A	10	4"	3" NPT	67.8	43.9	23.9	3.8	5.7	146
QF75-3	A	10	6"	3" NPT	49.3	25.4	23.9	5.4	5.7	140
QF75-4BC	A	10	4"	3" NPT	72.3	43.9	28.4	3.8	5.7	147
QF75-4BC	A	10	6"	3" NPT	53.8	25.4	28.4	5.4	5.7	147
QF75-4	A	15	6"	3" NPT	56.4	28	28.4	5.4	5.7	161
QF75-5B	A	15	6"	3" NPT	60.8	28	32.8	5.4	5.7	165
QF75-5	A	20	6"	3" NPT	63.4	30.6	32.8	5.4	5.7	167
QF75-6	A	20	6"	3" NPT	67.8	30.6	37.3	5.4	5.7	186
QF75-7C	A	20	6"	3" NPT	67.8	30.6	37.3	5.4	5.7	202
QF75-7	A	25	6"	3" NPT	74.9	33.1	41.7	5.4	5.7	202
QF75-8B	A	25	6"	3" NPT	79.3	33.1	46.2	5.4	5.7	209
QF75-8	A	25	6"	3" NPT	79.3	33.1	46.2	5.4	5.7	209
QF75-9BB	A	25	6"	3" NPT	83.8	33.1	50.6	5.4	5.7	228
QF75-9	A	30	6"	3" NPT	86.3	35.7	50.6	5.4	5.7	228
QF75-10*	A	40	6"	3" NPT	95.9	40.81	55.1	5.4	5.7	234
QF75-11*	A	40	6"	3" NPT	100.3	40.81	59.5	5.4	5.7	273
QF75-12*	A	40	6"	3" NPT	104.4	40.81	64	5.4	5.7	279
QF75-13*	A	40	6"	3" NPT	109.2	40.81	68.4	5.4	5.7	284
QF75-14*	A	50	6"	3" NPT	130.7	57.83	72.9	5.4	5.7	388
QF75-15*	A	50	6"	3" NPT	135.2	57.83	77.3	5.4	5.7	393
QF75-16*	A	50	6"	3" NPT	139.2	57.83	81.8	5.4	5.7	399
QF75-17*	A	60	6"	3" NPT	151.2	63.83	87.4	5.4	5.7	438
QF75-18*	A	60	6"	3" NPT	155.6	63.83	91.8	5.4	5.7	445
QF75-19*	A	60	6"	3" NPT	160.1	63.83	96.3	5.4	5.7	449
QF75-17	A	60	8"	3" NPT	129.2	41.79	87.4	7.5	7.6	544
QF75-18	A	60	8"	3" NPT	133.6	41.79	91.8	7.5	7.6	551
QF75-19	A	60	8"	3" NPT	138	41.79	96.3	7.5	7.6	555
QF75-20**	B	75	8"	4" M-NPT	154.7	47.41	107.3	7.5	7.6	634
QF75-20**	B	75	8"	4" M-NPT	163.6	47.41	116.2	7.5	7.6	681



NOTES: All models suitable for use in 6" wells, unless equipped with 8" motor.  
\* Alternate motor sizes available.  
\*\* Built into sleeve, 4" NPT, 8" motor required. Weights include pump end with motor in lbs.

**MATERIALS OF CONSTRUCTION**

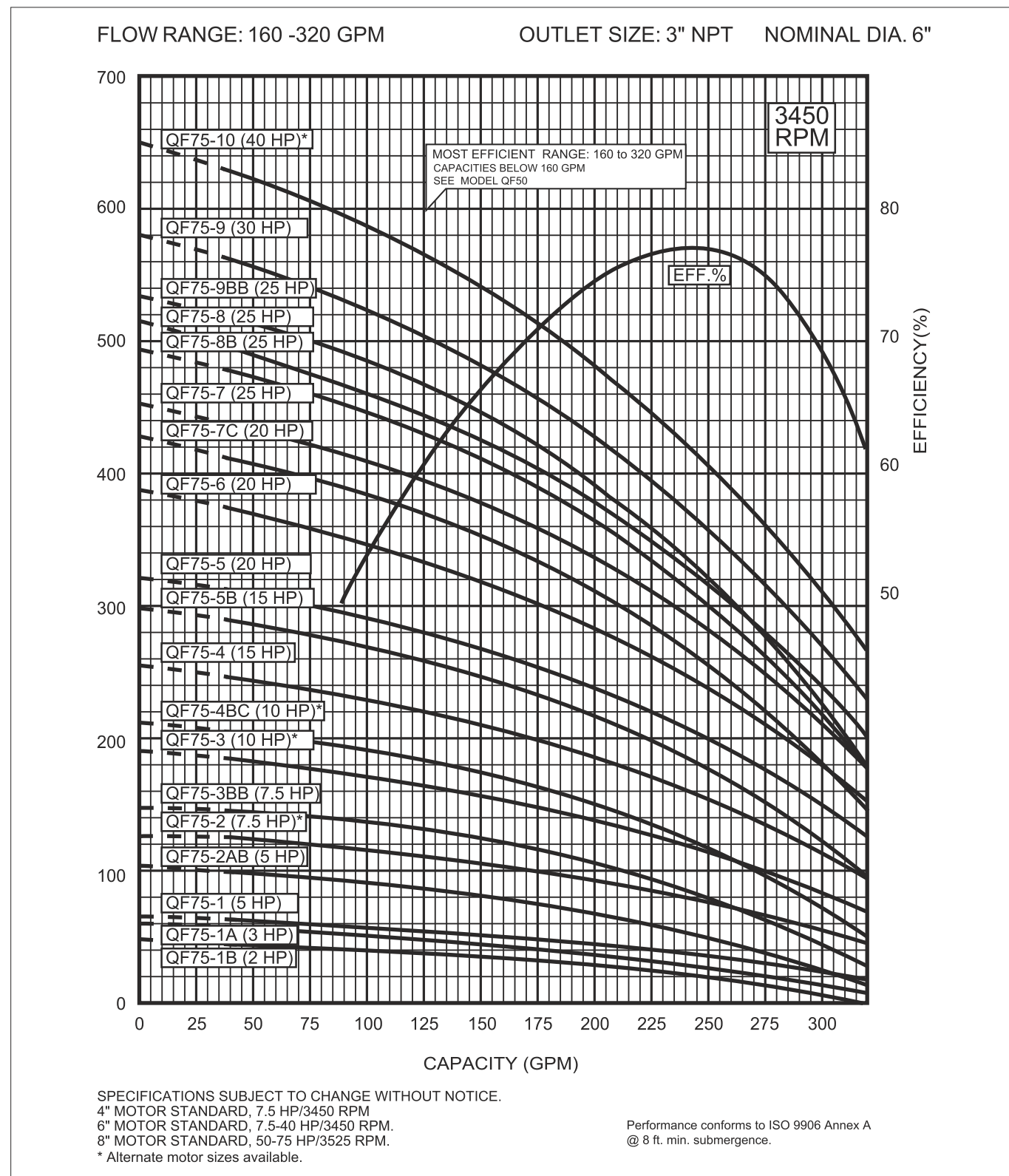
COMPONENT	CYLINDRICAL SHAFT (2-18 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Gurad	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /304 Stainless Steel
Check Valve Seat	NBR /304 Stainless Steel
Top/Lower Bearing	NBR /304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Upthrust stop ring	304 S.S./Tungsten Carbide
Sleeve *	304 Stainless Steel
Sleeve Flange*	Zinc less braze*



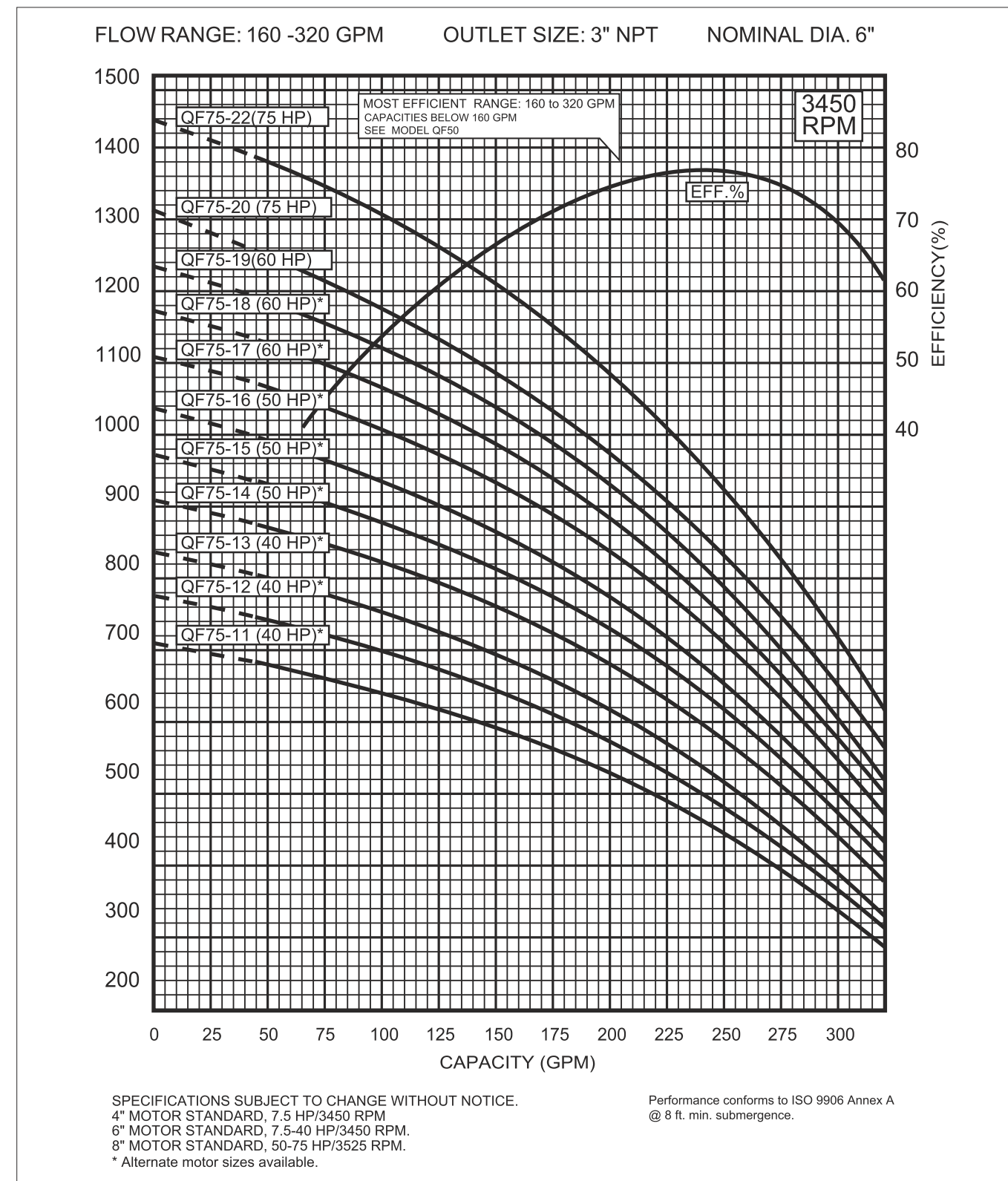
NOTES: Specifications subject to change without notice.  
\* Required for 20-22 stage only.



**PERFORMANCE CURVE 230 GPM MODEL QF 75**



**PERFORMANCE CURVE 230 GPM MODEL QF 75**



### TECHNICAL DATA

### 300 GPM

### MODEL QF 100

#### DIMENSIONS AND WEIGHTS

Model No.	FIG	HP	MOTOR SIZE	DISCH. SIZE	DIMENSION IN INCHES					APPROX SHIP WT.
					A	B	C	D	E	
QF100-1B	A	3	4"	3" NPT	38.1	23.6	14.5	3.8	5.7	65
QF100-1	A	5	4"	3" NPT	44.1	29.6	14.5	3.8	5.7	82
QF100-2BB	A	5	4"	3" NPT	49.1	29.6	19.5	3.8	5.7	87
QF100-2	A	7 1/2	4"	3" NPT	43.5	24	19.5	3.8	5.7	113
QF100-2*	A	7 1/2	6"	3" NPT	49.1	29.6	19.5	5.4	5.7	104
QF100-3A	A	10	4"	3" NPT	67.8	43.9	23.9	3.8	5.7	154
QF100-3A	A	10	6"	3" NPT	49.3	25.4	23.9	5.4	5.7	130
QF100-3	A	15	6"	3" NPT	51.9	28	23.9	5.4	5.7	146
QF100-4AA	A	15	6"	3" NPT	56.4	28	28.4	5.4	5.7	161
QF100-4	A	15	6"	3" NPT	56.4	28	28.4	5.4	5.7	161
QF100-5AA	A	20	6"	3" NPT	63.4	30.6	32.8	5.4	5.7	172
QF100-5	A	20	6"	3" NPT	63.4	30.6	32.8	5.4	5.7	172
QF100-6B	A	20	6"	3" NPT	67.9	30.6	37.3	5.4	5.7	177
QF100-6	A	25	6"	3" NPT	70.4	33.1	37.3	5.4	5.7	192
QF100-7AA	A	25	6"	3" NPT	74.8	33.1	41.7	5.4	5.7	201
QF100-7	A	30	6"	4" NPT	74.8	33.1	41.7	5.4	5.7	220
QF100-8	A	30	6"	4" NPT	81.9	35.7	46.2	5.4	5.7	241
QF100-9B	A	30	6"	4" NPT	81.9	35.7	46.2	5.4	5.7	246
QF100-9*	A	40	6"	4" NPT	91.4	40.8	50.6	5.4	5.7	281
QF100-10*	A	40	6"	4" NPT	95.9	40.8	55.1	5.4	5.7	286
QF100-11*	A	50	6"	4" NPT	117.3	57.8	59.5	5.4	5.7	292
QF100-12*	A	50	6"	4" NPT	116.8	57.8	63.9	5.4	5.7	396
QF100-13*	A	50	6"	4" NPT	126.2	57.8	68.4	5.4	5.7	402
QF100-14*	A	60	6"	4" NPT	135.3	61.3	74	5.4	7.1	447
QF100-15*	A	60	6"	4" NPT	120.3	41.8	78.5	7.5	7.1	484
QF100-16*	A	75	8"	4" NPT	130.3	47.4	82.9	7.5	7.1	540
QF100-17*	A	75	8"	4" NPT	134.8	47.4	87.4	7.5	7.1	544
QF100-18	A	75	8"	4" NPT	139.2	47.4	91.8	7.5	7.1	626

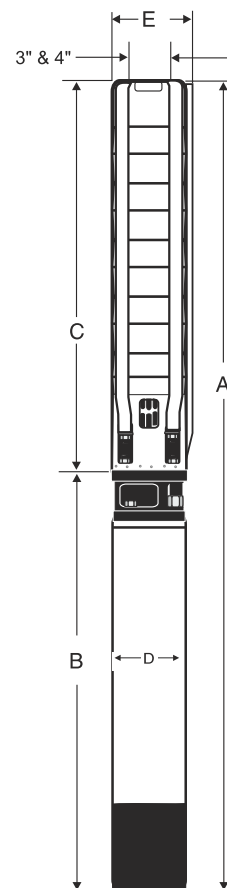


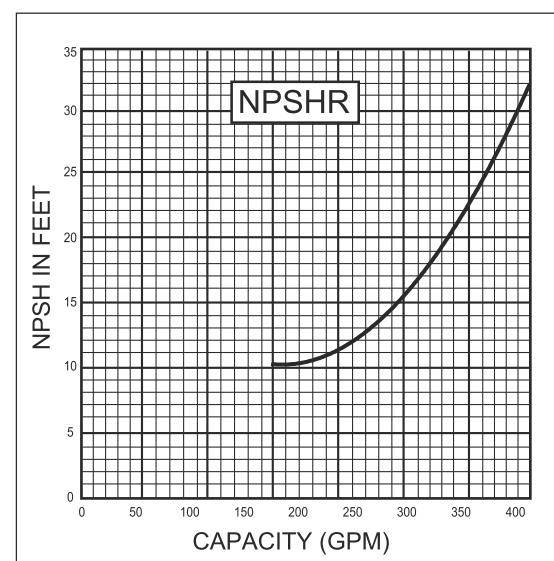
Fig. A

NOTES: Models 2-15 Stgs. are suitable for use in 6" wells, 16-18 Stgs. are suitable for use in 8" wells.  
Weights include pump end with motor in lbs.  
\* Alternate motor sizes available.

#### MATERIALS OF CONSTRUCTION

Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Gurad	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /304 Stainless Steel
Check Valve Seat	NBR /304 Stainless Steel
Top/Lower Bearing	NBR /304 Stainless Steel
8" Motor Adaptor Plate	304 Stainless Steel
Upthrust Washer	Carbon/Graphite HY 22
Upthrust stop ring	304 S. S./Tungsten Carbide

Notes: Specification are subject to change without notice

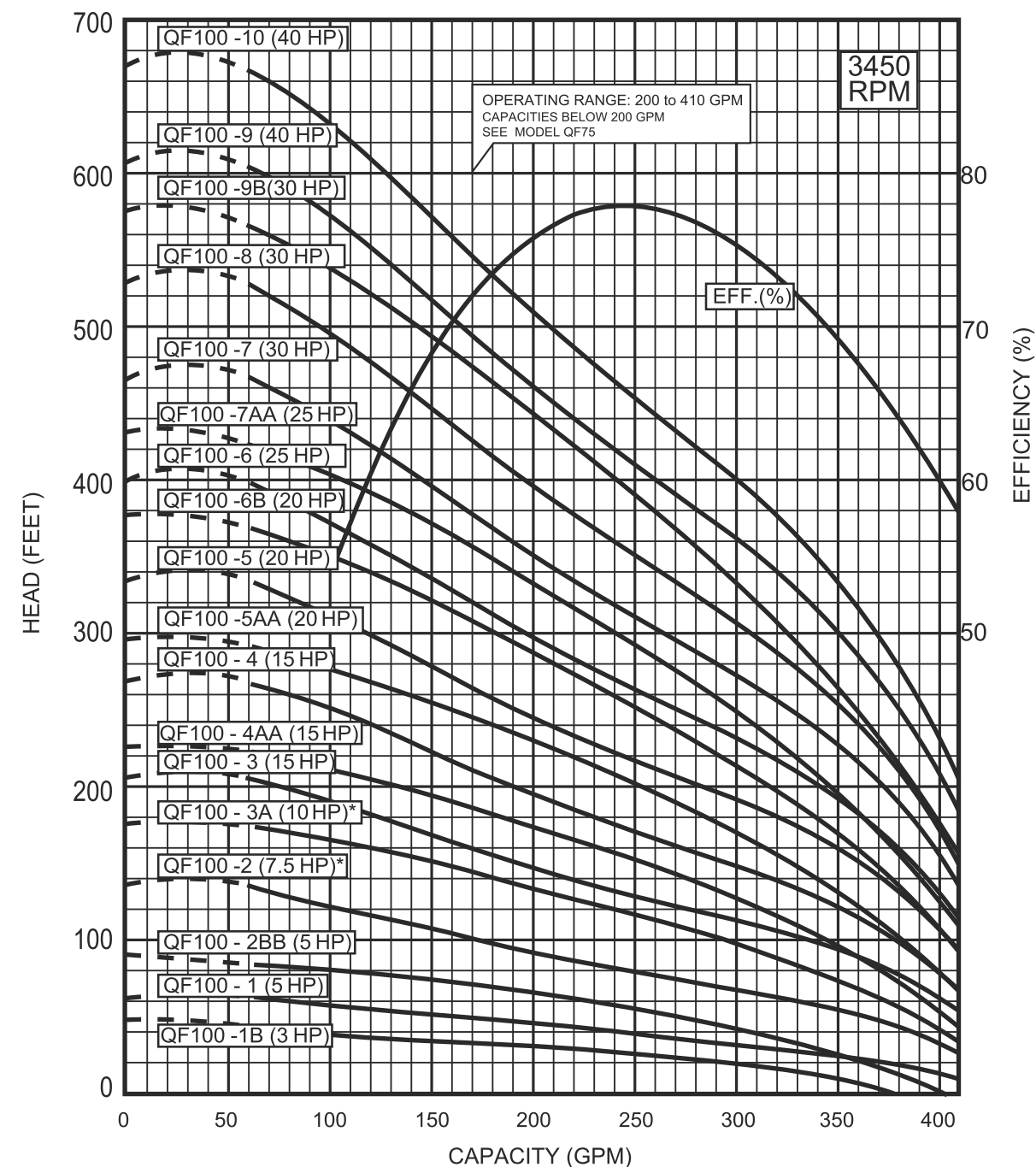


### PERFORMANCE CURVE

### 300 GPM

### MODEL QF 100

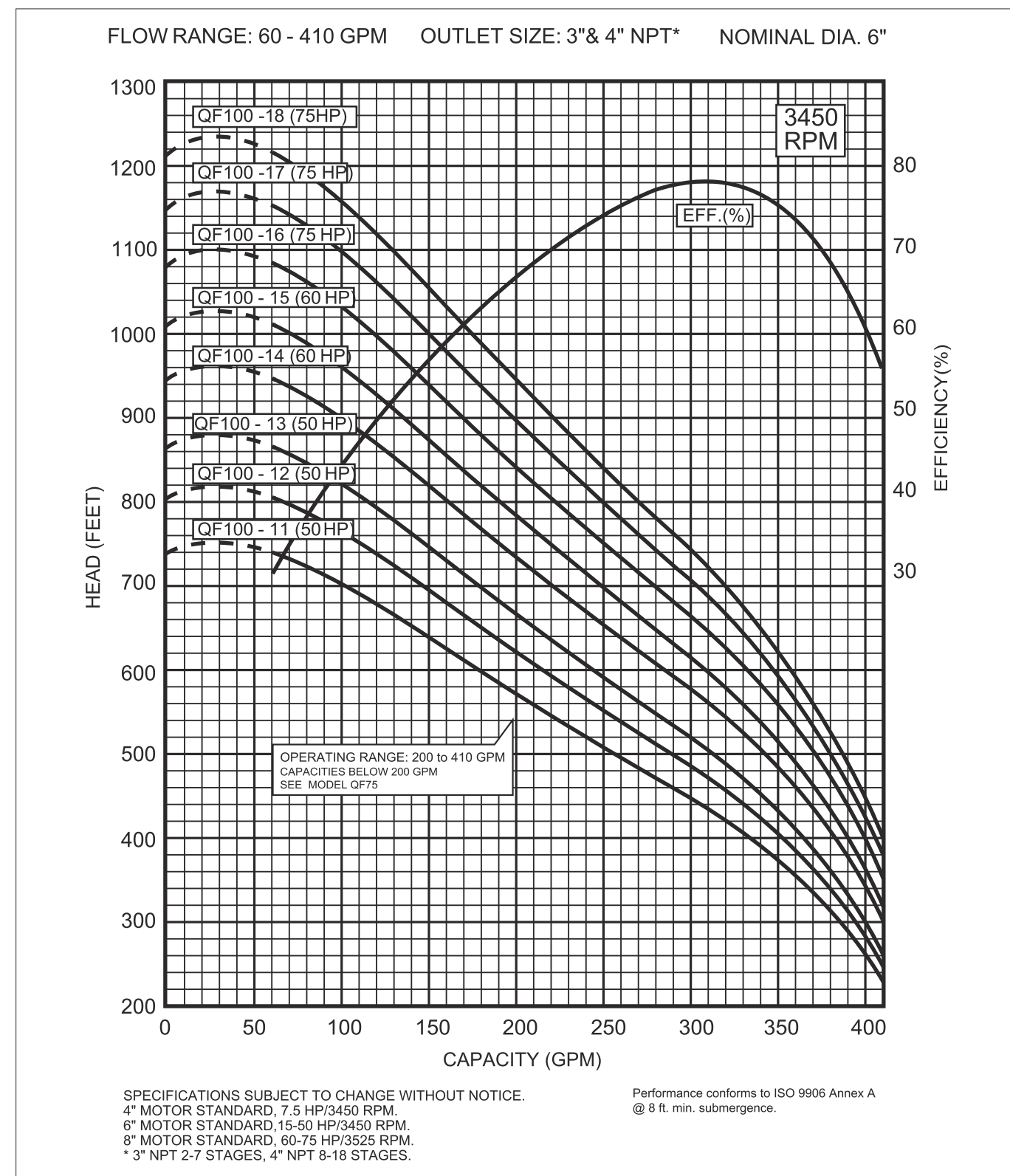
FLOW RANGE: 60 - 410 GPM      OUTLET SIZE: 3" & 4" NPT\*      NOMINAL DIA. 6"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
4" MOTOR STANDARD, 7.5 HP/3450 RPM.  
6" MOTOR STANDARD, 15-50 HP/3450 RPM.  
8" MOTOR STANDARD, 60-75 HP/3525 RPM.  
\* 3" NPT 2-7 STAGES, 4" NPT 8-18 STAGES.

Performance conforms to ISO 9906 Annex A @ 8 ft. min. submergence.

**PERFORMANCE CURVE 300 GPM MODEL QF 100**



**TECHNICAL DATA 385 GPM MODEL QF 125**

**DIMENSIONS AND WEIGHTS**

Model No.	FIG	HP	MOTOR SIZE	DIMENSION IN INCHES						APPROX SHIP WT.	
				DISCH. SIZE	A	B	C	D	E		F
QF125-1	A	7.5	6"	5" NPT	48.3	24	24.3	5.4	7	53.1	148
QF125-2BA	A	10	6"	5" NPT	54.8	25.4	29.4	5.4	7	59.6	178
QF125-2	A	15	6"	5" NPT	57.4	28	29.4	5.4	7	62.2	192
QF125-3A	A	20	6"	4" NPT	65	30.6	34.4	5.4	7	69.8	223
QF125-3	A	25	6"	5" NPT	67.5	33.1	34.4	5.4	7	72.3	210
QF125-4B	A	25	6"	5" NPT	72.6	33.1	39.5	5.4	7	77.4	210
QF125-4	A	30	6"	5" NPT	75.2	35.7	39.5	5.4	7	80	243
QF125-5BB	A	30	6"	5" NPT	80.2	35.7	44.5	5.4	7	85	252
QF125-5*	A	40	6"	5" NPT	85.3	40.8	44.5	5.4	7	90.1	276
QF125-6B	A	40	6"	5" NPT	90.4	40.8	49.6	5.4	7	95.2	285
QF125-6*	A	50	6"	5" NPT	107.4	57.8	49.6	5.4	7	112.2	285
QF125-7A	A	50	6"	5" NPT	113	57.8	55.2	5.4	7	117.8	450
QF125-7*	A	60	6"	5" NPT	119	63.8	55.2	5.4	7	123.8	450
QF125-8*	A	60	6"	5" NPT	124	63.8	60.2	5.4	7	128.8	459
QF125-9	A	75	8"	5" NPT	112.7	47.4	65.3	7.6	7.7	117.5	577
QF125-10	A	75	8"	5" NPT	117.7	47.4	70.3	7.6	7.7	122.5	586
QF125-11	A	100	8"	5" NPT	130.3	54.91	75.4	7.6	7.7	135.1	672
QF125-12	A	100	8"	5" NPT	135.3	54.91	80.4	7.6	7.7	140.1	701
QF125-13	A	100	8"	5" NPT	140.3	54.91	85.4	7.6	7.7	145.1	709

NOTES: All models suitable for use in 8" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\*Alternate motor sizes available.

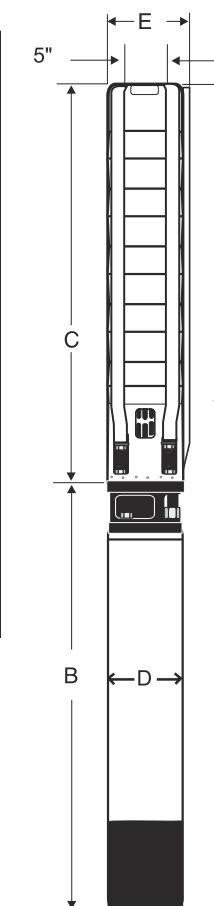
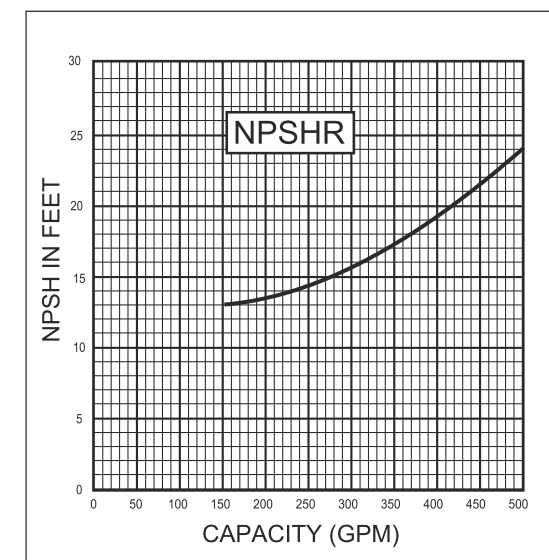


Fig. A

**MATERIALS OF CONSTRUCTION**

MATERIALS OF CONSTRUCTION	
COMPONENT	CYLINDRICAL SHAFT (1-13 Stgs.)
Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Inerconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /PPS
Lower Bearing	NBR/304Stainless Steel 304
Upthrust Washer	Carbon/Graphite HY 22
Upthrust stop Ring	304 S.S./Tungsten Carbide
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	304 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel
Valve Cup Spring	304 Stainless Steel

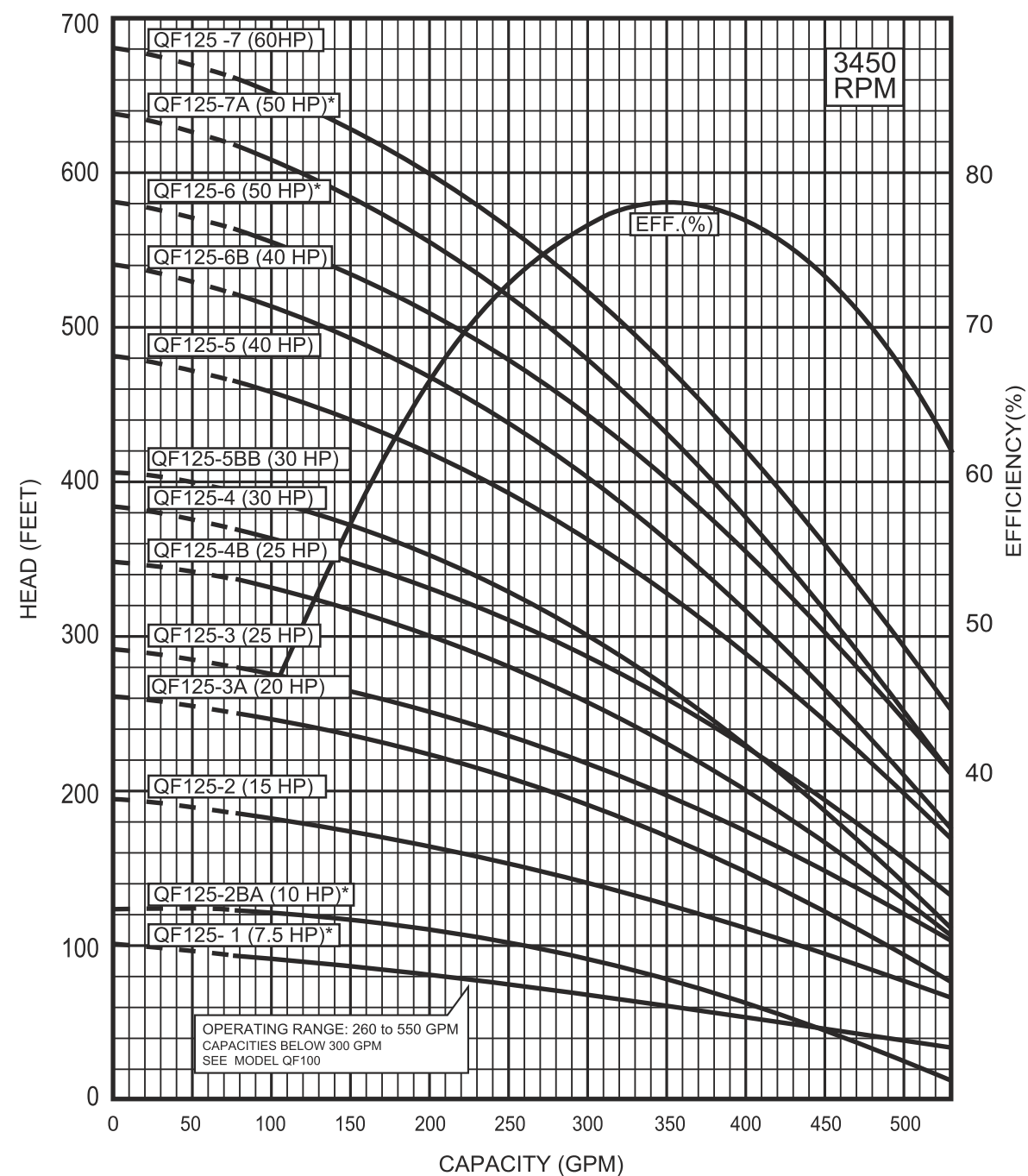


NOTES : Specifications are subject to change without notice.



**PERFORMANCE CURVE 385 GPM MODEL QF 125**

FLOW RANGE: 75 - 550 GPM    OUTLET SIZE: 5" NPT    NOMINAL DIA. 8"

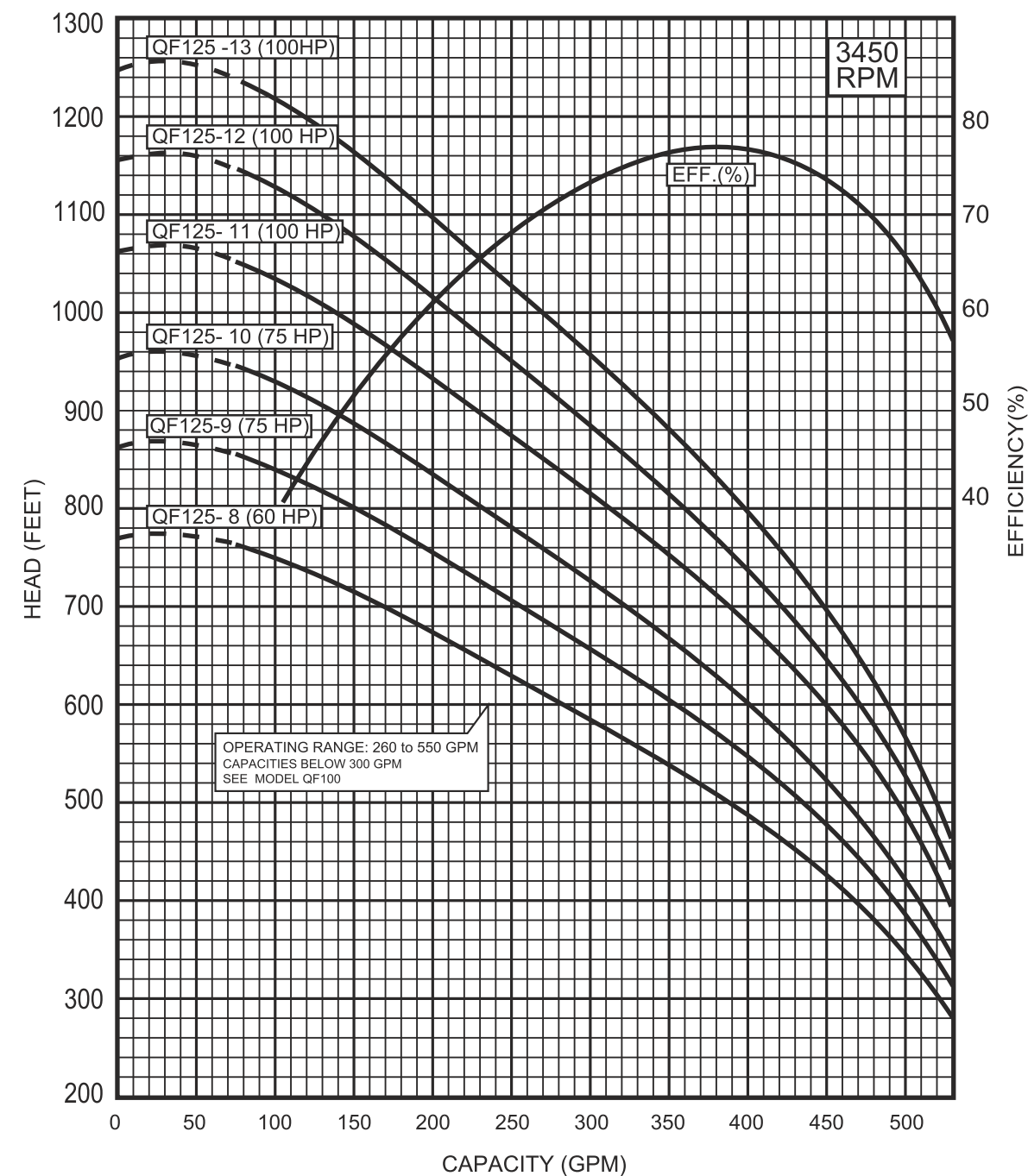


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
 6" MOTOR STANDARD, 10-60 HP/3450 RPM.  
 8" MOTOR STANDARD, 75-100 HP/3525 RPM.  
 \* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
 @ 8 ft. min. submergence.

**PERFORMANCE CURVE 385 GPM MODEL QF 125**

FLOW RANGE: 75 - 550 GPM    OUTLET SIZE: 5" NPT    NOMINAL DIA. 8"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
 6" MOTOR STANDARD, 10-60 HP/3450 RPM.  
 8" MOTOR STANDARD, 75-100 HP/3525 RPM.  
 \* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
 @ 8 ft. min. submergence.

### TECHNICAL DATA

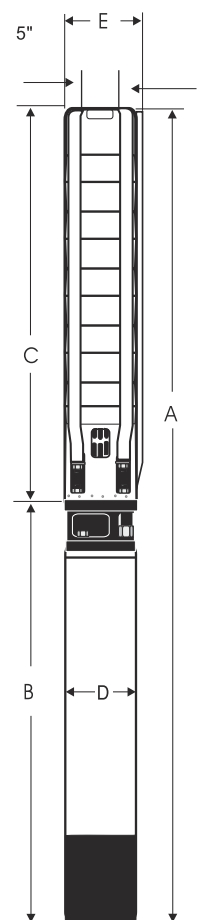
475 GPM

MODEL QF 160

#### DIMENSIONS AND WEIGHTS

MODEL NO.	FIG.	HP	MOTOR SIZE	DISCH. SIZE	DIMENSIONS IN INCHES						APPROX. SHIP WT.
					A	B	C	D	E	F	
QF160 -1A	A	7.5	6"	5" NPT	48.5	24.2	24.3	5.4	7	54.6	161
QF160 -1	A	10	6"	5" NPT	49.7	25.4	24.3	5.4	7	55.8	171
QF160 -2B	A	15	6"	5" NPT	57.4	28.0	29.4	5.4	7	63.5	195
QF160 -2	A	20	6"	5" NPT	60.0	30.6	29.4	5.4	7	66.1	210
QF160 -3A	A	25	6"	5" NPT	67.5	33.1	34.4	5.4	7	73.6	230
QF160 -3	A	30	6"	5" NPT	70.1	35.7	34.4	5.4	7	76.2	230
QF160 -4AB	A	30	6"	5" NPT	75.2	35.7	39.5	5.4	7	81.3	295
QF160 -4*	A	40	6"	5" NPT	80.3	40.8	39.5	5.4	7	86.4	328
QF160 -5B	A	40	6"	5" NPT	85.3	40.8	44.5	5.4	7	91.4	336
QF160 -5*	A	50	6"	5" NPT	102.5	58.0	44.5	5.4	7	108.6	428
QF160 -6A*	A	50	6"	5" NPT	108.1	58.0	50.1	5.4	7	114.2	437
QF160 -6*	A	60	6"	5" NPT	111.8	61.7	50.1	5.4	7.0	117.9	403
QF160 -7*	A	60	6"	5" NPT	116.9	61.7	55.2	5.4	7.0	123.0	467
QF160 -8	A	75	8"	5" NPT	107.6	47.4	60.2	7.5	7.7	113.7	547
QF160 -9	A	100	8"	5" NPT	120.1	54.9	65.2	7.5	7.7	126.2	641
QF160 -10	A	100	8"	5" NPT	125.2	54.9	70.3	7.5	7.7	131.3	648
QF160 -11	A	100	8"	5" NPT	130.3	54.9	75.4	7.5	7.7	136.4	654
QF160 -12	A	125	8"	5" NPT	149.2	68.8	80.4	7.5	7.7	155.3	862
QF160 -13	A	125	8"	5" NPT	154.3	68.8	85.5	7.5	7.7	160.4	868
Pipe Adapter	A								6.1		

NOTES: All models suitable for use in 8" wells, unless otherwise noted.  
Weights include pump end with motor in lbs.  
\*Alternate motors sizes available.



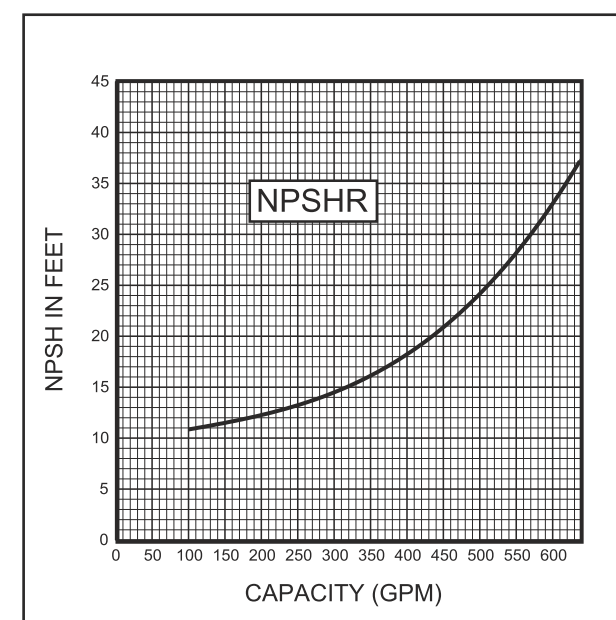
### TECHNICAL DATA

475 GPM

MODEL QF 160

#### MATERIALS OF CONSTRUCTION

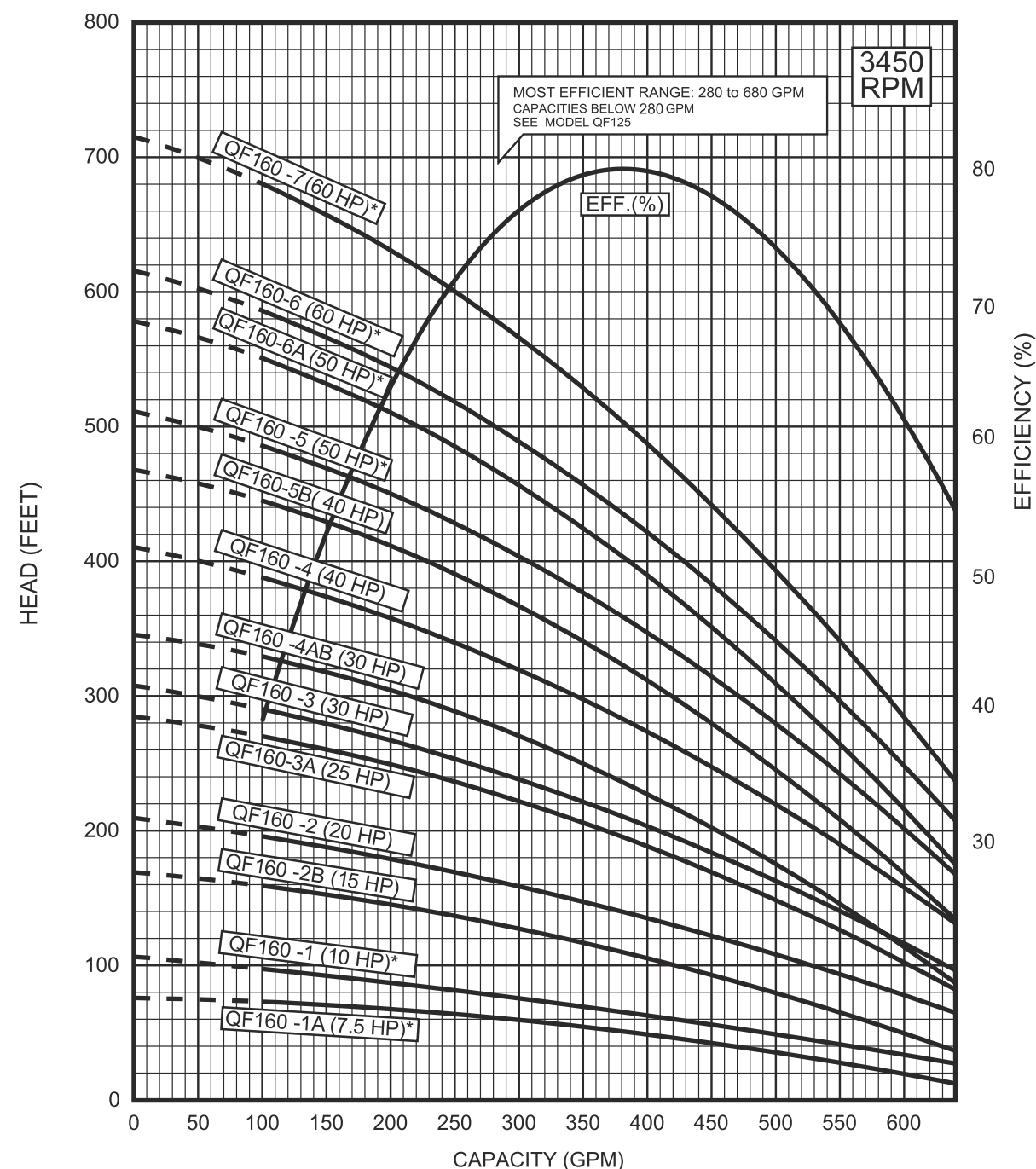
COMPONENT	CYLINDRICAL SHAFT (1-13 Stgs.)
Check Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Interconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR/PPS
Check Valve Seat	NBR/304 stainless Steel
Lower Bearing	NBR/304 Stainless Steel
Upthrust Washer	Carbon/Graphite HY22
Upthrust stop ring	304 S.S./Tungsten Carbide
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	304 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel
Valve Cup Spring	304 Stainless Steel





**PERFORMANCE CURVE 475 GPM MODEL QF 160**

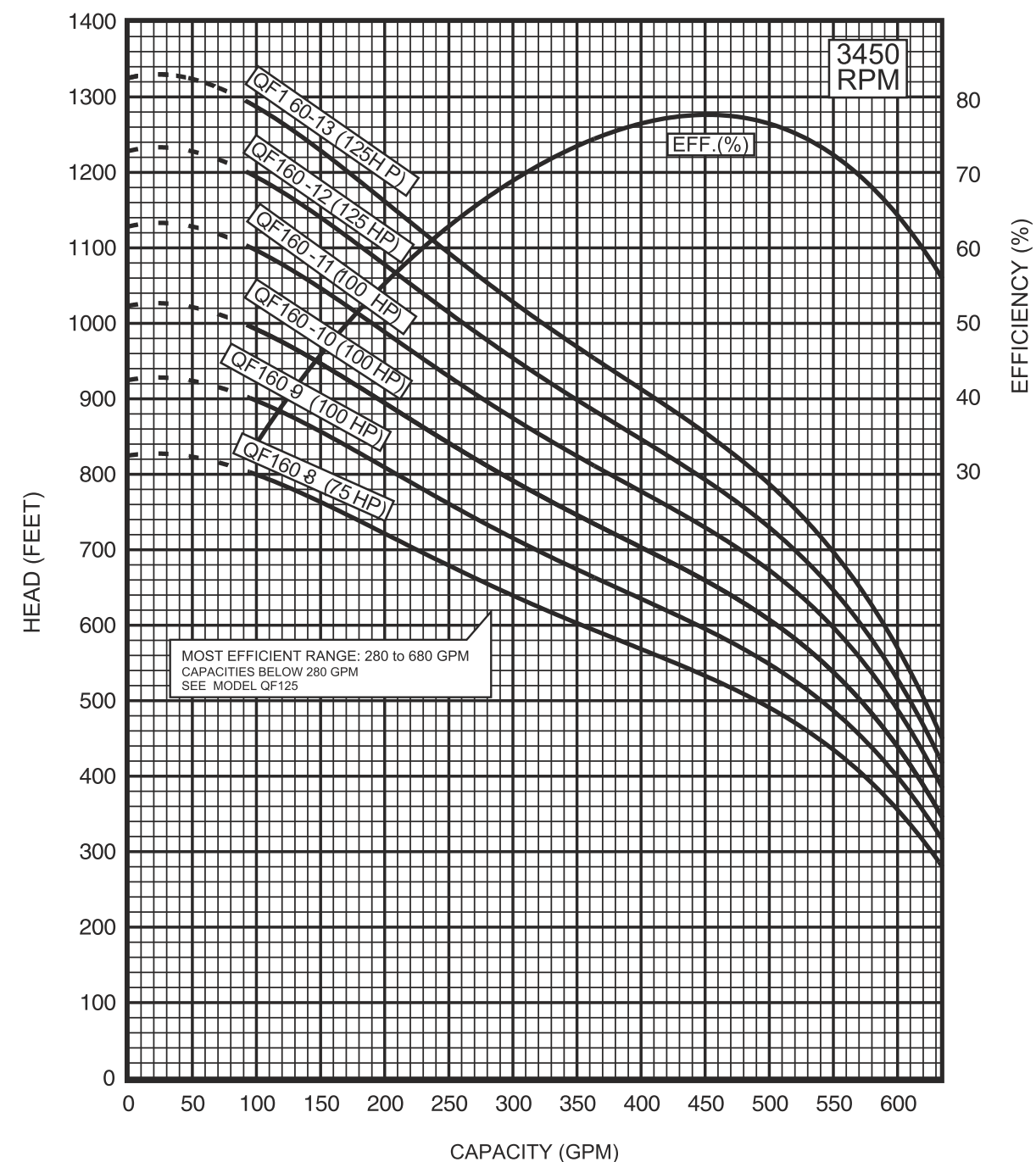
FLOW RANGE: 95 - 680 GPM    OUTLET SIZE: 5" NPT    NOMINAL DIA. 8"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.    Performance conforms to ISO 9906 Annex A @ 8 ft. min. submergence.  
 6" MOTOR STANDARD, 10-60 HP/3450 RPM.  
 8" MOTOR STANDARD, 75-125 HP/3525 RPM.  
 \* Alternate motor sizes available.

**PERFORMANCE CURVE 475 GPM MODEL QF 160**

FLOW RANGE: 95 - 680 GPM    OUTLET SIZE: 5" NPT    NOMINAL DIA. 8"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.    Performance conforms to ISO 9906 Annex A @ 8 ft. min. submergence.  
 6" MOTOR STANDARD, 10-60 HP/3450 RPM.  
 8" MOTOR STANDARD, 75-125 HP/3525 RPM.  
 \* Alternate motor sizes available.

## TECHNICAL DATA

### 625 GPM

### MODEL QF 210

#### DIMENSIONS AND WEIGHTS

Model No.	FIG	HP	MOTOR SIZE	DISCH. SIZE	DIMENSION IN INCHES					APPROX SHIP WT.
					A	B	C	D	E	
QF2101A	A	15	6"	6" NPT	50.6	25	25.6	5.4	8.3	208
QF210-1	A	20	6"	6" NPT	56.2	30.6	25.6	5.4	8.3	217
QF210-2AA	A	30	6"	6" NPT	63.8	32	31.8	5.4	8.3	296
QF210-2A	A	40	6"	6" NPT	66.2	34.4	31.8	5.4	8.3	307
QF210-2*	A	40	6"	6" NPT	66.2	34.4	37.9	5.4	8.3	320
QF210-3AA*	A	50	6"	6" NPT	93.6	55.7	37.9	5.4	8.3	415
QF210-3A*	A	60	6"	6" NPT	99.6	61.7	37.9	5.4	8.3	448
QF210-3*	A	60	6"	6" NPT	99.6	61.7	44.4	5.4	8.3	448
QF210-4AA	A	75	6"	6" NPT	91.4	47.4	44	7.5	8.6	560
QF210-4A	A	75	6"	6" NPT	91.4	47.4	44	7.6	8.6	560
QF2104	A	100	8"	6" NPT	98.9	54.9	50.1	7.6	8.6	638
QF210-5AA	A	100	8"	6" NPT	105	54.9	50.1	7.6	8.6	661
QF210-5A	A	100	8"	6" NPT	105	54.9	50.1	7.6	8.6	661
QF2105	A	100	8"	6" NPT	105	54.9	56.2	7.6	8.6	661
QF210-6AA	A	125	8"	6" NPT	125	68.8	56.2	7.7	8.6	855
QF210-6A	A	125	8"	6" NPT	125	68.8	56.2	7.7	8.6	855
QF210-6	A	125	8"	6" NPT	125	68.8	62.4	7.7	8.6	855
QF210-7AA	A	125	8"	6" NPT	131.2	68.8	62.4	7.7	8.6	890
QF210-7A	A	150	8"	6" NPT	140.2	77.8	62.4	7.7	8.6	983
QF210-7	A	150	8"	6" NPT	140.2	77.8	62.4	7.7	8.6	983

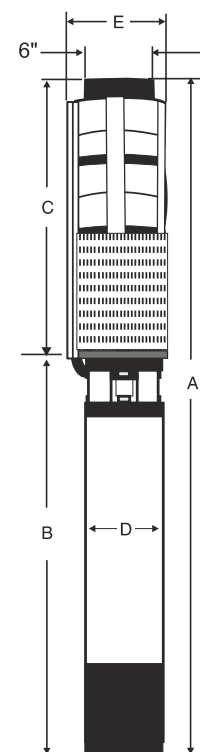
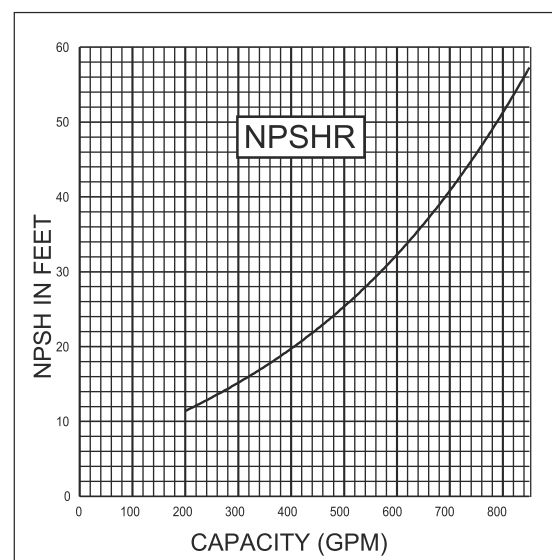


Fig. A

NOTES: All models suitable for use in 8" wells unless otherwise noted.  
Weights include pump end with motor in lbs.  
\*Alternate motor sizes available.

#### MATERIALS OF CONSTRUCTION

MATERIALS OF CONSTRUCTION	
COMPONENT	CYLINDRICAL SHAFT (2-18 Stgs.)
Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Inerconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /PPS
Check Valve Seat	NBR /304 Stainless Steel
Top Bearing	NBR /304 Stainless Steel
Upthrust stop Ring	Carbon/Graphite HY 22
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	304 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel



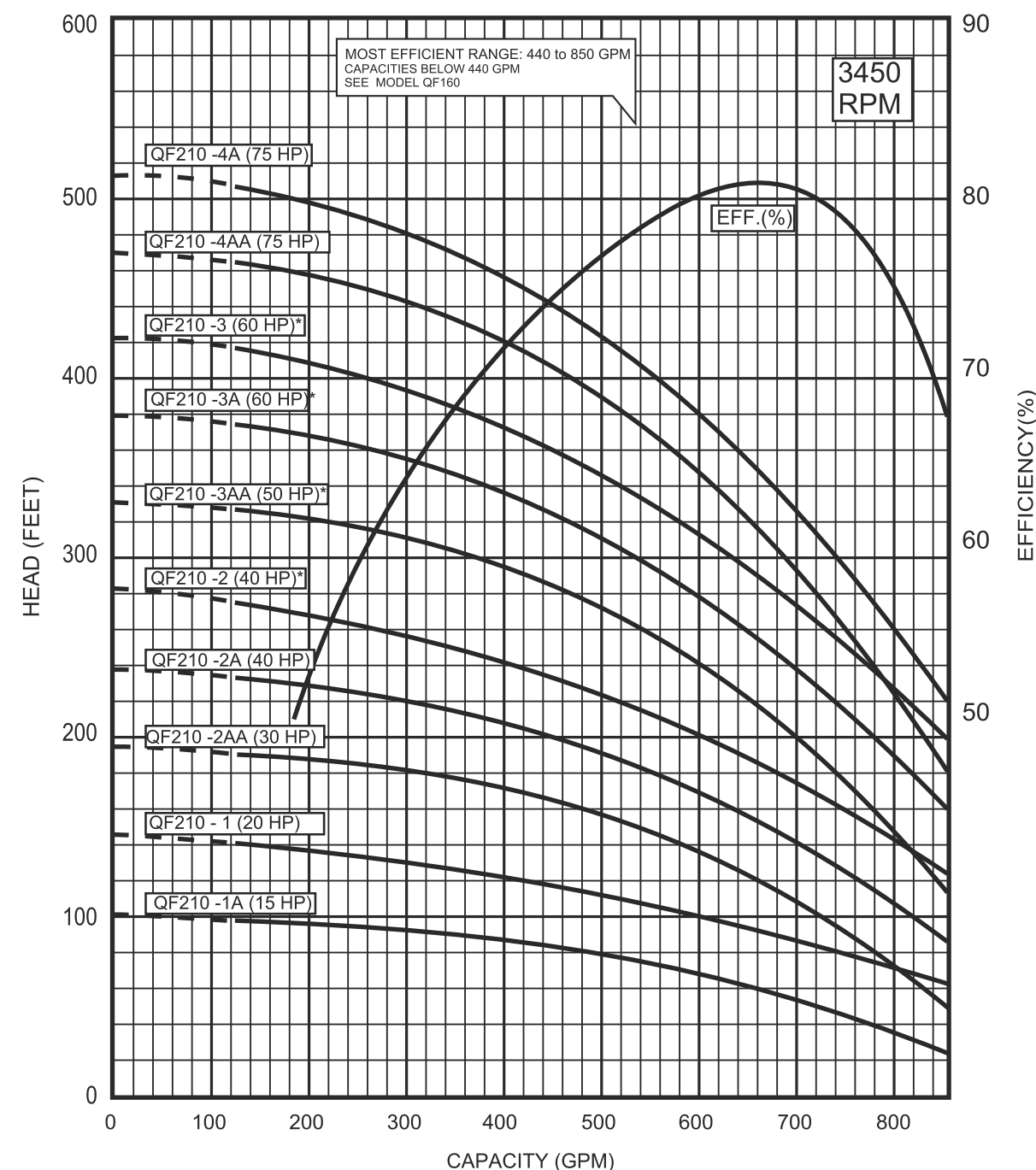
NOTES : Specifications are subject to change without notice.

## PERFORMANCE CURVE

### 625 GPM

### MODEL QF 210

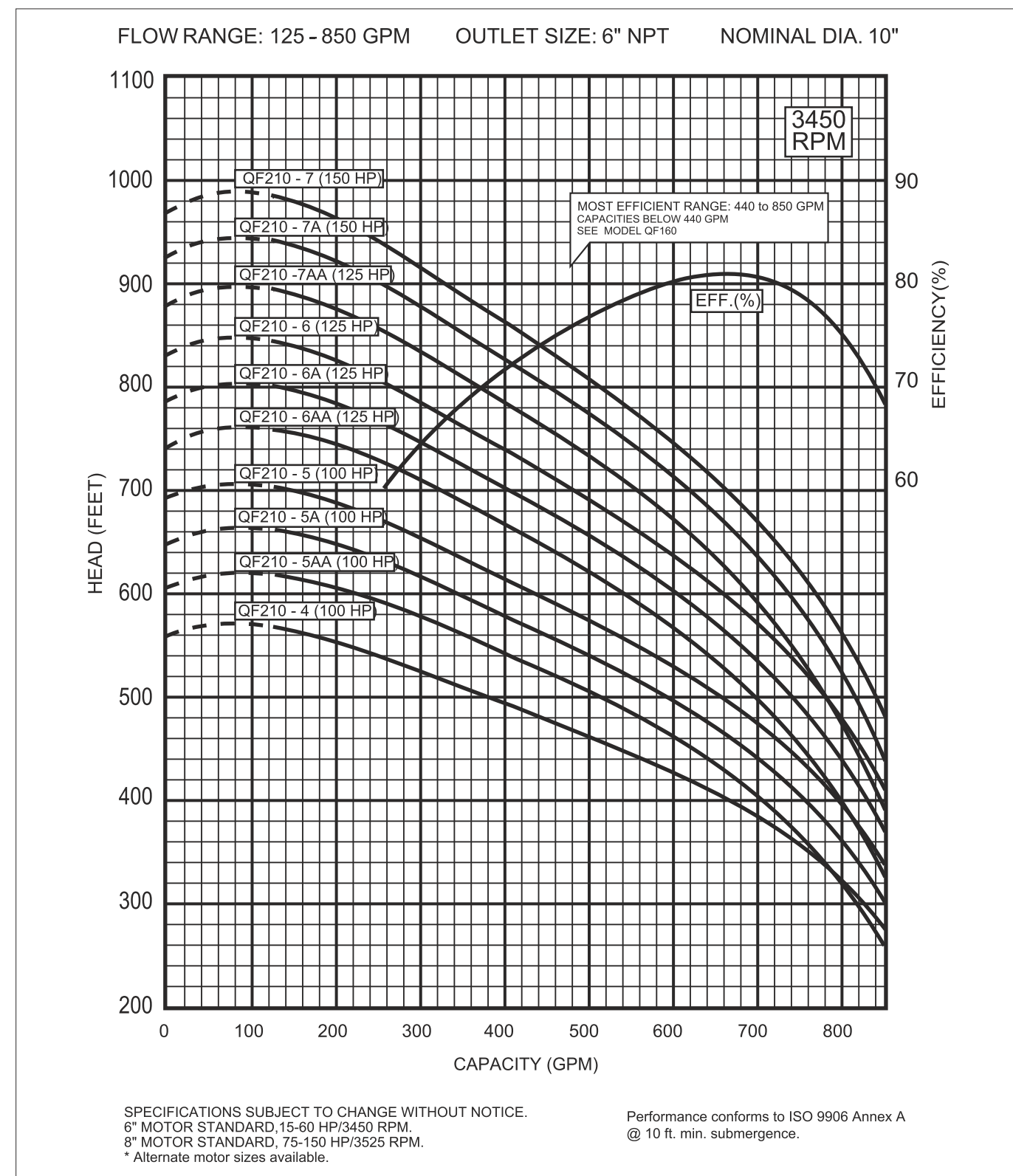
FLOW RANGE: 125 - 850 GPM    OUTLET SIZE: 6" NPT    NOMINAL DIA. 10"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
6" MOTOR STANDARD, 15-60 HP/3450 RPM.  
8" MOTOR STANDARD, 75-150 HP/3525 RPM.  
\* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
@ 10 ft. min. submergence.

**PERFORMANCE CURVE 625 GPM MODEL QF 210**



**TECHNICAL DATA 800 GPM MODEL QF 270**

**DIMENSIONS AND WEIGHTS**

Model No.	FIG	HP	MOTOR SIZE	DISCH. SIZE	DIMENSION IN INCHES					APPROX SHIP WT.
					A	B	D	E		
QF-270-1A	A	20	6"	6" NPT	53.1	27.5	25.6	5.4	8.3	219
QF-270-1	A	30	6"	6" NPT	57.6	32.0	25.6	5.4	8.3	241
QF-270-2AA*	A	40	6"	6" NPT	66.2	34.4	31.8	5.4	8.3	320
QF-270-2A*	A	50	6"	6" NPT	87.5	55.7	31.8	5.4	8.3	402
QF-270-2*	A	50	6"	6" NPT	87.5	55.7	31.8	5.4	8.3	402
QF-270-3AA*	A	60	6"	6" NPT	99.6	61.7	37.9	5.4	8.3	448
QF-270-2AA*	A	40	8"	6" NPT	66.2	34.4	31.8	7.5	8.6	459
QF-270-2A*	A	50	8"	6" NPT	87.5	55.7	31.8	7.5	8.6	499
QF-270-2*	A	50	8"	6" NPT	87.5	55.7	31.8	7.5	8.6	499
QF-270-3AA*	A	60	8"	6" NPT	99.6	61.7	37.9	7.5	8.6	477
QF-270-3A	A	75	8"	6" NPT	85.3	47.4	37.9	7.5	8.6	547
QF-270-3	A	75	8"	6" NPT	85.3	47.4	37.9	7.5	8.6	547
QF-270-4AA	A	100	8"	6" NPT	98.9	54.9	44.0	7.5	8.6	635
QF-270-4A	A	100	8"	6" NPT	98.9	54.9	44.0	7.5	8.6	635
QF-270-4	A	100	8"	6" NPT	98.9	54.9	44.0	7.5	8.6	635
QF-270-5AA	A	125	8"	6" NPT	118.9	68.8	50.1	7.5	8.6	837
QF-270-5A	A	125	8"	6" NPT	118.9	68.8	50.1	7.7	8.6	837
QF-270-5	A	125	8"	6" NPT	118.9	68.8	50.1	7.7	8.6	837

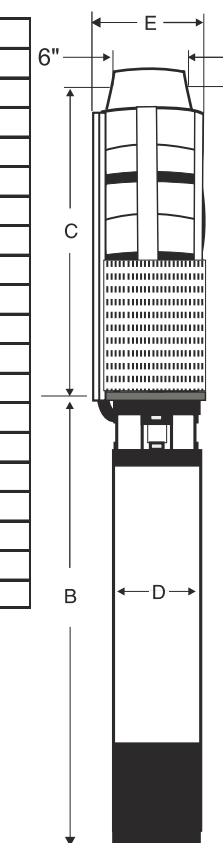


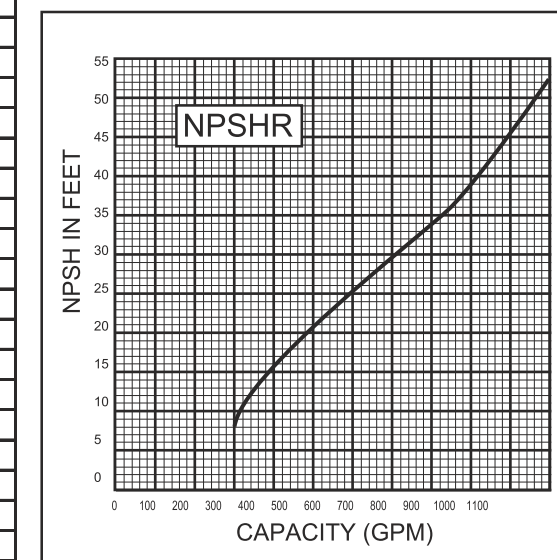
Fig. A

NOTES: All models suitable for use in 10" wells, unless equipped with 10" motor.  
Weights include pump end with motor in lbs.  
\* Alternate motor sizes available.

**MATERIALS OF CONSTRUCTION**

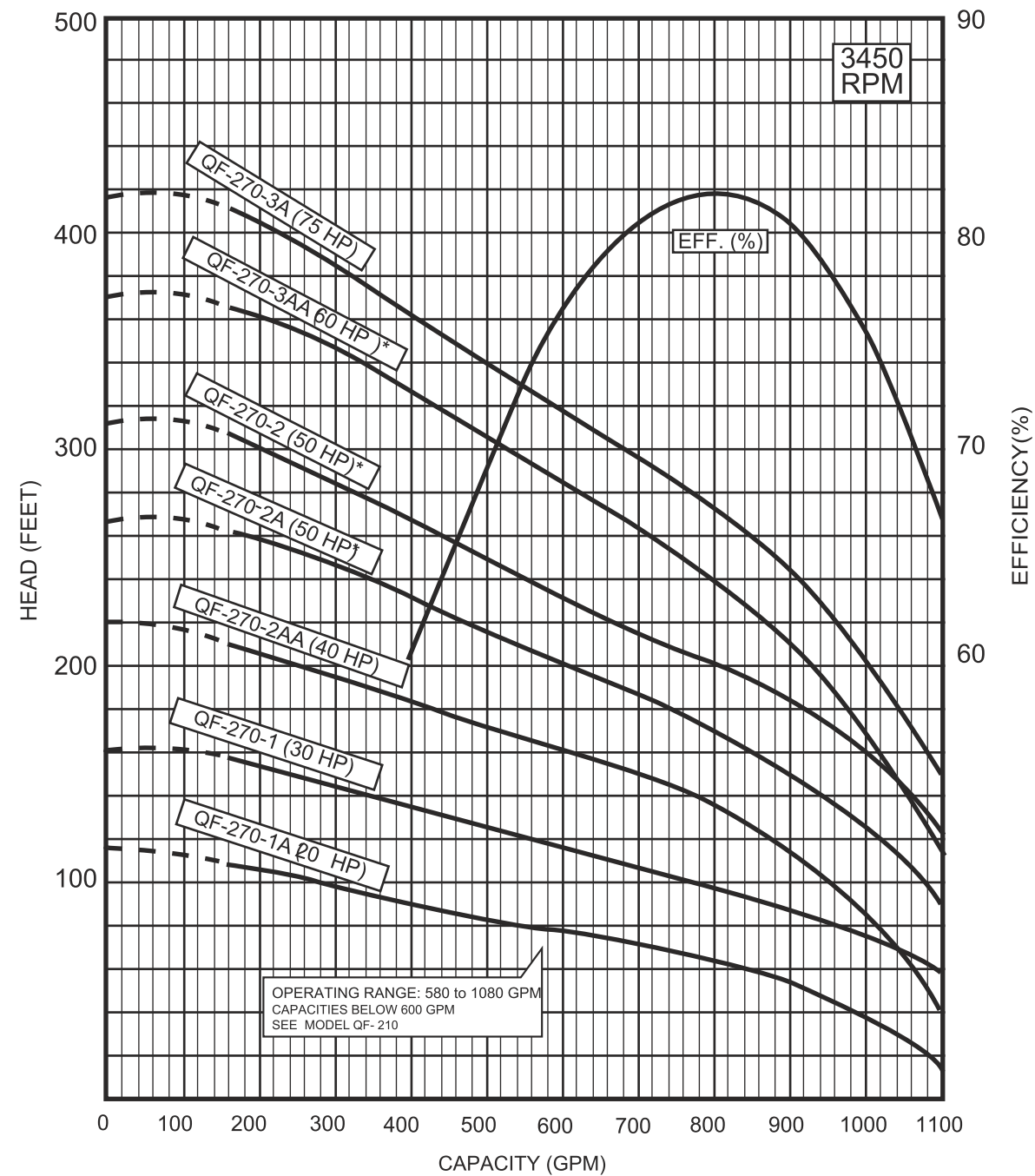
MATERIALS OF CONSTRUCTION	
COMPONENT	CYLINDRICAL SHAFT (2-18 Stgs.)
Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Inerconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /PPS
Top Bearing	NBR /304 Stainless Steel 304
Upthrust stop Ring	Carbon/Graphite HY 22
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	304 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel
Valve Cup Spring	304 Stainless Steel

NOTES : Specifications are subject to change without notice.



**PERFORMANCE CURVE 800 GPM MODEL QF 270**

FLOW RANGE: 220 -1400 GPM    OUTLET SIZE: 6 " NPT    NOMINAL DIA. 10"

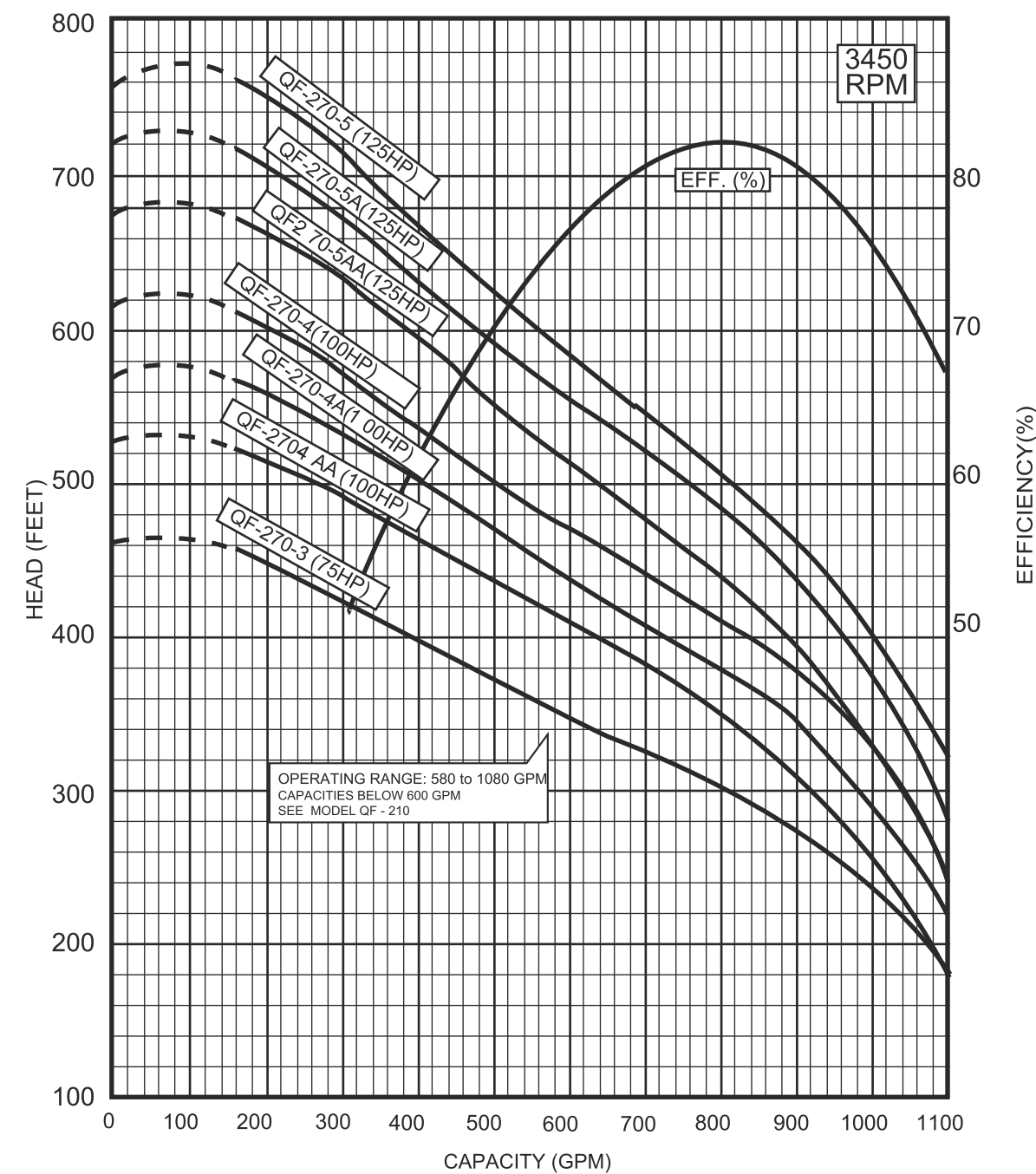


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
 6" MOTOR STANDARD, 40 HP/3450 RPM.  
 8" MOTOR STANDARD, 60-200 HP/3525 RPM.  
 10" MOTOR STANDARD, 250 HP/3500 RPM.  
 \* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
 @ 10 ft. min. submergence.

**PERFORMANCE CURVE 800 GPM MODEL QF 270**

FLOW RANGE: 220 -1400 GPM    OUTLET SIZE: 6 " NPT    NOMINAL DIA. 10"



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
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 \* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
 @ 10 ft. min. submergence.



## TECHNICAL DATA

### 1100 GPM

### MODEL QF 360

#### DIMENSIONS AND WEIGHTS

Model No.	FIG	HP	MOTOR SIZE	DISCH. SIZE	DIMENSION IN INCHES					APPROX SHIP WT.
					A	B	C	D	E	
QF360-1A	A	30	6"	6" NPT	66.8	35.7	31.1	5.4	9.7	252
QF360-1*	A	40	6"	6" NPT	68.3	37.2	31.1	5.4	9.7	276
QF360-2AA*	A	60	6"	6" NPT	79.9	41.8	38.1	5.4	9.7	459
QF360-2A	A	75	8"	6" NPT	85.5	47.4	38.1	7.6	9.7	558
QF360-2	A	100	8"	6" NPT	93.8	55.7	38.1	7.6	9.7	558
QF360-3AA	A	100	8"	6" NPT	100.8	55.7	45.1	7.6	9.7	657
QF360-3A	A	125	8"	6" NPT	102.1	57	45.1	7.7	9.7	836
QF360-3	A	125	8"	6" NPT	102.1	57	45.1	7.7	9.7	836
QF360-4AA	A	150	8"	6" NPT	129.8	77.8	52	7.7	9.7	1007
QF360-4A	A	150	8"	6" NPT	129.8	77.8	52	7.7	9.7	1007
QF360-4	A	175	8"	6" NPT	137.8	85.8	52	7.7	9.7	1007
QF360-5AA*	A	175	8"	6" NPT	144.7	85.8	58.9	7.7	9.7	1089
QF360-5A**	A	175	8"	6" NPT	144.7	85.8	58.9	7.7	9.7	1089
QF360-5*+	A	200	8"	6" NPT	153.7	94.8	58.9	7.7	9.7	1197
QF360-6AA+	A	250	10"	6" NPT	145.2	79.5	65.7	9.1	10.9	1263
QF360-6A+	A	250	10"	6" NPT	145.2	79.5	65.7	9.1	10.9	1263
QF360-6+	A	250	10"	6" NPT	145.2	79.5	65.7	9.1	10.9	1263

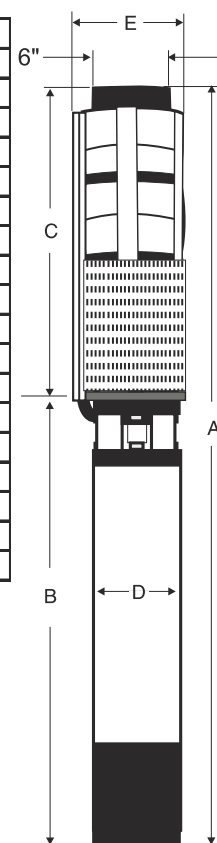


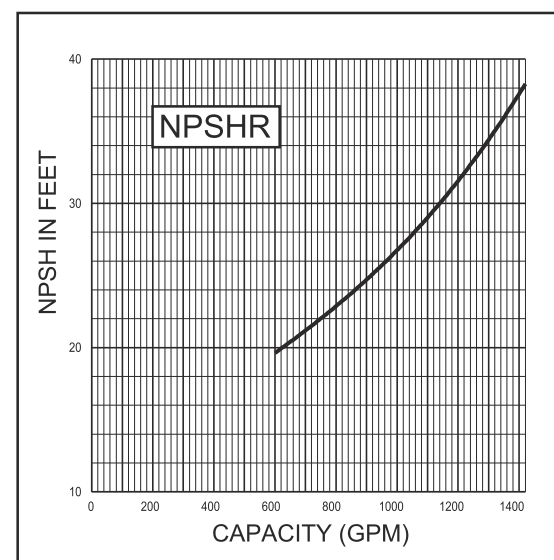
Fig. A

NOTES: All models suitable for use in 10" wells, unless equipped with 10" motor.  
Weights include pump end with motor in lbs.  
\* Alternate motor sizes available.

#### MATERIALS OF CONSTRUCTION

MATERIALS OF CONSTRUCTION	
COMPONENT	CYLINDRICAL SHAFT (2-18 Stgs.)
Valve Housing	304 Stainless Steel
Check Valve	304 Stainless Steel
Diffuser Chamber	304 Stainless Steel
Split Cone Nut	304 Stainless Steel
Split Cone	304 Stainless Steel
Impeller	304 Stainless Steel
Suction Inerconnector	304 Stainless Steel
Inlet Screen	304 Stainless Steel
Straps	304 Stainless Steel
Cable Guard	304 Stainless Steel
Coupling	304 Stainless Steel
Pump Shaft	Duplex Stainless Steel
Intermediate Bearings	NBR
Impeller Seal Ring	NBR /PPS
Top Bearing	NBR /304 Stainless Steel 304
Upthrust stop Ring	Carbon/Graphite HY 22
O-Ring	NBR
Valve Seat	304 Stainless Steel
Lower Valve Seat Retainer	304 Stainless Steel
Upper Valve Seat Retainer	304 Stainless Steel
Valve Guide	304 Stainless Steel
Valve Cup Spring	304 Stainless Steel

NOTES : Specifications are subject to change without notice.

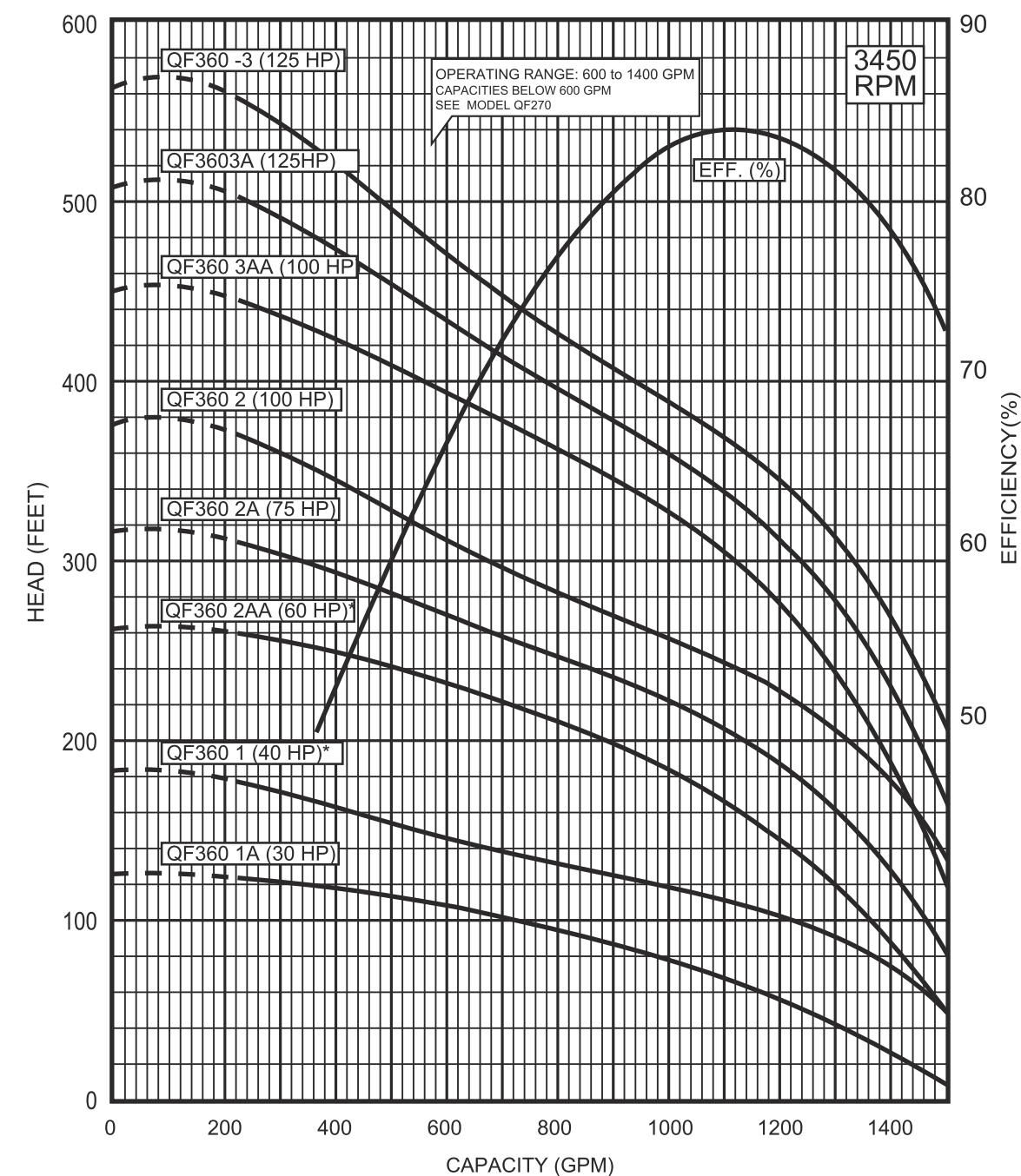


## PERFORMANCE CURVE

### 1100 GPM

### MODEL QF 360

FLOW RANGE: 220 -1400 GPM    OUTLET SIZE: 6 " NPT    NOMINAL DIA. 10"

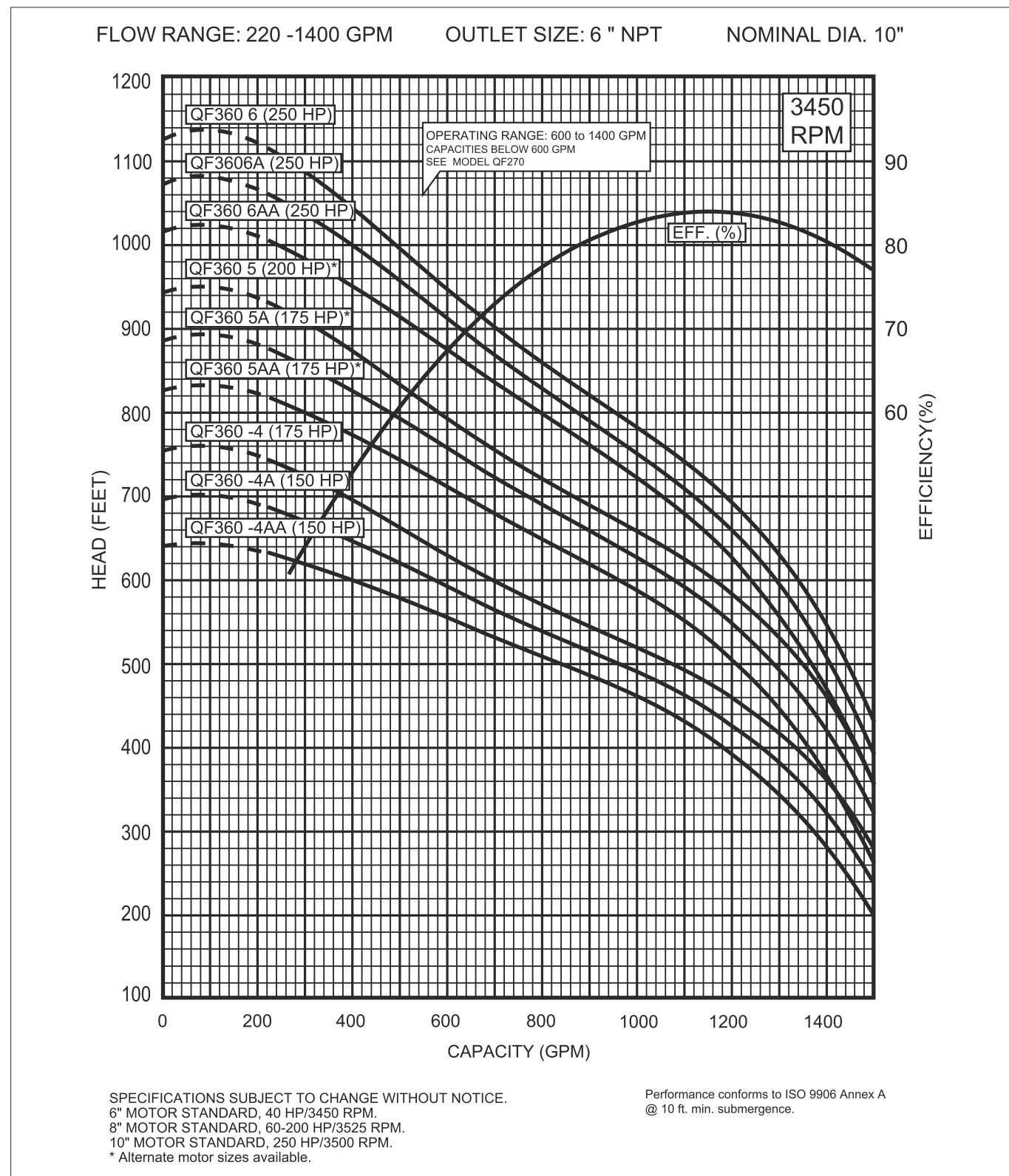


SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
6" MOTOR STANDARD, 40 HP/3450 RPM.  
8" MOTOR STANDARD, 60-200 HP/3525 RPM.  
10" MOTOR STANDARD, 250 HP/3500 RPM.  
\* Alternate motor sizes available.

Performance conforms to ISO 9906 Annex A  
@ 10 ft. min. submergence.



**PERFORMANCE CURVE 1100 GPM MODEL QF 360**



**MOTOR PERFORMANCE DATA SINGLE PHASE 60HZ**

SINGLE PHASE MOTOR SPECIFICATION (60 HZ) 3450 RPM

RATING					FULL LOAD		MAXIMUM LOAD		WINDING (1) RES. IN OHMS	EFFICIENCY %		POWER FACTOR %		LOCKED ROTOR AMPS
[HP]	[KW]	VOLTS	HZ	S.F.	(2) AMPS	WATTS	(2) AMPS	WATTS	M= MAIN RES. S=START RES.	S.F.	F.I.	S.F.	F.I.	
0.5	0.37	230	60	1.6	Y= 3.5 B= 4.0 R= 2.1	720	Y=3.85 B=4.40 R=2.31	960	M 4.7-5.7 S 9.4-11.6	67	52	90	89	23
0.75	0.55	230	60	1.5	Y= 6.7 B= 5.8 R= 2.6	1110	Y=7.37 B=6.38 R=2.86	1310	M 2.7-3.3 S 7.2-8.8	69	51	92	78	34.2
1.0	0.75	230	60	1.4	Y= 7.3 B= 4.9 R= 2.3	1200	Y=8.03 B=5.39 R=2.53	1600	M 2.8-3.5 S 5.9-7.26	70	63	92	77	41.8
1.5	1.1	230	60	1.3h	Y= 8.7 B= 8.4 R= 1.8	1740	Y=9.57 B=9.24 R=1.98	2080	M 1.9-2.4 S 3.6-4.4	70	65	85	87	51.4
2.0	1.5	230	60	1.25	Y= 10.0 B= 9.3 R= 2.6	2025	Y=11.0 B=10.23 R=2.86	2555	M 1.8-2.3 S 5.5-7.2	73	68	95	99	53.1
3.0	2.2	230	60	1.15	Y= 16.5 B= 15.3 R= 5.4	3560	Y=18.15 B=16.83 R=5.94	3400	M 1.1-1.4 S 2.2-2.7	75	63	99	94	83.4
5.0	3.7	230	60	1.15	Y= 23.0 B= 15.9 R= 11.0	4830	Y=25.3 B=17.49 R=12.1	5500	M 0.71-0.82 S 1.8-2.2	78	77	100	98	129

- (1) Main winding - yellow to black  
Start winding - yellow to red
- (2) Y= Yellow lead -line amps  
B= Black lead - main winding amps  
R= Red lead - start or auxillary winding amps.

### MOTOR PERFORMANCE DATA SINGLE PHASE 60HZ

THREE PHASE MOTOR SPECIFICATION (60 HZ) 3450 RPM

RATING					FULL LOAD		MAXIMUM LOAD		LINE TO LINE RESISTANCE IN OHMS	EFFICIENCY %		LOCKED ROTOR AMPS
[HP]	[KW]	VOLTS	HZ	S.F.	AMPS	WATTS	AMPS	WATTS		S.F.	F.I.	
0.5	0.37	230	60	1.6	2.4	585	2.9	860	9.5-10.9	70	64	15.2
		380			1.4	585	2.1	860	23.2-28.6	70	64	9.2
		460			1.1	644	1.5	860	38.4-44.1	70	58	7.2
0.75	0.55	230	60	1.5	3.1	810	3.8	1150	6.8-7.8	73	69	21.4
		380			1.9	810	2.5	1150	16.6-20.3	73	69	13.0
		460			1.1	810	1.9	1150	27.2-30.9	73	66	10.7
1	0.75	230	60	1.4	3.9	1070	4.7	1440	4.9-5.6	72	70	26.9
		380			2.3	1070	2.8	1440	12.2-14.9	72	70	16.3
		460			2	1212	2.4	1440	19.9-23.0	72	63	13.5
1.5	1.1	230	60	1.3	5	1460	5.9	1890	3.2-4.0	76	76	33.2
		380			3	1460	3.6	1890	8.5-10.4	76	76	20.1
		460			3	1760	3.1	1890	13-16	76	65	16.6
2	1.5	230	60	1.25	6.7	1960	8.1	2430	2.3-3	76	76	45
		380			4.1	1960	4.9	2430	6.6-8.2	76	76	26.6
		460			4.1	2304	4.1	2430	9.2-12	76	67	22.5
3	2.2	230	60	1.15	9.5	2920	10.9	3360	1.8-2.2	77	77	60.3
		380			5.8	2920	6.6	3360	4.7-6	77	77	37.5
		460			5.3	3120	5.5	3360	7.2-8.8	77	71	31
5	3.7	230	60	1.15	15.9	4800	17.8	5500	0.91-1.1	78	78	102
		380			9.6	4800	10.8	5500	2.6-3.2	78	78	60.2
		460			8.5	5240	8.9	5500	3.6-4.4	78	71	53.7
7.5	5.5	230	60	1.15	23	7150	26.4	8200	0.60-0.70	78	78	152
		380			13.9	7150	16	8200	1.6-2.0	78	78	92.7
		460			12.2	7540	13.2	8200	2.3-2.8	78	73	83.8
10	7.5	230	60	1.15	31.2	10500	34.6	11400	0.50-0.60	75	75	234
		380			19.3	10000	21	11400	1.2-1.6	75	75	140
		460			17	10120	17.3	11400	1.8-2.3	75	74	116

### MOTOR PERFORMANCE DATA SINGLE PHASE 60HZ

6 INCH REWINDABLE MOTORS PERFORMANCE DATA 60 HZ

RATING					FULL LOAD		MAXIMUM LOAD		LINE TO LINE RESISTANCE IN OHMS	EFFICIENCY %		LOCKED ROTOR AMPS
[HP]	[kW]	VOLTS	Hz	S.F.	AMPS	WATTS	AMPS	WATTS		S.F.	F.L.	
5.5	4	230	60	1.15	16.2	5183	18.3	5960	1-1.03	77	77	106
		380			8.8	4850	9.9	5578	2.86-2.95	78	78	61
		460			8.9	5160	10.1	5934	2.86-2.95	78	78	51
7.5	5.5	230	60	1.15	21.8	7200	24.6	8280	1-1.03	77	77	106
		380			12.2	6750	13.8	7763	2.86-2.95	77	77	61
		460			11	7000	12.4	8050	2.86-2.95	79	79	51
10	7.5	230	60	1.15	29.5	9650	33.3	11098	0.6-0.63	78	78	146
		380			16.7	9220	18.9	10603	1.86-1.75	79	79	81
		460			16.6	9720	18.8	11178	1.86-1.75	78	78	64
12.5	9.3	230	60	1.15	36.5	12012	41.2	13814	0.51-0.54	78	78	183
		380			20.1	11318	22.7	13016	1.52-1.6	80	80	100
		460			19.1	11750	21.6	13513	1.52-1.6	79	79	78
15	11	230	60	1.15	44.1	14126	49.8	16245	0.44-0.46	78	78	220
		380			24.2	13410	27.3	15422	1.3-1.34	80	80	129
		460			22.9	13860	25.9	15939	1.3-1.34	80	80	98
17.5	13	230	60	1.15	51.2	16832	57.9	19357	0.39-0.40	77	77	288
		380			27.7	15564	31.3	17899	1.16-1.18	79	79	164
		460			25.1	16102	28.4	18517	1.16-1.18	81	81	125
20	15	230	60	1.15	57.1	18714	64.5	21521	0.29-0.30	81	81	325
		380			31.6	17842	35.7	20518	0.81-0.84	82	82	188
		460			29.6	18280	33.4	21022	0.81-0.84	82	82	151
25	18.5	230	60	1.15	68.8	22712	77.7	26119	0.21-0.22	82	82	402
		380			39.3	22019	44.4	25322	0.65-0.67	81	81	249
		460			39.1	23441	44.2	26957	0.65-0.67	79	79	184
30	22	230	60	1.15	81.2	27382	91.8	31489	0.18-0.19	81	81	520
		380			47.6	27012	53.8	31064	0.57-0.58	79	79	309
		460			46.5	27926	52.5	32115	0.57-0.58	79	79	232
35	26	230	60	1.15	95.2	32546	107.6	37428	0.19-0.20	80	80	118.3
		380			55.1	31832	62.3	36607	0.56-0.57	79	79	67.5
		460			55.1	32615	62.3	37507	0.56-0.57	80	80	55.7
40	30	230	60	1.15	108	37412	122	43024	0.17-0.18	80	80	758
		380			64.6	36951	73	42494	0.52-0.54	79	79	436
		460			58.5	37312	66.1	42909	0.52-0.54	81	81	346
50	37	230	60	1.15	139	46950	157.1	53993	0.14-0.15	79	79	937
		380			78.5	44827	88.7	51551	0.43-0.44	78	78	567
		460			70.8	46085	80	52998	0.43-0.44	80	80	430