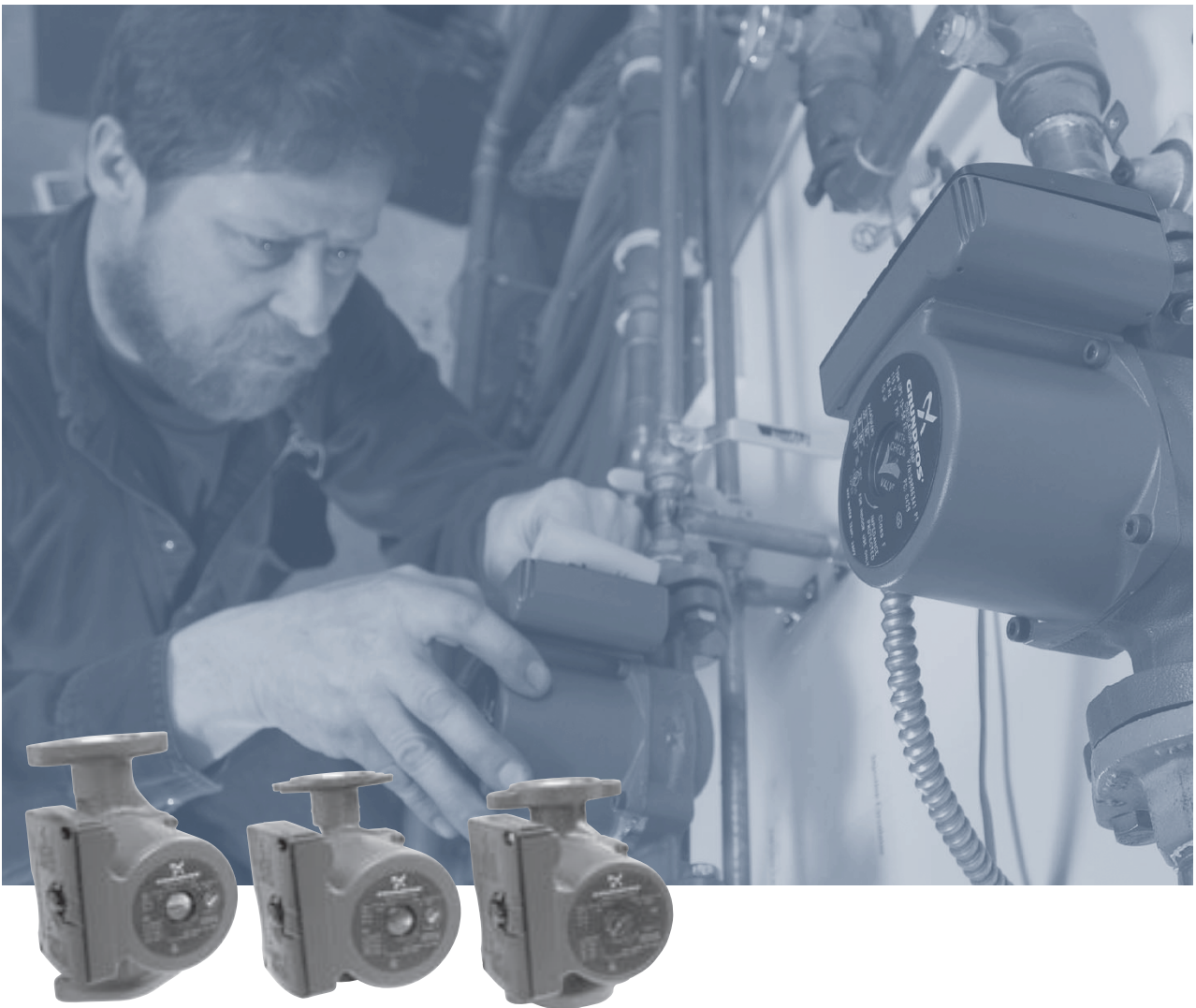


UP Series

Circulation Pumps
60 Hz



CONTENTS

GRUNDFOS SERIES UP

Mission	page 3
----------------------	--------

General data

TACO CROSS REFERENCE	page 4
B&G CROSS REFERENCE	page 5
ARMSTRONG CROSS REFERENCE	page 6
LAING CROSS REFERENCE	page 6
UP10-16 CROSS REFERENCE	page 7
Performance Ranges	pages 8-10
Quick Reference (Bronze and Stainless Open Systems) ..	page 11
Quick Reference (Cast Iron Closed Systems)	page 12
Type keys	page 12
Applications, Heating systems	page 13
Domestic Hot Water Systems	page 13
Construction	page 13
Installation, Motor, Pumped liquids	page 14
Ambient and liquid temperatures	page 14
Maximum system pressure	page 14
Inlet pressure requirements	page 14
Performance	page 15
Miximizer - Mixing Reset pump	page 15
Variable Speed pump	page 15
UP10-16	page 16

Technical data

UP 10-16	page 17
UP 15-10B5/B7	page 18
UP 15-10BUC5/7	page 19
UP 15-10F/FR	page 20
UP 15-10SU7P/TLC (COMFORT SYSTEM)	page 21
UP 15-18B5/B7	page 22
UP 15-18BUC5/BUC7	page 23
UP 15-18SU/SF	page 24
UP 15-42B5/B7	page 25
UP 15-42BUC5/BUC7	page 26
UP 15-42BUCX/MR (MIXIMIZER)	page 27
UP 15-42FC/MR (MIXIMIZER)	page 28
UP 15-42F/FR	page 29
UP 15-42F/VS	page 30

UP 15-42SU/SF	page 31
UPS 15-42F/FR	page 32
UPS 15-42SU,SF	page 33
UPS 15-58FC/FRC (SUPERBRUTE)	page 34
UP 15-100F	page 35
UP 25-64SU/SF	page 36
UP 26-64F	page 37
UP 26-64F/VS	page 38
UP 26-96BF	page 39
UP 26-96F	page 40
UP 26-96F/VS	page 41
UP 26-99BF	page 42
UP 26-99F	page 43
UPS 26-99 FC/BFC (SUPER BRUTE)	page 44
UP 26-116F & BF	page 45
UP 26-120U	page 46
UP 43-44BF	page 47
UP 43-44F	page 48
UPS 43-44 FC/BFC (SUPER BRUTE)	page 49
UP 43-64BFC/MR (MIXIMIZER)	page 50
UP 43-64FC	page 51
UP 43-64FC/MR (MIXIMIZER)	page 52
UP 43-70F	page 53
UP 43-75BF	page 54
UP 43-75F	page 55
UP 43-110F	page 56
UP 50-44F	page 57
UP 50-75F	page 58

Accessories

UP Timer	page 59
AquaStat	page 59
Domestic Circ Accessories	page 60
Packaged Fitting Sets	page 60
Flange Options	page 61

Submittal data sheet

Submittal data	page 62
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MISSION

GRUNDFOS SERIES UP

- to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and healthier environment



Bjerringbro, Denmark



Fresno, California



Olathe, Kansas



Monterrey, Mexico



Allentown, Pennsylvania



Oakville, Ontario

- One of the 3 largest pump companies in the world with over 14,000 employees worldwide
- World headquarters in Denmark
- North American headquarters in Kansas City - Manufacturing in Fresno, California
- 60 companies in 41 countries
- More than 10 million pumps produced annually worldwide
- North American companies operating in USA, Canada and Mexico
- Continuous reinvestment in growth and development enables the company to **BE** responsible, **THINK** ahead, and **INNOVATE**

TACO CROSS REFERENCE

COMPETITOR CROSS REFERENCE								
Open Systems: Stainless Steel and Bronze Body Pumps								
Taco Pumps*			Comparable Grundfos Replacement Options					
Model	Conn. Type	Pump Length	Primary Model(s)	Conn. Type	Pump Length	Secondary Model(s)	Conn. Type	Pump Length
003-BC	1/2"Swt	4-13/32	UP15-10B5	1/2"Swt	5			
003-B	3/4"Swt	4-1/4	UP15-10B7	3/4"Swt	6 3/8			
003-BC-1	1" U	6	UPS15-42SU SPD1	1 1/4"U	5 7/8			
005-BF2	FIng-R	6-3/8	UP15-42SF	Flange	6 1/2			
006-BC4	1/2"Swt	4-1/4	UP15-18B5	1/2"Swt	5			
006-B4	3/4"Swt	4-13/32	UP15-18B7	3/4"Swt	6 3/8			
006-BC4-1	1" U	5-15/16	UP15-18SU	1 1/4"U	5 7/8			
007-BF5	FIng-R	6-3/8	UP25-64SF	Flange	6 1/2	UP15-42SF (1-8 GPM)	Flange	6 1/2
007-BF5 opt	Flange	6-3/8	UP25-64SF	Flange	6 1/2	UP15-42SF (1-8 GPM)	Flange	6 1/2
008-BC6	3/4"Swt	6-3/8	UP15-42B7	3/4"Swt	6 3/8			
008-BF6	FIng-R	6-3/8	UP25-64SF	Flange	6 1/2			
009-BF5	Flange	6-3/8	UP26-96BF	Flange	6 1/2			
0011-BF4	Flange	6-1/2	UP26-99BF	Flange	6 1/2			
0012-BF4	FIng-R	8-1/2	UP43-44BF	Flange	8 1/2			
0013-BF3	Flange	6-1/2	UP26-116BF (230v)	Flange	6 1/2			
0014-BF1	FIng-R	6-1/2	UP43-75BF	Flange	8 1/2			
Bronze Body Pumps with Integrated Check Valve								
006-BC7-1IFC	1/2"Swt	4-3/8	UP15-18BUC5	1/2"Swt	6 1/2			
006-BC7-IFC	3/4"Swt	4-3/8	UP15-18BUC7	3/4"Swt	7 3/4			
Closed Systems: Cast Iron Body Pumps								
005-F2	FIng-R	6-3/8	UPS15-58FR SPD2	FIng-R	6 1/2			
			UPS15-42FR SPD2	FIng-R	6 1/2			
007-F5	FIng-R	6-3/8	UPS15-58FR	FIng-R	6 1/2	UPS15-58F	Flange	6 1/2
			UPS15-42FR	FIng-R	6 1/2	UPS15-42F	Flange	6 1/2
			UP15-42FR	FIng-R	6 1/2	UP15-42F	Flange	6 1/2
007-F5 opt	Flange	6-3/8	UPS15-58F	Flange	6 1/2	UPS15-58FR	FIng-R	6 1/2
			UPS15-42F	Flange	6 1/2	UPS15-42FR	FIng-R	6 1/2
			UP15-42F	Flange	6 1/2	UP15-42FR	FIng-R	6 1/2
008-F6	FIng-R	6-3/8	UPS15-58FR	FIng-R	6 1/2	UPS15-58F	Flange	6 1/2
			UPS15-42FR	FIng-R	6 1/2	UPS15-42F	Flange	6 1/2
			UP15-42FR	FIng-R	6 1/2	UP15-42F	Flange	6 1/2
009-F5	Flange	6-3/8	UP15-100F	Flange	6 1/2			
0011-F4	Flange	6-1/2	UP26-99F	Flange	6 1/2			
0012-F4	FIng-R	8-1/2	UP43-44F	Flange	8 1/2			
0012-F4-1	2"FIng-R	8-1/2	UP50-44F	2"FIng	8 1/2	UP50-75F	2"FIng	8 1/2
0013-F3	Flange	6-1/2	UP26-116F (230v)	Flange	6 1/2			
0014-F1	FIng-R	6-1/2	UP26-64F	Flange	6 1/2	UP26-96F	Flange	6 1/2
Cast Iron Body Pumps with Integrated Check								
007-F5-IFC	FIng-R	6-3/8	UPS15-58FRC SPD2	FIng-R	6 1/2			
005-IFC	FIng-R	6-3/8	UPS15-58FRC SPD1	FIng-R	6 1/2			
007-IFC	FIng-R	6-3/8	UPS15-58FRC SPD2	FIng-R	6 1/2			
008-IFC	FIng-R	6-3/8	UPS15-58FRC SPD3	FIng-R	6 1/2			
0010-IFC	FIng-R	6-3/8	UPS15-58FRC SPD3	FIng-R	6 1/2			

* Taco pump information taken from literature on Taco website August 2002. Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

B&G CROSS REFERENCE

COMPETITOR CROSS REFERENCE								
Open Systems: Stainless Steel and Bronze Body Pumps								
B&G Pumps*			Comparable Grundfos Replacement Options					
Model	Conn. Type	Pump Length	Primary Model(s)	Conn. Type	Pump Length	Secondary Model(s)	Conn. Type	Pump Length
NBF-8SILW	1/2"Swt	5	UP15-10B5	1/2"Swt	5			
NBF-9UILW	1 1/4"U	6-1/8	UP15-18SU	1 1/4"U	5 7/8			
NBF-10SILW	1/2"Swt	5	UP15-18B5	1/2"Swt	5			
NBF-12UILW	1 1/4"U	6-1/8	UP15-42SU	1 1/4"U	5 7/8			
NBF-12FILW	Flng-R	6-3/8	UP15-42SF	Flange	6 1/2			
NBF-18S	1/2"Swt	5	UP15-42B5	1/2"Swt	5			
NBF-22U	1 1/4"U	6-1/8	UP25-64SU	1 1/4"U	5 7/8	UP15-42SU (1-8) GPM	1 1/4"U	5 7/8
NBF-22	Flng-R	6-3/8	UP25-64SF	Flange	6 1/2	UP15-42SF (1-8) GPM	Flange	6 1/2
LR-15B	Flange	6-3/8	UP25-64SF	Flange	6 1/2	UP15-42SF (1-8) GPM	Flange	6 1/2
Series HV B	Flng-R	8-1/2	UP43-44BF	Flange	8 1/2			
Series PR B	Flng-R	8-1/2	UP26-96BF	Flange	6 1/2			
PL30B	Flange	6-3/8	UP26-96BF	Flange	6 1/2			
PL36B	Flange	6-1/2	UP26-116BF (230v)	Flange	6 1/2			
Closed Systems: Cast Iron Body Pumps								
NRF-9FILW	Flng-R	6-3/8	UP15-10FR	Flng-R	6 1/2	UP15-10F	Flange	6 1/2
			UPS15-58FR SPD1	Flng-R	6 1/2	UPS15-58F SPD1	Flange	6 1/2
			UPS15-42FR SPD1	Flng-R	6 1/2	UPS15-42F SPD1	Flange	6 1/2
NRF-22	Flng-R	6-3/8	UPS15-58FR	Flng-R	6 1/2	UPS15-58F	Flange	6 1/2
			UP15-42FR	Flng-R	6 1/2	UP15-42F	Flange	6 1/2
			UPS15-42FR	Flng-R	6 1/2	UPS15-42F	Flange	6 1/2
LR-20BF	Flange	6-3/8	UPS15-58F	Flange	6 1/2	UPS15-58FR	Flng-R	6 1/2
			UP15-42F	Flange	6 1/2	UP15-42FR	Flng-R	6 1/2
			UPS15-42F	Flange	6 1/2	UPS15-42FR	Flng-R	6 1/2
Series HV	Flng-R	8-1/2	UP43-44F	Flange	8 1/2			
Series PR	Flng-R	8-1/2	UP26-64F	Flange	6 1/2	UP26-96F	Flange	6 1/2
2"	2"Flng-R	8-1/2	UP50-44F	2"Flng	8 1/2			
PL30	Flange	6-3/8	UP26-64F	Flange	6 1/2	UP26-96F	Flange	6 1/2
PL36	Flange	6-3/8	UP26-116F (230v)	Flange	6 1/2			
PL75	2"Flng	8 1/2	UP50-44F	2"Flng	8 1/2			

* B&G pump information taken from literature on B&G website August 2002.

Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

ARMSTRONG CROSS REFERENCE

COMPETITOR CROSS REFERENCE								
Open Systems: Stainless Steel and Bronze Body Pumps								
Armstrong Pumps*			Comparable Grundfos Replacement Options					
Model	Conn. Type	Pump Length	Primary Model(s)	Conn. Type	Pump Length	Secondary Model(s)	Conn. Type	Pump Length
Astro20B1/2S	1/2"Swt	5	UP15-10B5	1/2"Swt	5			
Astro20B3/4S	3/4"Swt	5	UP15-10B7	3/4"Swt	6 3/8			
Astro20BU	1 1/4"U	6	UP15-18SU	1 1/4"U	5 7/8			
Astro25B1/2S	1/2"Swt	5	UP15-18B5	1/2"Swt	5			
Astro25B3/4S	3/4"Swt	5	UP15-18B7	3/4"Swt	6 3/8			
Astro25BU	1 1/4"U	6	UP15-42SU	1 1/4"U	5 7/8			
Astro30B	Fling-R	6-3/8	UP25-64SF	Flange	6 1/2	UP15-42SF (1-8) GPM	Flange	6 1/2
Astro50B	Fling-R	6-3/8	UP25-64SF	Flange	6 1/2			
H32B	Fling-R	8-9/16	UP43-44BF	Flange	8 1/2			
Closed Systems: Cast Iron Body Pumps								
Astro30	Fling-R	6-3/8	UPS15-58FR	Fling-R	6 1/2	UPS15-58F	Flange	6 1/2
			UP15-42FR	Fling-R	6 1/2	UP15-42F	Flange	6 1/2
			UPS15-42FR	Fling-R	6 1/2	UPS15-42F	Flange	6 1/2
Astro50	Fling-R	6-3/8	UP26-64F	Flange	6 1/2	UP26-96F	Flange	6 1/2
H32	Fling-R	8-9/16	UP43-44F	Flange	8 1/2			
S35	2"Fling-R	8-1/2	UP50-44F	2"Fling	8 1/2			

* Armstrong pump information taken from literature on Armstrong website August 2002. Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

LAING CROSS REFERENCE

COMPETITOR CROSS REFERENCE					
Open Systems: Stainless Steel and Bronze Body Pumps					
Laing Pumps*			Comparable Grundfos Replacement Options		
Model	Conn. Type	Pump Length	Model	Conn. Type	Pump Length
SM-909-BS 1/2-14	1/2"Swt	6	UP15-18B5	1/2"Swt	5
SM-909-BS 3/4-14	3/4"Swt	6	UP15-18B7	3/4"Swt	6 3/8
SM-909-BF 14	Flange	6-1/2	UP15-42SF	Flange	6 1/2
			UPS15-42SF	Flange	6 1/2
SM-909-BS 1/2	1/2"Swt	6	UP15-42B5	1/2"Swt	5
SM-909-BS 3/4	3/4"Swt	6	UP15-18B7	3/4"Swt	6 3/8
SM-909-BF	Flange	6-1/2	UP15-42SF	Flange	6 1/2
			UPS15-42SF	Flange	6 1/2
SM-909-BF-26	Flange	6-1/2	UP25-64SF	Flange	6 1/2
SM-1212-BF-26	Flange	6-1/2	UP26-96BF	Flange	6 1/2

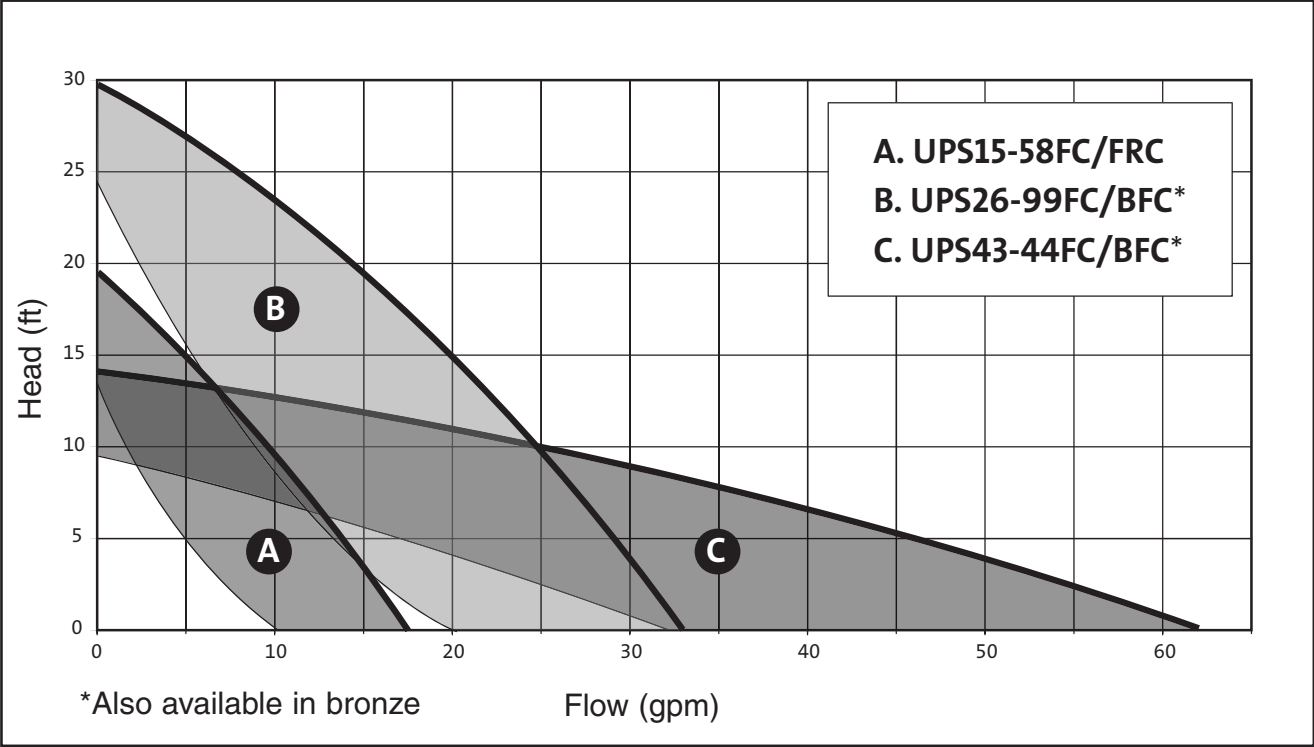
* Laing pump information taken from literature on Laing website August 2002. Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

UP10-16 CROSS REFERENCE

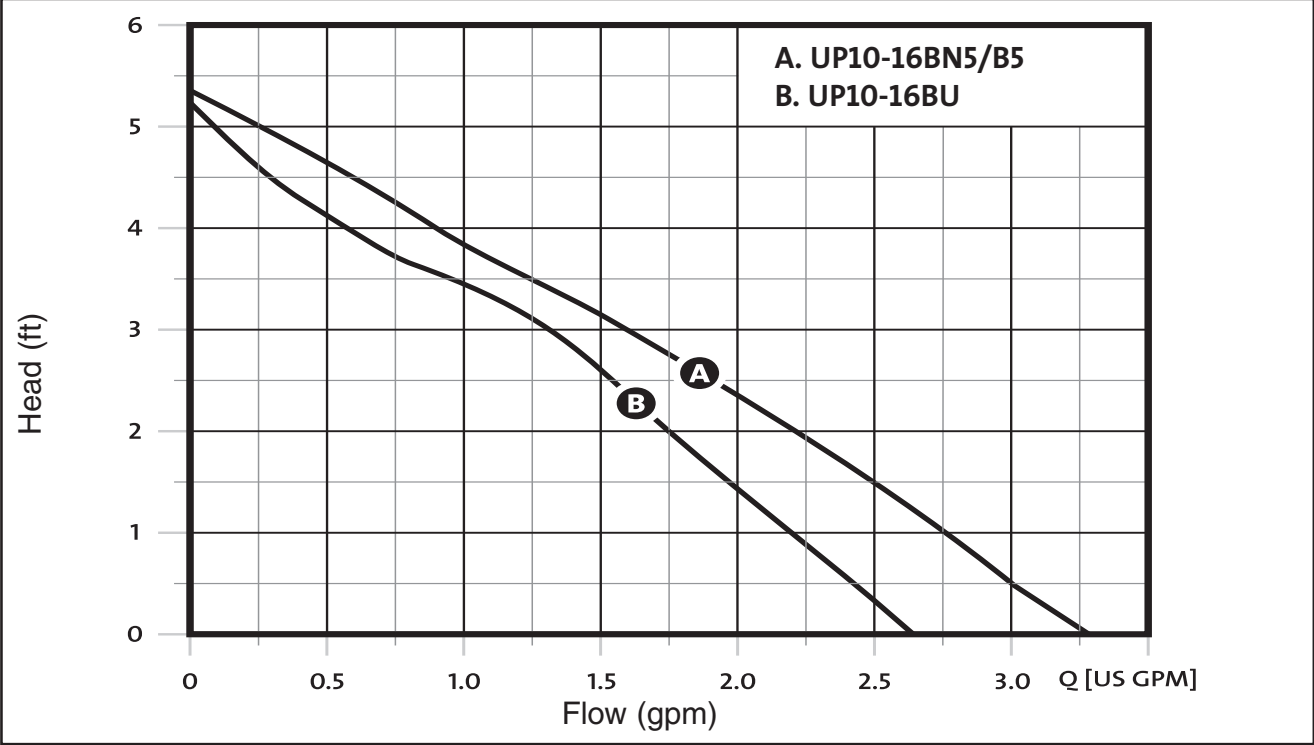
COMPETITOR CROSS REFERENCE			
<i>Laing Pumps*</i>		<i>Comparable Grundfos Replacement Options</i>	
Model	Description	Model	Description
SM303BS	1/2 sweat	UP10-16B5/LC	1/2 sweat/cord
SM303BT	1/2 thread	UP10-16BN5/LC	1/2 thread/cord
SM303BSW	1/2 sweat/cord	UP10-16B5/LC	1/2 sweat/cord
SM303BTW	1/2 thread/cord	UP10-16BN5/LC	1/2 thread/cord
SM303BSC	1/2 sweat/stat	UP10-16B5/ATLC	1/2 sweat/stat/cord/timer
SM303BTC	1/2 thread/stat	UP10-16BN5/ATLC	1/2 thread/stat/cord/timer
SM303BSCW	1/2 sweat/stat/cord	UP10-16B5/ATLC	1/2 sweat/stat/cord/timer
SM303BTCW	1/2 thread/stat/cord	UP10-16BN5/ATLC	1/2 thread/stat/cord/timer
SMT303BS	1/2 sweat/timer	UP10-16B5/TLC	1/2 sweat/cord/timer
SMT303BT	1/2 thread/timer	UP10-16BN5/TLC	1/2 thread/cord/timer
SMT303BSW	1/2 sweat/cord/timer	UP10-16B5/TLC	1/2 sweat/cord/timer
SMT303BTW	1/2 thread/cord/timer	UP10-16BN5/TLC	1/2 thread/cord/timer
SMT303BSC	1/2 sweat/stat/timer	UP10-16B5/ATLC	1/2 sweat/stat/cord/timer
SMT303BTC	1/2 thread/stat/timer	UP10-16BN5/ATLC	1/2 thread/stat/cord/timer
SMT303BSCW	1/2 sweat/stat/cord/timer	UP10-16B5/ATLC	1/2 sweat/stat/cord/timer
SMT303BTCW	1/2 thread/stat/cord/timer	UP10-16BN5/ATLC	1/2 thread/stat/cord/timer

* Laing pump information taken from literature on Laing website August 2002. Grundfos provides no guarantee as to the accuracy of competitor information listed herein.

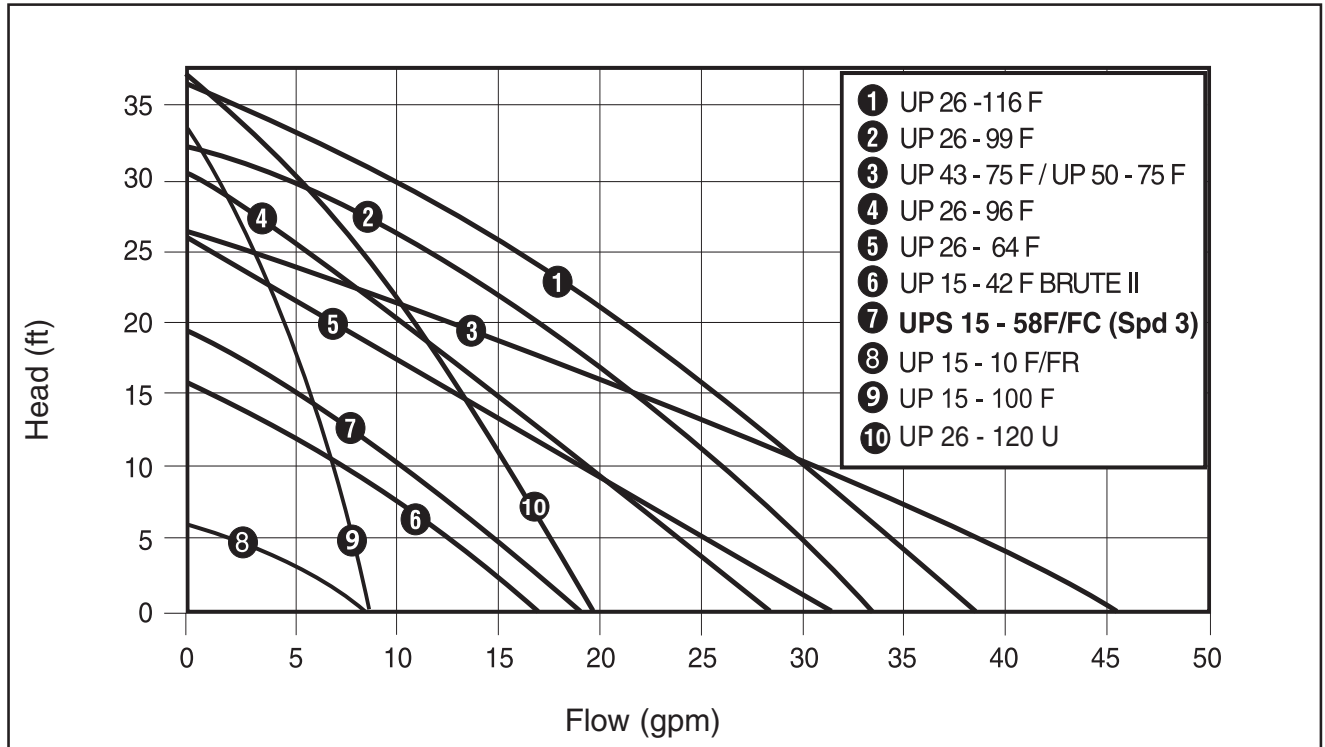
SuperBrute Team, 60HZ



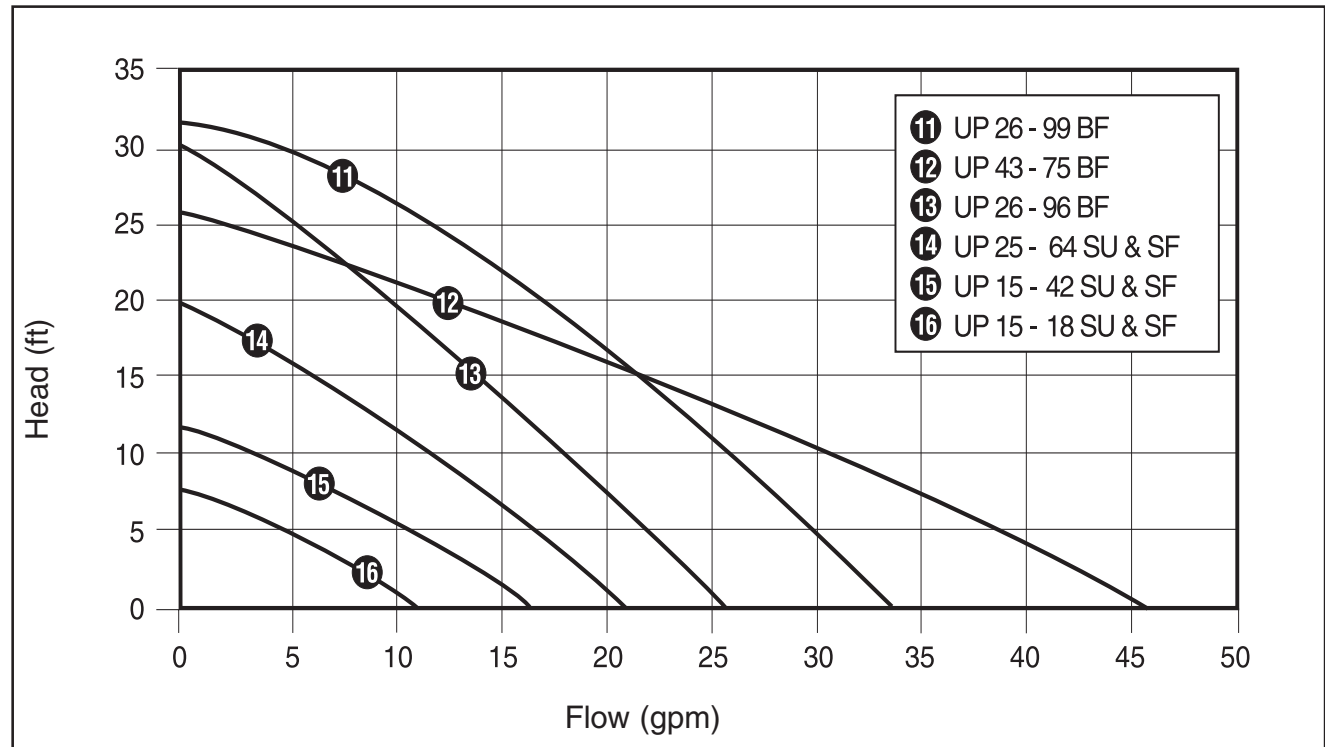
UP10-16, OPEN SYSTEM 60HZ



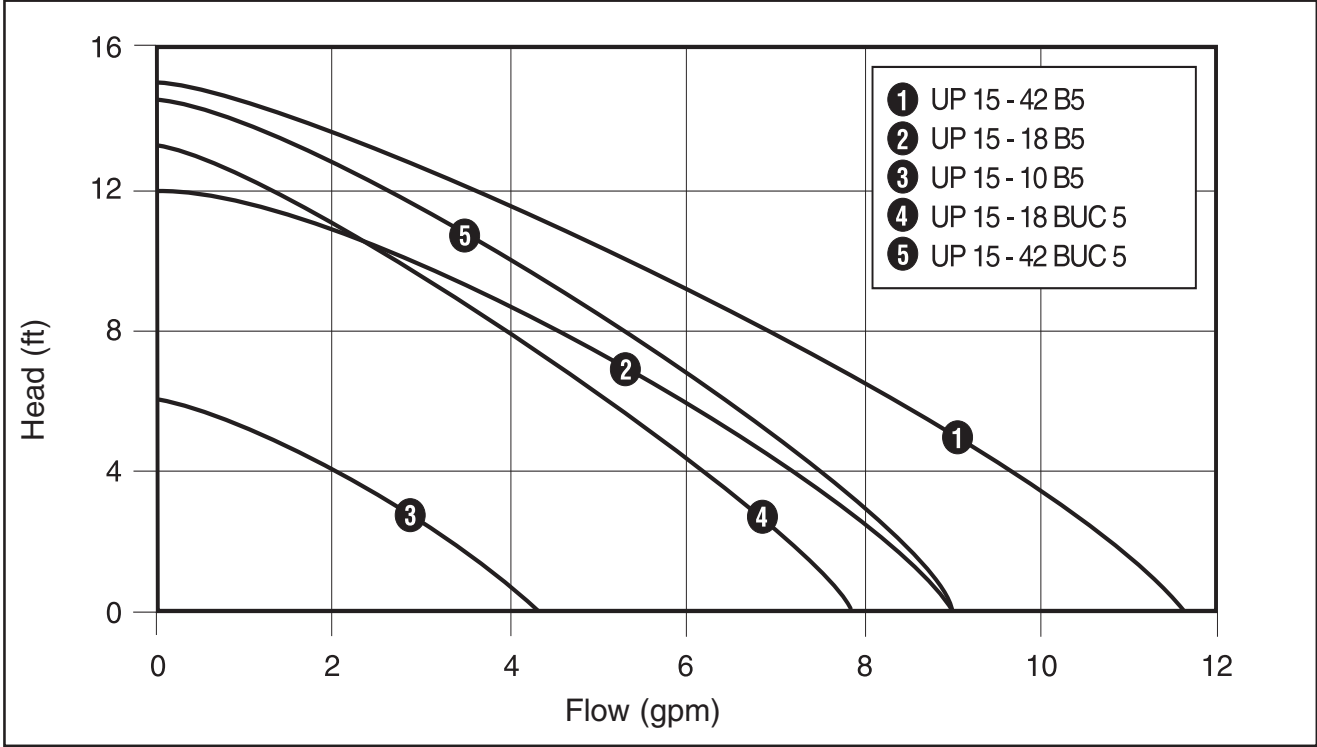
CLOSED SYSTEMS 60HZ



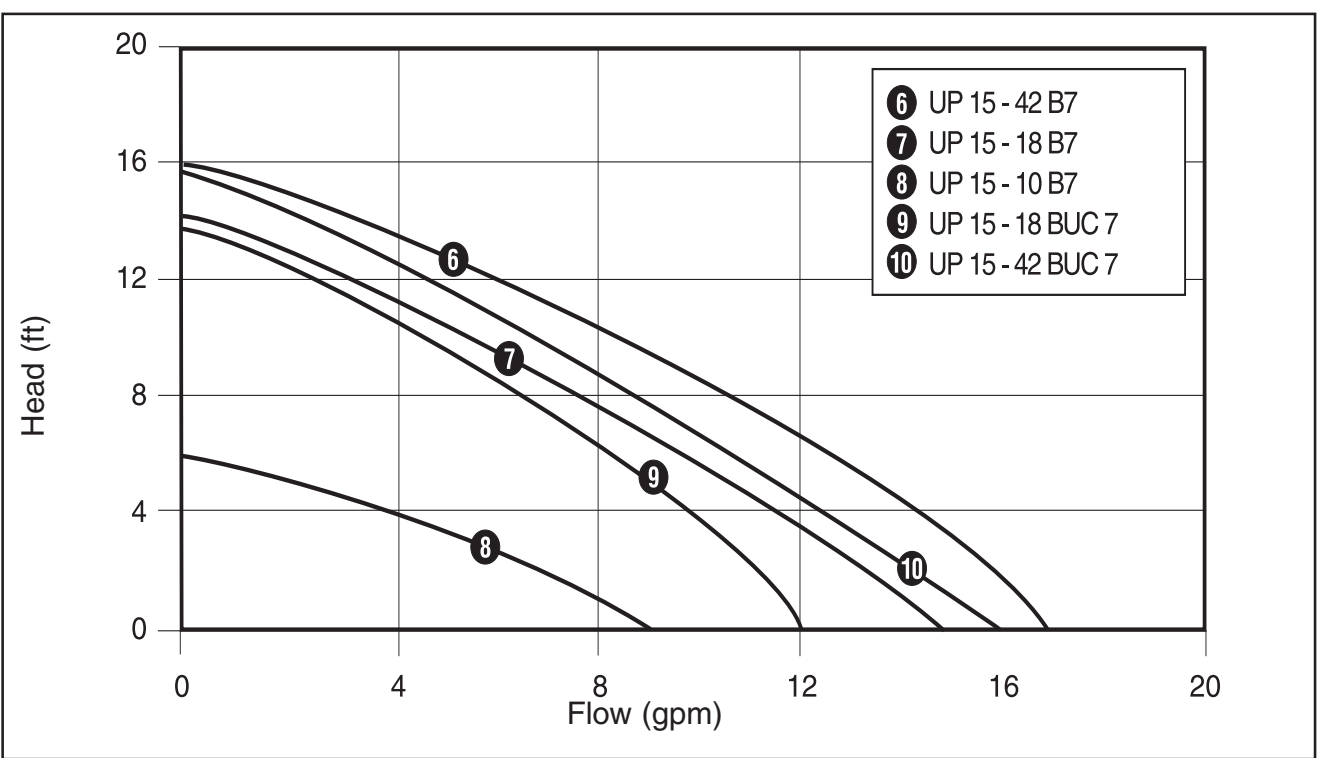
OPEN SYSTEMS 60HZ



OPEN SYSTEMS 1/2" 60HZ



OPEN SYSTEMS 3/4" 60HZ



GENERAL DATA

GRUNDFOS SERIES UP

Bronze Open Systems	Material #		Flow	Head	Flanged	Union	NPT	Sweat	Check Valve	Page #
UP 10-16B5/LC	96433894	-	0-3 gpm	0-5.4 ft				YES		17
UP 10-16B5/TLC	96433895	-	0-3 gpm	0-5.4 ft				YES		17
UP 10-16B5/ATLC	96433896	-	0-3 gpm	0-5.4 ft				YES		17
UP 10-16BN5/LC	96433897	-	0-3 gpm	0-5.4 ft			YES			17
UP 10-16BN5/TLC	96433898	-	0-3 gpm	0-5.4 ft			YES			17
UP 10-16BN5/ATLC	96433899	-	0-3 gpm	0-5.4 ft			YES			17
UP 10-16BU/ATLC	96433902	-	0-3 gpm	0-5.4 ft		YES			YES	17
UP 15-10B5	59896213	-	0-9 gpm	0-6 ft				YES		18
UP 15-10B5/LC	59896214	-	0-9 gpm	0-6 ft				YES		18
UP 15-10B5/TLC	59896215	-	0-9 gpm	0-6 ft				YES		18
UP 15-10B7	59896226	-	0-9 gpm	0-6 ft				YES		18
UP 15-10B7/LC	59896209	-	0-9 gpm	0-6 ft				YES		18
UP 15-10B7/TLC	59896210	-	0-9 gpm	0-6 ft				YES		18
UP 15-10BUC5	59896225	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-10BUC5/LC	59896237	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-10BUC5/TLC	59896238	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-10BUC7	59896241	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-10BUC7/LC	59896239	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-10BUC7/TLC	59896240	-	0-9 gpm	0-6 ft		YES			YES	19
UP 15-18B5	59896114	59896118	0-15 gpm	0-14 ft				YES		22
UP 15-18B5/LC	59896211	-	0-15 gpm	0-14 ft				YES		22
UP 15-18B5/TLC	59896212	-	0-15 gpm	0-14 ft				YES		22
UP 15-18B7	59896121	59896119	0-15 gpm	0-14 ft				YES		22
UP 15-18B7/LC	59896229	-	0-15 gpm	0-14 ft				YES		22
UP 15-18B7/TLC	59896230	-	0-15 gpm	0-14 ft				YES		22
UP 15-18BUC5	59896123	-	0-12 gpm	0-16 ft		YES			YES	23
UP 15-18BUC7	59896124	-	0-12 gpm	0-16 ft		YES			YES	23
UP 15-42B5	59896145	59896142	0-17 gpm	0-15.5 ft				YES		25
UP 15-42B5/LC	59896233	-	0-17 gpm	0-15.5 ft				YES		25
UP 15-42B5/TLC	59896234	-	0-17 gpm	0-15.5 ft				YES		25
UP 15-42B7	59896146	59896149	0-17 gpm	0-15.5 ft				YES		25
UP 15-42B7/LC	59896235	-	0-17 gpm	0-15.5 ft				YES		25
UP 15-42B7/TLC	59896236	-	0-17 gpm	0-15.5 ft				YES		25
UP 15-42BUC5	59896150	-	0-16.5 gpm	0-15 ft		YES			YES	26
UP 15-42BUC7	59896151	-	0-16.5 gpm	0-15 ft		YES			YES	26
UP 15-42BUC5/MR*	59896285	-	0-16.5 gpm	0-15 ft		YES			YES	27
UP 15-42BUC7/MR*	59896286	-	0-16.5 gpm	0-15 ft		YES			YES	27
UP 26-96BF	52722336	52722334	0-27.5 gpm	0-30 ft	YES					39
UP 26-99BF	52722347	52722346	0-32 gpm	0-32 ft	YES					42
UPS 26-99 BF SUPERBRUTE	52722518	52722519	0-30 gpm	0-32 ft	YES				YES	44
UP 26-116BF	-	52722393	0-38.5 gpm	0-37.5 ft	YES					44
UP 43-44BF	52722439	52722440	0-64 gpm	0-13.5 ft	YES					46
UPS 43-44 BF SUPERBRUTE	52722520	52722521	0-64 gpm	0-14 ft	YES				YES	49
UP 43-64BFC/MR*	52722401	-	0-34 gpm	0-23 ft	YES				YES	50
UP 43-75BF	52722370	52722369	0-45 gpm	0-26 ft	YES					54

Stainless Open Systems	Material #		Flow	Head	Flanged	Union	NPT	Sweat	Check Valve	Page #
UP 15-10SU7P/TLC*	595916	-	0-3.4 gpm	0-3.5 ft		YES	YES			21
UP 15-18SU	59896127	59896130	0-12 gpm	0-7.5 ft	YES	YES				24
UP 15-18SU/LC	59896231	-	0-12 gpm	0-7.5 ft	YES	YES				24
UP 15-18SU/TLC	59896232	-	0-12 gpm	0-7.5 ft	YES	YES				24
UP 15-18SF	59896125	59896126	0-12 gpm	0-7.5 ft	YES	YES				24
UP 15-42SU	59896174	59896172	0-15.5 gpm	0-12 ft	YES	YES				31
UP 15-42SF	59896171	59896170	0-15.5 gpm	0-12 ft	YES	YES				31
UP 25-64SU	52722324	52722323	0-20.5 gpm	0-19 ft	YES	YES				36
UP 25-64SF	52722322	52722320	0-20.5 gpm	0-19 ft	YES	YES				36

*Note: VS - Variable Speed, MR - MixiMizer, SU7P - Comfort System with 3/4" MXF NPT

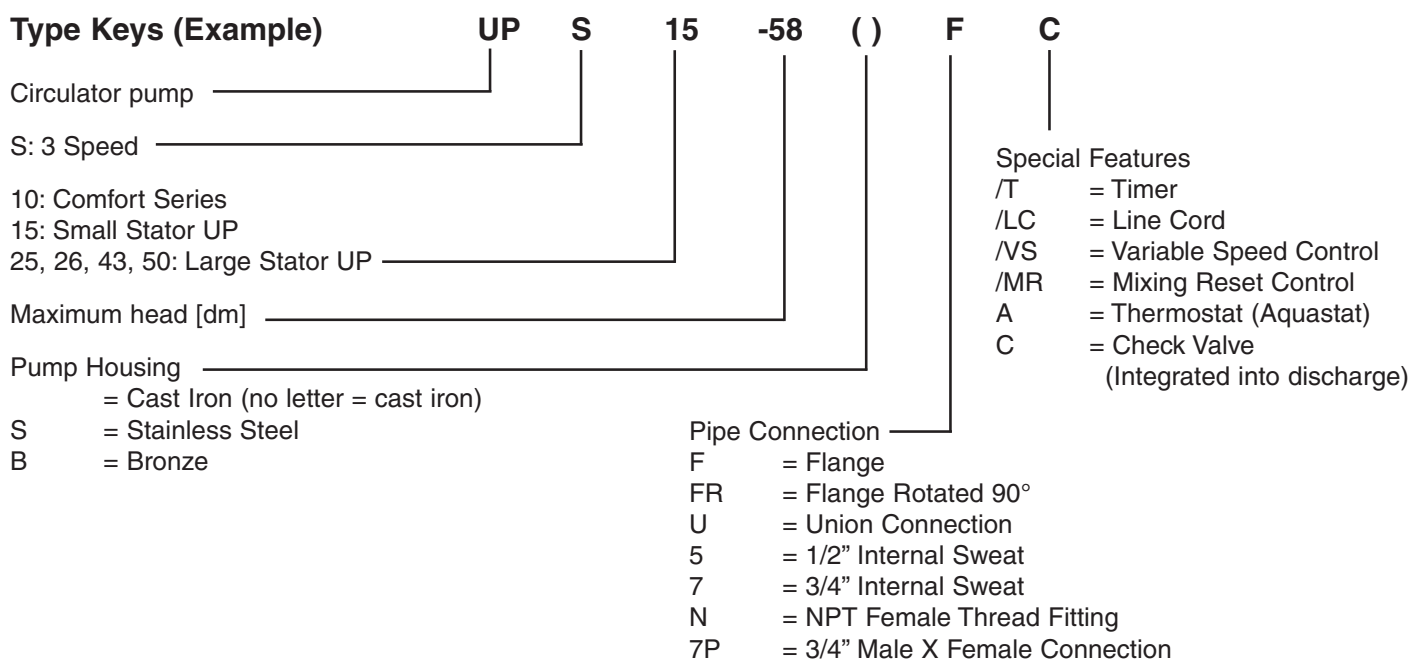
GENERAL DATA

GRUNDFOS SERIES UP

Cast Iron Closed Systems	Material #		Flow	Head	Flanged	Union	NPT	Sweat	Check Valve	Page #
	115 Volt	230 Volt								
UP 15-10F	59896248	-	0-8 gpm	0-5.5 ft	YES					20
UP 15-10FR	59896249	-	0-8 gpm	0-5.5 ft	YES					20
UP 15-42FC/MR*	59896277	-	0-9 gpm	0-14 ft	YES				YES	28
UP 15-42F	59896155	59896173	0-17 gpm	0-15 ft	YES					29
UP 15-42FR	59896167	59896274	0-17 gpm	0-15 ft	YES					29
UP 15-42F/VS*	59896280	-	0-9 gpm	0-14 ft	YES					30
UPS 15-42F	59896178	59896180	0-17.5 gpm	0-17 ft	YES					32
UPS 15-42FR	59896250	-	0-17.5 gpm	0-17 ft	YES					32
UPS 15-58FC SUPERBRUTE	59896341	-	0-17.5 gpm	0-19 ft	YES				YES	34
UPS 15-58FRC SUPERBRUTE	59896343	-	0-17.5 gpm	0-19 ft	YES				YES	34
UP 15-100F	59896300	-	0-8.5 gpm	0-33.5 ft	YES					35
UP 26-64F	52722330	52722327	0-34 gpm	0-24 ft	YES					37
UP 26-64F/VS*	52722405	-	0-31 gpm	0-24 ft	YES					38
UP 26-96F	52722341	52722338	0-27.5 gpm	0-30 ft	YES					40
UP 26-96F/VS*	52722399	-	0-27.5 gpm	0-30 ft	YES					41
UPS 26-99 F SUPERBRUTE	52722512	52722513	0-30 gpm	0-32 ft	YES				YES	44
UP 26-116F	-	52722377	0-38.5 gpm	0-37.5 ft	YES					44
UP 26-120U	52722435	52722436	0-19 gpm	0-38 ft		YES				45
UP 43-44F	52722437	52722438	0-64 gpm	0-13.5 ft	YES					46
UPS 43-44 F SUPERBRUTE	52722514	52722515	0-64 gpm	0-14 ft	YES				YES	49
UP 43-64FC	52722430	-	0-34 gpm	0-23 ft	YES				YES	51
UP 43-64FC/MR*	52722398	-	0-34 gpm	0-23 ft	YES				YES	52
UP 43-70F	96439644	-	15-85 gpm	1-24.5 ft	YES					53
UP 43-75F	52722373	52722372	0-45 gpm	0-26 ft	YES					55
UP 43-110F	96439643	-	15-90 gpm	1-37 ft	YES					56
UP 50-44F	52722441	52722442	0-64 gpm	0-13.5 ft	YES					57
UP 50-75F	52722352	52722353	0-45 gpm	0-27 ft	YES					58

*Note: VS - Variable Speed, MR - MixiMizer, SU7P - Comfort System with 3/4" MXF NPT

Type Keys (Example)



Applications

The Grundfos circulator pumps, Series UP, are specifically designed for heating systems. The pumps are also suitable for circulation of hot domestic water and for circulation of liquid in cooling and air-conditioning systems.

Heating systems

Common Uses:

Boiler/ Hydronic Heating

Ground Source Heat Pumps

Radiant Floor Heating

Hydronic & Fan Coil Heating

Solar Heating

Heat Recovery / Heat Pumps

Pump types with cast iron housing are generally used for these applications, considered to be closed systems pumping water or water/glycol mixtures. However, when water conditions exist that are not compatible with cast iron, bronze, brass, or stainless steel is recommended.

Optional variable speed and mixing reset controls are available to customize heat output vs heat demand for increased comfort.

Domestic Hot Water Systems

Common Uses:

Solar Water Heating

Hot Water Recirculation

Domestic Hot Water Heating

Pump types with bronze, brass or SS housing are used for these applications, considered to be open systems pumping potable water.

Optional timer and thermostat controls are available to limit pump operation to periods when hot water is required and to save energy.

Cooling Systems

Common Uses:

Chilled Water Pumping

Pump types UP25, 26, 43, 50 and pump housings compatible with the pumped fluids are recommended for chilled water due to their motor construction, which is suitable for 32°F (0°C) water.

Construction

The UP pumps are of the canned rotor type, i.e. pump and motor form an integral unit without shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.

The pumps are characterized by:

- Ceramic shaft and radial bearings.
- Carbon thrust bearing.
- Stainless steel rotor can and bearing plate.
- Impeller in corrosion-resistant material.
- Pump housing in cast iron, bronze or stainless steel.

Materials of Construction

Description (UP Closed Systems)	Material
Inlet Cone, Bearing Plate, Bearing Retainers, Rotor Can, Rotor Cladding, Shaft Retainer	304 Stainless Steel
Stator Housing	Aluminum
Shaft, Upper and Lower Radial Bearings	Aluminum Oxide Ceramic
Thrust Bearing	Metal Impregnated Carbon
Check Valve	ACETAL with 302 Stainless Steel Spring and Nitrile Rubber Seats
Pump Housing (Volute)	Cast Iron
O'Ring & Gaskets	EP (Ethylene Propylene Rubber)
Impeller	PES Composite (30% Glass Filled), PP (Polypropylene) 30% Glass filled on models UP15-100F & UP26-120U only
Terminal Box	Noryl®
Description (UP Open Systems)	Material
Inlet Cone, Bearing Plate, Bearing Retainers, Rotor Can, Rotor Cladding, Shaft Retainer	304 Stainless Steel
Volute Retainer (SU & SF Models) & Stator Housing	Aluminum
Shaft, Upper and Lower Radial Bearings	Aluminum Oxide Ceramic
Thrust Bearing	Metal Impregnated Carbon
Pump Housing (Volute)	Silicon Bronze C875 or Stainless Steel
O'Ring & Gaskets	EP (Ethylene Propylene Rubber)
Impeller	PES Composite (30% Glass Filled)
Terminal Box	Noryl®
Description (BUC5 & BUC7)	Material
Inlet Cone, Bearing Plate, Bearing Retainers, Rotor Can, Rotor Cladding, Shaft Retainer, Check Valve Spring	Stainless Steel
Stator Housing	Aluminum
Shaft, Upper and Lower Radial Bearings	Aluminum Oxide Ceramic
Thrust Bearing	Lead Free Bronze (Alloy C875)
Pump Housing (Volute)	Silicon Bronze
Tail Piece and Union Nut	Brass (UNS C36000)
O'Ring & Gaskets	EP (Ethylene Propylene Rubber)
Impeller	PES Composite (30% Glass Filled)
Terminal Box	Noryl®
Check Valve Housing, Valve & Torpedo	POM (polyoxymethylene)
Union Gasket	Non Asbestos Fiber

GENERAL DATA

GRUNDFOS SERIES UP

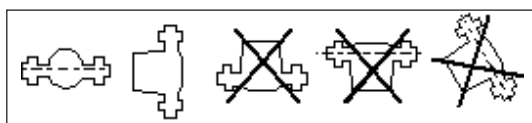
Installation

The pump must always be installed with horizontal motor shaft.

Proper installation of the pump will have the terminal box located to one side of the pump or the other, with the conduit entry down.

UP can be installed in both vertical and horizontal lines.

UP pumps are intended for indoor use only.



Motor

UP pumps

The motor is a 2 pole asynchronous squirrel-cage PSC (permanent split capacitor) motor with UL, CUL, and CSA approvals.

UP pumps are available in Single-phase 115V & 230V versions with one, or three speeds.

The terminal box is easily accessible and has functional cable connecting leads or terminals.

Insulation class: F.

The motor incorporates thermal overload or impedance protection. Therefore, no external motor protection is required.

UPS model pumps are multi speed and the speed can be changed by a speed selector switch located on the front of the terminal box.

UP models are single speed.

UP models with VS or MR suffixes are variable speed with integrated control.

Motor Horsepowers range from 1/25 thru 1/6 and power consumption from 25 to 385 watts.

Pumped liquids

Depending on type, Grundfos circulator pumps are designed for the following liquids:

- Potable Water
- Non-Potable Water
- Water/Glycol Mixtures.
- Chilled water.
- Domestic Hot Water
- Softened Water

If the circulator pump is used for a glycol mixture with a higher viscosity than water, the hydraulic performance of the pump will be reduced.

Example: 50% glycol at 68°F (20°C) means a viscosity of approx. 10 cSt and a reduction of pump performance by approx. 15%.

When selecting a pump, the viscosity of the pumped liquid must be taken into consideration.

Ambient and liquid temperatures

The maximum allowable water temperature is determined by the ambient or surrounding air temperature as shown in Table 2A.

Table 2A - Maximum Water Temperature					
Ambient (°F)	104	120	140	160	175
Water all cast iron* (°F)	230	220	210	190	175
Water all brz and ss	230	210	190	175	
*exceptions below					
UP/UPS15-FC					
& UP43-FC (°F)	230	190	180	170	-
UP15BUC5&BUC7 (°F)	230	190	180	170	-
UP15-100F (°F)	205	195	185	175	-
UP26-120U (°F)	205	195	185	175	-
UP26-116 (°F)	150	140	-	-	-

The above table refers to all standard product without timer/control options and or other special features.

The ambient temperature for standard pumps with a permissible liquid temperature from +2°C to +110°C should always be lower than the liquid temperature, as otherwise condensation may form in the stator housing.

Temperature requirements for pumps with timer/control and or other special features may be found on their technical data page.

For all Domestic Hot water systems it is recommended to keep the operating temp. as low as possible (e.g. 140°F (60°C)) to avoid calcium precipitation.

Maximum system pressure

ALL UP PUMPS: 145 PSI (10bar)

Inlet pressure requirements

The amount of pressure required at the inlet of a pump is a function of the temperature of the water as shown in Table 2B:

Table 2B - Minimum Required Inlet Pressure			
Fluid Temp	230° (110°C)	190° (88°C)	140° (60°C)
Feet of Water	36 ft. (1.10m)	9 ft (2.8m)	3 ft (0.9m)
Inlet Pressure	15.6 psi	4.0 psi	1.3 psi

GENERAL DATA

Performance

**Flow Range 0-64 U.S. GPM,
Head Range 0-38 Feet**

In a pressure system, the required inlet pressure is the allowable system pressure.

In a system open to the atmosphere, the required inlet pressure is the minimum distance the pump must be located below the lowest possible water level of the water source (tank, pool, etc.).

Miximizer - Mixing Reset pump

The Grundfos MixiMizer, a fully integrated injection pump and indoor/outdoor controller, is the only pump and controller system of its kind.

Equipped with a weather responsive control, also known as indoor/outdoor control or reset control, the MixiMizer automatically calculates and controls mixed water temperatures according to outdoor temperatures in primary/secondary piping systems. The control also provides pump exercising for 10 seconds every 3 days and a 20 second post purge when the heat demand is removed.

For maximum design flexibility, the MixiMizer can be integrated into a thermostat or zoning control system through the user selectable 'external call for heat/demand input'.

A fully serviceable check valve integrated into the pump housing eliminates ghost flows in primary/secondary injection systems and zone applications.

LEDs located on the terminal box are designed to indicate performance and diagnose faults without tools.

Other standard user selectable features include boiler protection, system/slab 'over temperature' control and a 5 degree F parallel shift of the heating curve



GRUNDFOS SERIES UP

Variable Speed pump

The Grundfos Variable Speed pump is another product with fully integrated control. The variable speed controller requires a control signal from a 0-10/2-10 DC voltage sources or 0-20/4-20 mA current sources and is user selectable.

If desired the manual-% dial allows the speed of the pump to be manually adjusted and set by the user. The speed of the pump may be manually adjusted anywhere from min to 100%, but once set remains fixed at that speed.

In addition pump speed may be set as 0-100% or 15-100% by user.

The control also provides pump exercising for 10 seconds every 3 days and a power up reset, which runs the pump for 3 seconds at full speed, for all modes of operation.

Terminal box mounted LEDs provide operation (power is applied) and performance (flashes slower or faster) indication.



GENERAL DATA

GRUNDFOS SERIES UP

UP10-16

The water-conduction part of the pump is hermetically separated from the stator with a stainless steel spherical separator. The motor can be separated from the pump housing, enabling easy maintenance and replacement.

UP10-16 is supplied with insulating shells.

Applications

- Domestic hot water recirculation systems in single and two-family houses
- Small heating systems

Pumped liquids

- Domestic hot water
- Non-potable water
- Softened water

Motor

- Insulation class: F
- Power consumption: 25W
- Voltage: 115V
- Phase: 1



Ambient and liquid temperatures

Liquid temperature: 36°F +(2°C) to 203°F +(95°C)

It is recommended to keep the operating temperature as low as possible (e.g. 140°F(60°C)) to avoid calcium precipitation.

The ambient temperature should always be lower than the liquid temperature, as otherwise condensation may form in the stator housing.

Maximum system pressure

All Models: 145 PSI.

Inlet pressure

To avoid cavitation noise and damage to the pump bearing, at high temperatures the following minimum pressures are required at the pump suction port.

Liquid temperature	203°F (95°C)	185°F (85°C)
Inlet pressure	9 ft. (2.8m)	1.6 ft. (0.5m)
	4.0 psi	0.7 psi

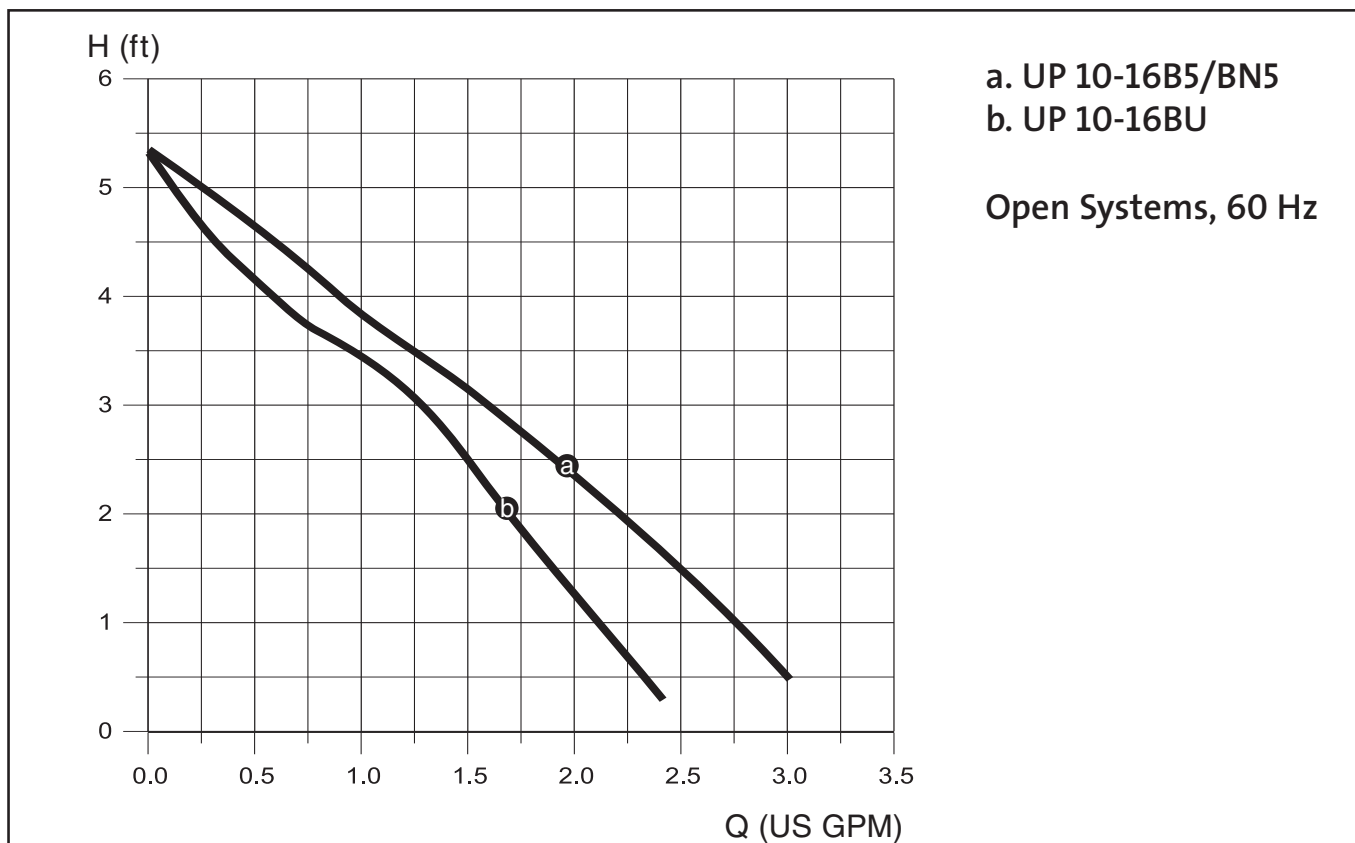
Performance

Flow Range: 0-3 U.S. GPM

Head Range: 0-5.4 Feet

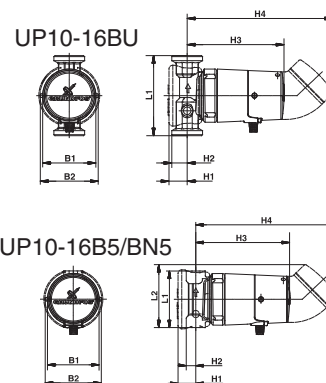
Description	Material
Stator Housing	Aluminum
Spherical Separator	Stainless Steel
Rotor Can Complete	Stainless Steel/Tungsten Carbide
Rotor, Impeller	Stainless Steel, EPDM, PPO, PTFE, Graphite
Pump Housing	Brass MS 58
Isolation Valve	PPO
Screw	Stainless Steel
Terminal Box Cover, Motor Cover	PA66/6
Light	Lexan
Cable, Cable Relief	PVC
Insulating Cover	EPP 55
Orings	EPDM
Check Valve	POM

UP 10-16B5/BN5



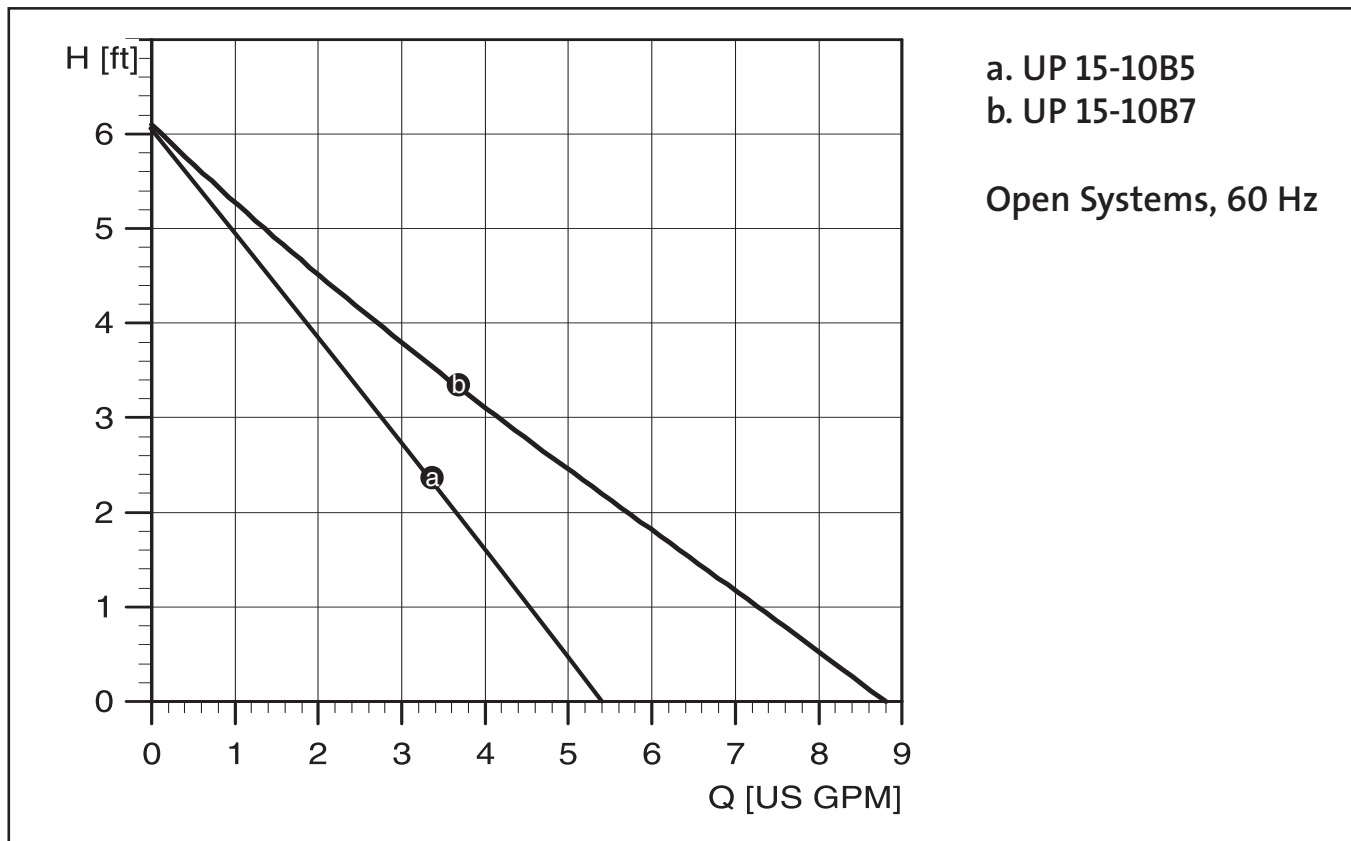
Flow range: 0 - 3 U.S. GPM
Head range: 0 - 5.5 FEET
Motors: Single Phase, 115V
Maximum fluid temperature: 203°F (95°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI

Electrical Connection: The pump is fitted with 5 foot cord & 115V plug
Motor Protection: Impedance-protected. No external motor protection required.

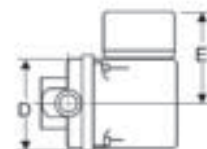
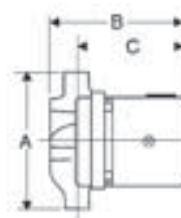


Model Type	L1	L2	H1	H2	H3	H4	B1	B2	Wt. Lbs	Connection
UP 10-16 B5/LC	3 1/8		1	1/2	5 1/4		3	3 1/3	2.9	1/2" Sweat
UP 10-16 B5/TLC	3 1/8	3 1/2	1	1/2		8 1/16	3	3 1/3	3.4	1/2" Sweat
UP 10-16 B5/ATLC	3 1/8	3 1/2	1	1/2		8 1/16	3	3 1/3	3.4	1/2" Sweat
UP 10-16 BN5/LC	3 1/8		1	1/2	5 1/4		3	3 1/3	2.9	1/2" F NPT
UP 10-16 BN5/TLC	3 1/8	3 1/2	1	1/2		8 1/16	3	3 1/3	3.4	1/2" F NPT
UP 10-16 BN5/ATLC	3 1/8	3 1/2	1	1/2		8 1/16	3	3 1/3	3.4	1/2" F NPT
UP 10-16 BU/ATLC	4 1/3		1	7/8		8 1/16	3	3 1/3	3.8	GF 125 Union - 1 1/4" NPSM

UP 15-10B5/B7



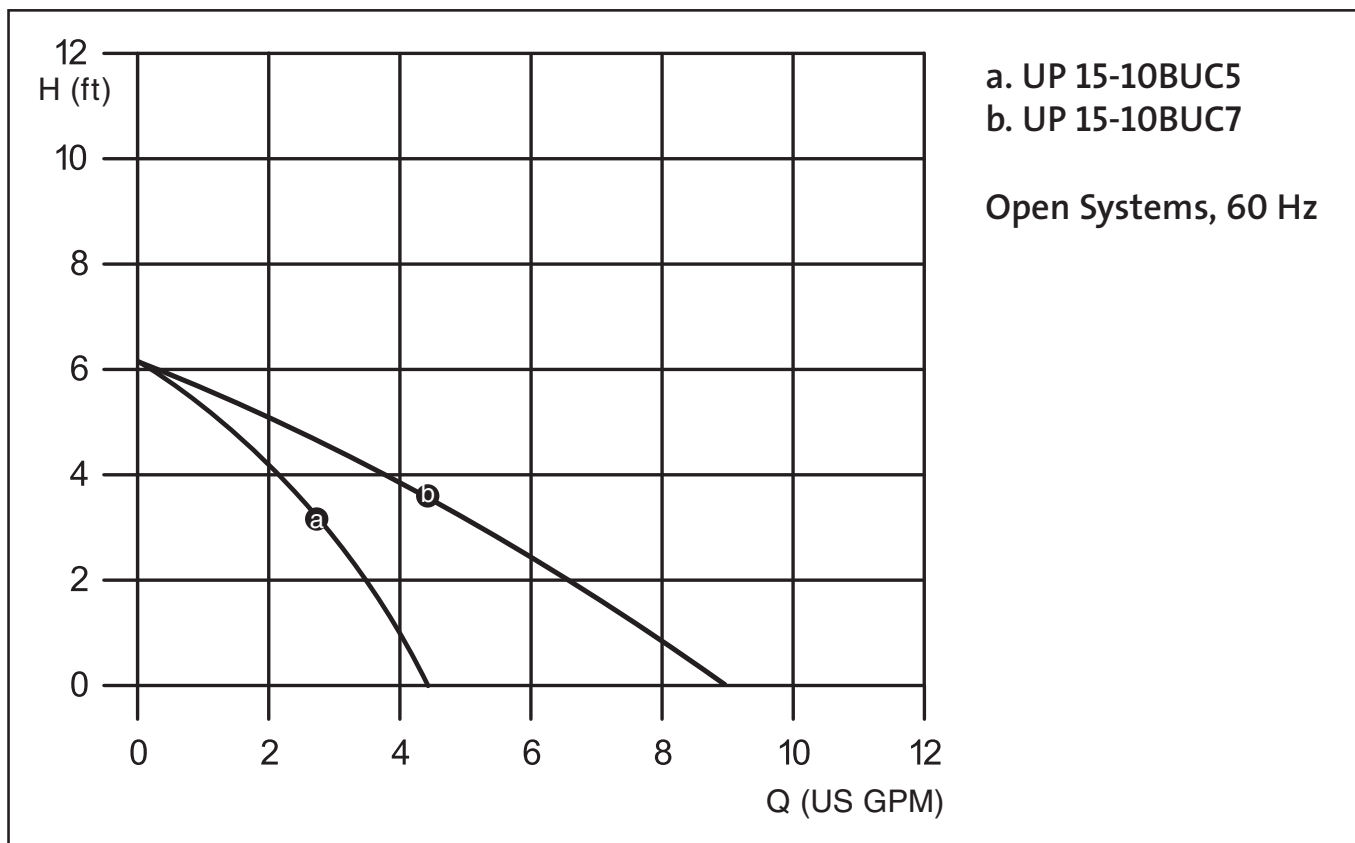
Flow range: 0 - 9 U.S. GPM
 Head range: 0 - 6 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 220°F (104°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



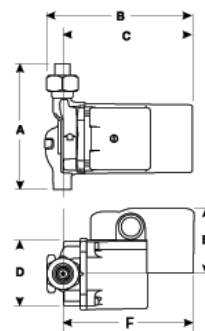
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-10B5 & B7	115	0.22	25	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-10B5	5	4 11/16	4	4	3 1/2	—	1/2" Sweat	6
UP15-10B7	6 3/8	5 1/8	4	3 13/16	3 1/4	—	3/4" Sweat	6.7
UP15-10B5/LC & TLC	5	6 3/16	5 1/2	4	3 1/2	4	1/2" sweat	6.5
UP15-10B7/ LC & TLC	6 3/8	6 5/8	5 1/2	3 13/16	3 1/4	4	3/4" Sweat	7.2

UP 15-10BUC5/7



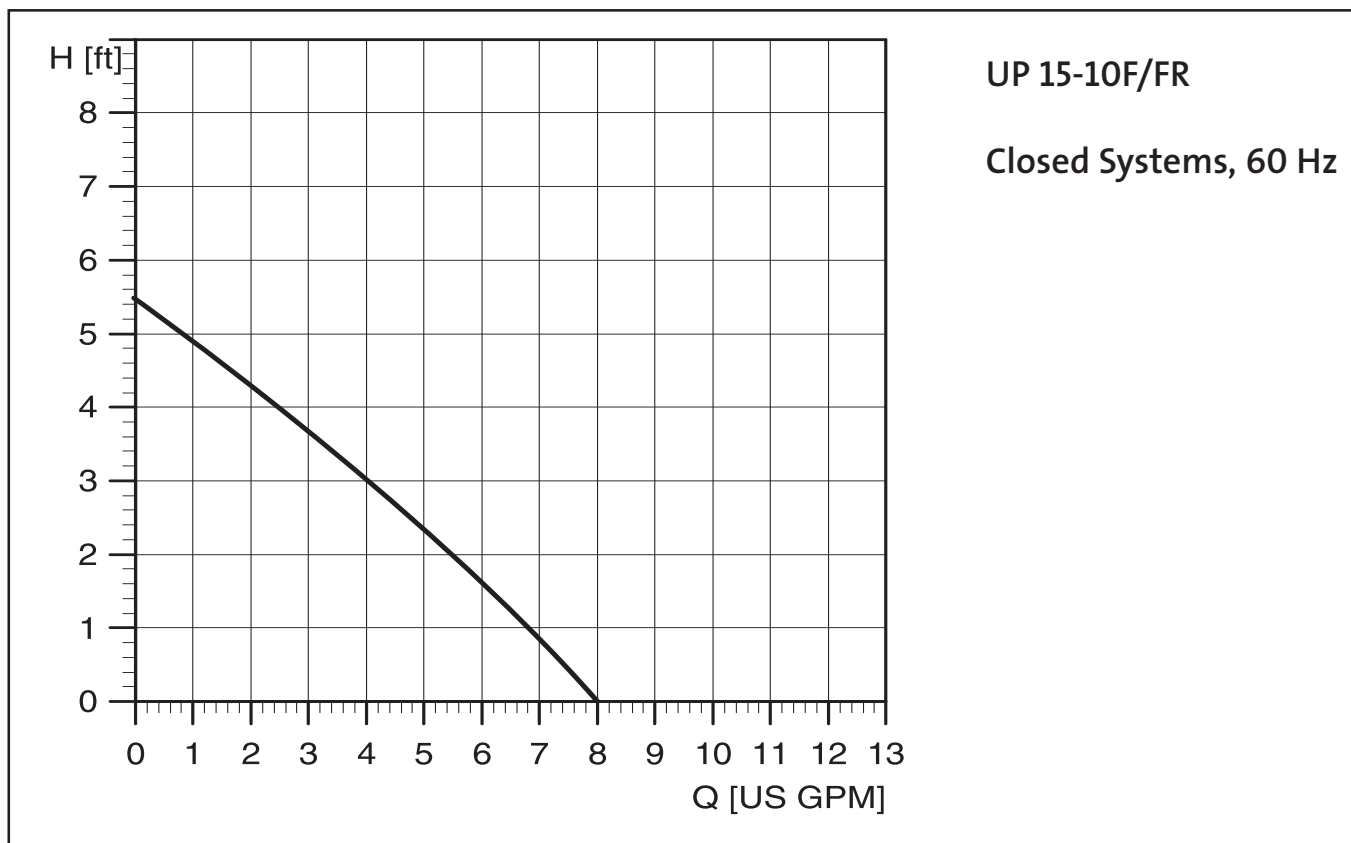
Flow range: 0 - 9 U.S. GPM
Head range: 0 - 6 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI



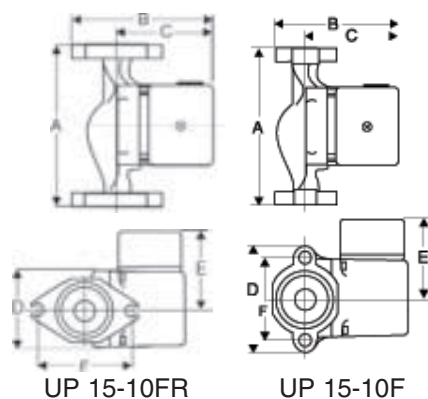
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-10BUC5/BUC7	115	0.22	25	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-10BUC5	6 1/2	5 1/4	4	3 1/5	3 1/4		1/2" Sweat	7.25 lbs.
UP15-10BUC7	7 3/4	5 1/4	4	3 3/4	3 1/4		3/4" Sweat	8 lbs.
UP15-10BUC5/LC & TLC	6 1/2	6 3/4	5 1/2	3 3/16	3 1/4	4	1/2" Sweat	7.7
UP15-10BUC7/LC & TLC	7 3/4	6 3/4	5 1/2	3 3/4	3 1/4	4	3/4" Sweat	8.5

UP 15-10F/FR



Flow range: 0 - 8 U.S. GPM
 Head range: 0 - 5.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 200°F (93°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



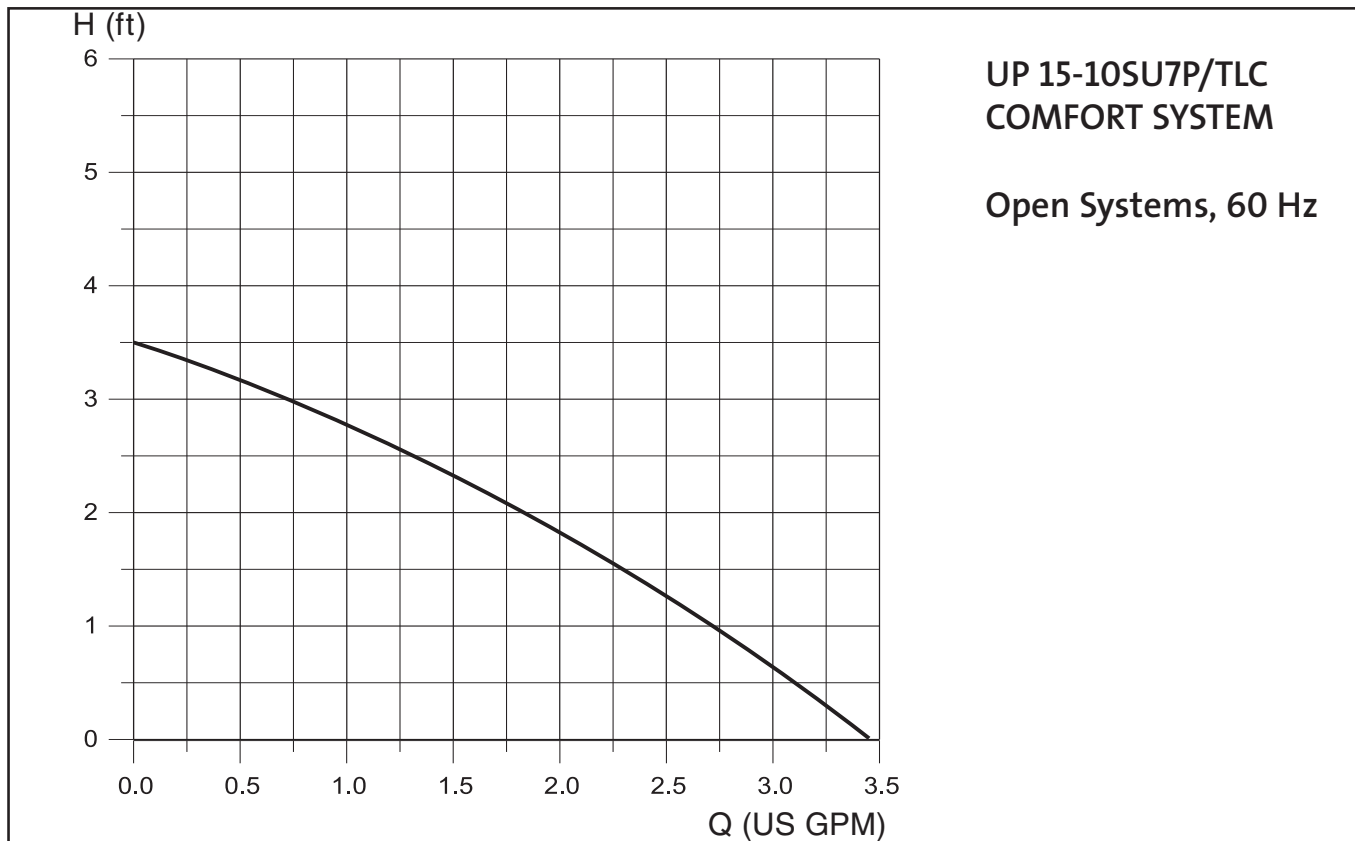
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-10F/FR	115	0.23	25	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-10F	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/4
UP15-10FR	6 1/2	5 15/16	4	3 3/4	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/4

TECHNICAL DATA

GRUNDFOS SERIES UP

COMFORT SYSTEM

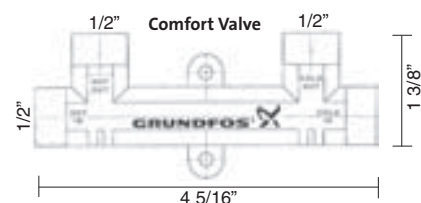
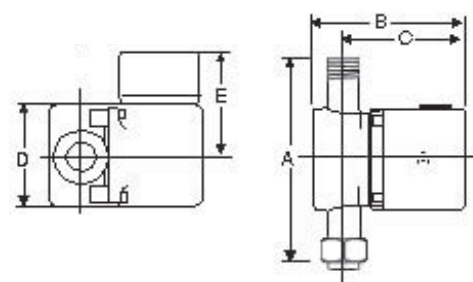


Flow range: 0 - 3.4 U.S. GPM
 Head range: 0 - 3.5 FEET
 Motors: Single Phase
 Maximum fluid temperature: 150°F (66°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI

Comfort Series Model CS-1
Kit Includes:
1 pump & 1 valve - part # 595916

Comfort Valve
part # 595926
Box of 15

MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-10SU7P/TLC	115	0.23	25	1/25	2mF/400V

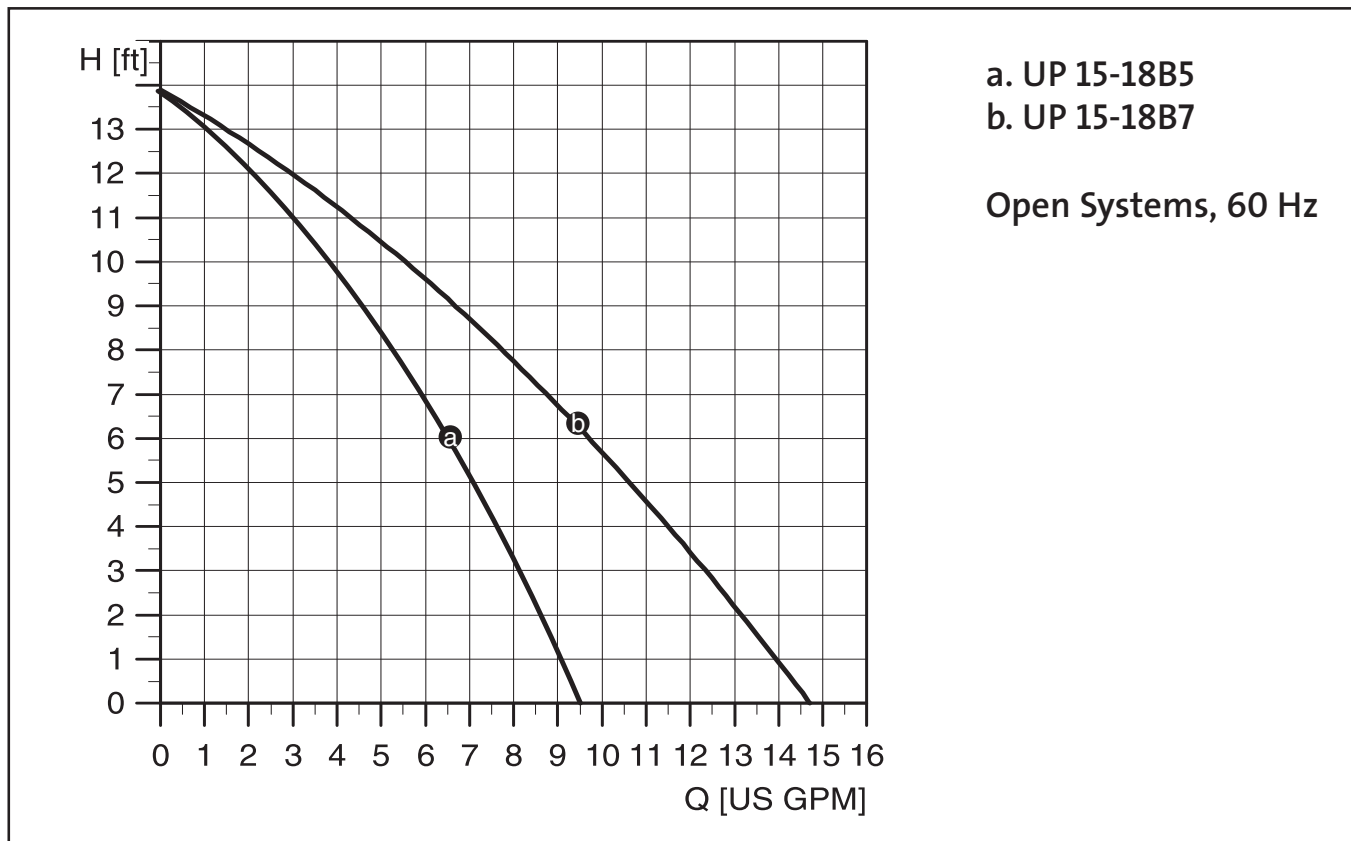


ANSI/NSF61 and IAPMO listed

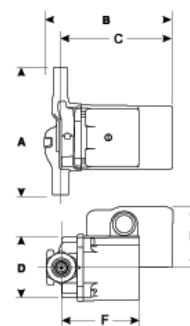
Valve Connection 1/2" M NPS (1/2" Faucet)

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-10SU7P/TLC	5 7/16	6 1/4	5 1/2	3 7/16	3 1/4	4	3/4" M x 3/4" F NPT	5 1/2 lbs.

UP 15-18B5/B7



Flow range: 0 - 15 U.S. GPM
Head range: 0 - 14 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI



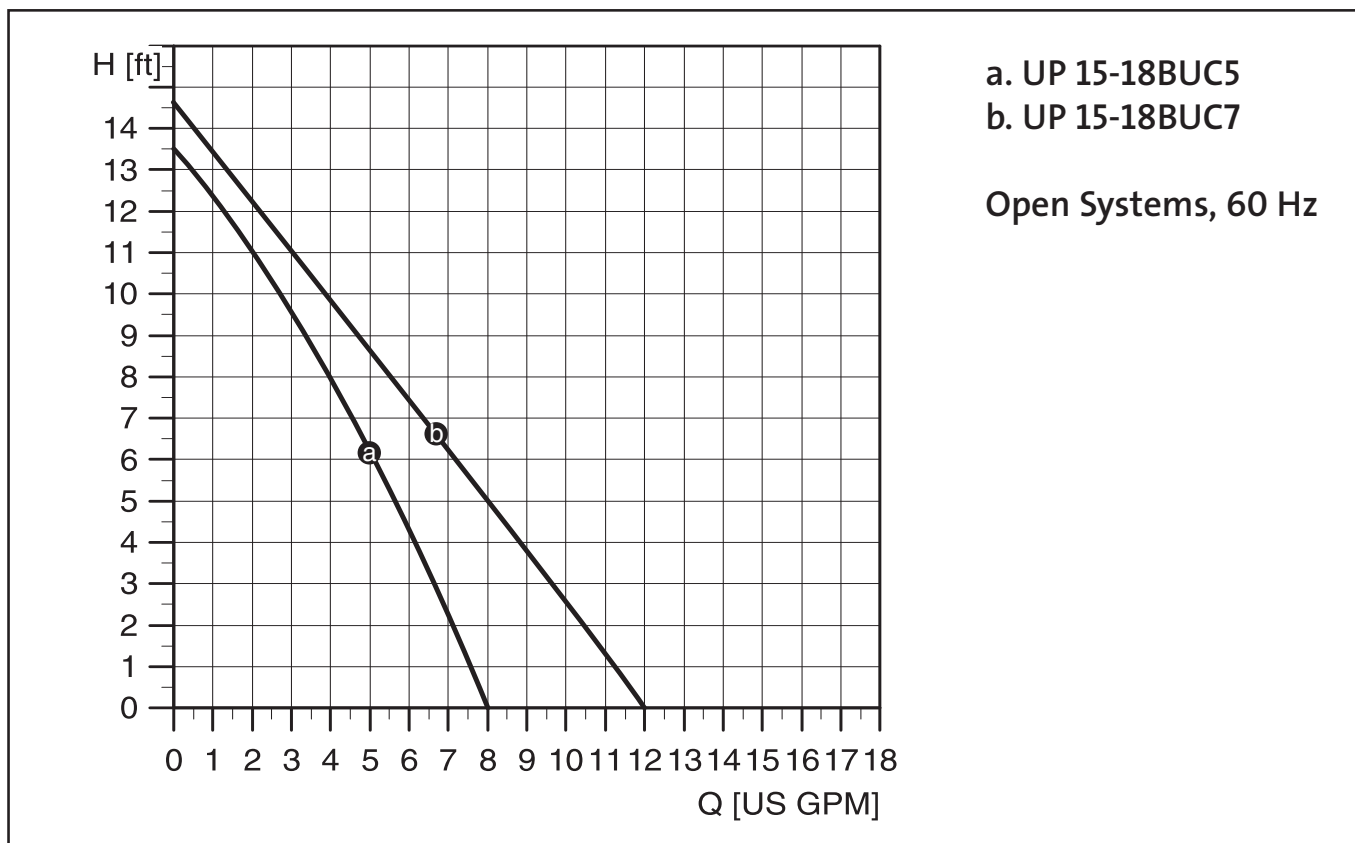
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-18B5	115	0.74	85	1/25	10mF/180V
	230	0.4	90	1/25	2mF/400V
UP15-18B7	115	0.74	85	1/25	10mF/180V
	230	0.4	96	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-18B5	5	4 11/16	4	3 1/2	3 1/4	—	1/2" Sweat	6
UP15-18B7	6 3/8	5 1/8	4	3 4/5	3 1/4	—	3/4" Sweat	6.7
UP15-18B5/LC & TLC	5	6 3/16	5 1/2	3 1/2	3 1/4	4	1/2" Sweat	6.5
UP15-18B7/LC & TLC	6 3/8	6 5/8	5 1/2	3 4/5	3 1/4	4	3/4" Sweat	7.2

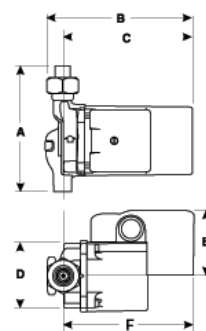
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-18BUC5/BUC7



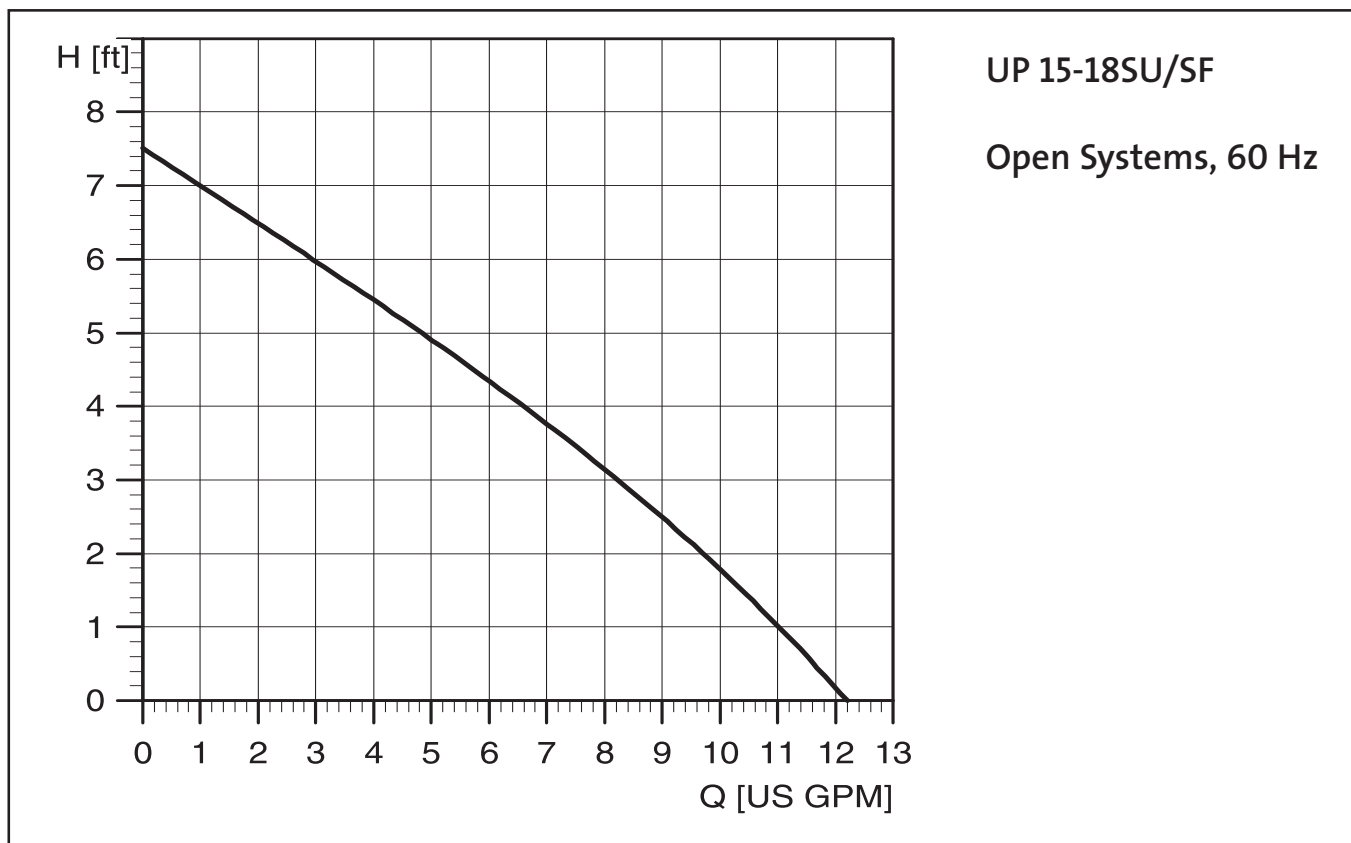
Flow range: 0 - 12 U.S. GPM
 Head range: 0 - 14.6 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



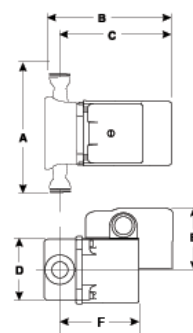
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-18BUC5	115	0.55	60	1/25	8μF/180V
UP15-18BUC7	115	0.55	60	1/25	8μF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-18BUC5	6 1/2	5 1/4	4	3 3/16	3 1/4	—	1/2" Sweat	7 1/4 lbs.
UP15-18BUC7	7 3/4	5 1/4	4	3 3/4	3 1/4	—	3/4" Sweat	8 lbs.
UP15-18BUC5/LC & TLC	6 1/2	6 3/4	5 1/2	3 3/16	3 1/4	4	1/2" Sweat	7.7
UP15-18BUC7/LC & TLC	7 3/4	6 3/4	5 1/2	3 3/4	3 1/4	4	3/4" Sweat	8.5

UP 15-18SU/SF



Flow range: 0 - 12 U.S. GPM
 Head range: 0 - 7.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



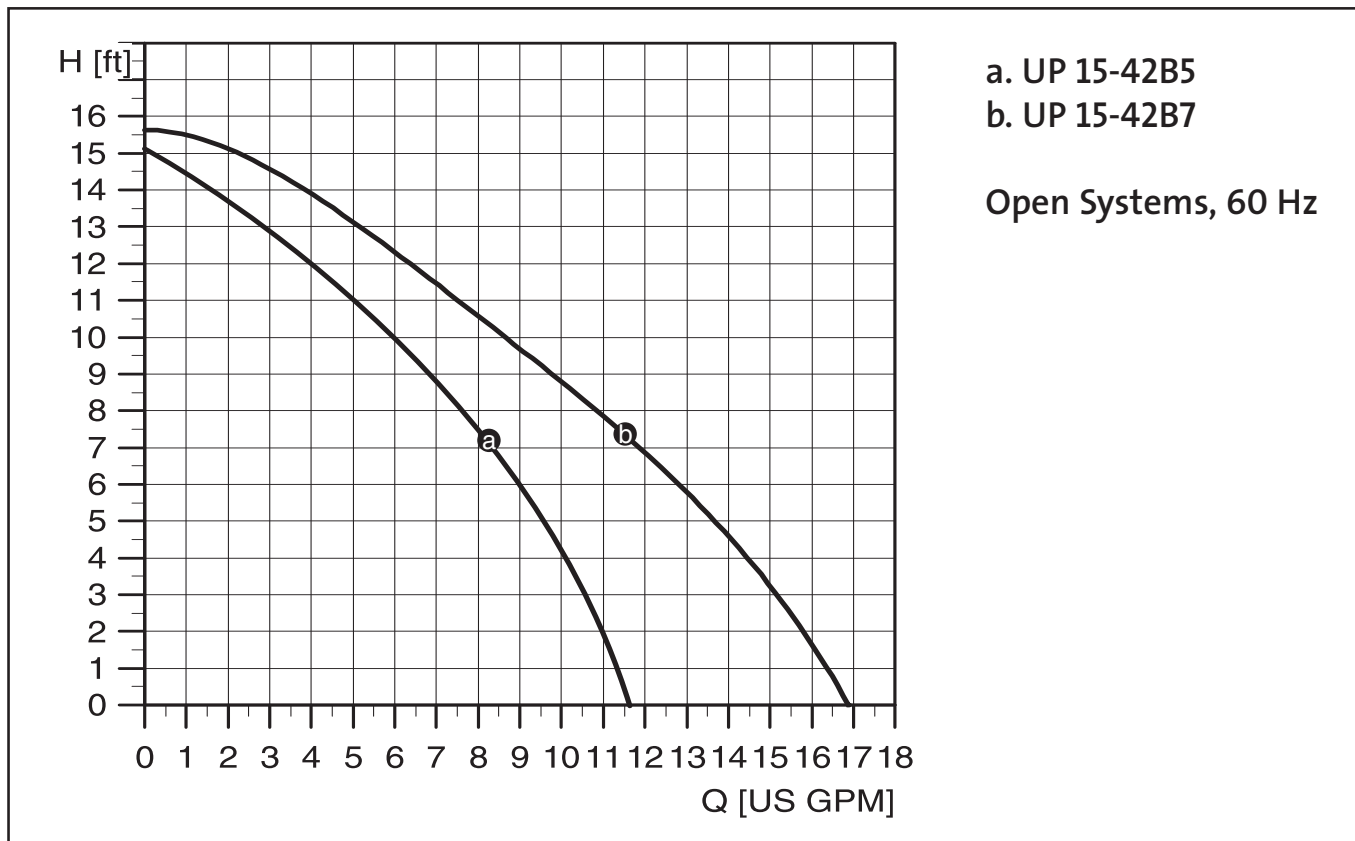
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-18SU, SF	115	0.74	85	1/25	10mF/180V
	230	0.4	90	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-18SU	5 7/8	5 1/16	4	3 7/16	3 1/4	—	GF 125 Union – 1 1/4" NPSM	5
UP15-18SF	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	6
UP15-18SU/LC & TLC	5 7/8	6 1/4	5 1/2	3 7/16	3 1/4	4	GF 125 Union – 1 1/4" NPSM	5.5

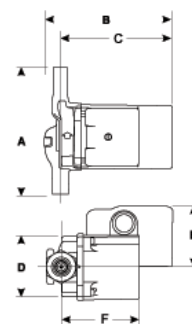
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-42B5/B7



Flow range: 0 - 17 U.S. GPM
Head range: 0 - 15.5 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI



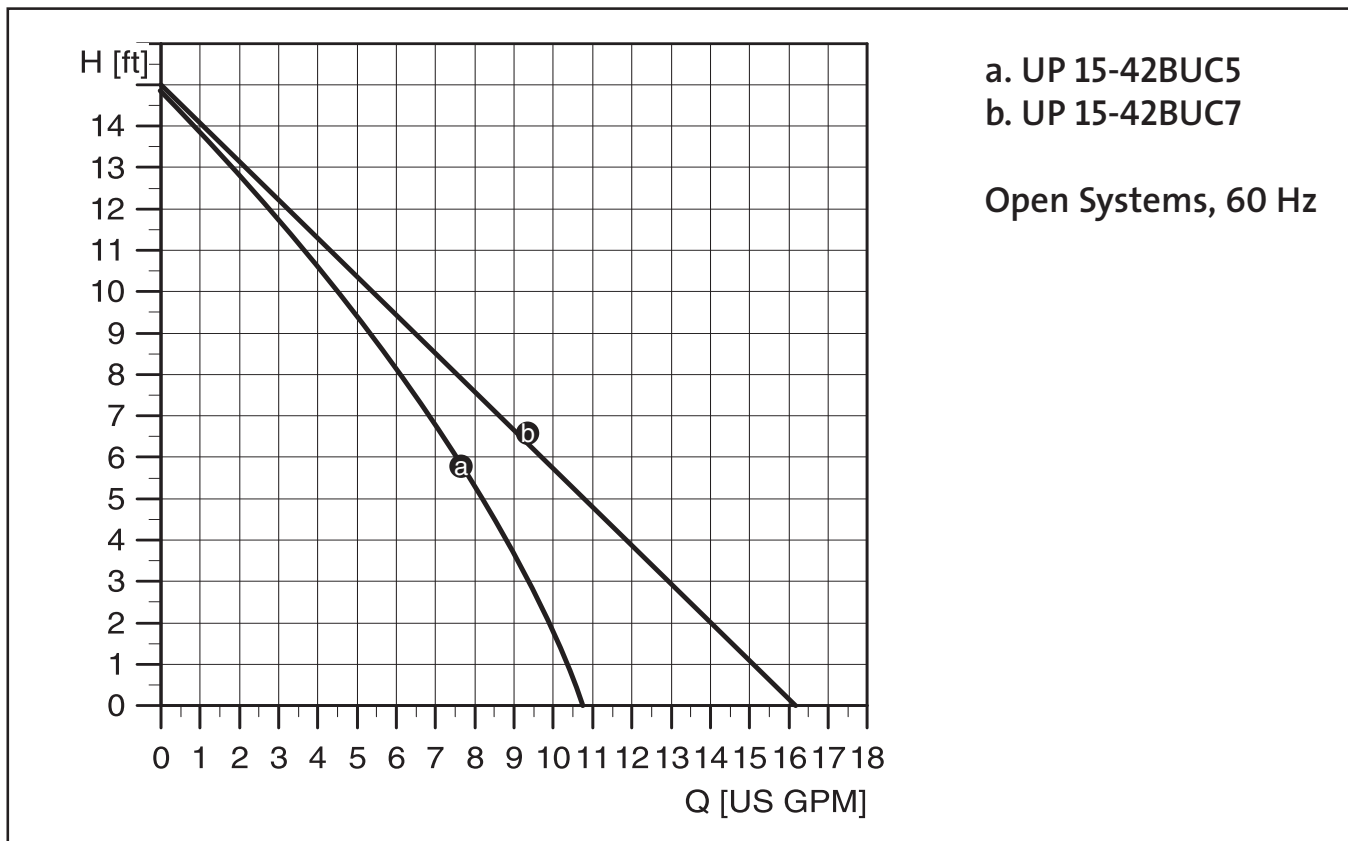
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42B5	115	0.74	85	1/25	10mF/180V
	230	0.41	95	1/25	2mF/400V
UP15-42B7	115	0.74	85	1/25	10mF/180V
	230	0.41	95	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42B5	5	4 11/16	4	3 1/2	3 1/4	—	1/2" Sweat	6
UP15-42B7	6 3/8	5 1/8	4	3 4/5	3 1/4	—	3/4" Sweat	6.7
UP15-42B5/LC & TLC	5	6 3/16	5 1/2	3 1/2	3 1/4	4	1/2" Sweat	6.5
UP15-42B7/LC & TLC	6 3/8	6 5/8	5 1/2	3 4/5	3 1/4	4	3/4" Sweat	7.2

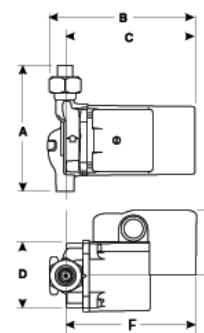
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-42BUC5/BUC7



Flow range: 0 - 16.5 U.S. GPM
Head range: 0 - 15 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 205°F (96°C)
Maximum working pressure: 145 PSI



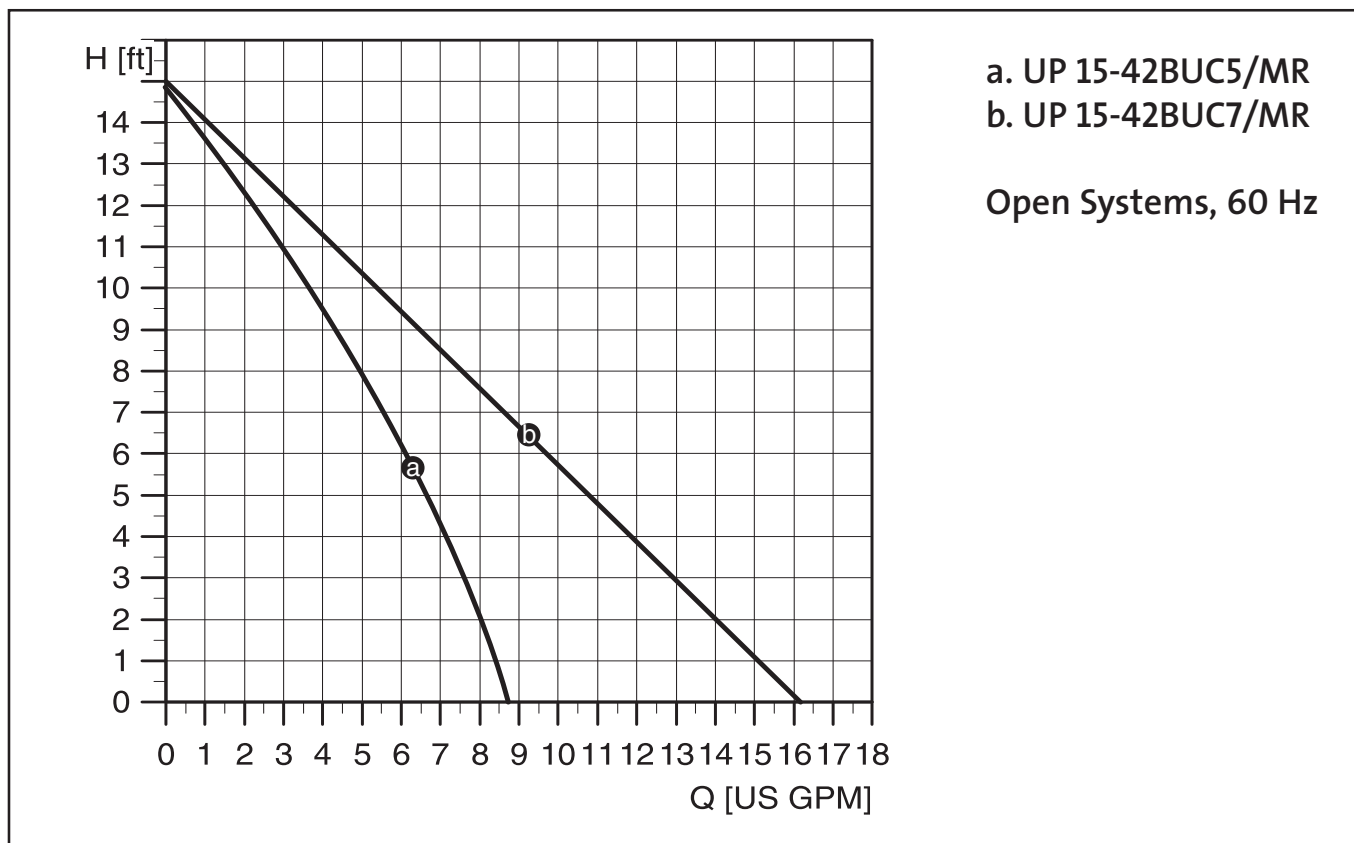
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42BUC5	115	0.74	85	1/25	10mF/180V
UP15-42BUC7	115	0.74	85	1/25	10mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42BUC5	6 1/2	5 1/4	4	3 3/16	3 1/4	-	1/2" Sweat	6 1/2
UP15-42BUC7	7 3/4	5 1/4	4	3 3/4	3 1/4	-	3/4" Sweat	6 3/4

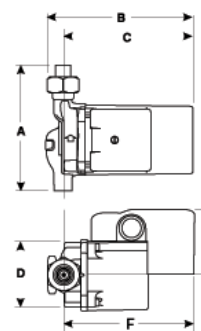
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-42BUCX/MR



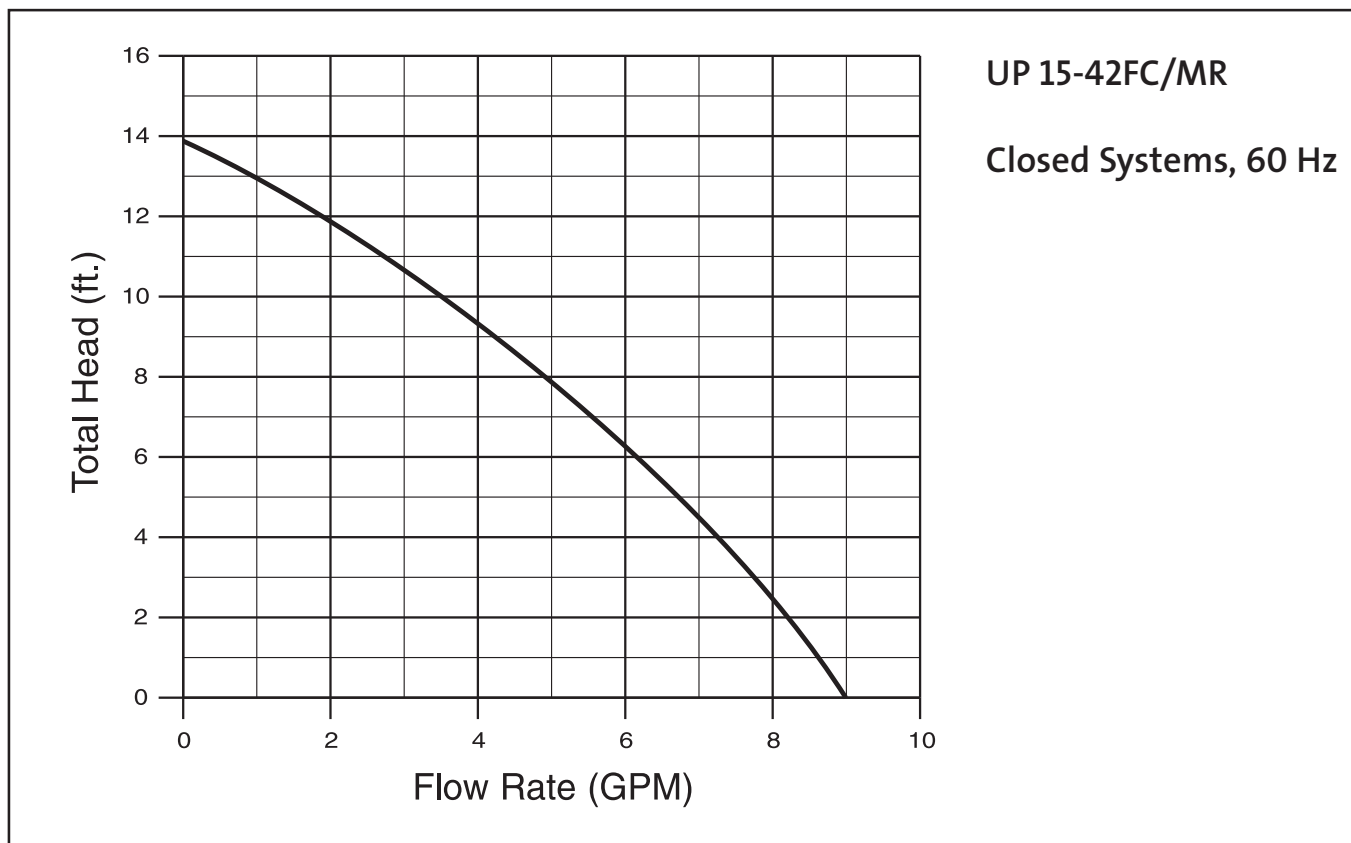
Flow range: 0 - 16.5 U.S. GPM
 Head range: 0 - 15 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 205°F (96°C)
 Maximum working pressure: 145 PSI



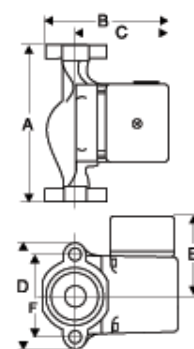
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42BUC5/MR	115	0.74	85	1/25	10mF/180V
UP15-42BUC7/MR	115	0.74	85	1/25	10mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42BUC5/MR	6 1/2	5 1/4	4	3 3/16	3 1/4	—	1/2" Sweat	6 1/2
UP15-42BUC7/MR	7 3/4	5 1/4	4	3 3/4	3 1/4	—	3/4" Sweat	6 3/4

UP 15-42FC/MR



Flow range: 0 - 9 U.S. GPM
 Head range: 0 - 14 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 205°F (96°C)
 Maximum working pressure: 145 PSI



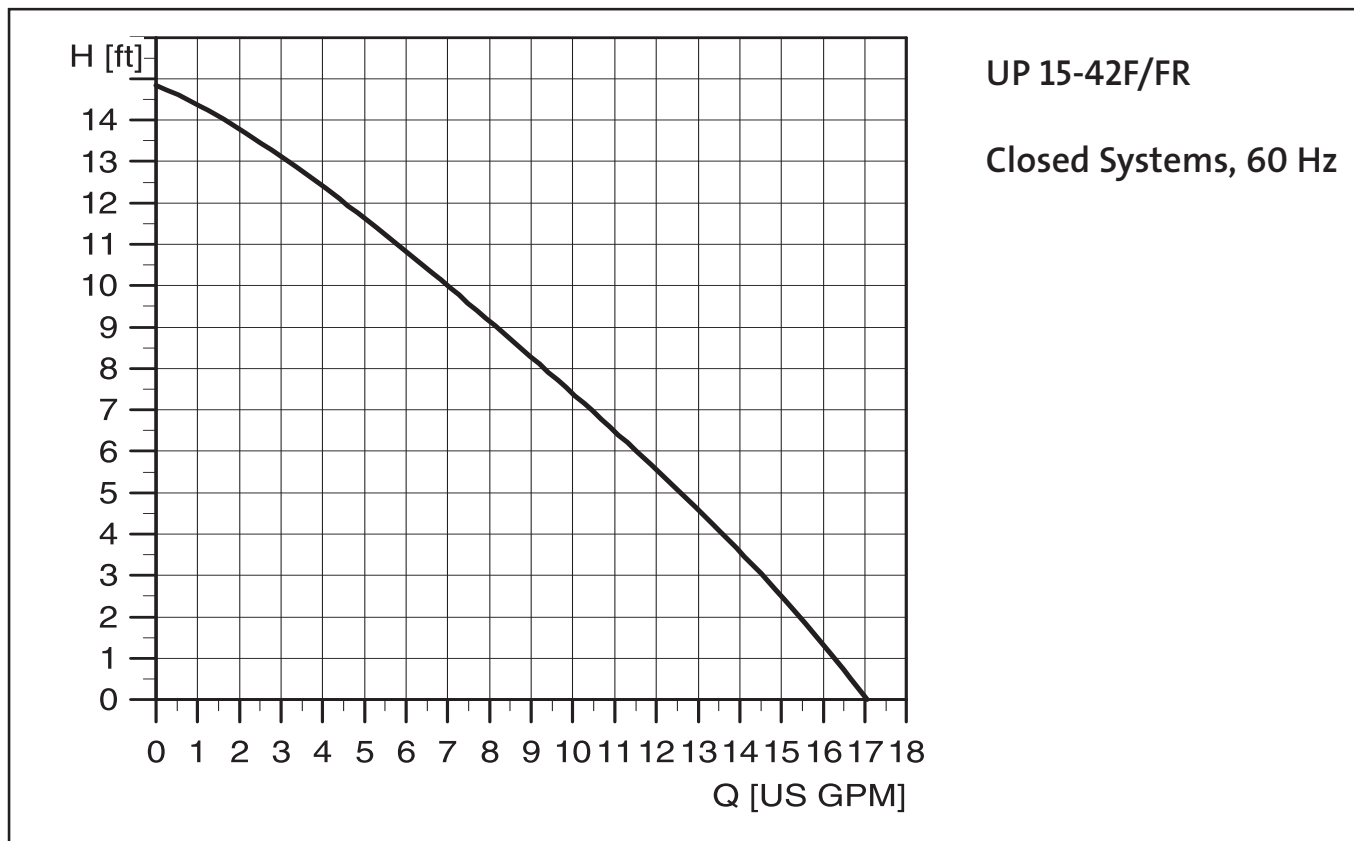
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42FC/MR	115	0.74	85	1/25	10mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42FC/MR	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/2

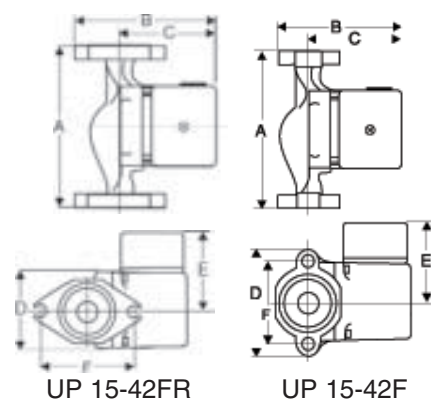
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-42F/FR



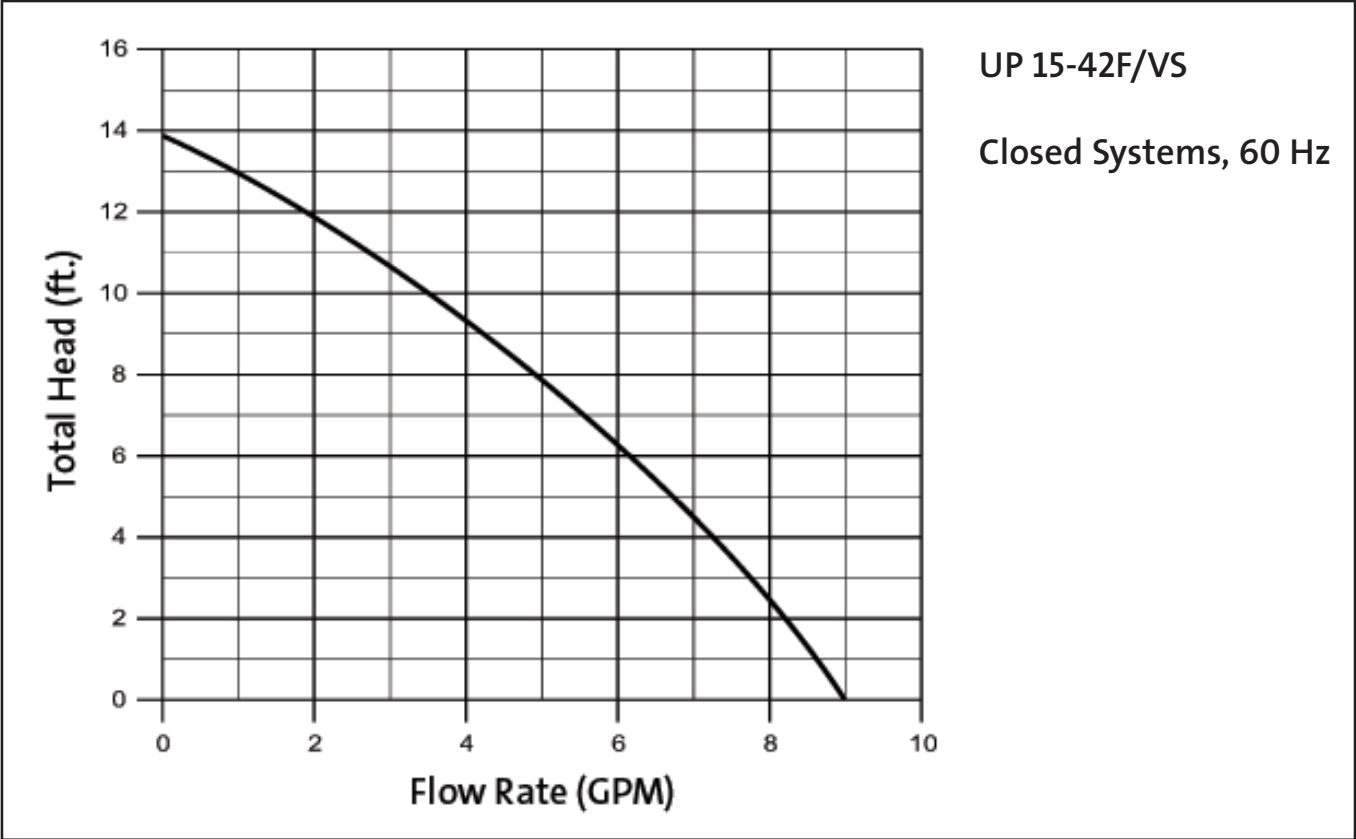
Flow range: 0 - 17 U.S. GPM
 Head range: 0 - 15 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42F/FR	115	0.74	85	1/25	10mF/180V
	230	0.43	95	1/25	2mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42F	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange - (2) 1/2" Dia. Bolt Holes	7 1/4
UP15-42FR	6 1/2	5 15/16	4	3 3/4	3 1/4	3 5/32		7 1/4

UP 15-42F/VS



Flow range:

Head range:

Motors:

Maximum fluid temperature:

Maximum working pressure:

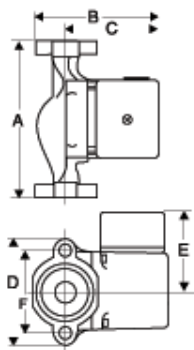
0 - 9 U.S. GPM

0 - 14 FEET

2 Pole, Single Phase

205°F (96°C)

145 PSI



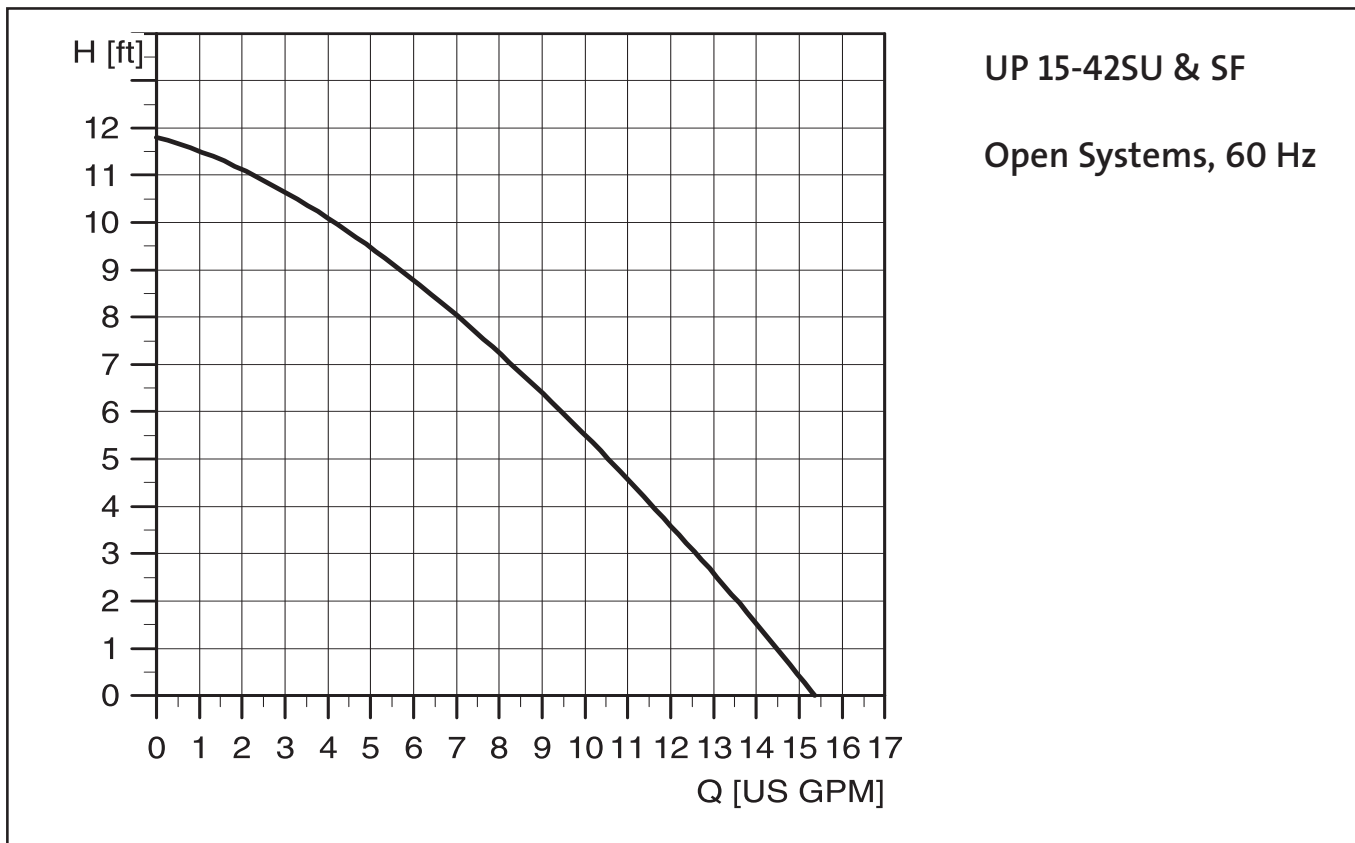
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42F/VS	115	0.74	85	1/25	10mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42F/VS	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/2

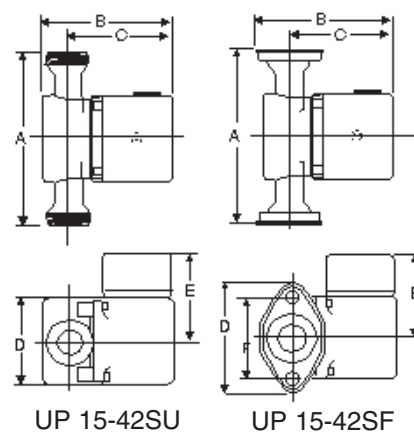
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-42SU/SF



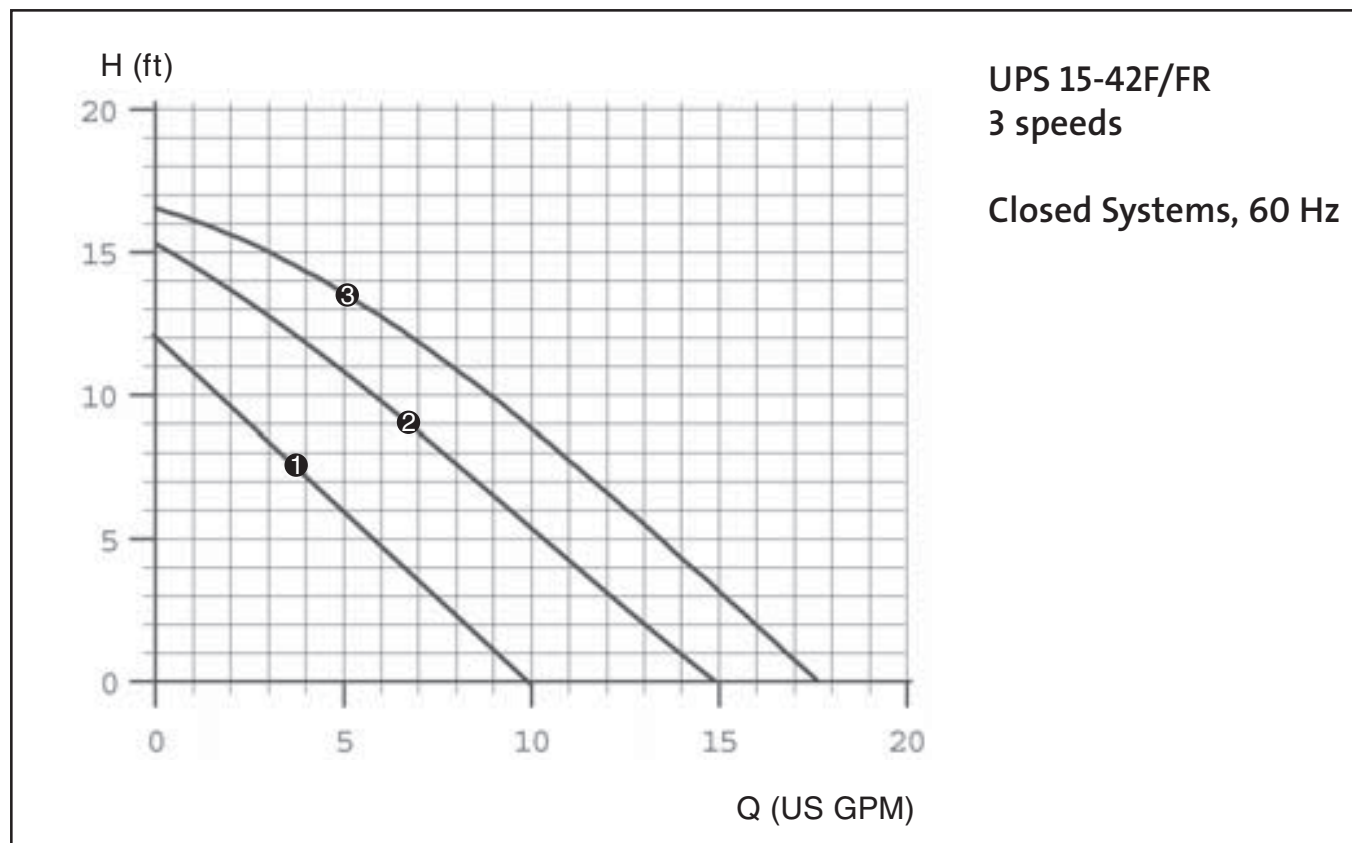
Flow range: 0 - 15.5 U.S. GPM
 Head range: 0 - 12 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-42SU, SF	115	0.74	85	1/25	10mF/180V
	230	0.41	95	1/25	2mF/400V

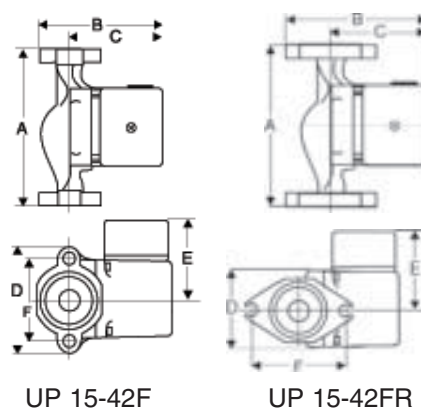
Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-42SU	5 7/8	5 1/16	4	3 7/16	3 1/4	—	GF 125 Union – 1 1/4" NPSM	5
UP15-42SF	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	6

UPS 15-42F/FR



Flow range: 0 - 17.5 U.S. GPM
Head range: 0 - 17 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI

MODEL	Spd.	VOLTS	AMPS	WATTS	HP	CAPACITOR
UPS15-42F/FR	3	115	0.74	85	1/25	10mF/180V
	2		0.57	65	---	---
	1		0.4	45	---	---
UPS15-42F/FR	3	230	0.41	92	1/25	2mF/400V
	2		0.19	40	---	---
	1		0.14	30	---	---

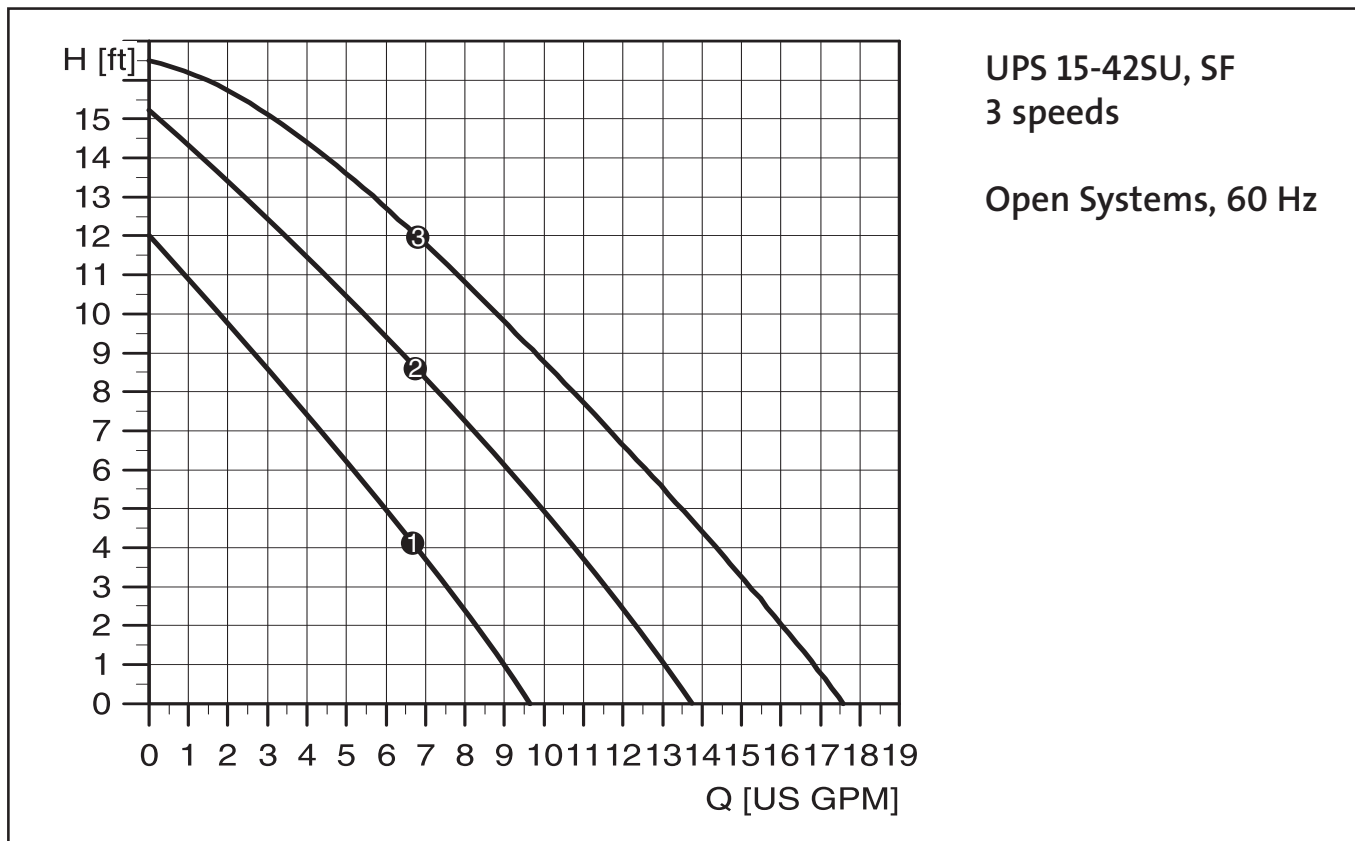


Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UPS15-42F	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/4
UPS15-42FR	6 1/2	5 15/16	4	3 3/4	3 1/4	3 5/32		7 1/4

TECHNICAL DATA

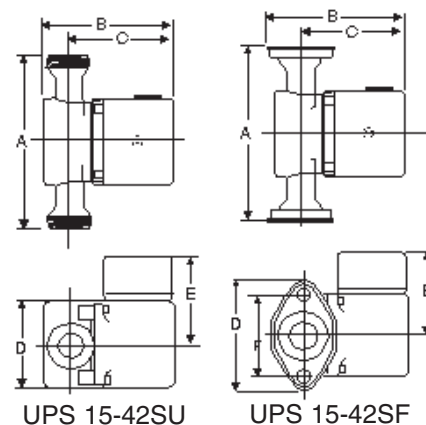
GRUNDFOS SERIES UP

UPS 15-42SU,SF



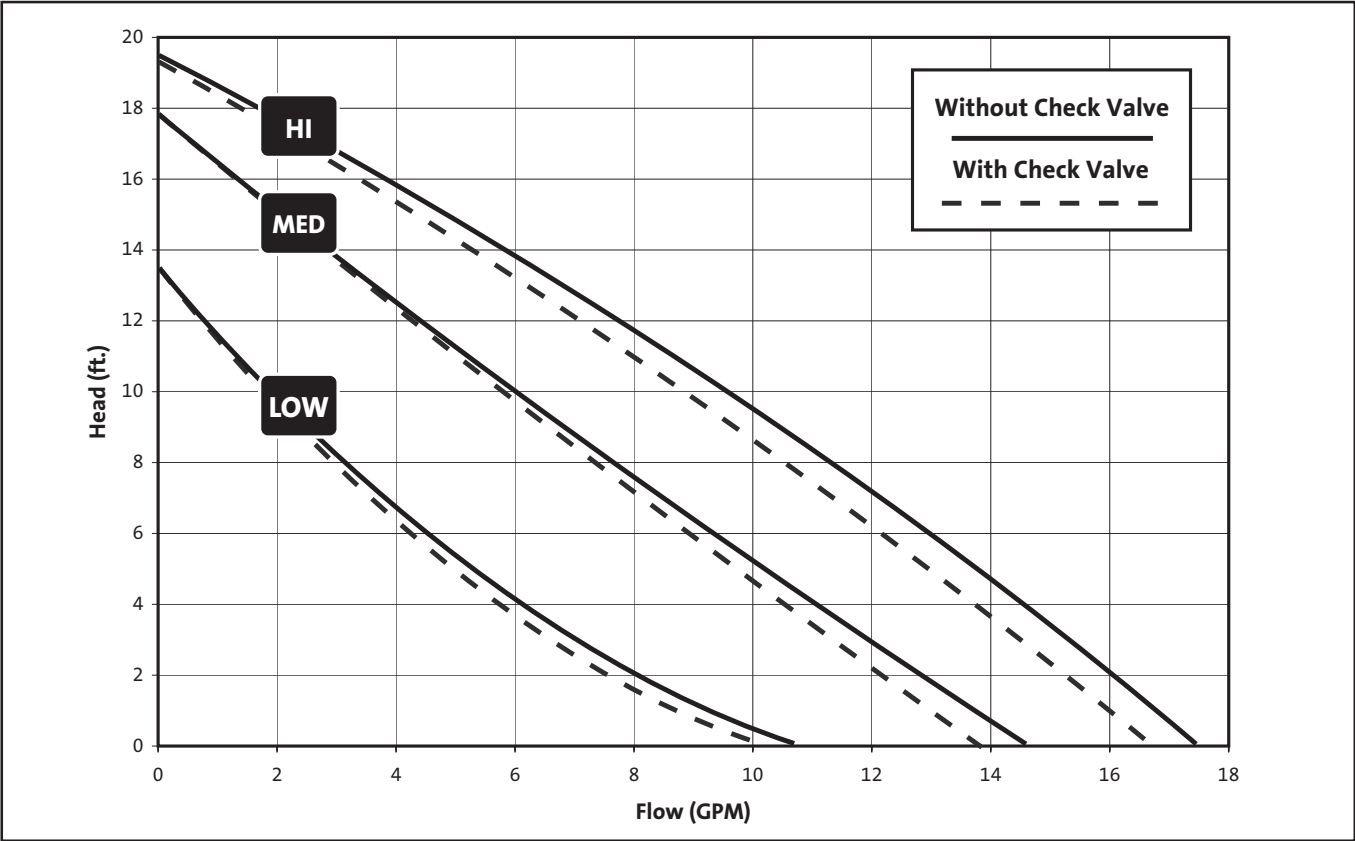
Flow range: 0 - 17.5 U.S. GPM
Head range: 0 - 16.5 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI

MODEL	Spd.	VOLTS	AMPS	WATTS	HP	CAPACITOR
UPS15-42SU, SF	3	115	0.74	85	1/25	10mF/180V
	2		0.57	65		
	1		0.4	45		

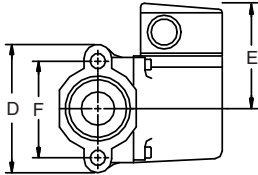
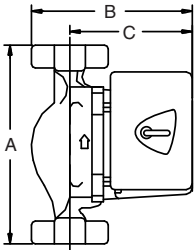


Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UPS15-42SU	5 7/8	5 1/16	4	3 7/16	3 1/4	—	GF 125 Union – 1 1/4" NPSM	5
UPS15-42SF	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	6

UPS 15-58FC/FRC **SUPERBRUTE**



Flow range: 0 - 17.5 U.S. GPM
Head range: 0 - 19 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 230°F (110°C)
Min. fluid temperature: 36°F (2°C)
Maximum working pressure: 145 PSI



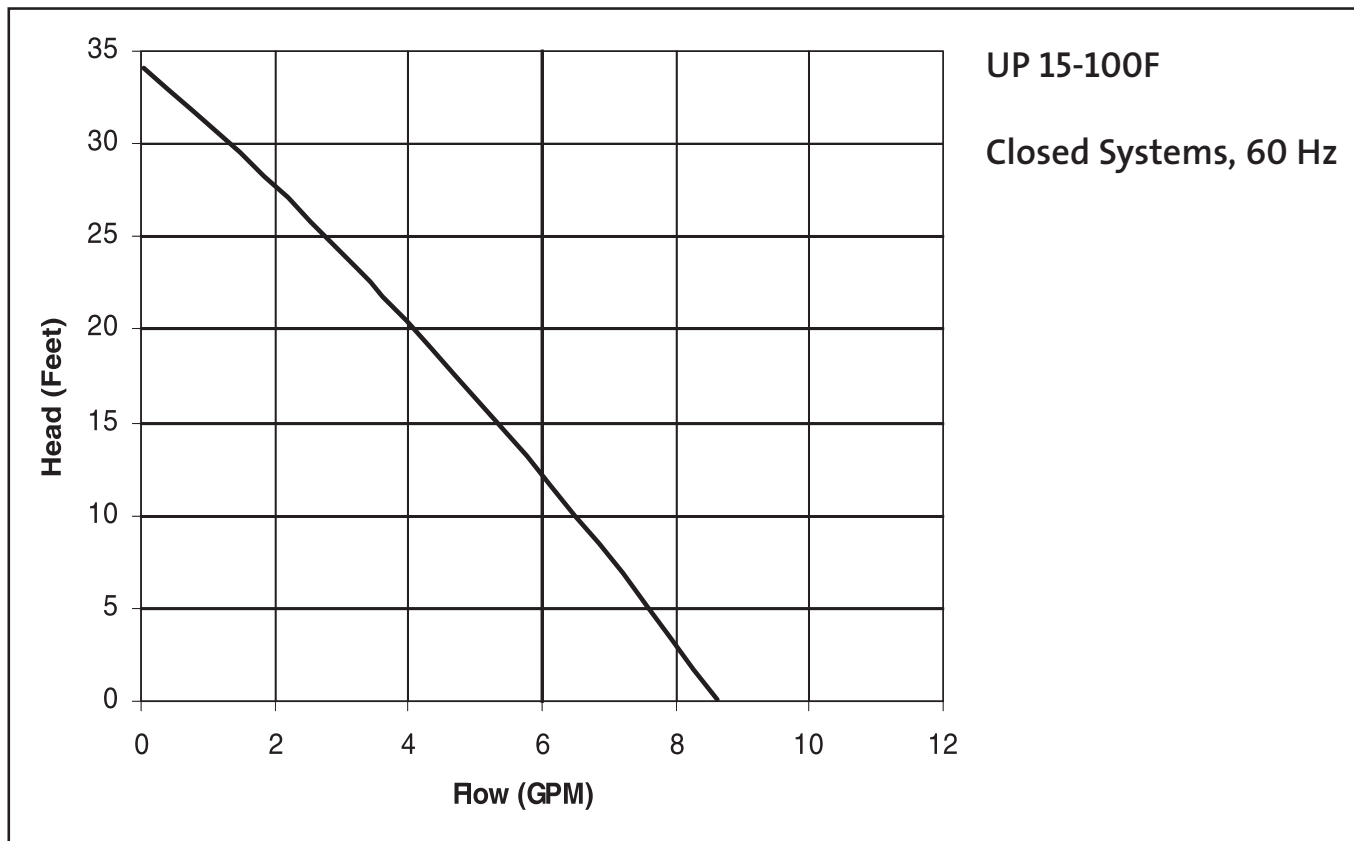
UPS15-58FC/FRC		AMPS	WATTS	HP	CAPACITOR
115V	Spd. 3	0.75	87	1/25	10mF/180V
	Spd. 2	0.66	80	1/25	10mF/180V
	Spd. 1	0.55	60	1/25	10mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UPS15-58FC/FRC	6 1/2	5 1/4	4	4 3/16	3	3 5/32	GF 15/26 Flange - (2) 1/2" Dia. Bolt Holes	7 1/4

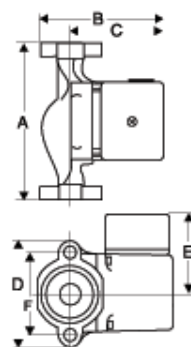
TECHNICAL DATA

GRUNDFOS SERIES UP

UP 15-100F



Flow range: 0 - 8.5 U.S. GPM
 Head range: 0 - 33.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 205°F (96°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



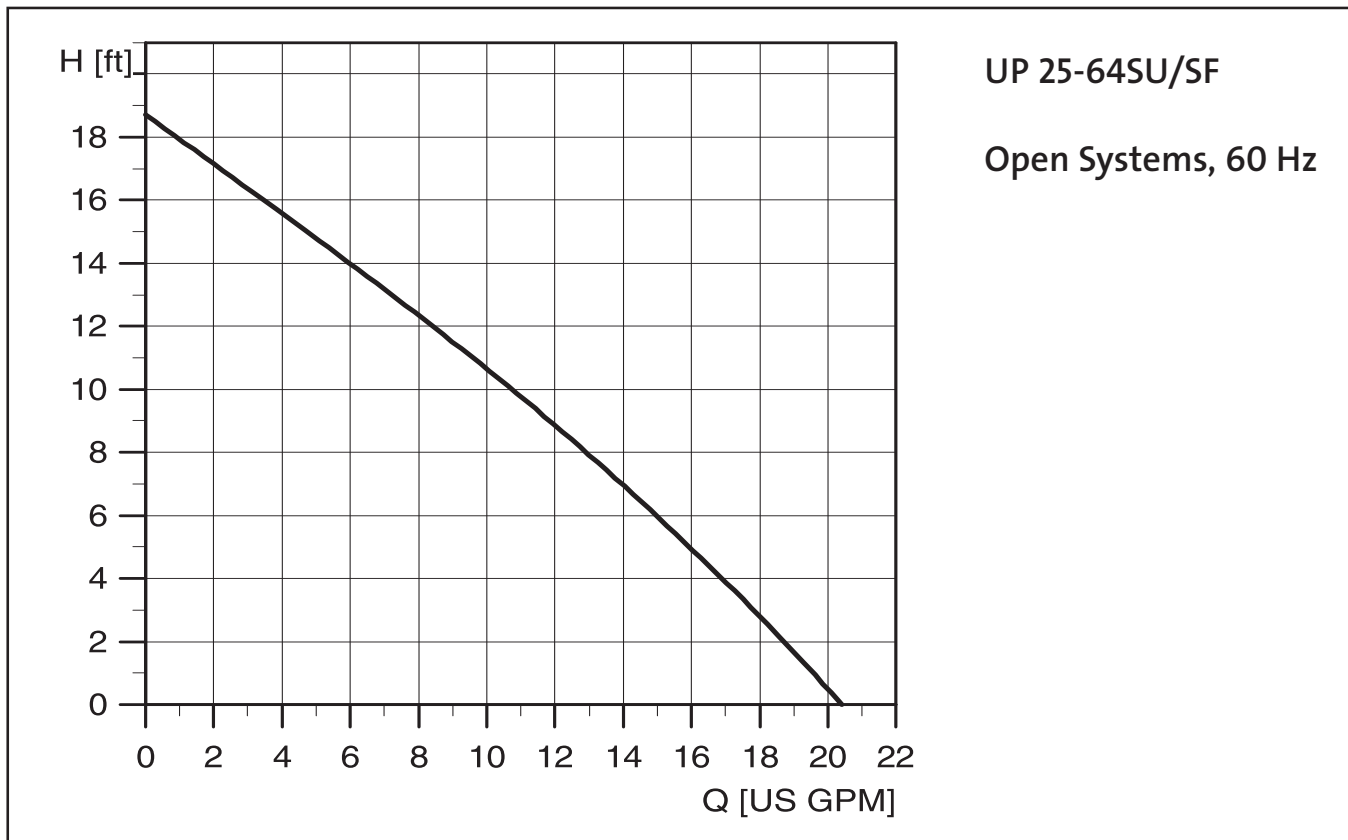
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP15-100F	115	1.1	135	1/25	12mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP15-100F	6 1/2	5 1/4	4	4 3/16	3 1/4	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	7 1/4

TECHNICAL DATA

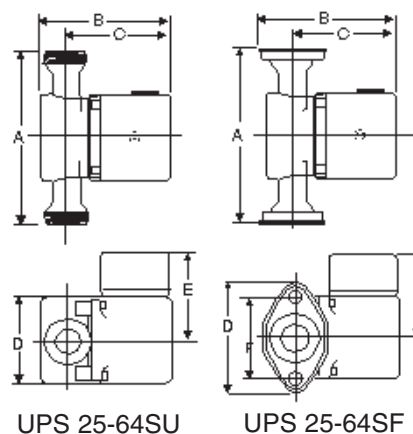
GRUNDFOS SERIES UP

UP 25-64SU/SF



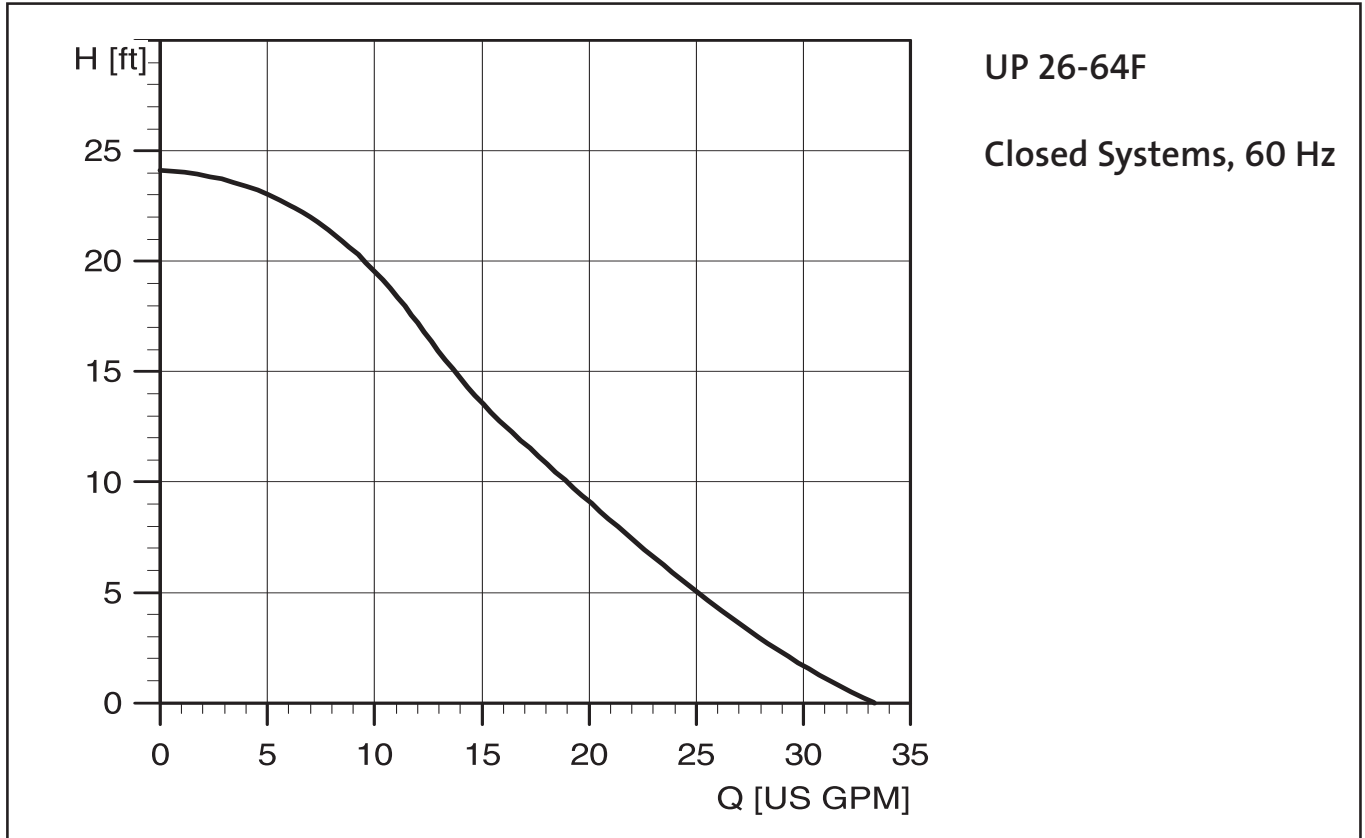
Flow range: 0 - 20.5 U.S. GPM
 Head range: 0 - 19 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI

MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP25-64SU & SF	115	1.7	180	1/12	8mF/180V
	230	0.8	175	1/12	2.5mF/380V

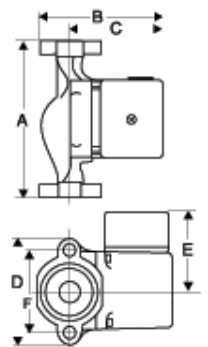


Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP25-64SU	5 7/8	5 13/16	4 13/16	4	3 1/2	—	GF 125 Union – 1 1/4" NPSM	9
UP25-64SF	6 1/2	6 1/16	4 13/16	4 3/16	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	10

UP 26-64F



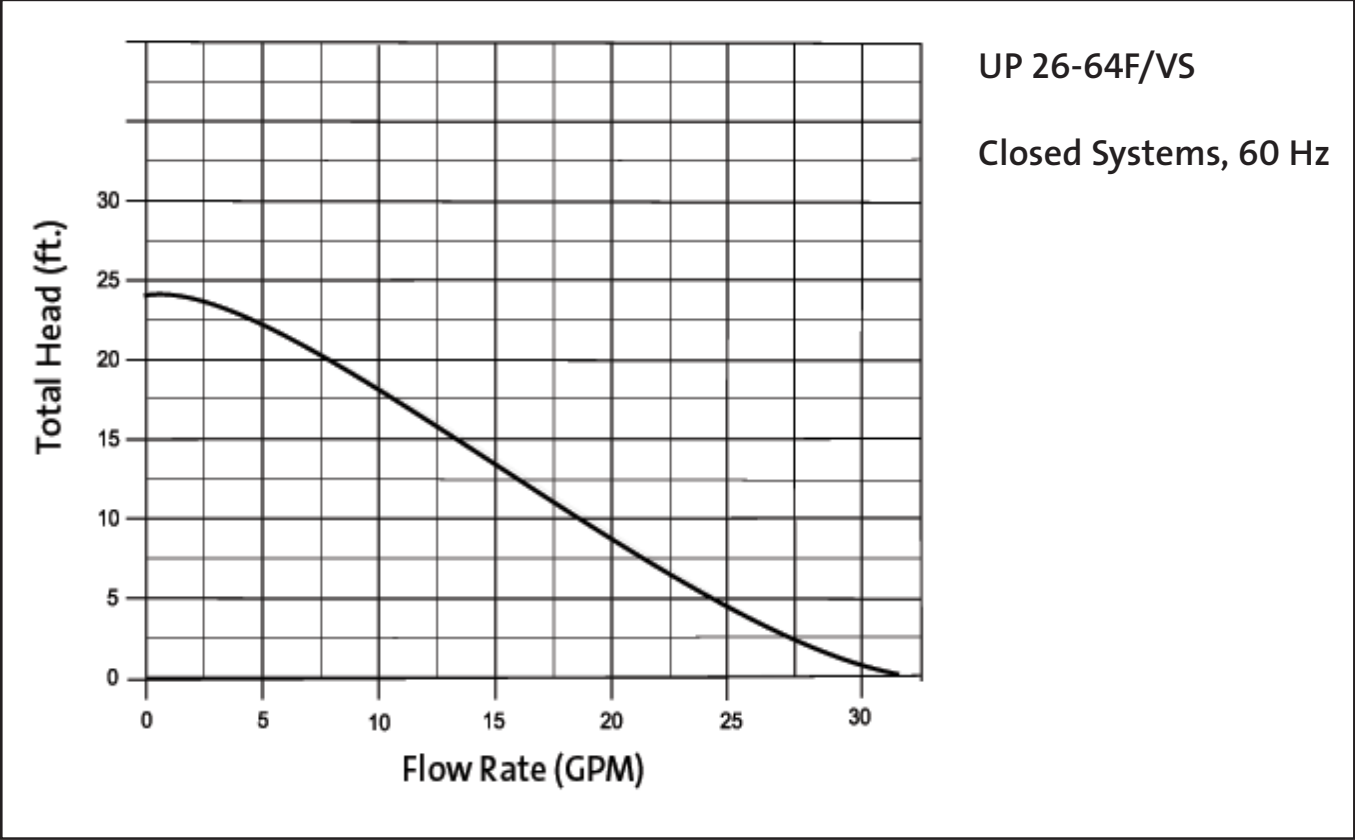
Flow range: 0 - 34 U.S. GPM
 Head range: 0 - 24 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-64F	115	1.7	185	1/12	8mF/180V
	230	0.8	175	1/12	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-64F	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	11 1/4

UP 26-64F/VS



Flow range:

Head range:

Motors:

Maximum fluid temperature:

Maximum working pressure:

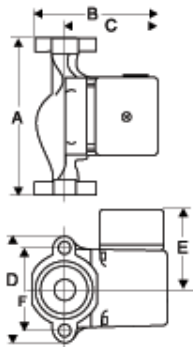
0 - 32 U.S. GPM

0 - 24 FEET

2 Pole, Single Phase

195°F (91°C)

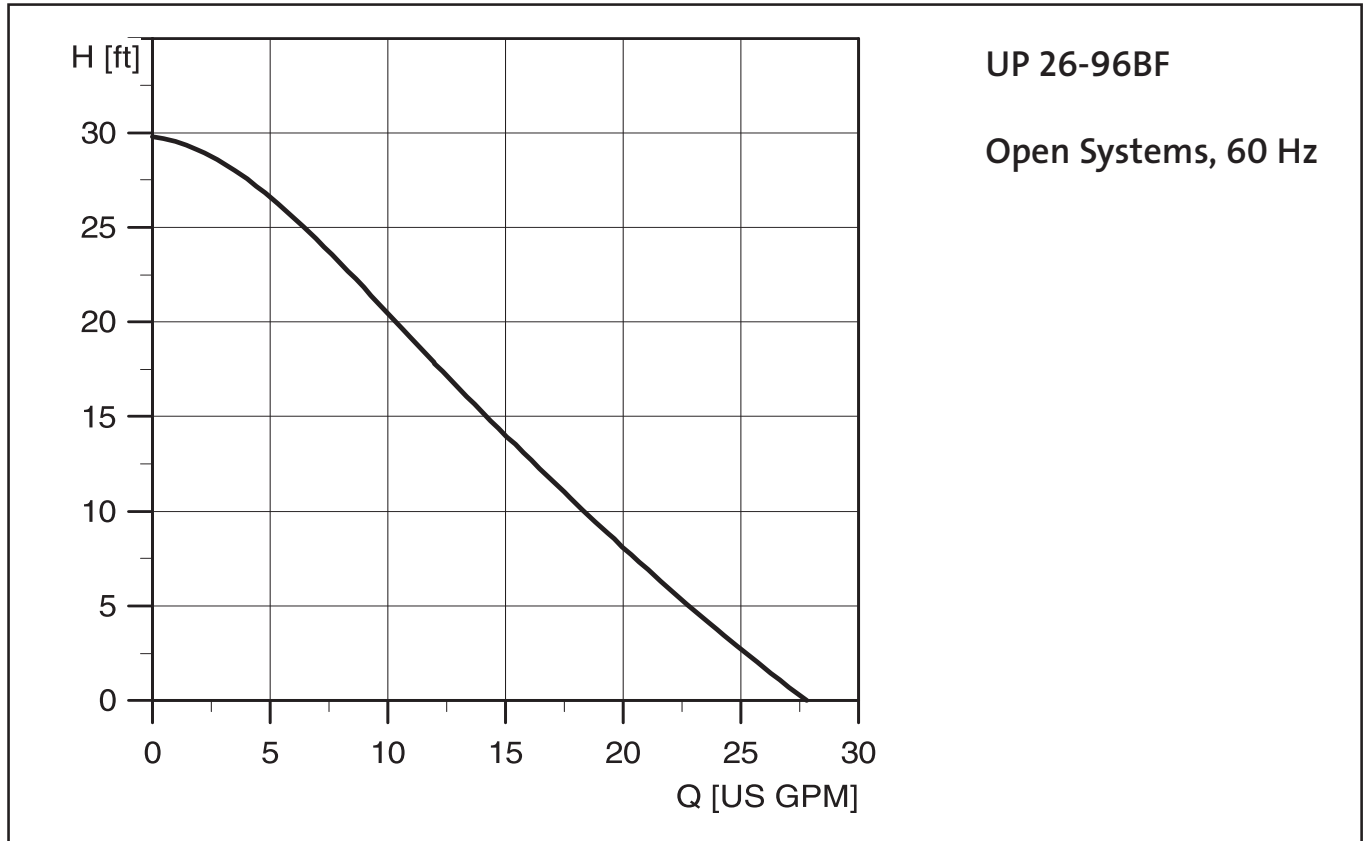
145 PSI



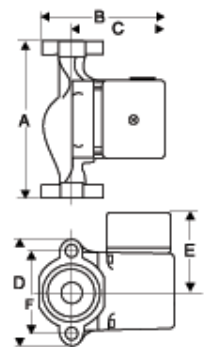
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-64F/VS	115	1.7	185	1/12	8mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-64F/VS	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	11 1/4

UP 26-96BF



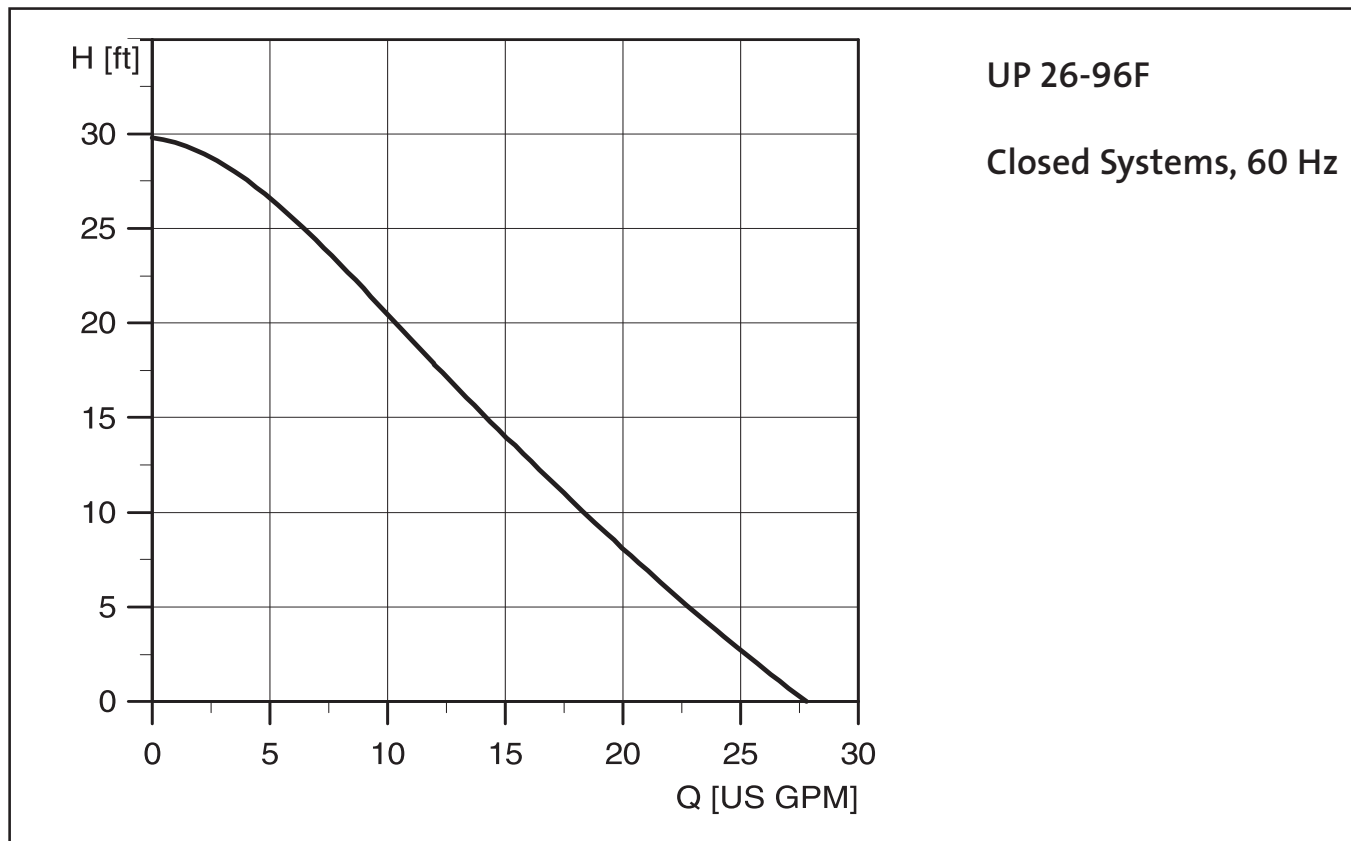
Flow range: 0 - 27.5 U.S. GPM
 Head range: 0 - 30 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



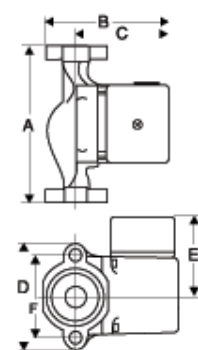
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-96BF	115	1.7	205	1/12	10mF/180V
	230	0.8	205	1/12	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-96BF	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	12.5

UP 26-96F



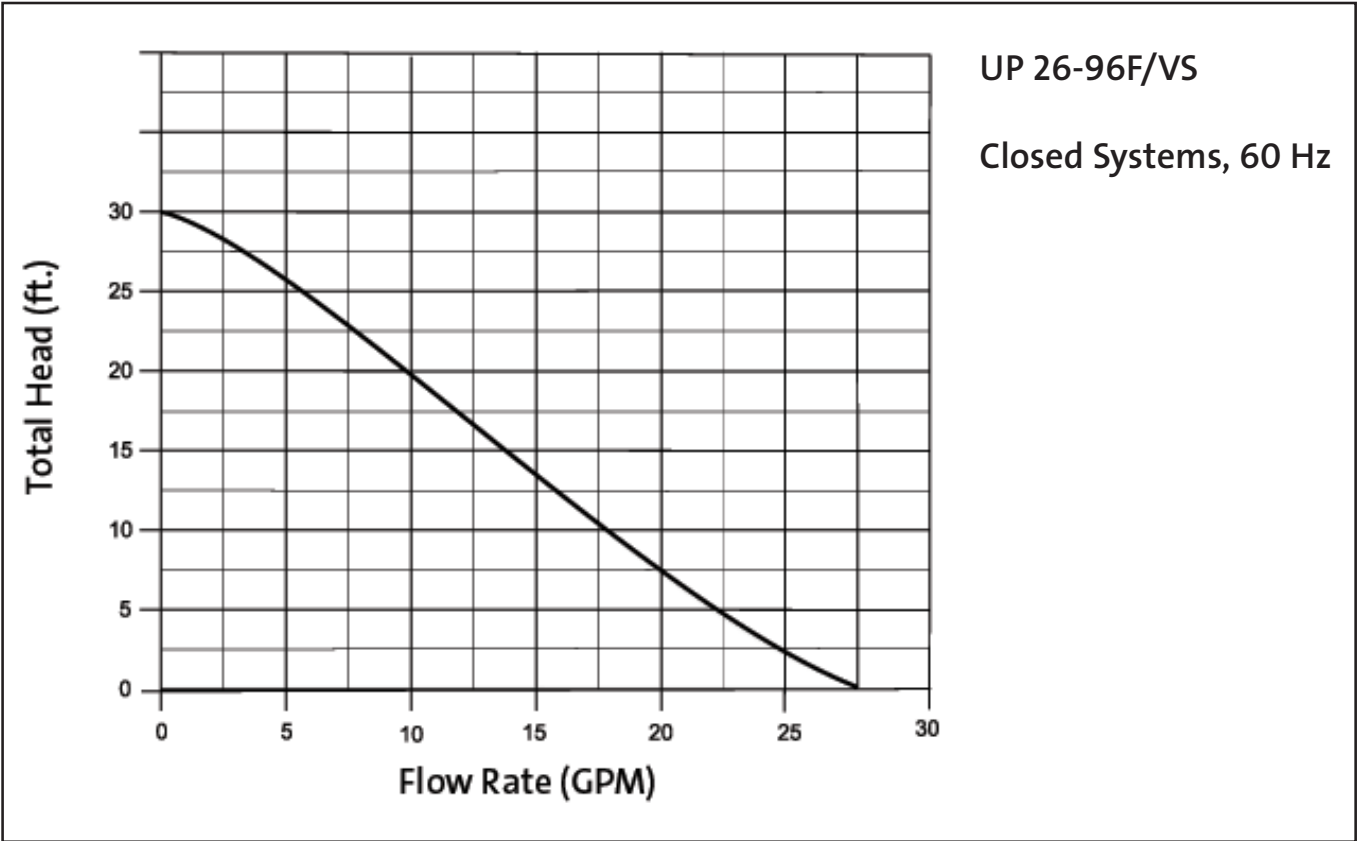
Flow range: 0 - 27.5 U.S. GPM
 Head range: 0 - 30 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-96F	115	1.7	205	1/12	10mF/180V
	230	0.8	205	1/12	2.5mF/380V

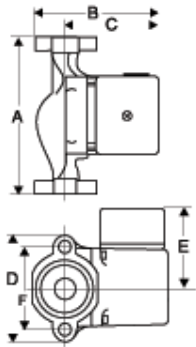
Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-96F	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	11 1/4

UP 26-96F/VS



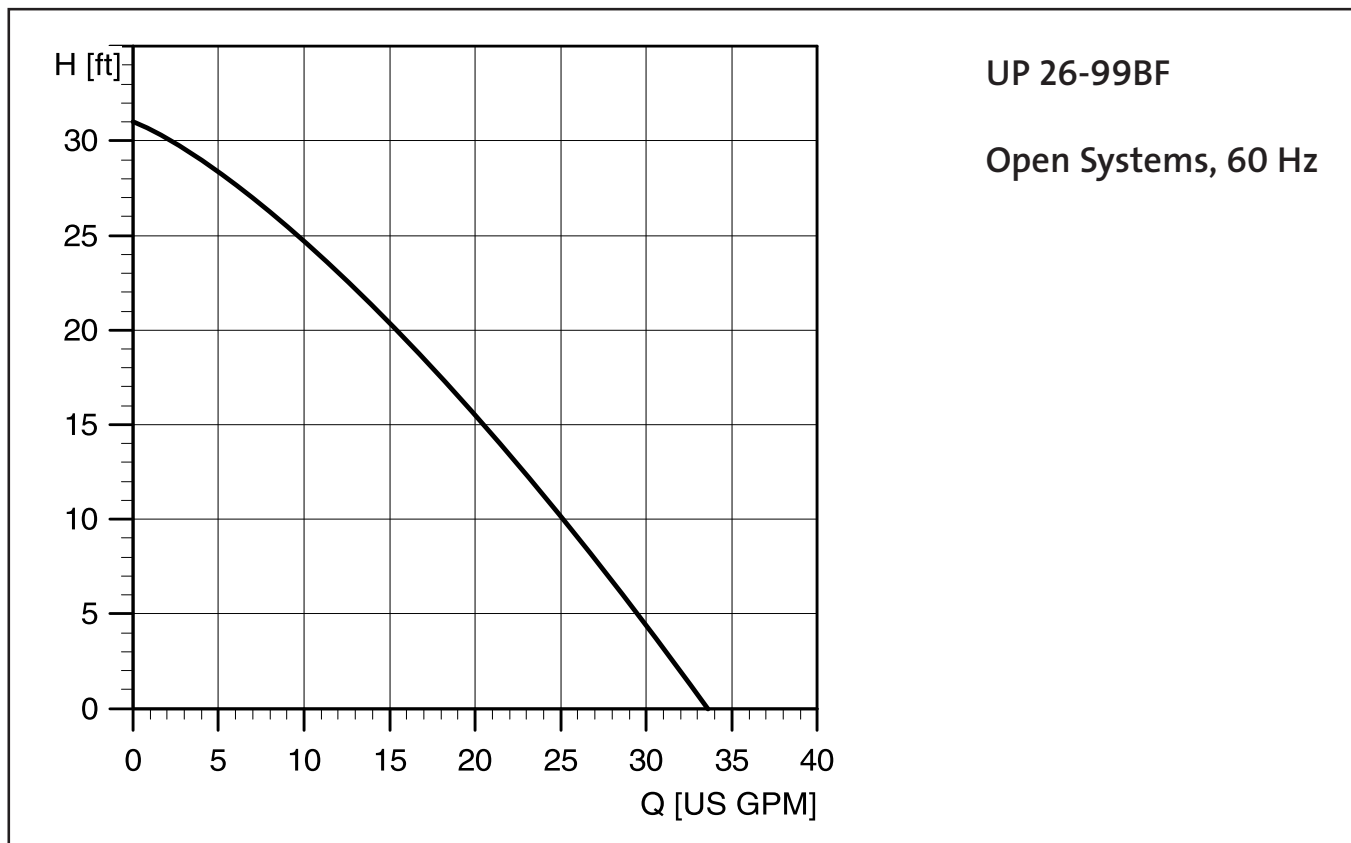
Flow range: 0 - 27.5 U.S. GPM
Head range: 0 - 30 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 195°F (91°C)
Maximum working pressure: 145 PSI

MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-96F/VS	115	1.7	205	1/12	10mF/180V
	230	0.8	205	1/12	2.5mF/380V

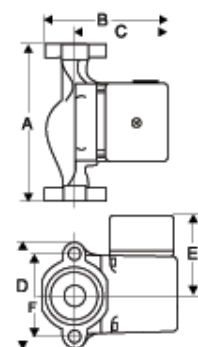


Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-96F/VS	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	11 1/4

UP 26-99BF



Flow range: 0 - 34 U.S. GPM
 Head range: 0 - 32 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



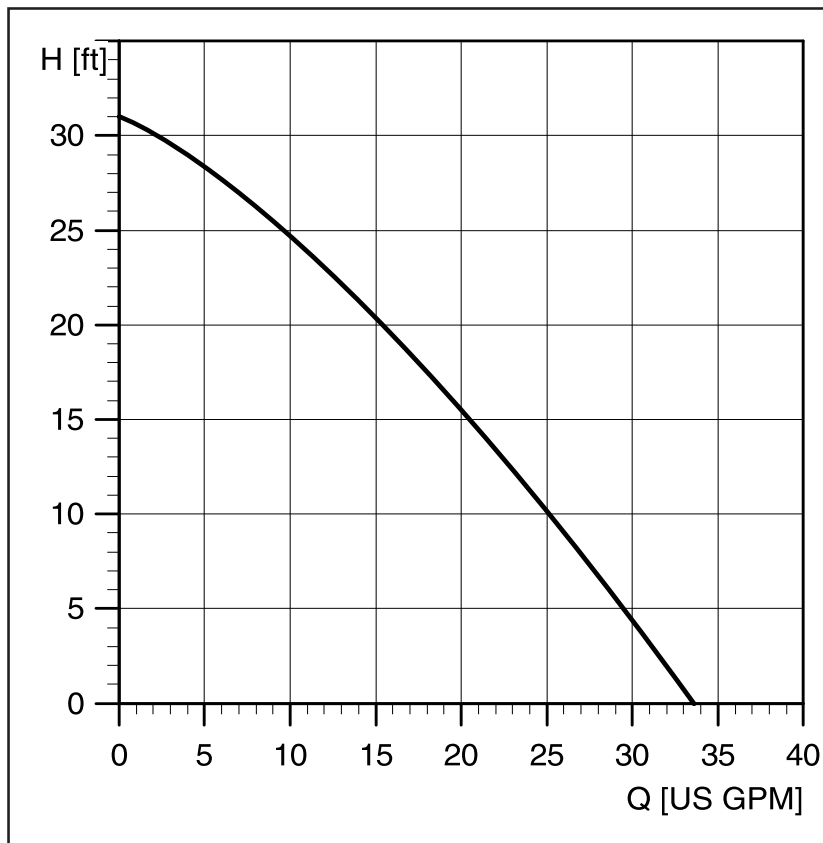
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-99BF	115	2.15	245	1/6	10mF/180V
	230	1.07	245	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-99BF	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	12.5

GENERAL DATA

GRUNDFOS SERIES UP

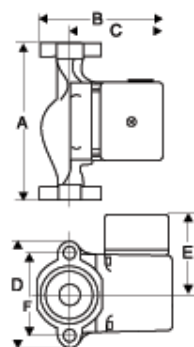
UP 26-99F



UP 26-99F

Closed Systems, 60 Hz

Flow range: 0 - 34 U.S. GPM
 Head range: 0 - 32 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



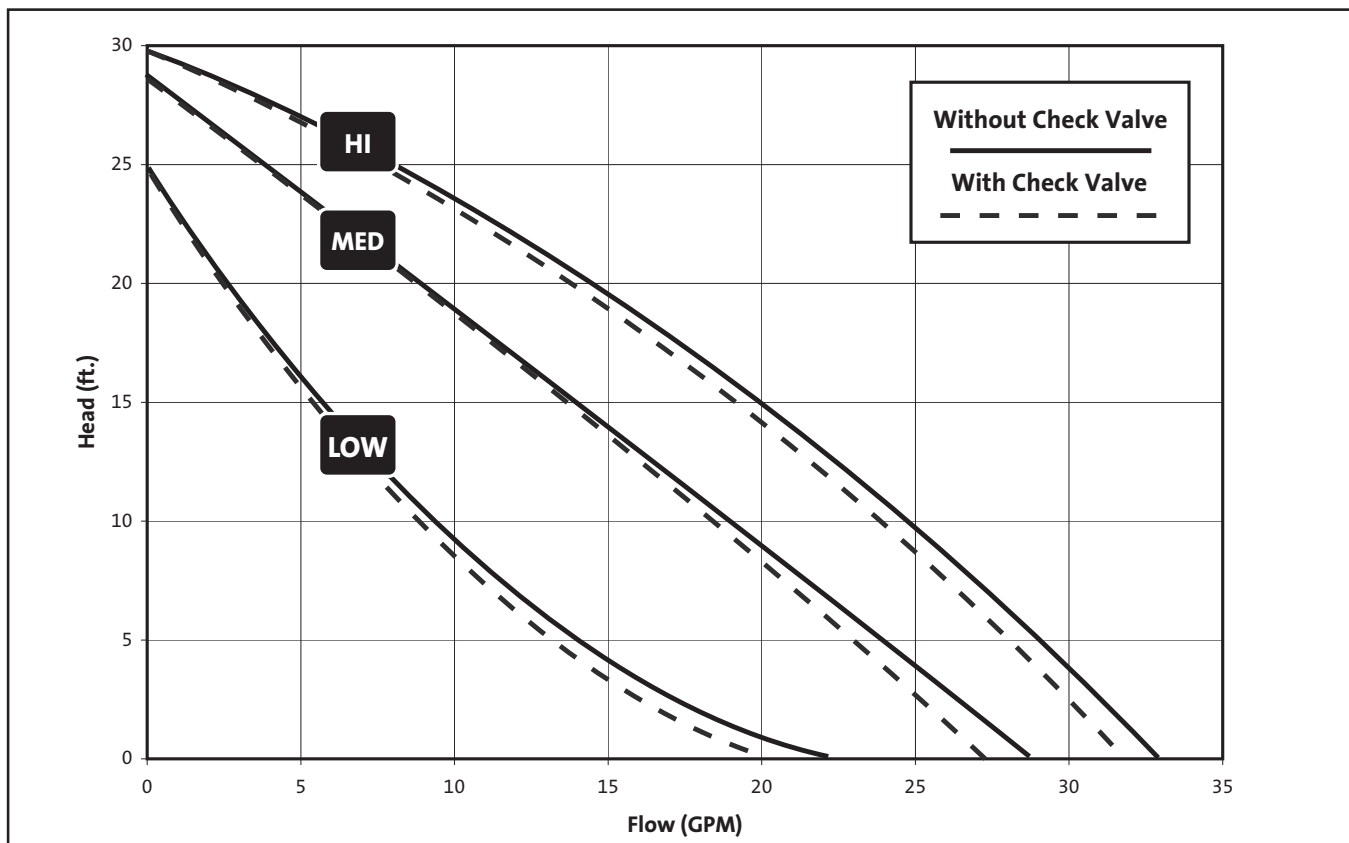
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-99F	115	2.15	245	1/6	10mF/180V
	230	1.07	245	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-99F	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	12 1/2

GENERAL DATA

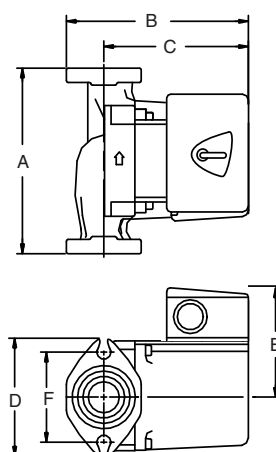
GRUNDFOS SERIES UP

UPS 26-99FC/BFC SUPERBRUTE



Flow range: 0 - 34 U.S. GPM
 Head range: 0 - 30 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI

MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
115V	Spd. 3	1.8	197	1/6	20mF/180V
	Spd. 2	1.5	179	1/6	20mF/180V
	Spd. 1	1.3	150	1/6	20mF/180V
230V	Spd. 3	0.9	196	1/6	5mF/400V
	Spd. 2	0.8	179	1/6	5mF/400V
	Spd. 1	0.7	150	1/6	5mF/400V

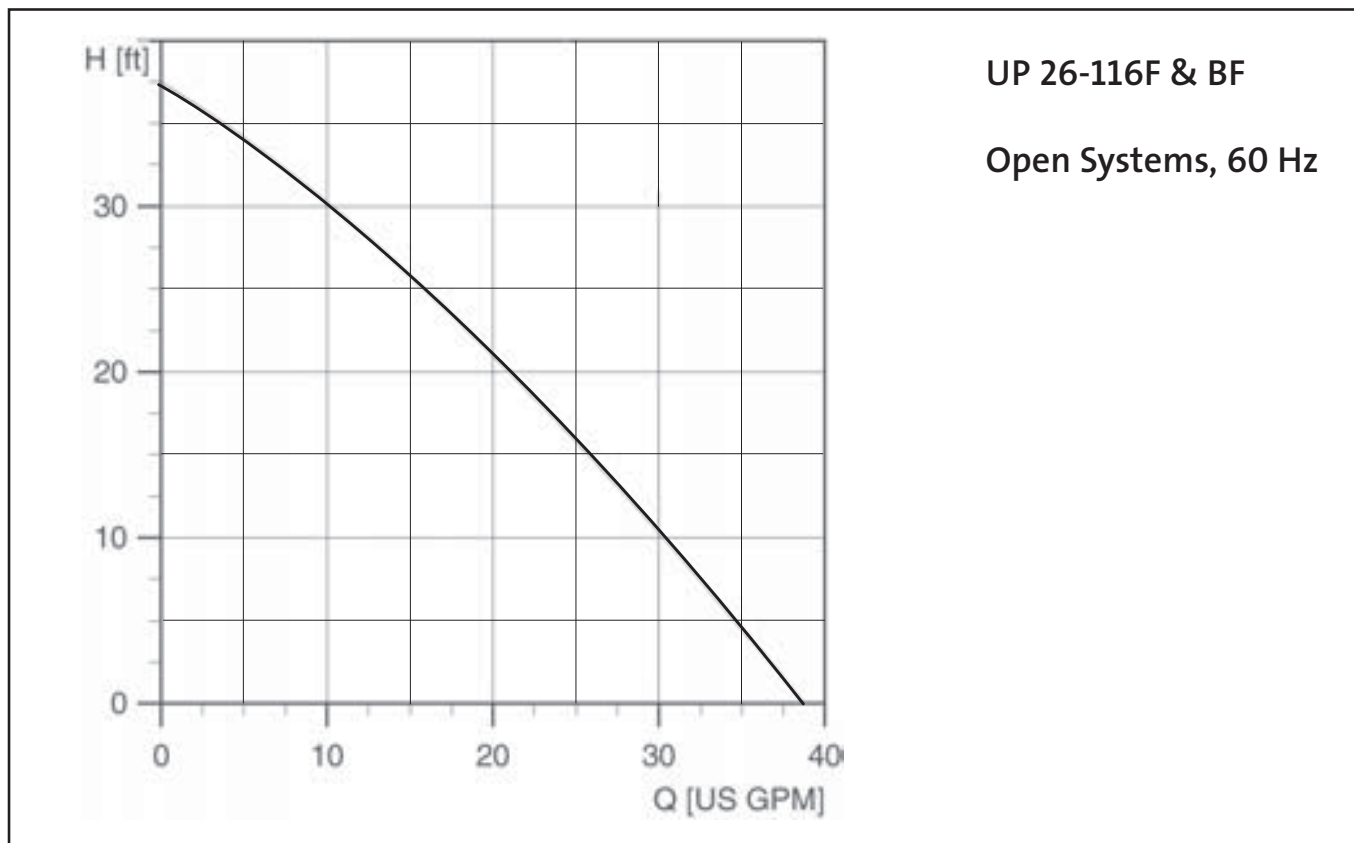


Model Type	A	B	C	D	E	F	Connection Type and Size	Approximate Shipping Wt. (lbs)
UPS26-99FC/BFC	6 1/2	6	4 7/8	3 1/2	3 7/16	3 5/32	GF 15/26 Flange - (2) 1/2" Dia. Bolt Holes	10.3

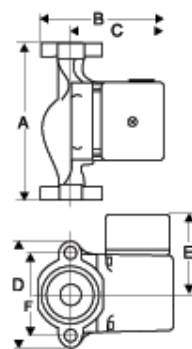
GENERAL DATA

GRUNDFOS SERIES UP

UP 26-116F & BF



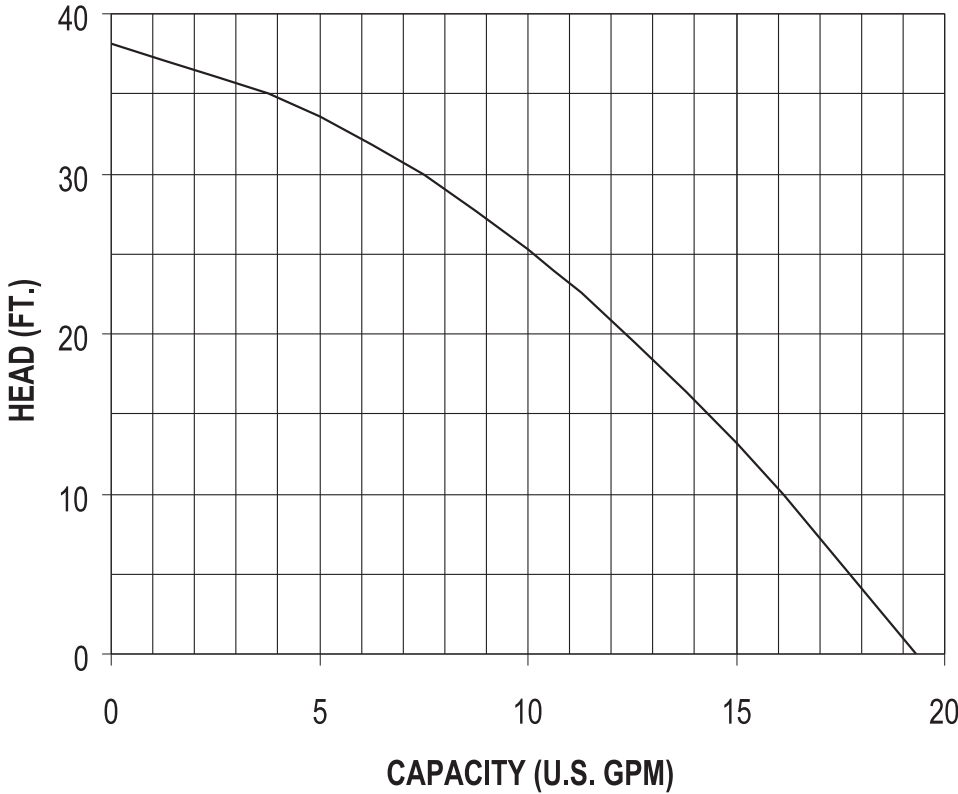
Flow range: 0 - 38.5 U.S. GPM
 Head range: 0 - 37.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 150°F (65°C)
 Min. fluid temperature: 32°F (0°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-116F & BF	230	1.8	385	1/6	2.5mF/380V

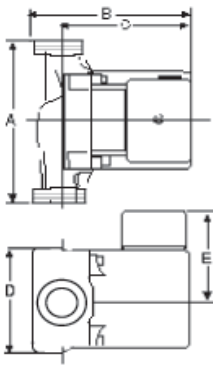
Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-116F & BF	6 1/2	6 3/8	5 1/16	4 1/8	3 1/2	3 5/32	GF 15/26 Flange – (2) 1/2" Dia. Bolt Holes	12 1/2 lbs.

UP 26-120U



UP 26-120U
Closed Systems, 60 Hz

Flow range: 0 - 19 U.S. GPM
Head range: 0 - 38 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 203°F (95°C)
Min. fluid temperature for UP : 32°F (0°C)
Maximum working pressure: 145 PSI



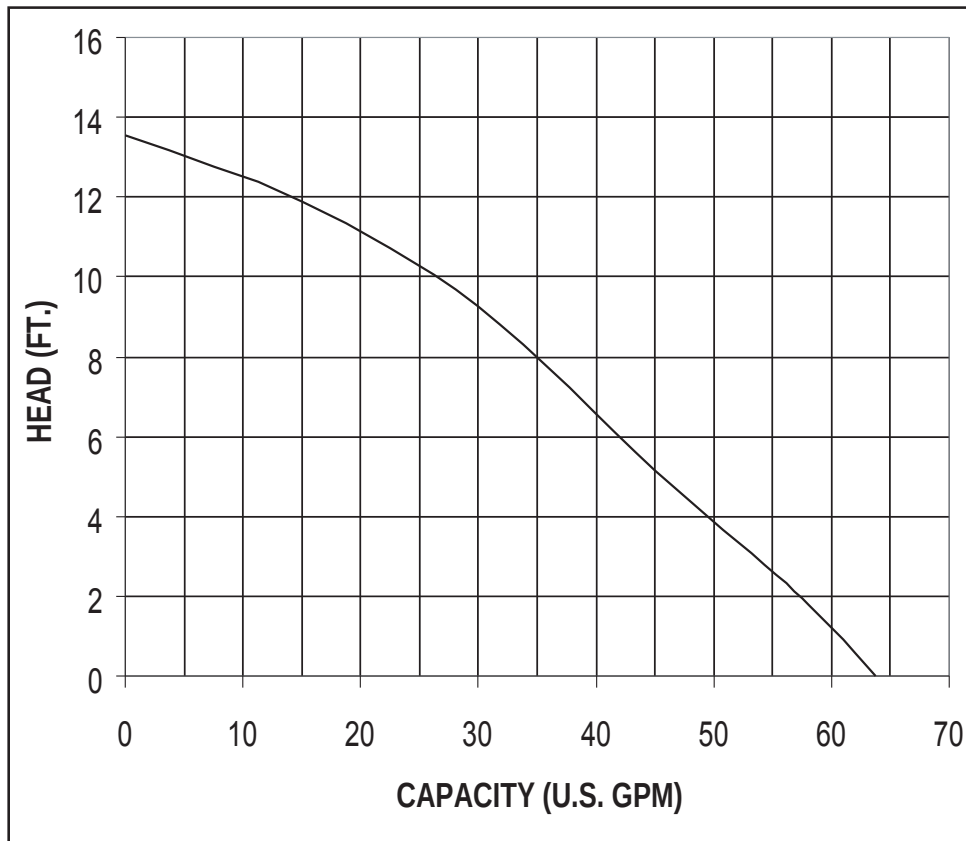
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP26-120U	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

Model Type	A	B	C	D	E	Connection Type and Size	Shipping Wt. (Lbs.)
UP26-120U	7 1/16	5 7/8	5 1/16	4 7/8	3 1/2	GF 125 Union – 1 1/4" NPSM	10 1/2

GENERAL DATA

GRUNDFOS SERIES UP

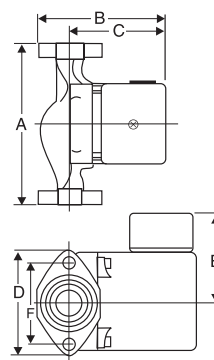
UP 43-44BF



UP 43-44BF

Open Systems, 60 Hz

Flow range: 0 - 64 U.S. GPM
 Head range: 0 - 13.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 32°F (0°C)
 Maximum working pressure: 145 PSI



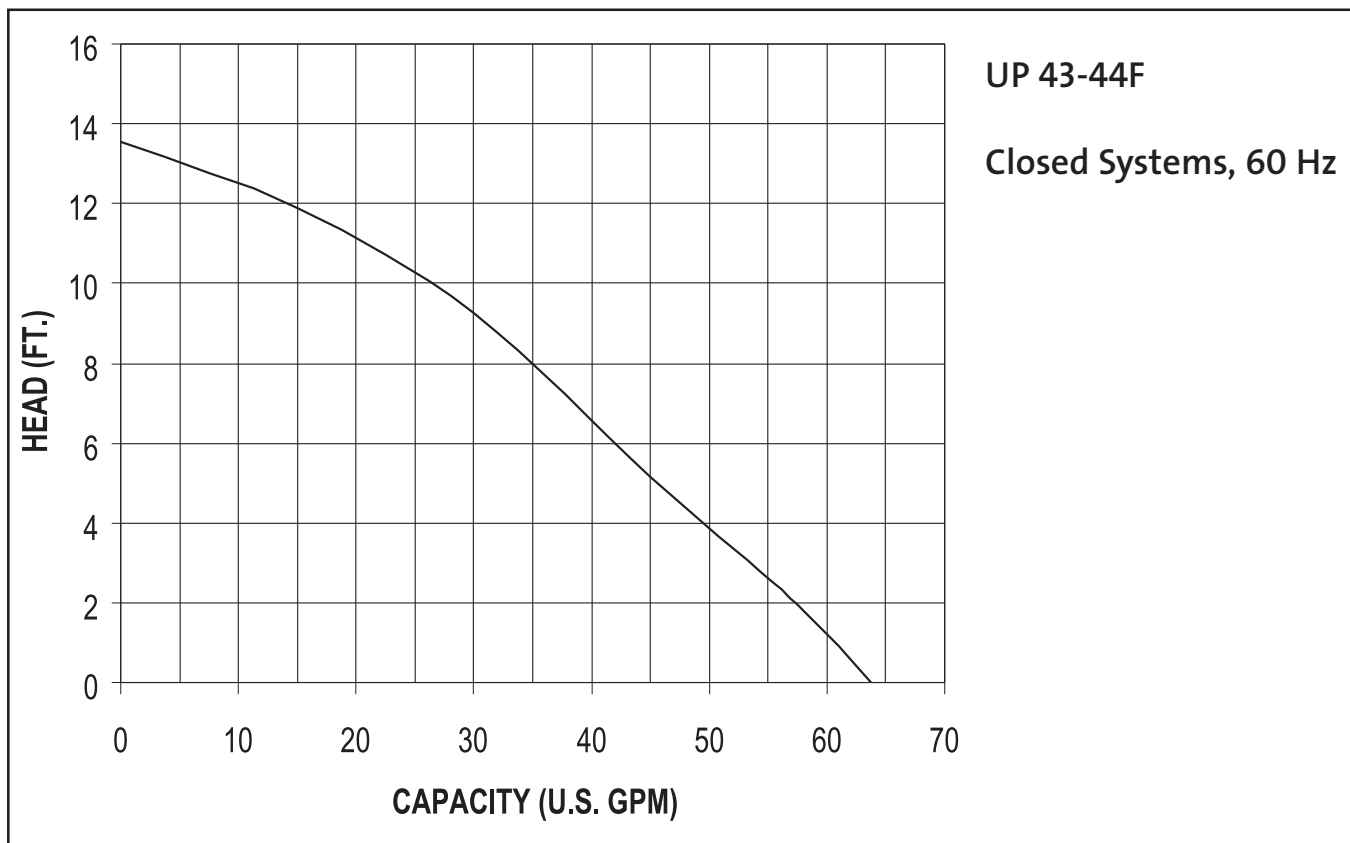
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-44BF	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-44BF	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	15

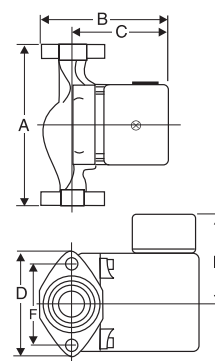
GENERAL DATA

GRUNDFOS SERIES UP

UP 43-44F



Flow range: 0 - 64 U.S. GPM
 Head range: 0 - 13.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 32°F (0°C)
 Maximum working pressure: 145 PSI



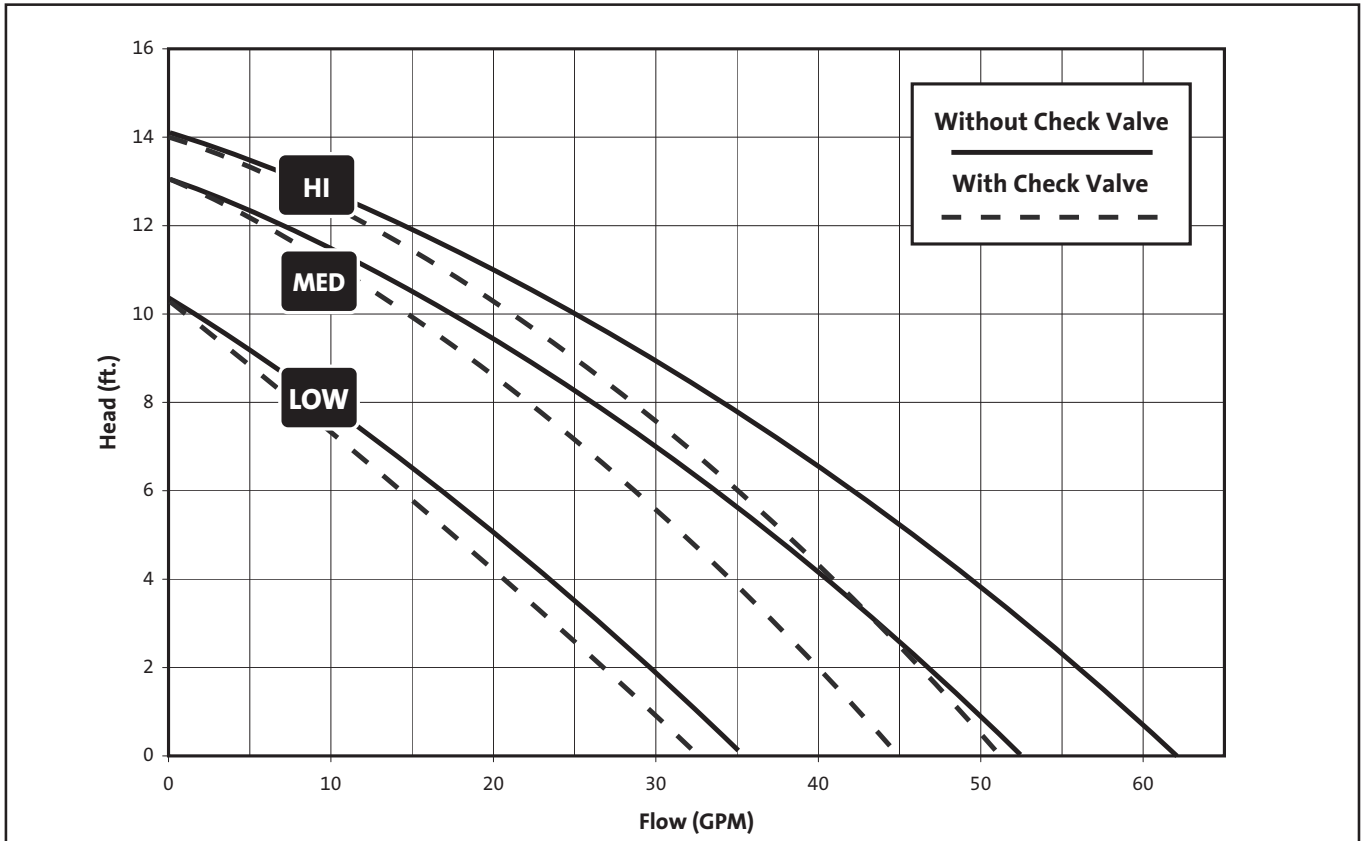
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-44F	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-44F	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	13 1/2

GENERAL DATA

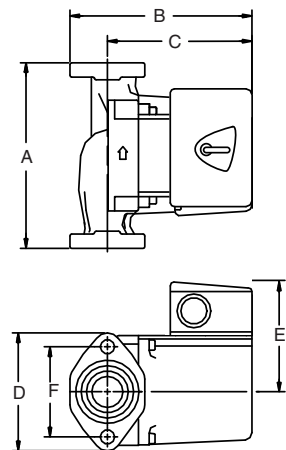
GRUNDFOS SERIES UP

UPS 43-44FC/BFC SUPERBRUTE



Flow range: 0 - 64 U.S. GPM
 Head range: 0 - 14 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 32°F (0°C)
 Maximum working pressure: 145 PSI

UPS43-44BFC/BFC		AMPS	WATTS	HP	CAPACITOR
115V	Spd. 3	1.8	203	1/6	20mF/180V
	Spd. 2	1.7	189	1/6	20mF/180V
	Spd. 1	1.4	157	1/6	20mF/180V
230V	Spd. 3	0.9	203	1/6	5mF/400V
	Spd. 2	0.8	190	1/6	5mF/400V
	Spd. 1	0.7	157	1/6	5mF/400V

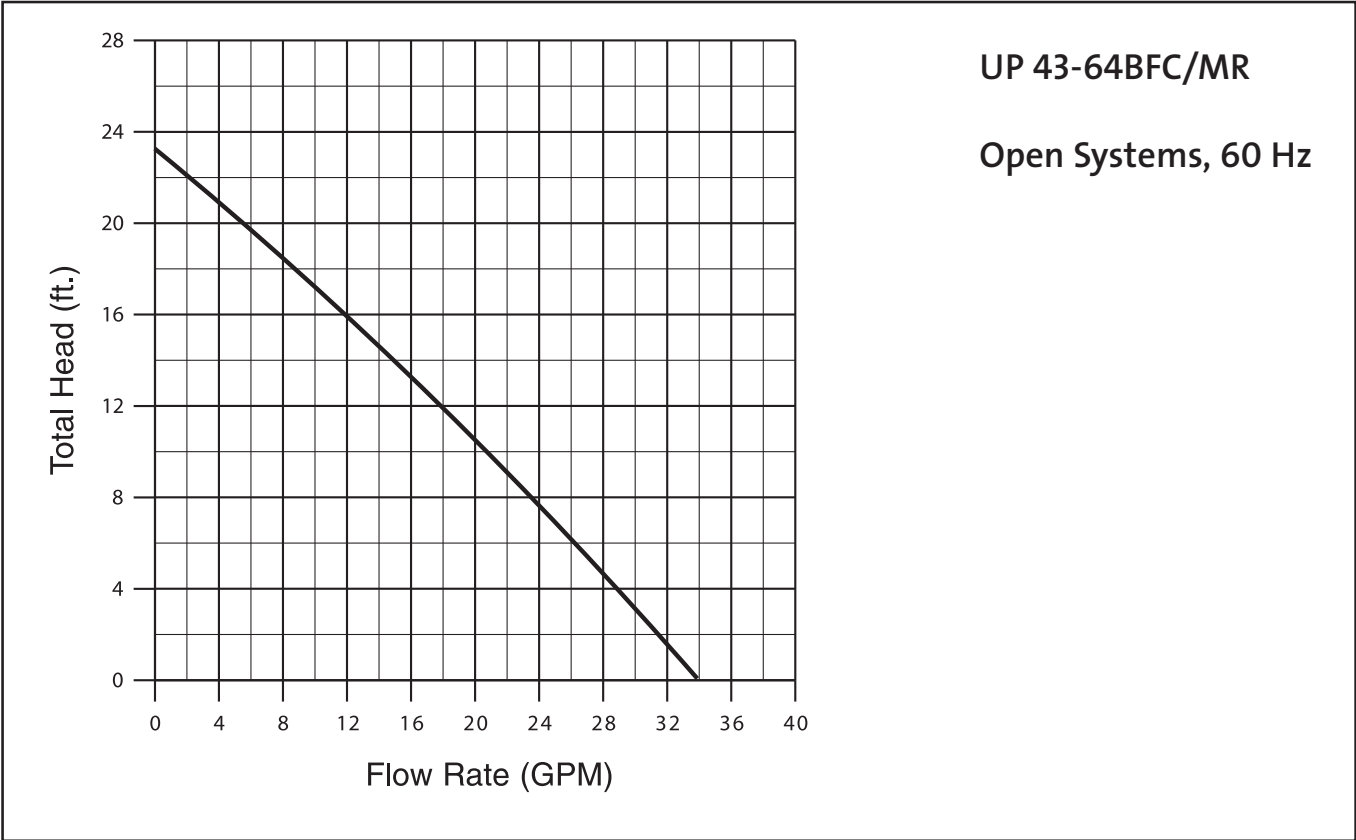


Model Type	A	B	C	D	E	F	Connection Type and Size	Approximate Shipping Wt. (lbs)
UPS43-44FC/BFC	8 1/2	6 11/16	5 1/8	4 3/4	3 3/16	3 7/16	GF 40/43 Flange - (2) 1/2" Dia. Bolt Holes	13.6

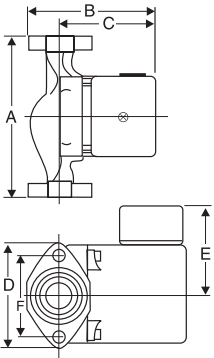
GENERAL DATA

GRUNDFOS SERIES UP

UP 43-64BFC/MR



Flow range: 0 - 34 U.S. GPM
Head range: 0 - 23 FEET
Motors: 2 Pole, Single Phase
Maximum fluid temperature: 195°F (91°C)
Maximum working pressure: 145 PSI



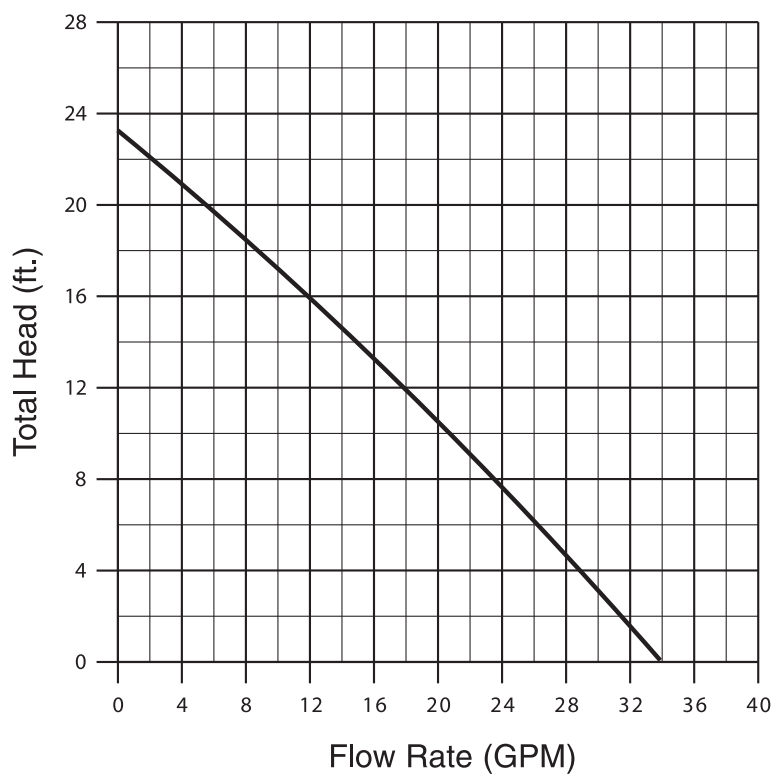
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-64BFC/MR	115	1.7	180	3 7/16	8mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-64BFC/MR	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	14

GENERAL DATA

GRUNDFOS SERIES UP

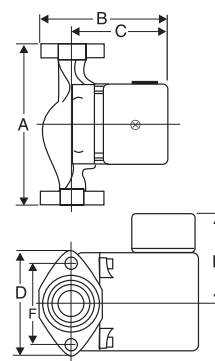
UP 43-64FC



UP 43-64FC

Closed Systems, 60 Hz

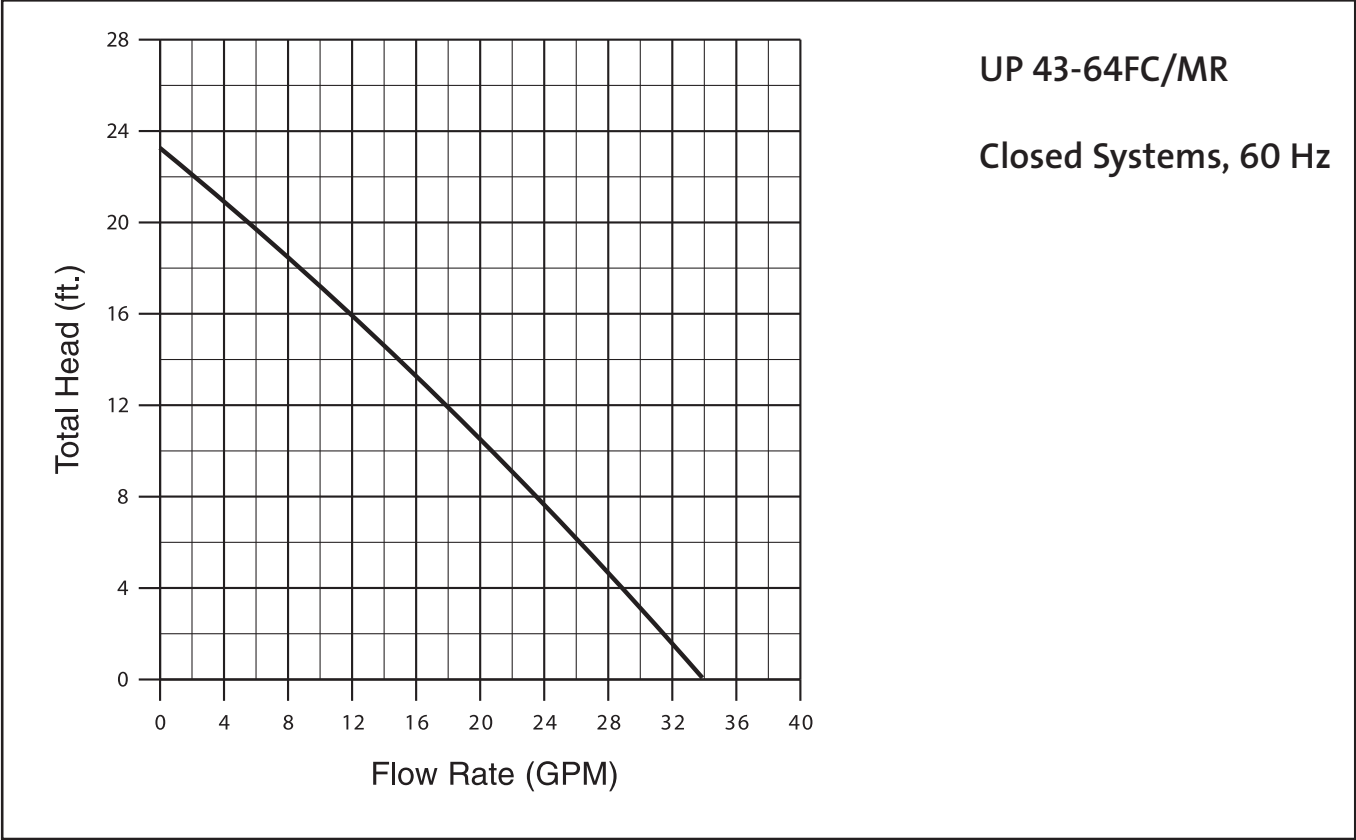
Flow range: 0 - 34 U.S. GPM
 Head range: 0 - 23 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-64FC	115	1.7	180	1/12	8mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-64FC	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	14

UP 43-64FC/MR



Flow range:

Head range:

Motors:

Maximum fluid temperature:

Maximum working pressure:

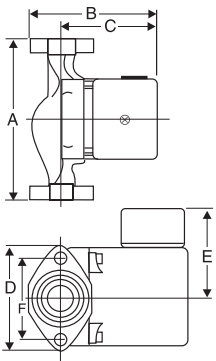
0 - 34 U.S. GPM

0 - 23 FEET

2 Pole, Single Phase

195°F (91°C)

145 PSI



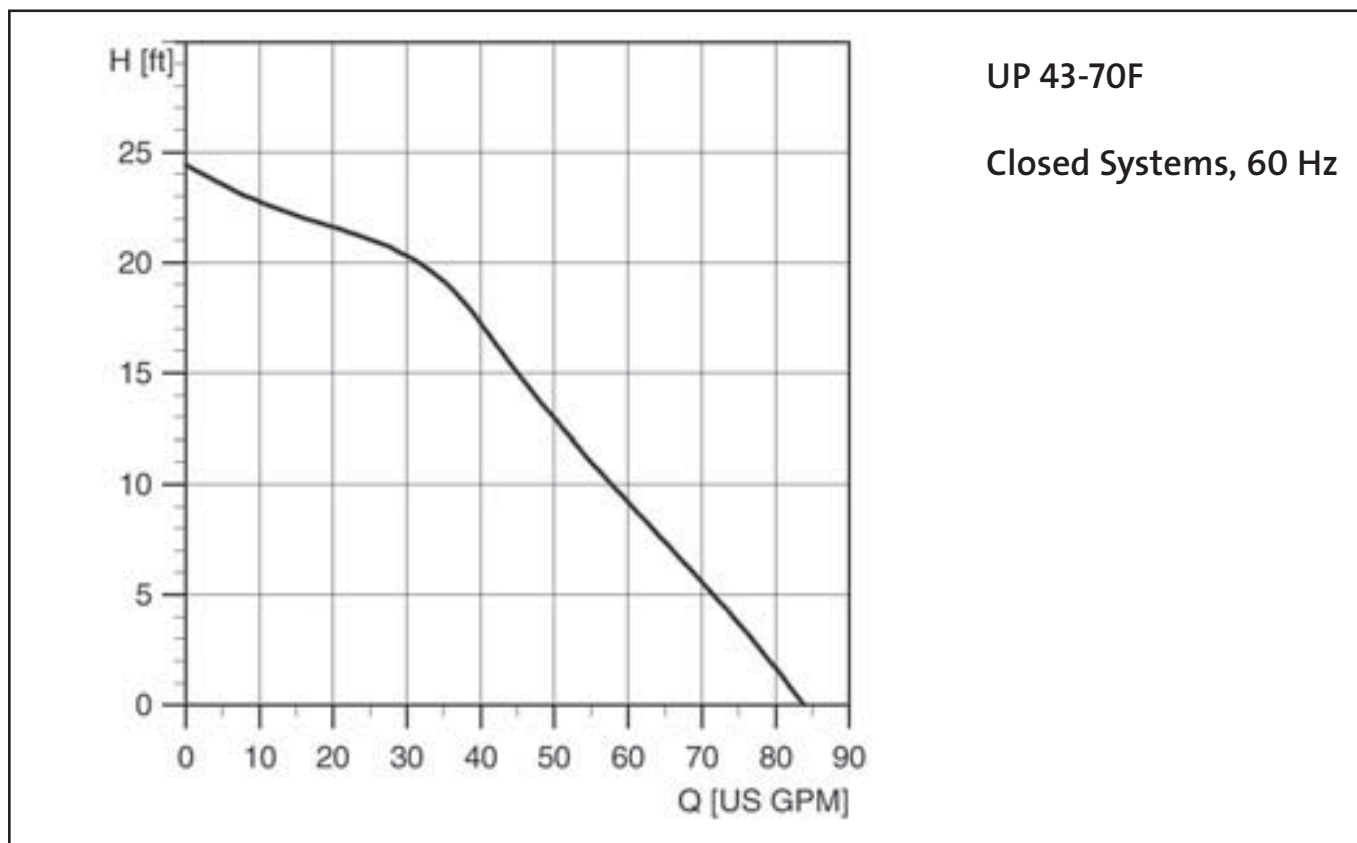
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-64FC/MR	115	1.7	180	1/12	8mF/180V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-64FC/MR	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	14

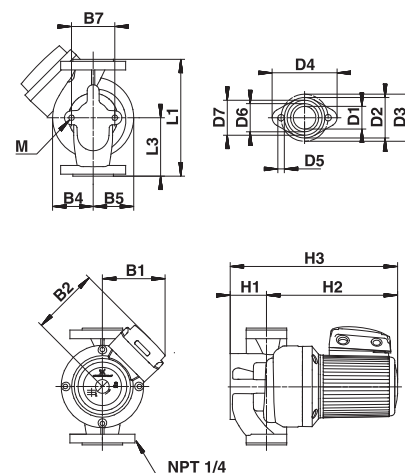
GENERAL DATA

GRUNDFOS SERIES UP

UP 43-70F



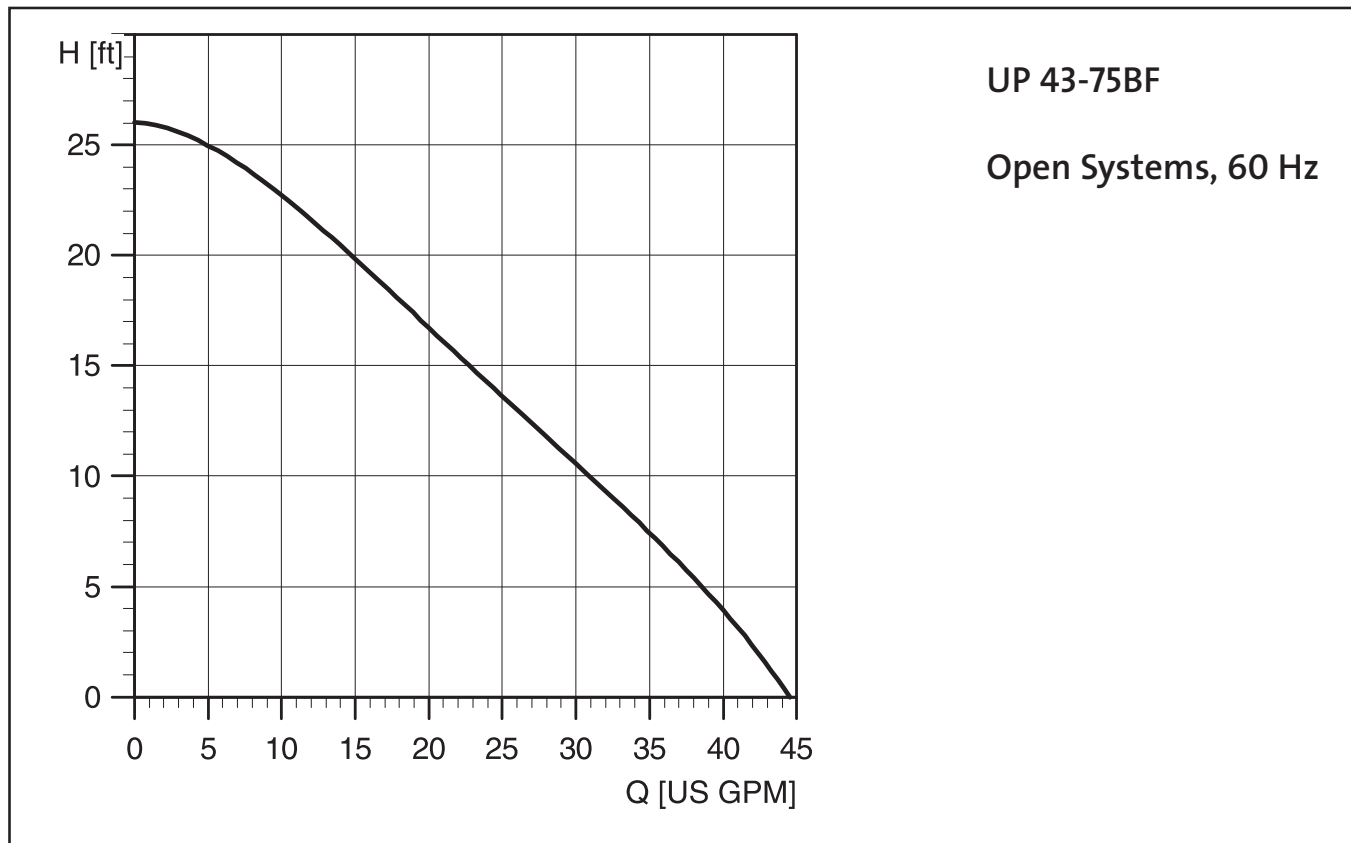
Flow range: 85 U.S. GPM
 Head range: 24.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 14°F (-10°C)
 Maximum working pressure: 145 PSI
 Flanges: GF 40/43 Flange 1 1/2", 2 bolt with (2) 1/2" Diameter holes



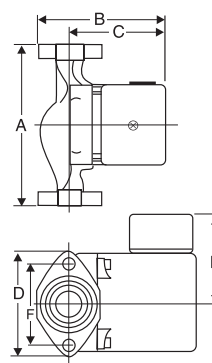
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-70F	115	3.4	400	1/2	30mF
	230	1.8	400	1/2	30mF

Model Type	L1	L3	B1	B2	B4	B5	B7	H1	H2	H3	D1	D2	D3	D4	D6	D7	Suc. Disc. Size	Net Wt. (Lbs.)
UP43-70F	8 1/2	4 1/4	5 5/16	5 4/7	2 15/16	2 15/16	3 1/8	2 5/8	9 5/8	12 3/16	1 5/8	2 5/16	3 7/16	4 3/4	2	2 1/2	1 1/2	33.7

UP 43-75BF



Flow range: 0 - 45 U.S. GPM
 Head range: 0 - 26 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



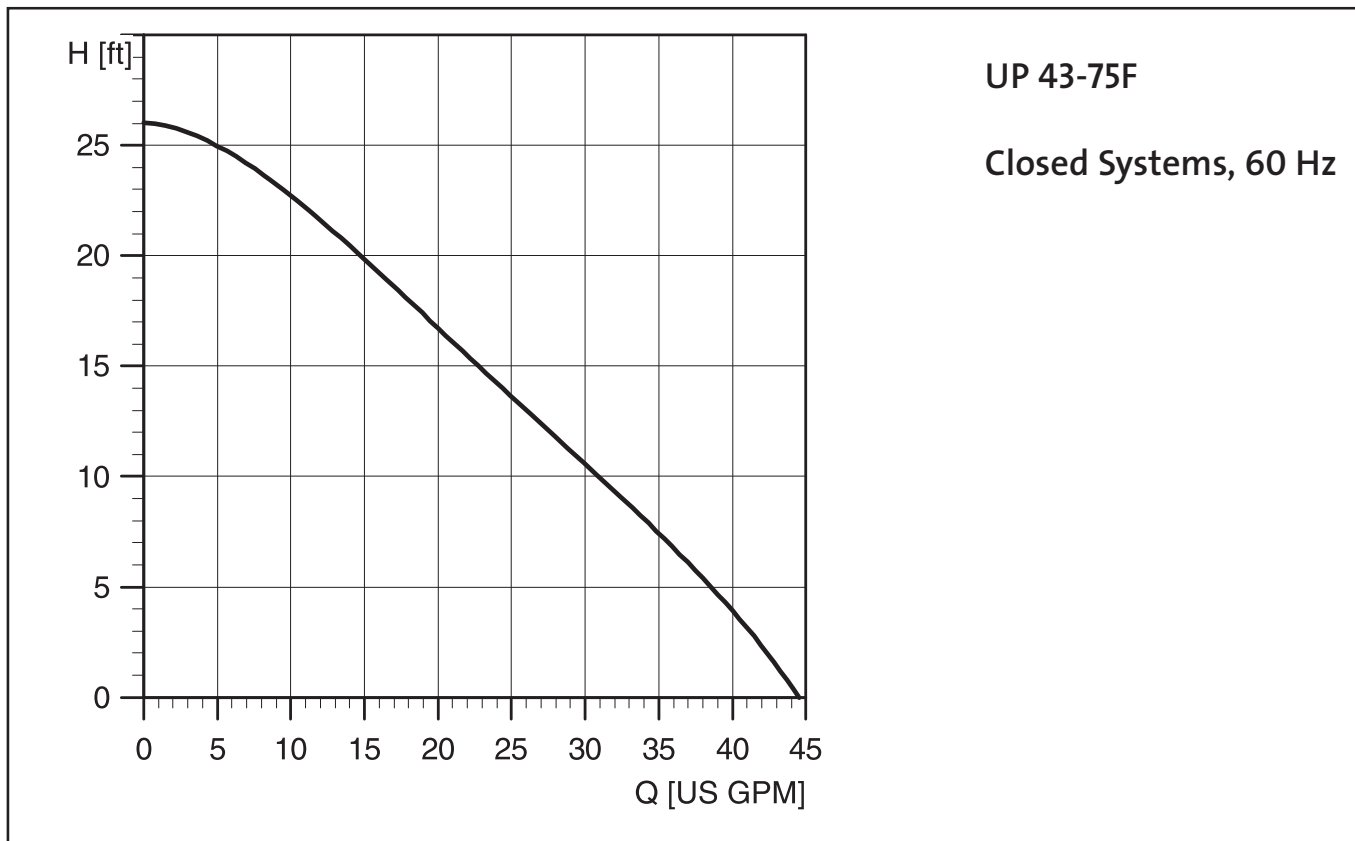
MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-75BF	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-75BF	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	15

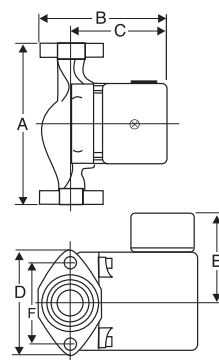
GENERAL DATA

GRUNDFOS SERIES UP

UP 43-75F



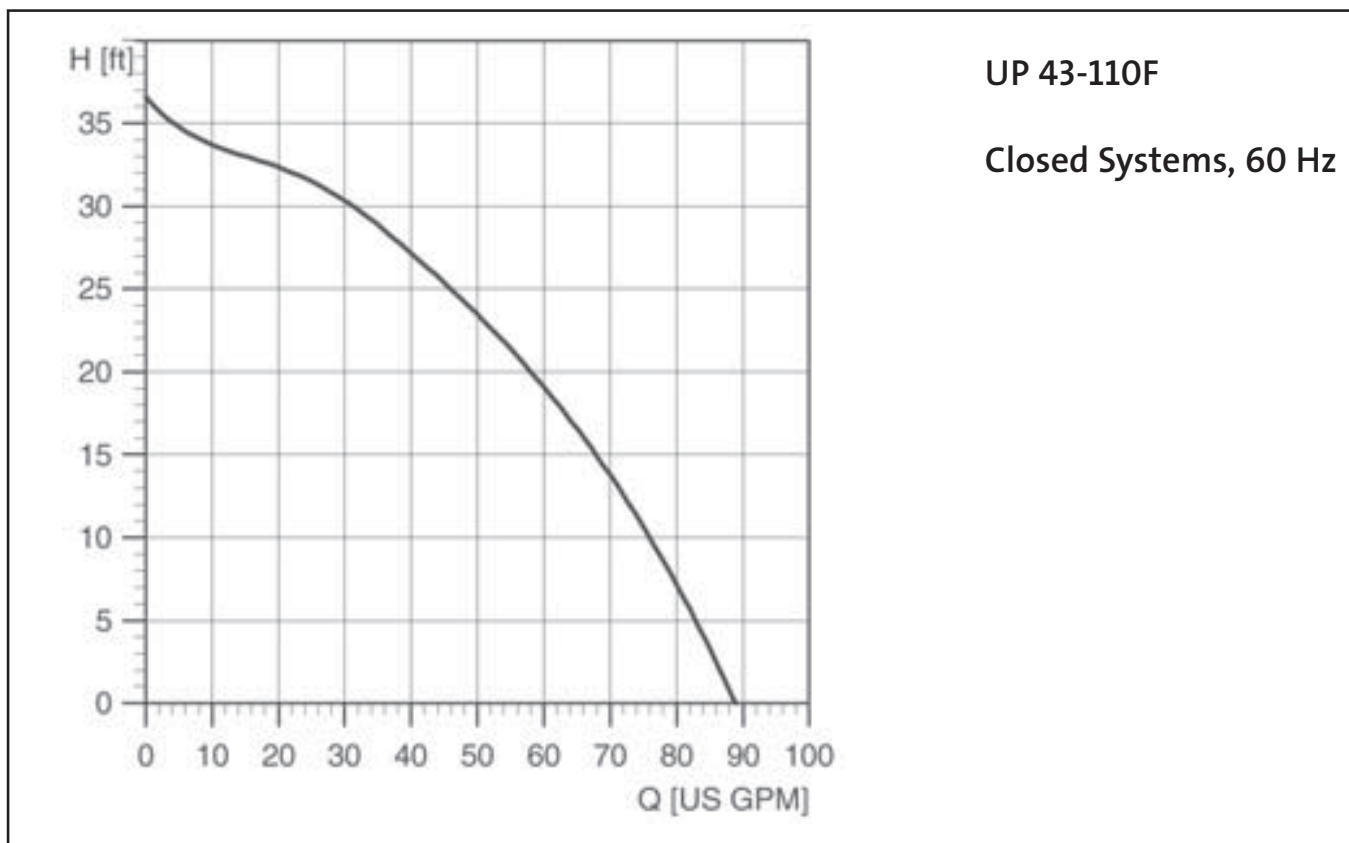
Flow range: 0 - 45 U.S. GPM
 Head range: 0 - 26 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 36°F (2°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-75F	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

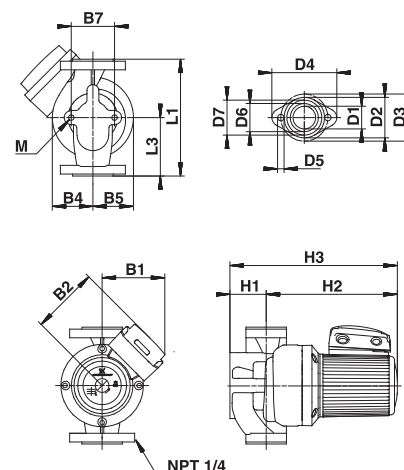
Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP43-75F	8 1/2	6 11/16	5 3/16	4 3/4	3 1/2	3 7/16	GF 40/43 Flange – (2) 1/2" Dia. Bolt Holes	13 1/2

UP 43-110F



Flow range: 0-90 U.S. GPM
 Head range: 1 - 37 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 14°F (-10°C)
 Maximum working pressure: 145 PSI
 Flanges: GF 40/43 Flange 1 1/2", 2 bolt with (2) 1/2" Diameter holes

MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP43-110F	115	5.1	590	3/4	60mF
	230	2.7	590	3/4	60mF

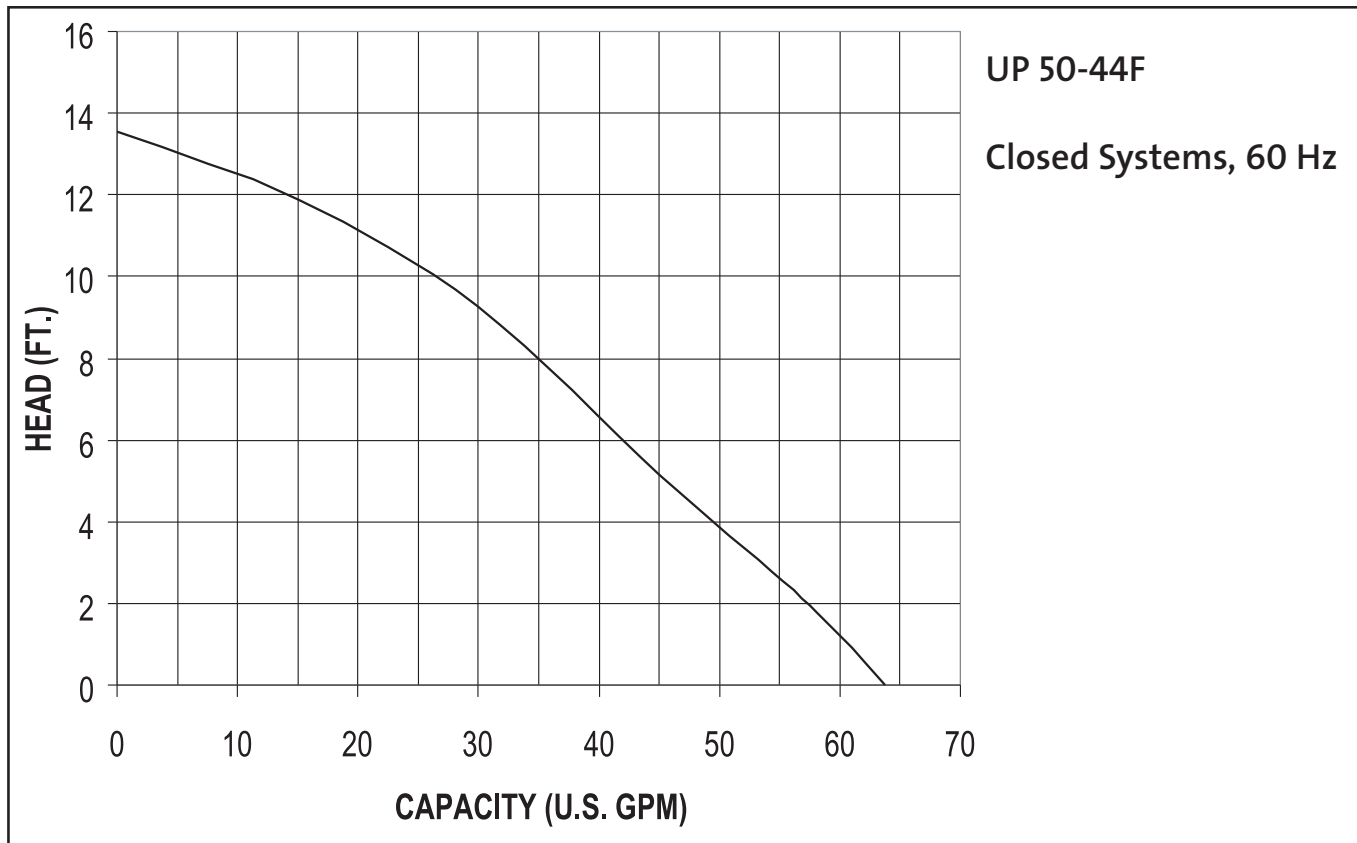


Model Type	L1	L3	B1	B2	B4	B5	B7	H1	H2	H3	D1	D2	D3	D4	D6	D7	Suc. Disc. Size	Net Wt. (Lbs.)
UP43-110F	8 1/2	4 1/4	5 5/16	5 4/7	2 15/16	2 15/16	3 1/8	2 5/8	9 5/8	12 3/16	1 5/8	2 5/16	3 7/16	4 3/4	2	2 1/2	1 1/2	34.2

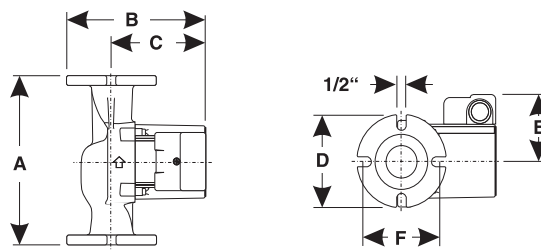
GENERAL DATA

GRUNDFOS SERIES UP

UP 50-44F



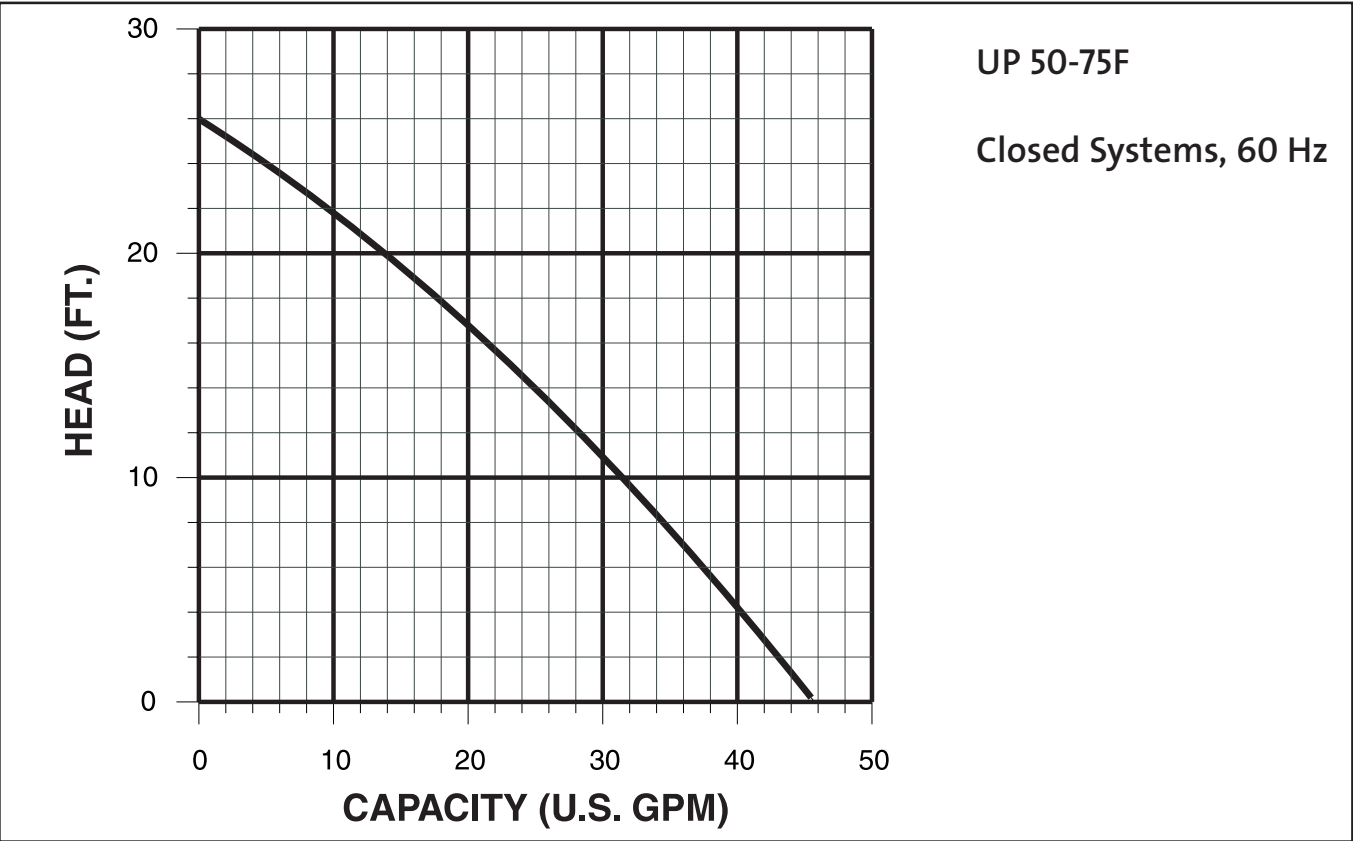
Flow range: 0 - 64 U.S. GPM
 Head range: 0 - 13.5 FEET
 Motors: 2 Pole, Single Phase
 Maximum fluid temperature: 230°F (110°C)
 Min. fluid temperature: 32°F (0°C)
 Maximum working pressure: 145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP50-44F	115	2.15	215	1/6	10mF
	230	1.07	220	1/6	2.5mF/400V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP50-44F	8 1/2	7 1/2	5 1/16	4 7/8	3 1/2	4 1/16	GF 50 Flange – (2) 1/2" Dia. Bolt Holes	15 1/2

UP 50-75F



Flow range:

Head range:

Motors:

Maximum fluid temperature:

Min. fluid temperature:

Maximum working pressure:

0 - 45 U.S. GPM

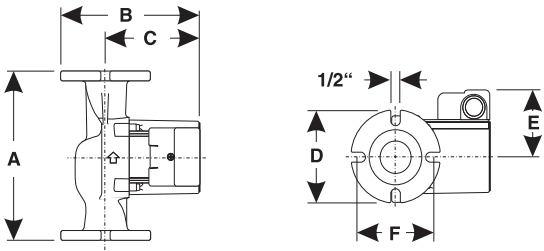
0 - 27 FEET

2 Pole, Single Phase

230°F (110°C)

32°F (0°C)

145 PSI



MODEL	VOLTS	AMPS	WATTS	HP	CAPACITOR
UP50-75F	115	2.15	215	1/6	10mF/180V
	230	1.07	220	1/6	2.5mF/380V

Model Type	A	B	C	D	E	F	Connection Type and Size	Shipping Wt. (Lbs.)
UP50-75F	8 1/2	7 1/2	5 1/16	4 7/8	3 1/2	4 1/16	GF 50 Flange – (2) 1/2" Dia. Bolt Holes	15 1/2

GENERAL DATA

GRUNDFOS SERIES UP

UP Timer

Specifications

Type: 24 hr. 3 position on/timer/off 15 minute interval
 Size: 3.77 X 2.85 X 1.25"
 Supply Voltage: 120 VAC
 Power Consumption: 1VA



Switch Rating: SPDT

Resistive: 21A

Tungsten: 1350W

Inductive: 1HP @ 120VAC; 2HP @ 240VAC

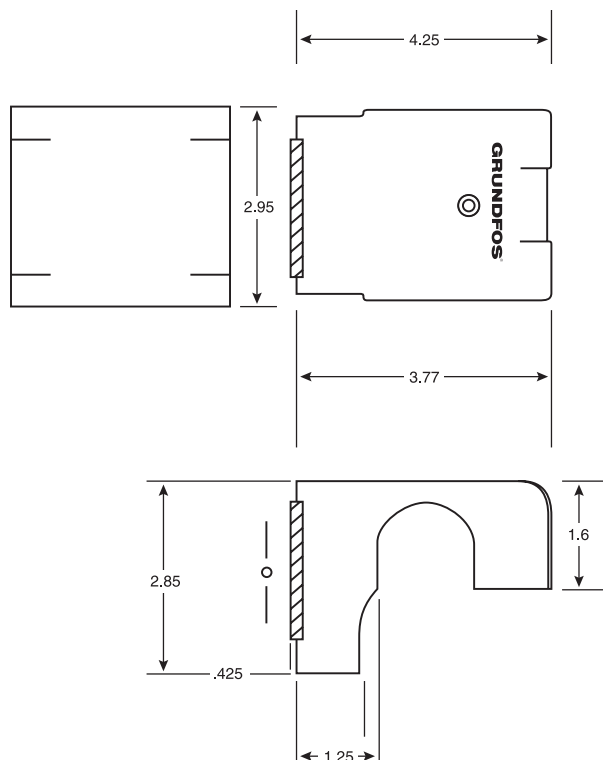
Wiring Connections: 1/4" quick-connects

Installation: Indoor, wired and mounted on UP Circulator Terminal Box

Part Number: 505474

Features

- Compact and contemporary design
- Captive trippers are easy to set, can't be lost
- Quartz drive provides 7 day carry-over
- Synchronous drive for greatest accuracy, lowest cost
- UL recognized, CSA listed



AquaStat

Specifications

Description: Thermostatic Switch
 Type: Bi-metallic Disc, Snap acting
 Enclosure: Environmentally Sealed



Mounting:

Clip on mount for 1/2" I.D. copper tube (5/8" O.D.)

Clip on mount for 3/4" I.D. copper tube (7/8" O.D.)

Contact Rating:

10 amp @ 120 VAC 60 Hz resistive

5 amp @ 240 VAC 60 Hz resistive

Temperature Rating:

Low Temp Model

105+5°F (40+2°C) Pump switches off

85+6°F (29+3°C) Pump switches on

High Temp Model

115+5°F (46+2°C) Pump switches off

105+5°F (40+2°C) Pump switches on

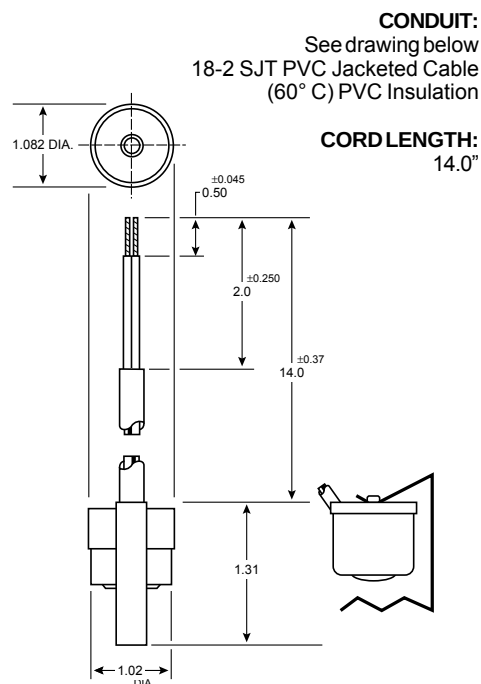
Leads:

2 leads, AWG 18, 14"

12", black insulation, silicon or epoxy overmold

1/2" STRIP LENGTH

Application: Clip-on thermostatic control for the UP Circulators



CONDUIT:
 See drawing below
 18-2 SJT PVC Jacketed Cable
 (60° C) PVC Insulation

CORD LENGTH:
 14.0"

NOTE: All dimensions are in inches.

*Temperatures indicated are at pipe surface.

Domestic Circ Accessories

Domestic Circulators Accessories*	
Timer Control	
Product #	Description
505474	24-Hour Programmable Clock/Timer for use with Single Speed, Series UP (115 volt) circulators
Thermostatic Control	
595443	1/2" Clip-on mount for 5/8" O.D. system piping size, 85°F - 105°F (1/2" I.D. copper tubing or 3/8" steel pipe) shielded wire, with PVC jacketed cable
595444	3/4" Clip-on mount for 7/8" O.D. system piping size, 85°F - 105°F (3/4" I.D. copper tubing or 1/2" steel pipe) shielded wire, with PVC jacketed cable
595656	1/2" Clip-on mount for 5/8" O.D. system piping size, 105°F - 115°F (1/2" I.D. copper tubing or 3/8" steel pipe) shielded wire, with PVC jacketed cable
595657	3/4" Clip-on mount for 7/8" O.D. system piping size, 105°F - 115°F (3/4" I.D. copper tubing or 1/2" steel pipe) shielded wire, with PVC jacketed cable

* Circulator accessories are designed for use with the new-version terminal box (approximately 9132 date codes or higher) on all single speed, 115 volt series UP circulators

Packaged Fitting Sets

		PIPE CONNECTION TYPE & SIZE (IN.)			MATERIAL NUMBER	
		NPT	SOLDER	COMPRESSION		
PUMP CONNECTION ADAPTERS FLANGE/UNION SETS	CAST IRON	GF 15/26 Flange	3/4"		519601	
			1"		519602	
			1-1/4"		519603	
			1-1/2"		519604	
		GF 40/43 Flange	1-1/2"		539605	
		GF 50 Flange	2"		96409354	
		GF 65 Flange	2-1/2"		559601	
		GF 80 Flange	3"		569601	
		GF 100 Flange	4"		579801	
	BRONZE	GF 15/26 Flange	3/4"		519651	
			1"		519652	
			1-1/4"		96409356	
		GF 40/43 Flange	1-1/2"		539615	
		GF 50 Flange	2"		96409355	
		GF 80 Flange	3"		569611	
		GF 100 Flange	4"		96409357	
			3/4"		529912	
		GF 125 Union		1/2"	529913	
				3/4"	529911	
PUMP ISOLATION VALVES	BRONZE	GF 15/26 Flange	3/4"		519755	
			1"		519756	
			1-1/4"		519757	
			1/2"		519850	
		GF 125 Union	3/4"		519852	
				3/4"	519851	

Cast Iron

Flange Adapters



GF 50 Flange x
2" NPT = Part # 525268



GF 15/26 Flange x
3/4" NPT = Part # 519601
1" NPT = Part # 519602
1 1/4" NPT = Part # 519603
1 1/2" NPT = Part # 519604



GF 40/43 Flange x
1 1/2" NPT = Part # 539605

Bronze

Flange & Union Adapters



GF 40/43 Flange x
1 1/2" NPT = Part # 539615



GF 15/26 Flange x
3/4" = Part # 519651
1" = Part # 519652
1 1/4" = Part # 96409356



GF 125 Union x
3/4" NPT = Part # 529912
1/2" Solder = Part # 529913
1 1/2" Solder = Part # 529911



Bronze

Isolation Valves



GF 125 Union x
3/4" Compression = Part # 519852



GF 125 Union x
1/2" = Part # 519850
3/4" = Part # 519852



GF 15/26 Flange x
3/4" = Part # 519755
1" = Part # 519756
1 1/4" = Part # 539757



Company name: _____
 Prepared by: _____
 Phone number: () - _____
 Fax number: () - _____
 Date: _____ Page 1 of: _____
 Quote number: _____

Client Information

Project title: _____	Client name: _____
Reference number: _____	Client number: _____
Client contact: _____	Client phone no: () - _____

Location Information

For: _____	Unit: _____
Site: _____	Service: _____
Address: _____	City: _____ State: _____ Zip Code: _____

Technical Data

Flow (GPM) _____
 Head (Ft) _____
 Motor _____
 Max Fluid Temp _____
 Min Fluid Temp _____
 Max Working Pressure _____
 Min Required Inlet Pressure _____
 Connection Type and Size _____

Motor Information

HP: _____
 Phase: _____
 Voltage: _____
 Enclosure: _____

Pump Information

Model Information from Type Key and Codes: _____	
Quantity Required: _____	Example: UP-S-15-58-FC
Minimum required flow: _____	NPSH required at duty point: _____
Product Guide additional information pages	
Materials page number: _____	Performance curve page number: _____
Technical data page number: _____	Motor data page number: _____

Custom-built pump information (optional): _____

Additional Information

L-UP-PG-001	5/06
PRINTED IN USA	

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