

**DEEPWELL
SUBMERSIBLE PUMPS
GRANDE SERIES - 50Hz**

Zirantec



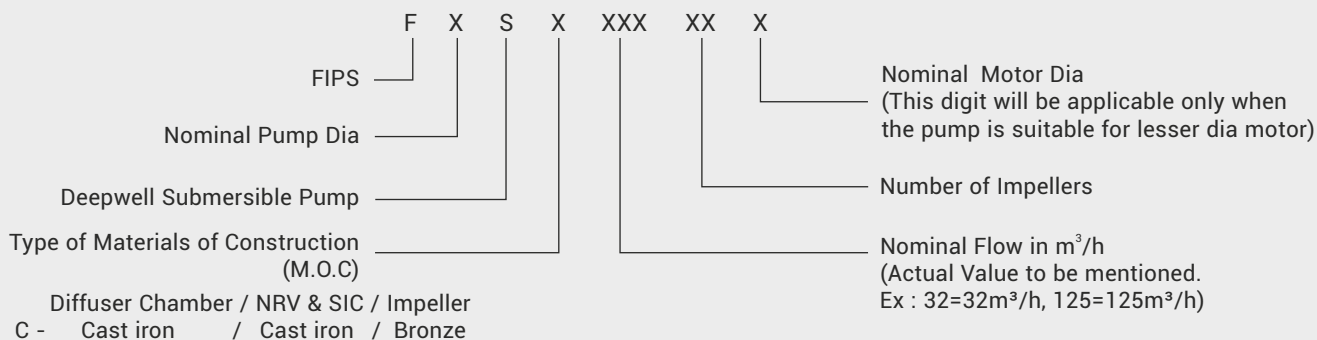
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MODEL IDENTIFICATION CODE

DEEPWELL SUBMERSIBLE PUMP - 50 HZ



PUMPED LIQUIDS

Clean, thin, non-aggressive, non explosive, clear, cold, fresh water without abrasives, solid particles or fibre having the following characteristics.

a)	Temperature	33°C (max.)
b)	Permissible amount of sand	50g/m³ (max.)
c)	Chlorine ion density	500 ppm (max.)
d)	Allowable solids	3000 ppm (max.)
e)	Specific gravity	1.004 (max.)
f)	Hardness (Drinking water)	300 (max.)
g)	Viscosity	1.75 x 10 ⁻⁶ m²/sec (max.)
h)	Turbidity	50 ppm silica scale(max.)
i)	pH	6.5 to 8.5

Maximum Temperature of Pumped Liquid

Motor	Minimum cooling flow along the motor	Vertical installation	Horizontal installation minimum 30°angle
6"	0.15 m/s	33°C	33°C
8"	0.16 m/s	33°C	33°C

Pump Operating Limitations

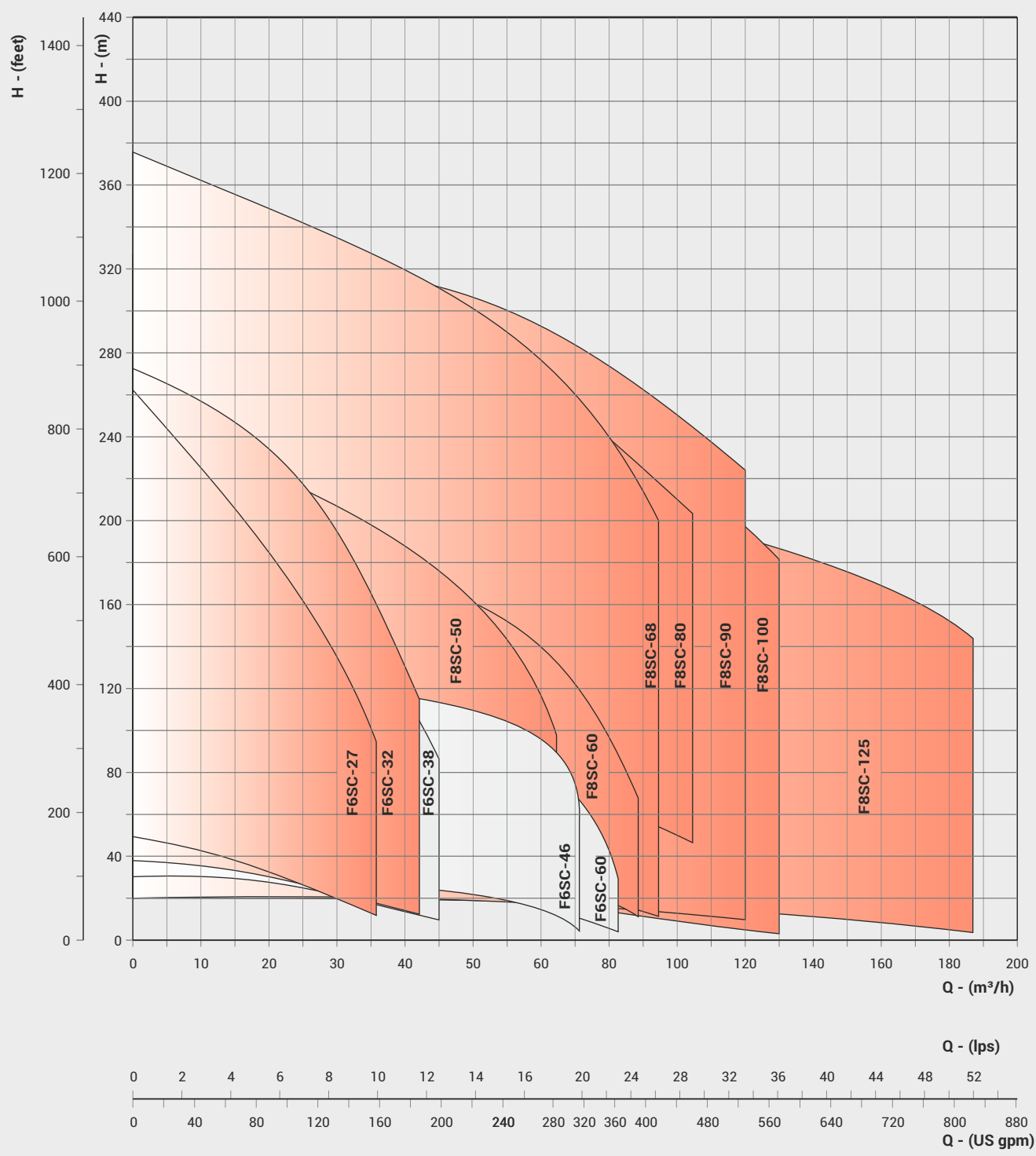
Nominal diameter		6"(150mm)	8"(200mm)
Power Range		3.7 - 26 kW	5.5 - 93 kW
Speed		2900 rpm	2900 rpm
Discharge Range	m³/h	9 - 83	20 - 187
	lps	2.5 - 23	5.5 - 52
Total Head Range	m	2 - 272	3 - 375
	ft	6.5 - 892	9.8 - 1230
Outlet Size in Inches		3 & 4	3, 4, 5 & 6

Maximum operating pressure

6" Submersible pump	2.7Mpa (27 bar)
8" Submersible pump	3.7Mpa (37bar)

In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

GROUP PERFORMANCE CURVE - 6" & 8"



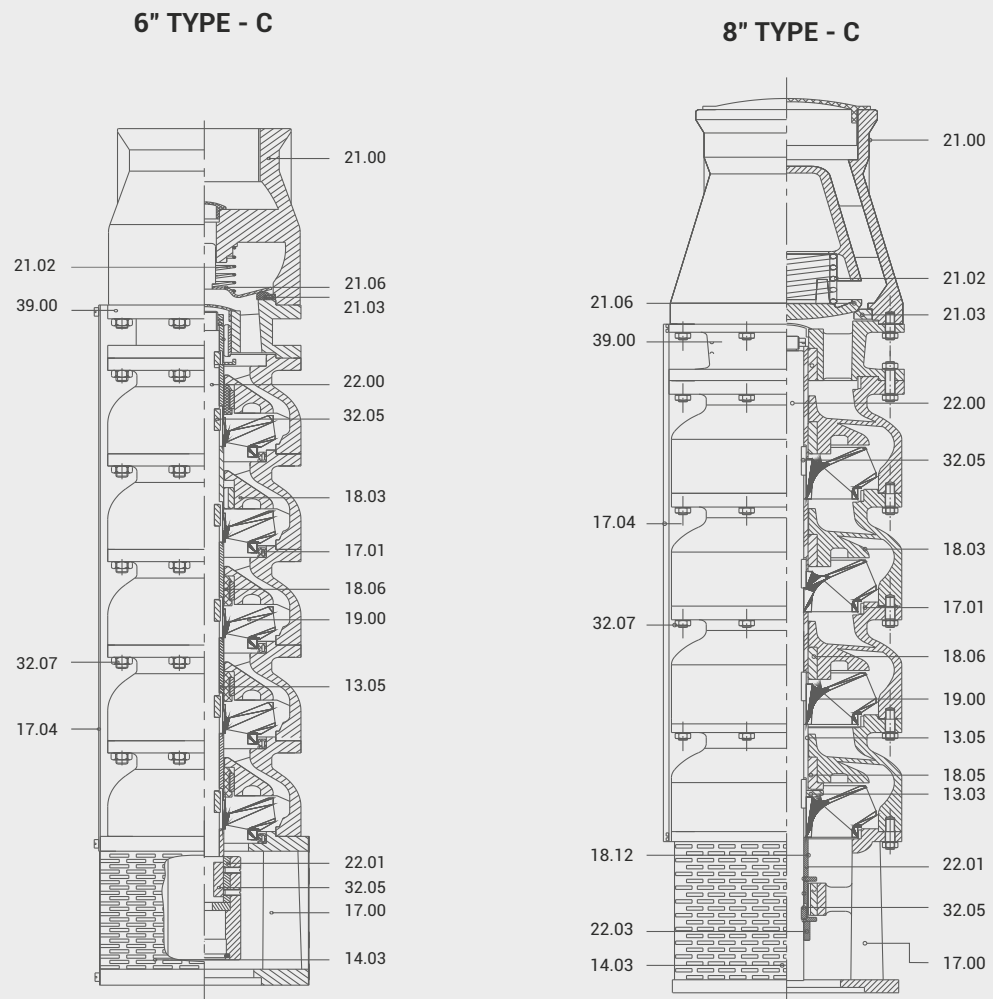
MATERIAL OF CONSTRUCTION

PART NAME	PART No.	NOMINAL DIA . 6"	NOMINAL DIA . 8"
		TYPE - C	TYPE - C
CHECK VALVE HOUSING	21.00	CAST IRON	CAST IRON
CHECK VALVE DISC	21.06	S.S - 304	S.G. IRON
CHECK VALVE SEAT	21.03	NBR	S.G. IRON
DIFFUSER CHAMBER	18.03	CAST IRON	CAST IRON
IMPELLER	19.00	CAST IRON / BRONZE / S.S	BRONZE / SS - 410*
WEARING RING	17.01	NBR	S.S - 304 / NBR
UP THRUST WASHER / STOP RING	13.03	S.S - 420 / BRONZE	SS 420 / BRONZE
INTERMEDIATE BEARING (SLEEVE / BUSH)	18.06	S.S - 410 / BRONZE	S.S - 410 / BRONZE &
			S.S - 410 / NITRILE RUBBER
SUCTION INTER CONNECTOR	17.00	CAST IRON	CAST IRON
INLET SCREEN	14.03	S.S - 304	S.S - 304
PUMP SHAFT	22.00	S.S - 410 / 431	S.S - 431
CABLE GUARD	17.04	S.S - 304	S.S - 304
COUPLING	22.01	S.S - 329	S.S - 329

* Applicable only for model S8C-125.

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CROSS SECTIONAL DRAWING



Part No.	Part Name
13.03	Upthrust Washer / Stopring
13.05	Sleeve
14.03	Inlet Screen
17.00	Suction Inter Connector
17.01	Wearing Ring
17.04	Cable Guard
18.03	Diffuser Chamber

Part No.	Part Name
18.05	Upthrust Pad
18.06	Bush
18.12	Spacer
19.00	Impeller
21.00	Check Valve Housing
21.02	Check Valve Spring
21.03	Check Valve Seat

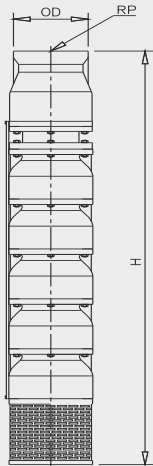
Part No.	Part Name
21.06	Check Valve Disc
22.00	Pump Shaft
22.01	Coupling
32.05	Key
32.07	Nut
39.00	Bush Bracket

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 6"

Nominal Flow : 27m³/h

Outlet Size : 2½"/3"*

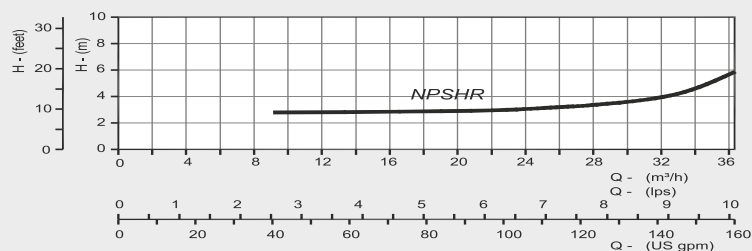


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F6SC-27/05	3.7	5	1	144	65 / 80	806	33
F6SC-27/06	4.5	6	1	144	65 / 80	896	37
F6SC-27/07	5.5	7.5	1 / 2	144	65 / 80	986	42
F6SC-27/08	5.5	7.5	1 / 2	144	65 / 80	1076	48
F6SC-27/10	7.5	10	1 / 2	144	65 / 80	1256	56
F6SC-27/12	9.3	12.5	1 / 2	144	65 / 80	1436	62
F6SC-27/15	11	15	1 / 2	144	65 / 80	1706	74
F6SC-27/17	13	17.5	1 / 2	144	65 / 80	1886	83
F6SC-27/20	15	20	1 / 2	144	65 / 80	2156	100
F6SC-27/22	18.5	25	1 / 2	144	65 / 80	2336	109
F6SC-27/25	18.5	25	1 / 2	144	65 / 80	2606	115

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	2.22	3.33	4.44	5.56	6.67	7.50	7.78	8.89	10.00
			m³/h	0	8	12	16	20	24	27	28	32
F6SC-27/05	3.7	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	51	45	42	38	34	30	27	25	20	14
F6SC-27/06	4.5		62	54	50	47	42	37	33	31	25	17
F6SC-27/07	5.5		72	63	59	54	49	43	39	38	29	20
F6SC-27/08	5.5		86	73	68	62	58	52	45	43	34	26
F6SC-27/10	7.5		104	92	85	78	72	63	57	54	43	31
F6SC-27/12	9.3		126	114	107	99	90	82	73	71	59	47
F6SC-27/15	11		158	144	133	123	113	101	91	88	72	54
F6SC-27/17	13		165	154	147	138	128	115	103	100	82	62
F6SC-27/20	15		211	189	177	163	149	134	120	117	95	72
F6SC-27/22	18.5		234	212	199	184	168	152	138	132	108	79
F6SC-27/25	18.5		262	234	220	204	189	171	155	150	124	96

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

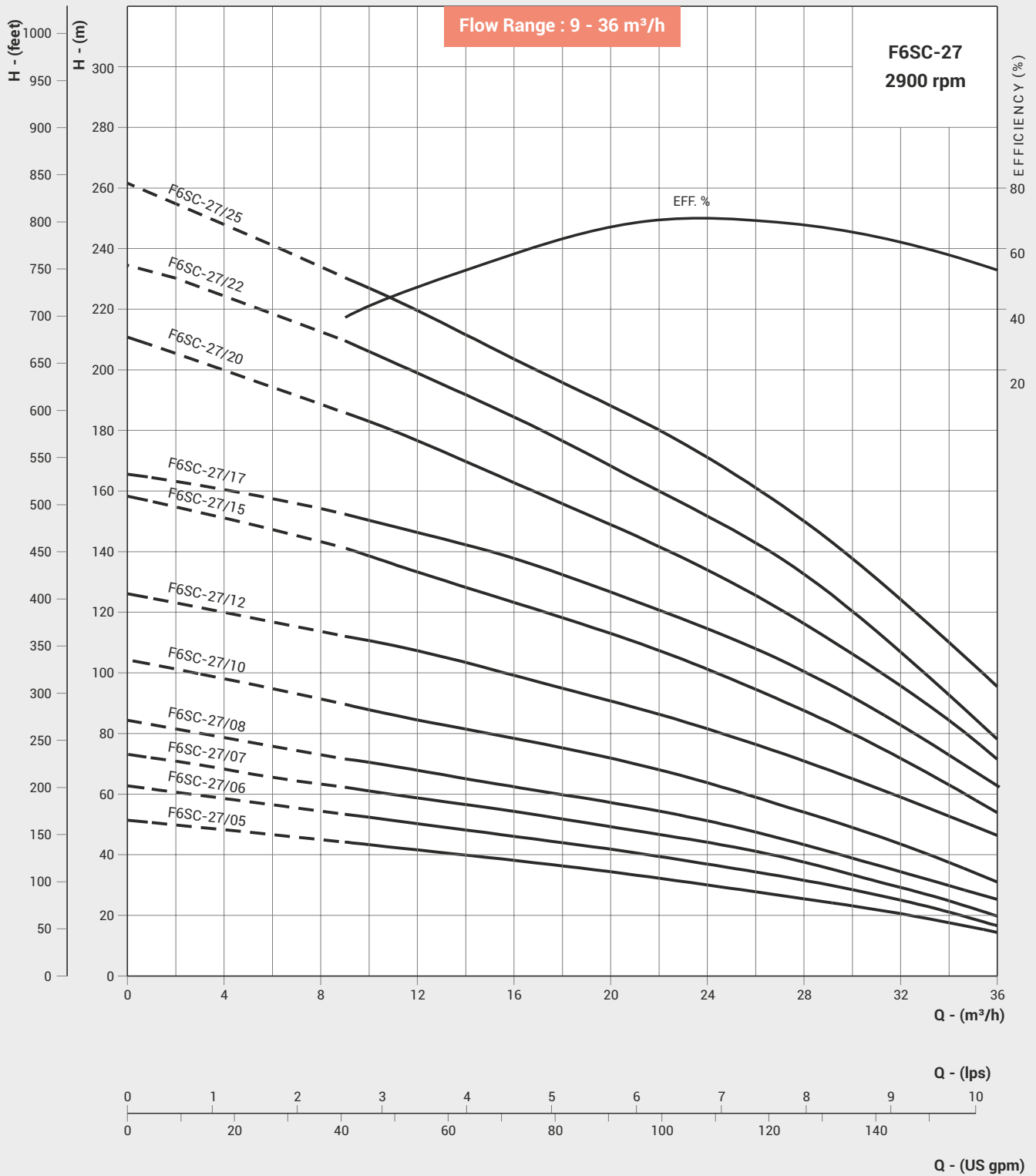
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 6"

Nominal Flow : 27m³/h

Outlet Size : 2½"/3"*



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

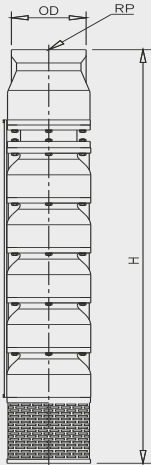
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 6"

Nominal Flow : 32m³/h

Outlet Size : 2½"/3"**

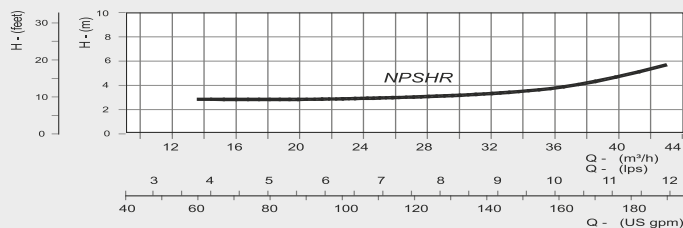


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F6SC-32/04	3.7	5	1	144	65/80	716	28
F6SC-32/05	4.5	6	1	144	65/80	806	33
F6SC-32/06	5.5	7.5	1 / 2	144	65/80	896	37
F6SC-32/08	7.5	10	1 / 2	144	65/80	1076	48
F6SC-32/10	9.3	12.5	1 / 2	144	65/80	1256	56
F6SC-32/12	11	15	1 / 2	144	65/80	1436	62
F6SC-32/14	13	17.5	1 / 2	144	65/80	1616	68
F6SC-32/16	15	20	1 / 2	144	65/80	1796	78
F6SC-32/20	18.5	25	1 / 2	144	65/80	2156	100
F6SC-32/24	22	30	1 / 2	144	65/80	2516	122
F6SC-32/28	26	35	1 / 2	144	65/80	2876	144

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	3.33	4.44	5.56	6.67	7.78	8.89	10	11.1	11.94
		m ³ /h	0	12	16	20	24	28	32	36	40	43
FS6C-32/04	3.7	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	39	38	37	36	32	31	28	23	19	15
FS6C-32/05	4.5		51	49	48	45	41	38	33	29	22	19
FS6C-32/06	5.5		58	56	54	51	48	45	40	35	28	25
FS6C-32/08	7.5		81	79	76	72	67	63	54	49	39	32
FS6C-32/10	9.3		100	97	95	90	85	78	70	60	50	40
FS6C-32/12	11		117	112	110	105	100	92	83	73	59	48
FS6C-32/14	13		140	134	131	127	120	113	100	85	67	52
FS6C-32/16	15		158	153	147	140	132	123	112	98	80	67
FS6C-32/20	18.5		202	198	190	180	170	160	142	125	105	89
FS6C-32/24	22		236	230	218	208	195	180	162	141	119	101
FS6C-32/28	26		272	268	253	240	227	210	188	164	138	112

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

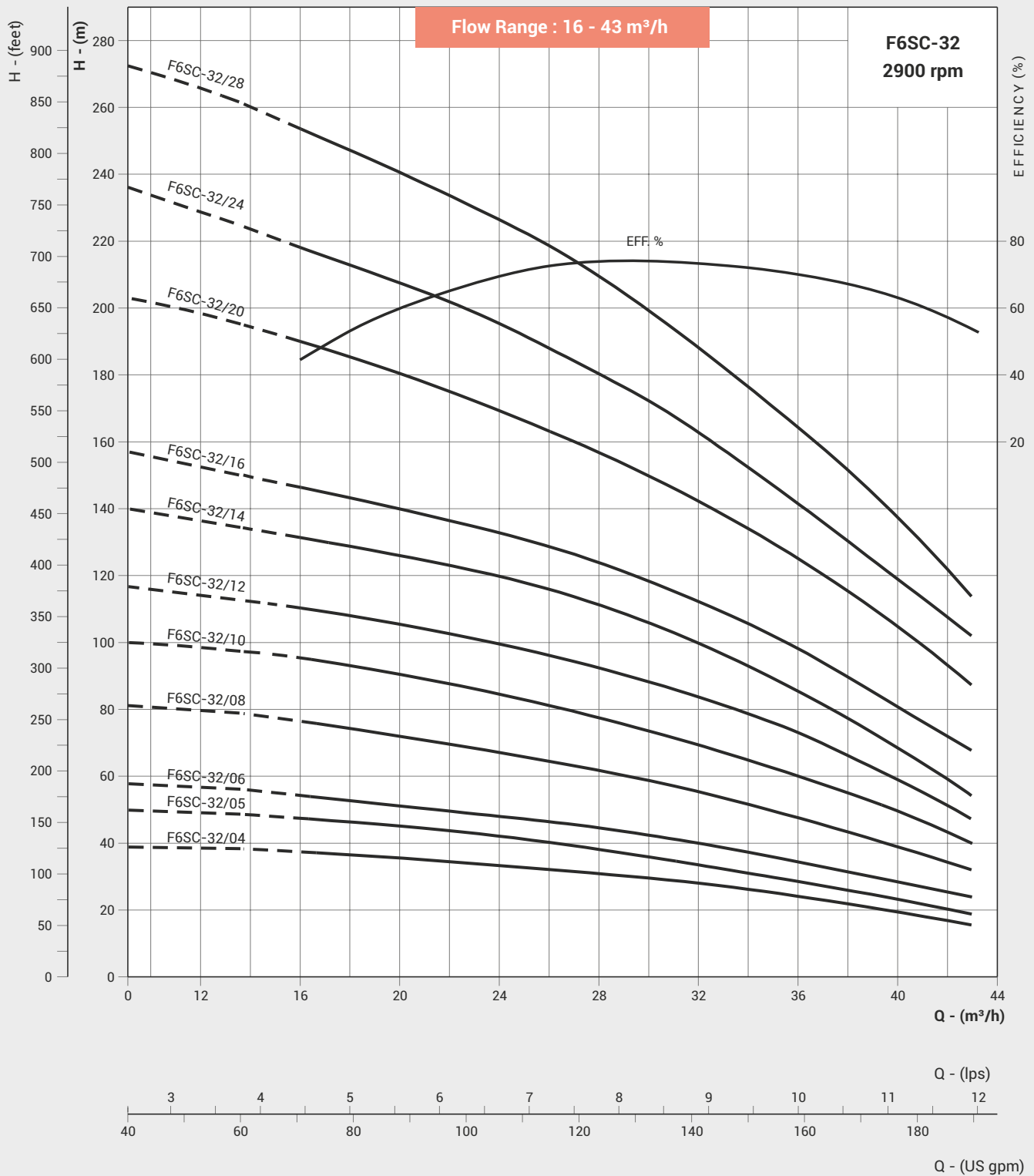
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PERFORMANCE CURVE

Nominal Diameter : 6"

Nominal Flow : 32m³/h

Outlet Size : 2½"/3" **



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

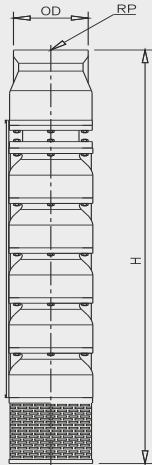
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 6"

Nominal Flow : 38m³/h

Outlet Size : 3"**

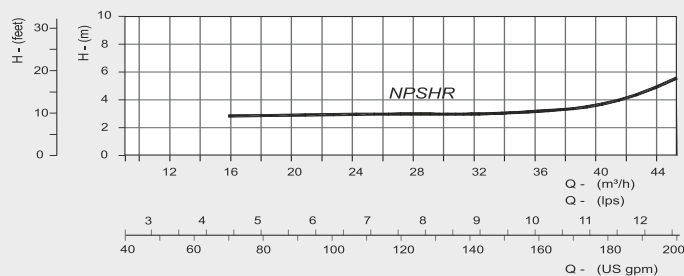


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F6SC-38/03	3.7	5	1	144	80	666	31
F6SC-38/04	4.5	6	1	144	80	766	37
F6SC-38/05	5.5	7.5	1 / 2	144	80	866	43
F6SC-38/06	7.5	10	1 / 2	144	80	966	49
F6SC-38/07	7.5	10	1 / 2	144	80	1066	53
F6SC-38/08	9.3	12.5	1 / 2	144	80	1166	59
F6SC-38/10	11	15	1 / 2	144	80	1366	70
F6SC-38/12	13	17.5	1 / 2	144	80	1566	82
F6SC-38/14	15	20	1 / 2	144	80	1766	94
F6SC-38/17	18.5	25	1 / 2	144	80	2066	111
F6SC-38/20	22	30	1 / 2	144	80	2366	128

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	Ips	0	4.44	5.56	6.67	7.78	8.89	10.00	11.12	12.32
		m ³ /h	0	16	20	24	28	32	36	40	44
F6SC-38/03	3.7	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	32.5	31	29	26.5	24	21.5	18	14.5	10
F6SC-38/04	4.5		42.5	41.5	39.8	37	34	30	26	21.5	16.5
F6SC-38/05	5.5		53.5	52	50	46	42	37.5	32	26.5	18
F6SC-38/06	7.5		65	61.5	59	55.5	51	45	39.5	32	22
F6SC-38/07	7.5		77	71.5	68	63	58	53	45.5	38	25
F6SC-38/08	9.3		86	82	78	73.5	67.5	61	52.5	43	29
F6SC-38/10	11		106	100.5	95.5	90	83.5	75	63.5	51.5	35
F6SC-38/12	13		126	120	114.5	103.5	101.5	92.5	81.5	64	49
F6SC-38/14	15		147	140	134	126	117	106	94	79	56
F6SC-38/17	18.5		174	164	156.5	148	138.5	126	113	95.5	70
F6SC-38/20	22		210	200	190	178	164	148	130	111	85

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

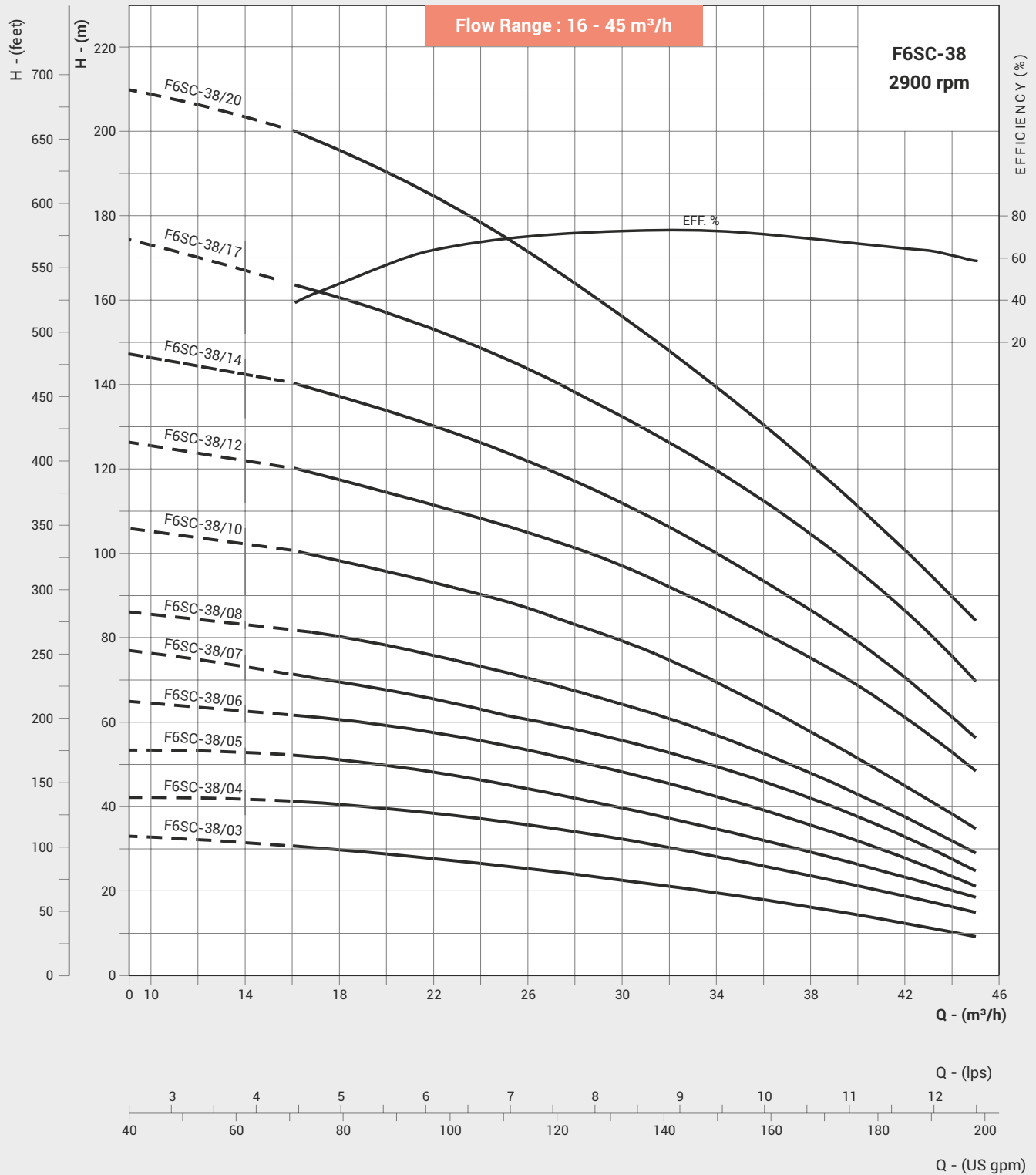
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PERFORMANCE CURVE

Nominal Diameter : 6"

Nominal Flow : 38m³/h

Outlet Size : 3"***



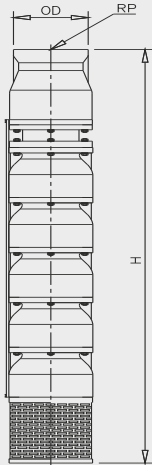
Refer General Information for performance curve conditions and for other details.
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 6"

Nominal Flow : 46m³/h

Outlet Size : 3"/4"**

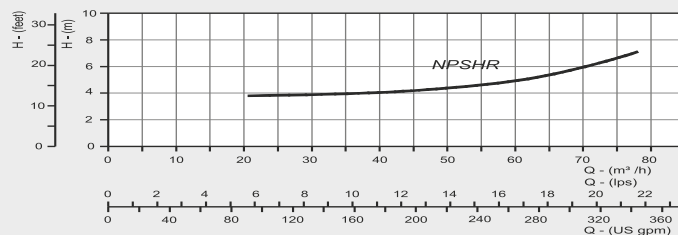


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F6SC-46/03	4.5	6	1	144	80/100	698	35
F6SC-46/04	5.5	7.5	1 / 2	144	80/100	808	39
F6SC-46/05	7.5	10	1 / 2	144	80/100	918	43
F6SC-46/06	9.3	12.5	1 / 2	144	80/100	1028	47
F6SC-46/08	11	15	1 / 2	144	80/100	1248	56
F6SC-46/10	15	20	1 / 2	144	80/100	1468	65
F6SC-46/12	18.5	25	1 / 2	144	80/100	1688	74
F6SC-46/15	22	30	1 / 2	144	80/100	2018	88

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	Ips	0	6.94	8.34	11.12	13.90	16.68	19.46
		m ³ /h	0	25	30	40	50	60	70
F6SC-46/03	4.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	35	29	27.5	24.8	20.5	14.8	7.5
F6SC-46/04	5.5		43	37	36	32.5	28	20	11
F6SC-46/05	7.5		55	47	46	41.5	35	25.5	14
F6SC-46/06	9.3		65	58	56	51.5	43.5	32.5	18
F6SC-46/08	11		82	73	70	63.5	55	42	24.5
F6SC-46/10	15		106	97	93.5	86	73.5	58.5	37
F6SC-46/12	18.5		126	114	111.5	103	92	74	48.5
F6SC-46/15	22		157	144	138.5	127	113.5	95	71

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

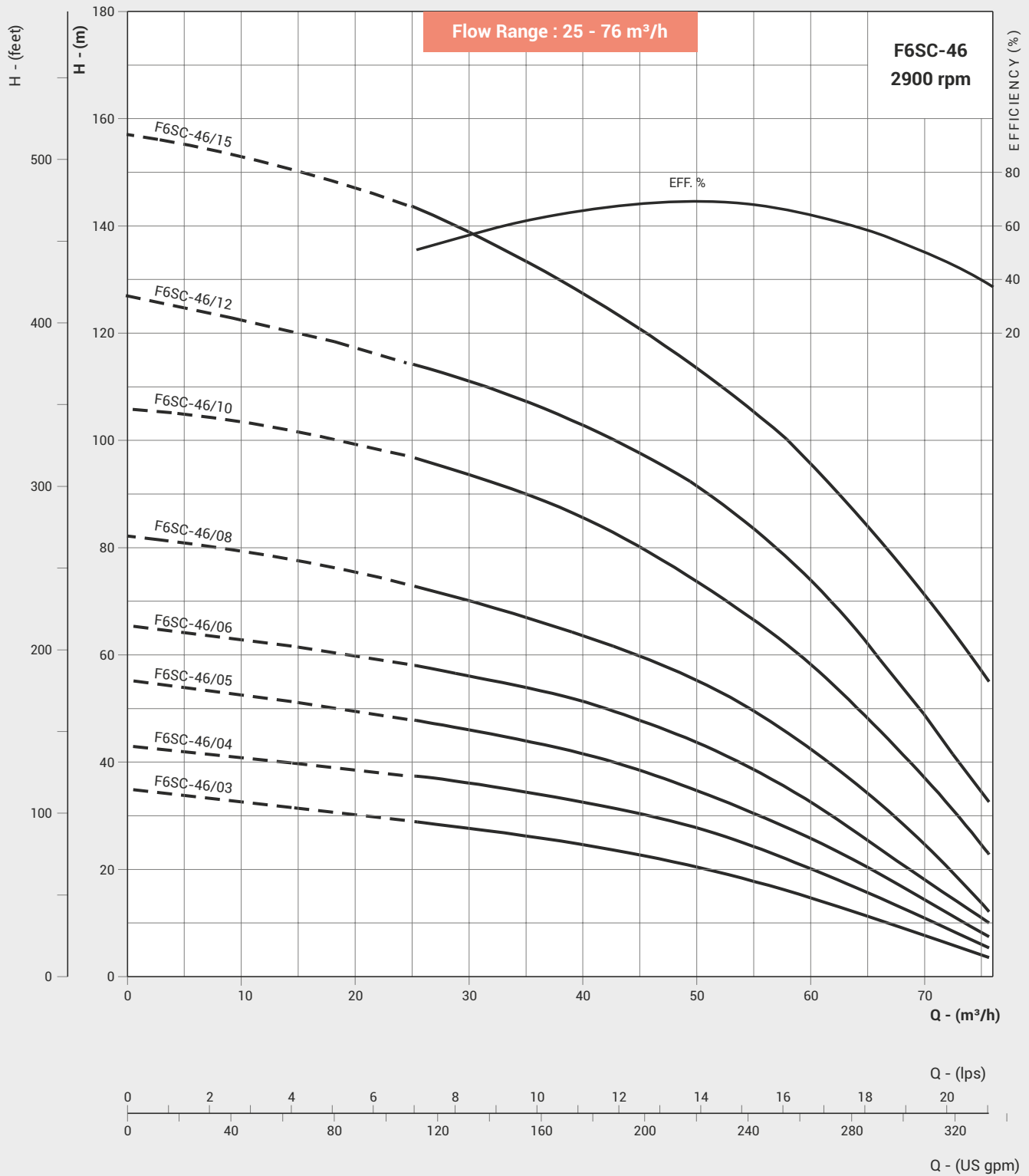
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PERFORMANCE CURVE

Nominal Diameter : 6"

Nominal Flow : 46m³/h

Outlet Size : 3"/4"**



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

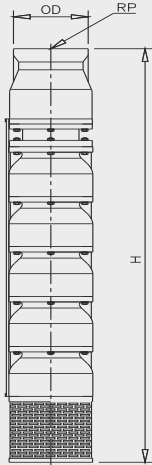
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 6"

Nominal Flow : 60m³/h

Outlet Size : 3"/4"**

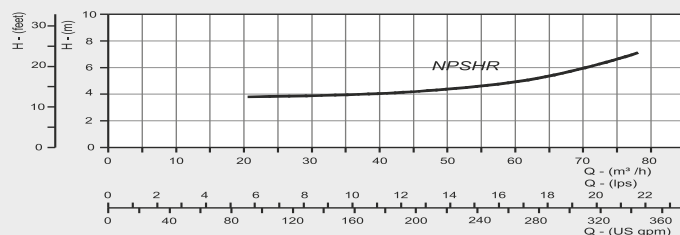


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F6SC-60/03	5.5	7.5	1 / 2	144	80/100	698	35
F6SC-60/04	7.5	10	1 / 2	144	80/100	808	40
F6SC-60/05	9.3	12.5	1 / 2	144	80/100	918	46
F6SC-60/06	11	15	1 / 2	144	80/100	1028	51
F6SC-60/07	13	17.5	1 / 2	144	80/100	1138	57
F6SC-60/08	15	20	1 / 2	144	80/100	1248	63
F6SC-60/10	18.5	25	1 / 2	144	80/100	1468	74
F6SC-60/12	22	30	1 / 2	144	80/100	1688	87
F6SC-60/14	26	35	1 / 2	144	80/100	1908	101

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	5.56	8.34	11.12	13.90	16.68	19.46	23.01
		m ³ /h	0	20	30	40	50	60	70	83
F6SC-60/03	5.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	40	35.5	31.5	27	22.5	18	12	3.5
F6SC-60/04	7.5		54	46.5	40.5	34.5	29	24.8	16	5
F6SC-60/05	9.3		67	59	52	44	38	31.5	22	7.5
F6SC-60/06	11		79	68	59	52	45	36	25	11
F6SC-60/07	13		93	82	74.5	65	57	45	31	16
F6SC-60/08	15		107	94.5	84.8	74.5	66	54.8	39.8	18
F6SC-60/10	18.5		134	117	106	92.5	82.5	69.8	51.5	21
F6SC-60/12	22		158	140	127.5	111.5	97.5	83.5	64	29
F6SC-60/14	26		178	159	146	127	112	96	74	35

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

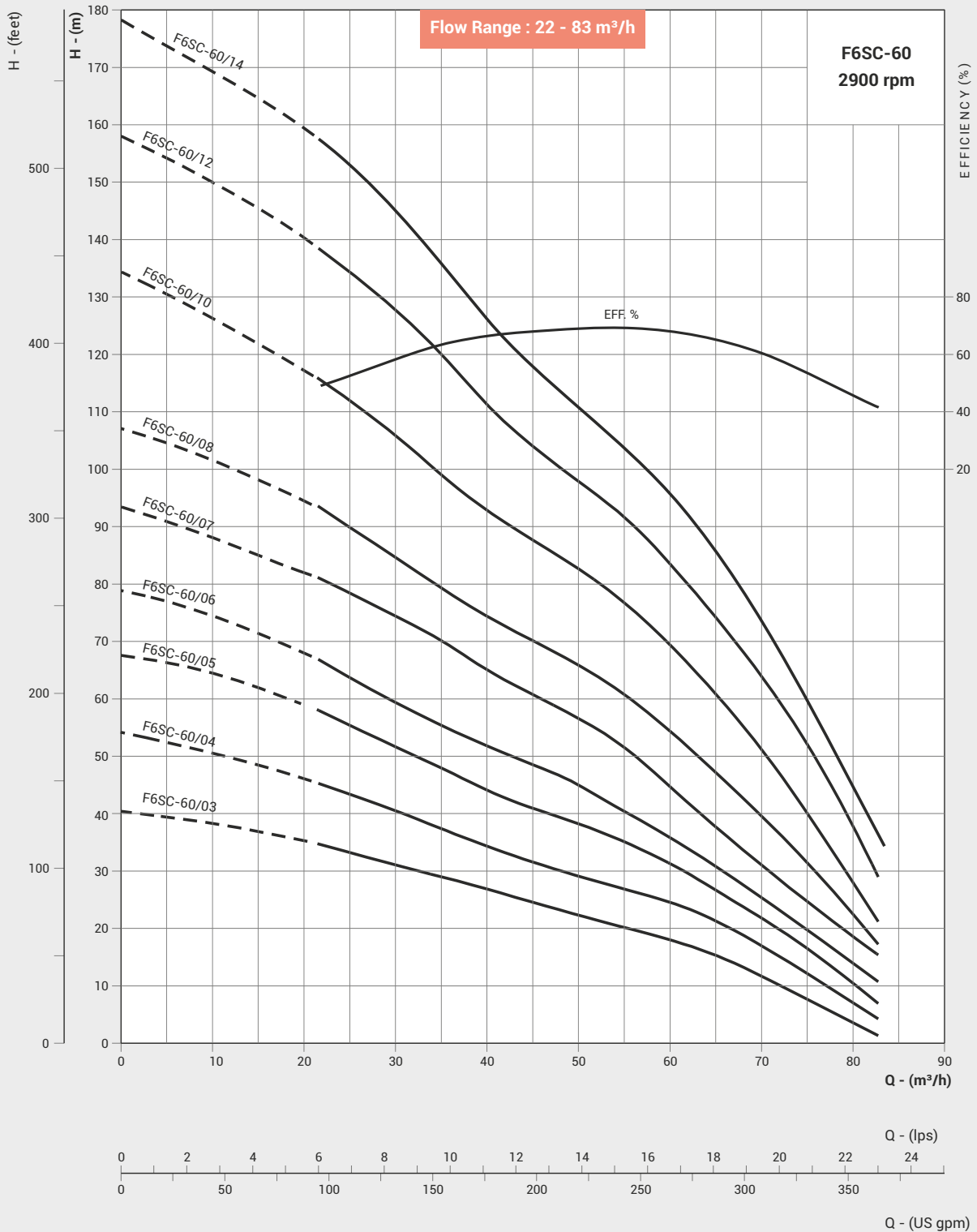
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 6"

Nominal Flow : 60m³/h

Outlet Size : 3"/4"**



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

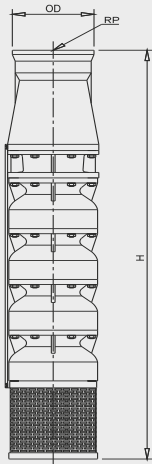
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 50m³/h

Outlet Size : 3"/4"**

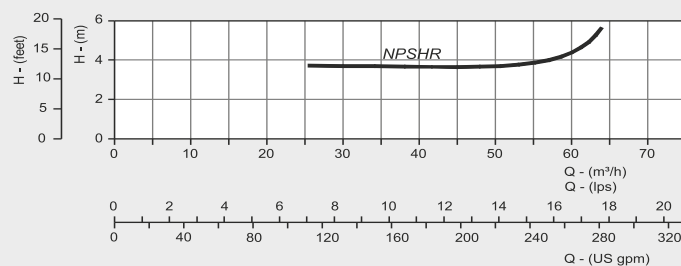


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-50/03	7.5	10	1 / 2	195	80/100	920	81
F8SC-50/04	9.3	12.5	1 / 2	195	80/100	1050	93
F8SC-50/05	11	15	1 / 2	195	80/100	1180	105
F8SC-50/06	15	20	1 / 2	195	80/100	1310	117
F8SC-50/08	18.5	25	1 / 2	195	80/100	1570	141
F8SC-50/10	22	30	1 / 2	195	80/100	1830	165
F8SC-50/11	30	40	1 / 2	195	80/100	1960	184
F8SC-50/13	37	50	1 / 2	195	80/100	2230	209
F8SC-50/14	37	50	1 / 2	195	80/100	2350	221

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	Ips	0	8.3	11.1	13.9	16.7	17.77
		m ³ /h	0	30	40	50	60	64
F8SC-50/03	7.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	55	48	45	40	32	29
F8SC-50/04	9.3		70	58	54	48	41	37
F8SC-50/05	11		91	75	68	59	48	44
F8SC-50/06	15		106	83	76	64	51	47
F8SC-50/08	18.5		145	113	102	87	72	64
F8SC-50/10	22		170	142	128	111	90	82
F8SC-50/11	30		187	154	138	118	93	83
F8SC-50/13	37		228	192	172	146	109	93
F8SC-50/14	37		252	210	188	160	119	97

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

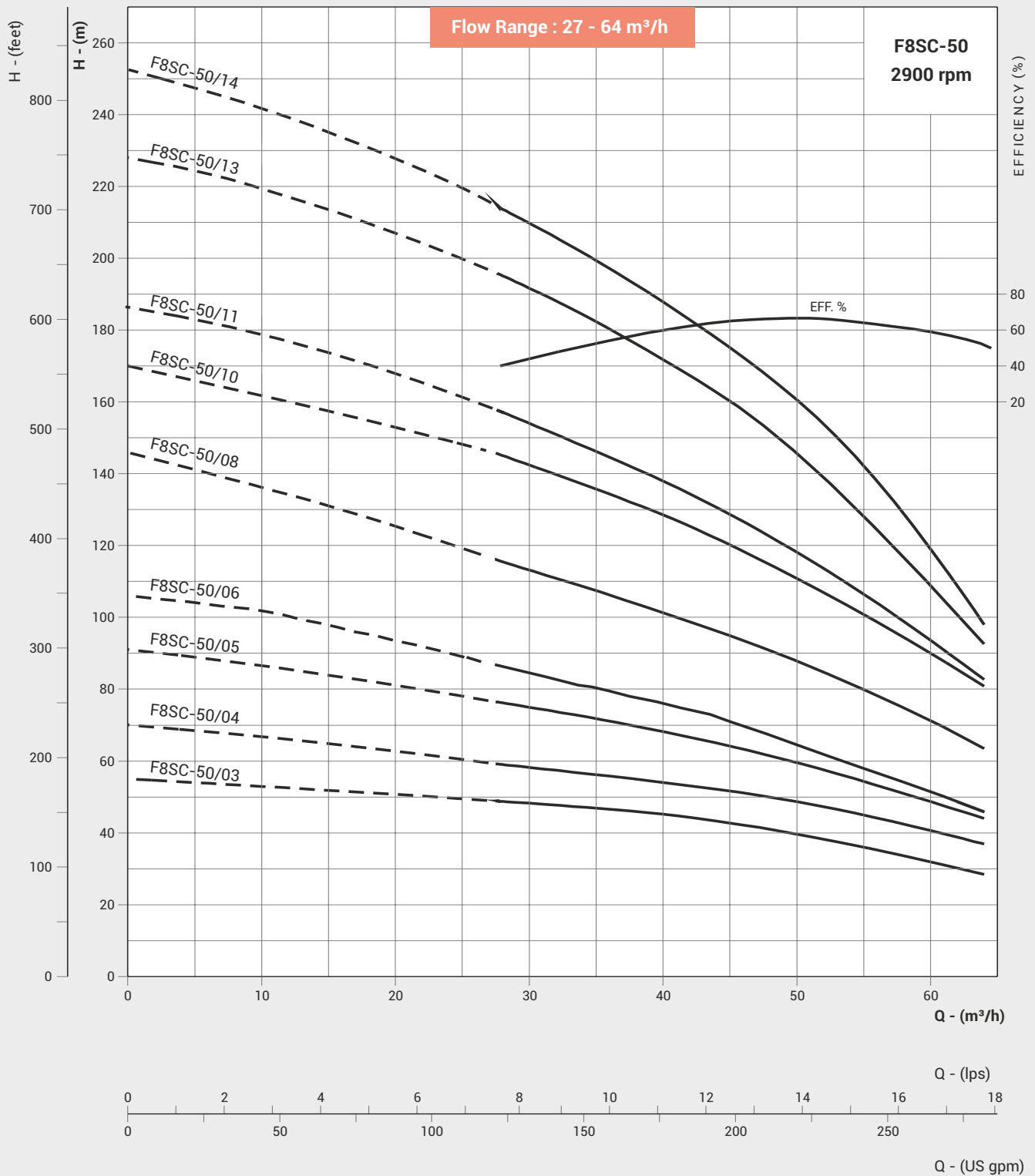
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 50m³/h

Outlet Size : 3"/4"*



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

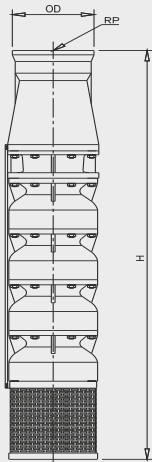
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 60m³/h

Outlet Size : 3"/4"**

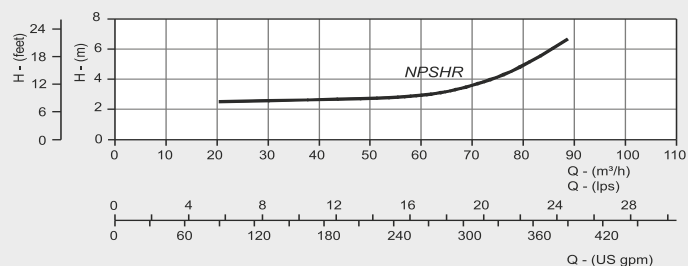


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-60/02	5.5	7.5	1 / 2	195	80/100	790	69
F8SC-60/03	9.3	12.5	1 / 2	195	80/100	920	81
F8SC-60/04	11	15	1 / 2	195	80/100	1050	93
F8SC-60/04	13	17.5	1 / 2	195	80/100	1050	93
F8SC-60/05	15	20	1 / 2	195	80/100	1180	105
F8SC-60/06	18.5	25	1 / 2	195	80/100	1310	130
F8SC-60/07	22	30	1 / 2	195	80/100	1440	135
F8SC-60/08	26	35	1 / 2	195	80/100	1440	135
F8SC-60/08	30	40	1 / 2	195	80/100	1570	147
F8SC-60/10	37	50	1 / 2	195	80/100	1830	172
F8SC-60/12	37	50	1 / 2	195	80/100	2090	197

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	Ips m ³ /h	0	5.5	8.3	11.1	13.9	16.7	19.5	22.2
			0	20	30	40	50	60	70	80
F8SC-60/02	5.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	37	35	33	32	28	27	23	18
F8SC-60/03	9.3		57	54	51	47	43	38	32	24
F8SC-60/04	11		77	68	65	61	55	48	38	28
F8SC-60/04	13		81	75	70	65	58	52	42	30
F8SC-60/05	15		98	91	86	79	73	64	55	44
F8SC-60/06	18.5		104	97	95	89	83	74	63	51
F8SC-60/07	22		128	116	109	103	96	86	73	58
F8SC-60/08	26		143	130	123	116	107	97	85	71
F8SC-60/08	30		156	141	134	127	118	107	94	77
F8SC-60/10	37		205	187	179	168	155	137	114	88
F8SC-60/12	37		218	196	186	175	161	142	119	93

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

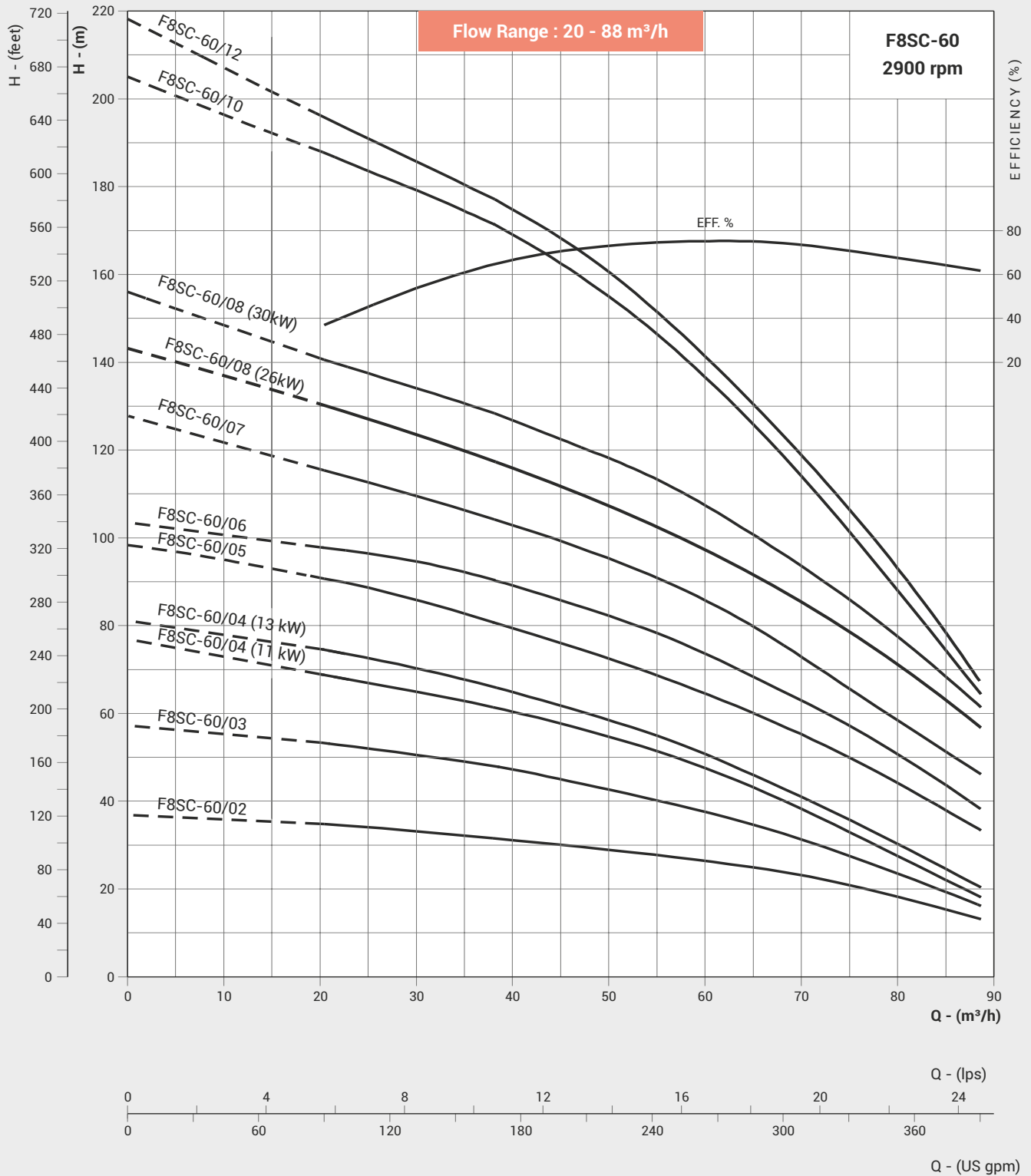
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 60m³/h

Outlet Size : 3"/4"**



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

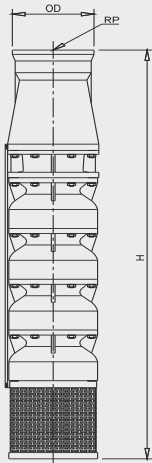
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 68m³/h

Outlet Size : 3"/4"*

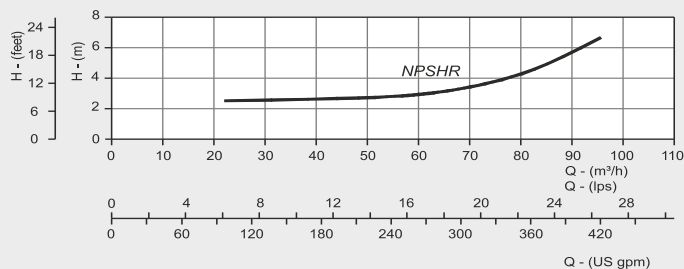


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-68/02	7.5	10	1 / 2	195	80/100	790	69
F8SC-68/03	11	15	1 / 2	195	80/100	920	81
F8SC-68/04	15	20	1 / 2	195	80/100	1050	93
F8SC-68/05	18.5	25	1 / 2	195	80/100	1180	105
F8SC-68/06	22	30	1 / 2	195	80/100	1310	130
F8SC-68/08	30	40	1 / 2	195	80/100	1570	147
F8SC-68/10	37	50	1 / 2	195	80/100	1830	172
F8SC-68/15	55	75	1 / 2	195	80/100	2480	234
F8SC-68/20	75	100	1 / 2	195	80/100	3130	296

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	8.3	11.1	13.9	16.7	19.5	22.2	25.0
		m ³ /h	0	30	40	50	60	70	80	90
F8SC-68/02	7.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	40	35	33	30	27	25	20	17
F8SC-68/03	11		61	53	50	48	44	38	31	19
F8SC-68/04	15		82	72	68	64	58	50	40	23
F8SC-68/05	18.5		100	90	87	80	72	63	52	34
F8SC-68/06	22		120	108	101	94	85	75	65	50
F8SC-68/08	30		147.5	147	138	129	118	105	89	65
F8SC-68/10	37		197.5	177	168	157	142	128	112	88
F8SC-68/15	55		285	255	241	225	207	187	165	130
F8SC-68/20	75		375	332	315	298	278	258	236	200

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

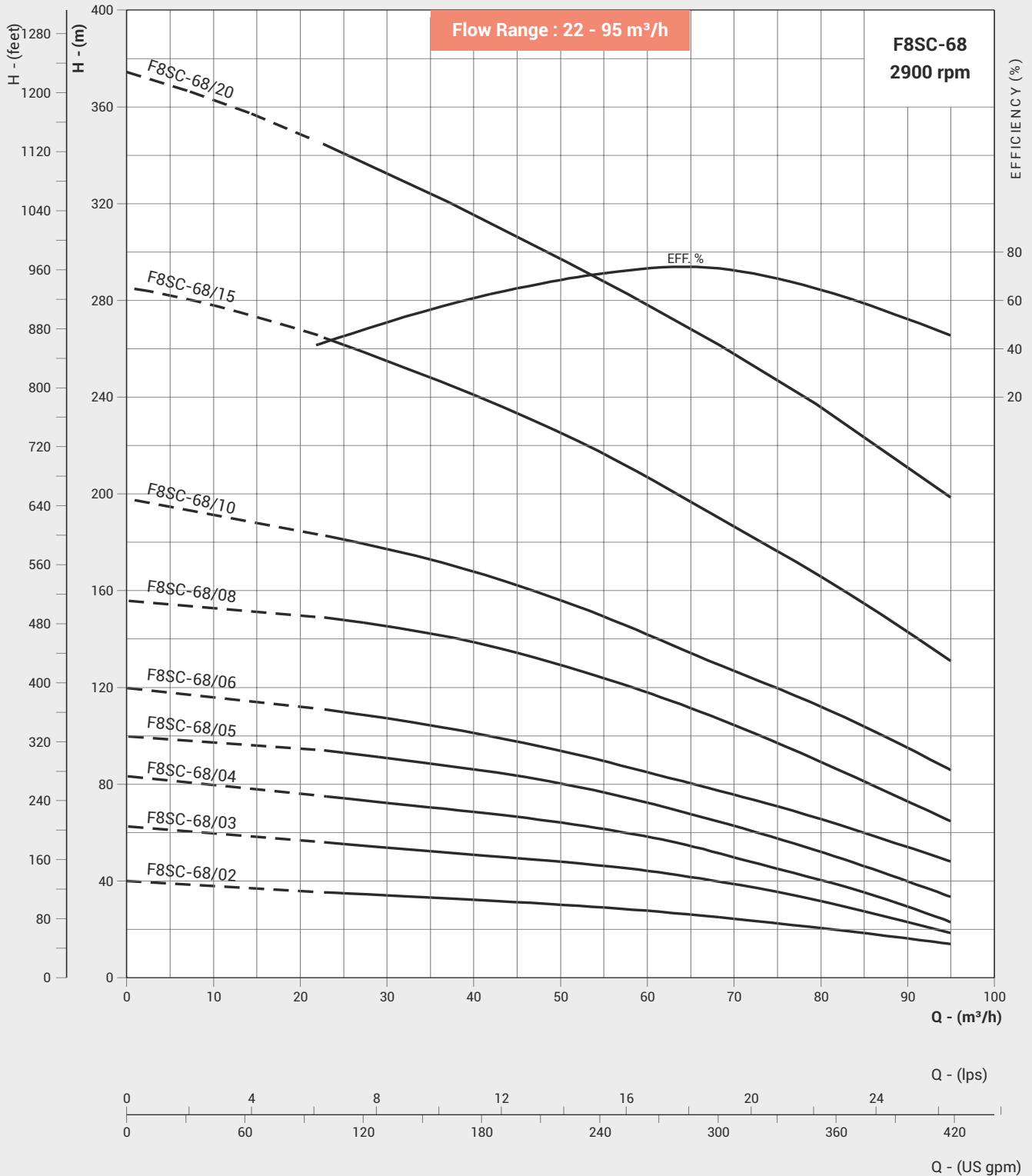
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 68m³/h

Outlet Size : 3"/4"**



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

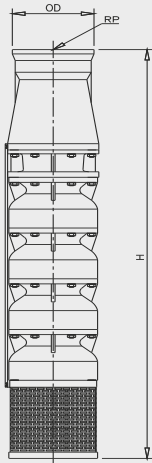
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 80m³/h

Outlet Size : 4"/5"**

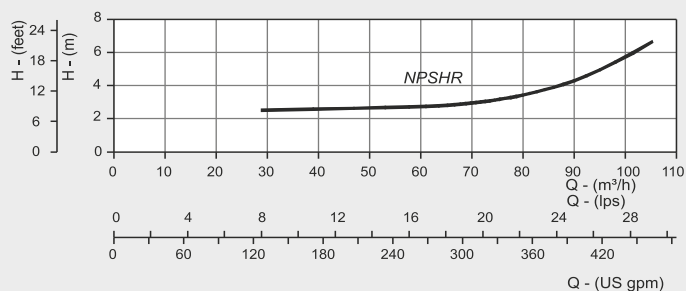


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-80/05	22	30	1 / 2	195	100/125	1180	105
F8SC-80/07	30	40	1 / 2	195	100/125	1440	135
F8SC-80/08	37	50	1 / 2	195	100/125	1570	147
F8SC-80/10	45	60	1 / 2	195	100/125	1830	171
F8SC-80/12	55	75	1 / 2	195	100/125	2090	197
F8SC-80/17	75	100	1 / 2	195	100/125	2350	259

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	8.3	11.1	13.9	16.7	19.5	22.2	25.0	27.8
		m ³ /h	0	30	40	50	60	70	80	90	100
F8SC-80/05	22	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	87	83	81	78	75	71	65	58	47
F8SC-80/07	30		136	128	125	122	115	107	97	85	71
F8SC-80/08	37		162	154	150	147	140	132	121	109	96
F8SC-80/10	45		188	178	171	164	157	148	137	126	113
F8SC-80/12	55		222	205	198	191	183	175	166	156	144
F8SC-80/17	75		320	299	289	278	267	256	240	227	210

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

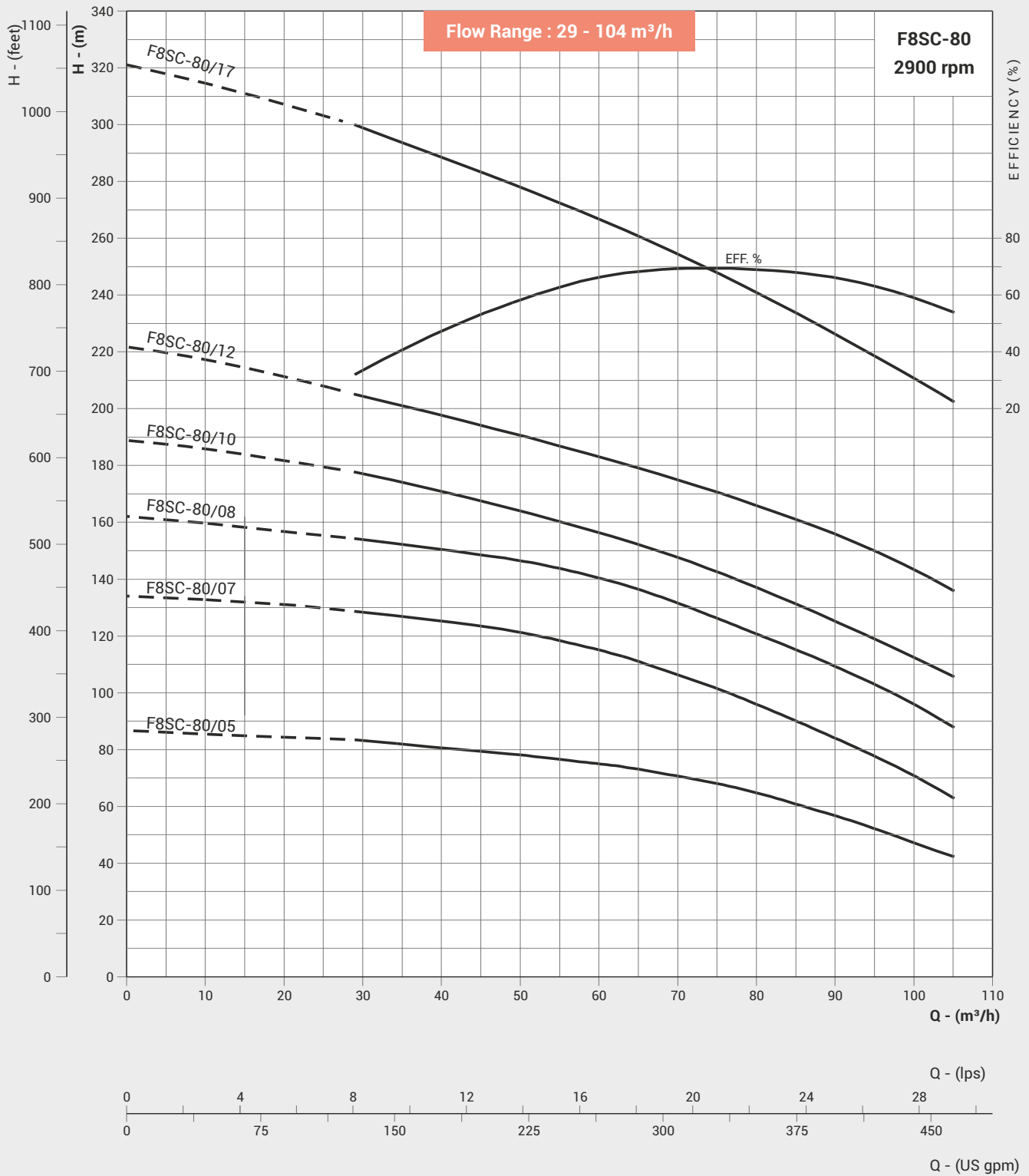
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 80m³/h

Outlet Size : 4"/5"**



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

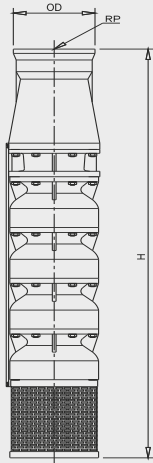
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 90m³/h

Outlet Size : 4"/5"**

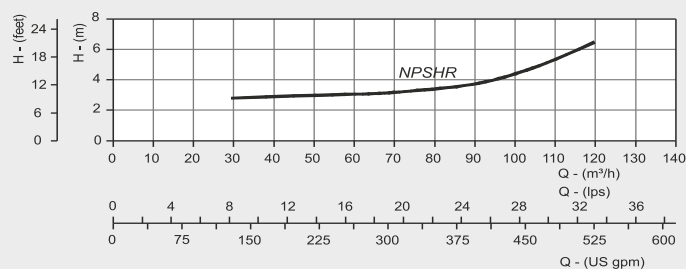


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-90/01	5.5	7.5	1 / 2	195	100/125	660	66
F8SC-90/02	9.3	12.5	1 / 2	195	100/125	790	69
F8SC-90/02	11	15	1 / 2	195	100/125	790	69
F8SC-90/03	15	20	1 / 2	195	100/125	920	81
F8SC-90/03	18.5	25	1 / 2	195	100/125	920	81
F8SC-90/04	18.5	25	1 / 2	195	100/125	1050	93
F8SC-90/04	22	30	1 / 2	195	100/125	1050	93
F8SC-90/05	26	35	1 / 2	195	100/125	1180	105
F8SC-90/05	30	40	1 / 2	195	100/125	1180	105
F8SC-90/06	37	50	1 / 2	195	100/125	1310	130
F8SC-90/08	45	60	1 / 2	195	100/125	1570	147
F8SC-90/10	55	75	1 / 2	195	100/125	1830	172
F8SC-90/13	75	100	1 / 2	195	100/125	2220	209
F8SC-90/17	93	125	1 / 2	195	100/125	2740	259

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	8.3	11.1	13.9	16.7	19.5	22.2	25.0	27.8
		m ³ /h	0	30	40	50	60	70	80	100	120
F8SC-90/01	5.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	20	19	18.5	18	17.5	16	15	11	6
F8SC-90/02	9.3		40	37	36	35	34	32	29	20	11
F8SC-90/02	11		46	41	40	39	38	36	35	28	16
F8SC-90/03	15		59	56	54	53	51	49	45	35	20
F8SC-90/03	18.5		61	58	57.5	55	53	51	49	38	23
F8SC-90/04	18.5		75.5	70	68	66	64	60	56	44	30
F8SC-90/04	22		80	75	73	71	70	68	62	49	34
F8SC-90/05	26		92	88	87	85	83	80	75	61	38
F8SC-90/05	30		102	98	96	94	92	89	85	70	46
F8SC-90/06	37		114	109	107	105	103	100	95	80	57
F8SC-90/08	45		156.5	150	147	143	138	132	128	110	84
F8SC-90/10	55		174.5	185	181	176	171	164	158	140	119
F8SC-90/13	75		250	240	235	230	225	218	208	197	164
F8SC-90/17	93		324	312	306	299	291	282	272	249	224

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

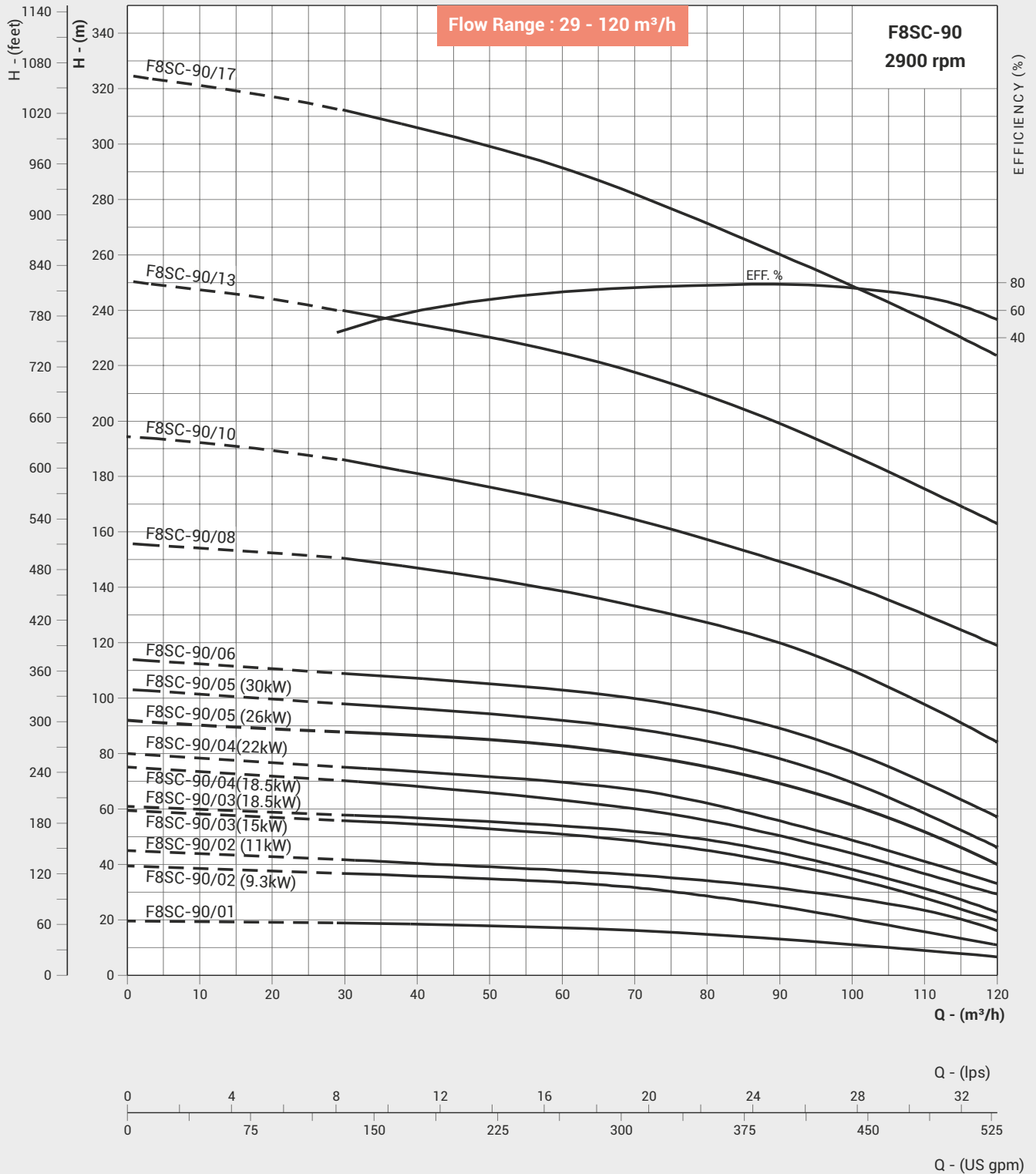
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 90m³/h

Outlet Size : 4"/5"*



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

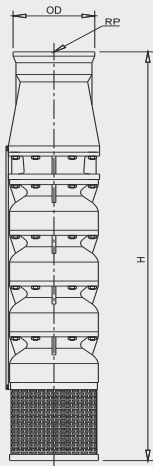
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 100m³/h

Outlet Size : 5"/6"**

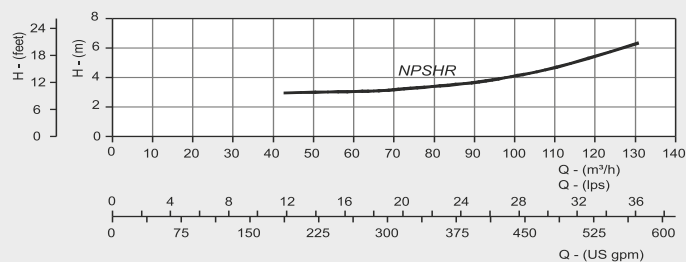


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-100/01	7.5	10	1 / 2	195	125/150	660	90
F8SC-100/02	15	20	1 / 2	195	125/150	790	99
F8SC-100/03	22	30	1 / 2	195	125/150	920	106
F8SC-100/04	30	40	1 / 2	195	125/150	1050	114
F8SC-100/05	37	50	1 / 2	195	125/150	1180	122
F8SC-100/06	45	60	1 / 2	195	125/150	1310	130
F8SC-100/08	55	75	1 / 2	195	125/150	1570	147
F8SC-100/10	75	100	1 / 2	195	125/150	1830	172
F8SC-100/12	93	125	1 / 2	195	125/150	2090	197

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	11.1	13.9	16.7	19.5	25.0	30.6	36.0
		m ³ /h	0	40	50	60	70	90	110	130
F8SC-100/01	7.5	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	21	20.5	20	20	19	16	10	3
F8SC-100/02	15		51	47	46	45	43	39	32	15
F8SC-100/03	22		74	68	66	65	63	56	45	24
F8SC-100/04	30		96	88	86	84	81	73	60	36
F8SC-100/05	37		122	112	110	106	103	94	76	49
F8SC-100/06	45		140	130	127	125	120	110	96	73
F8SC-100/08	55		188	171	166	161	155	142	125	104
F8SC-100/10	75		235	218	212	207	201	187	168	142
F8SC-100/12	93		280	262	255	250	243	228	209	181

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

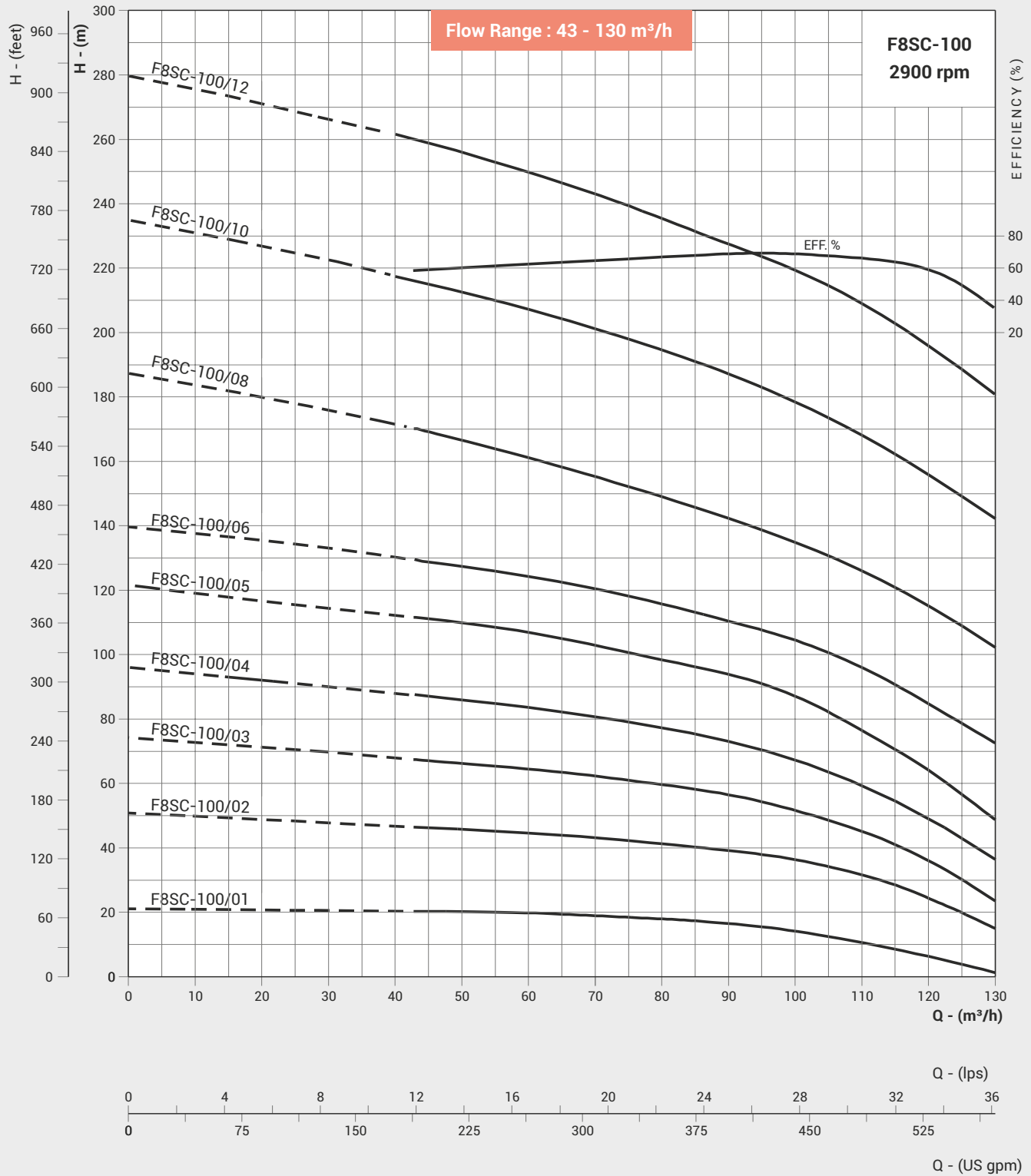
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 100m³/h

Outlet Size : 5"/6" **



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

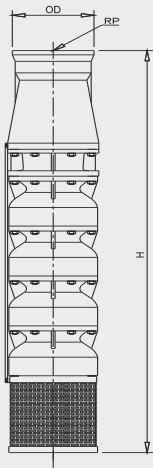
Curve tolerance according to ISO : 9906, Grade 2B.

DIMENSIONS & WEIGHT TABLE

Nominal Diameter : 8"

Nominal Flow : 125m³/h

Outlet Size : 5"/6"**

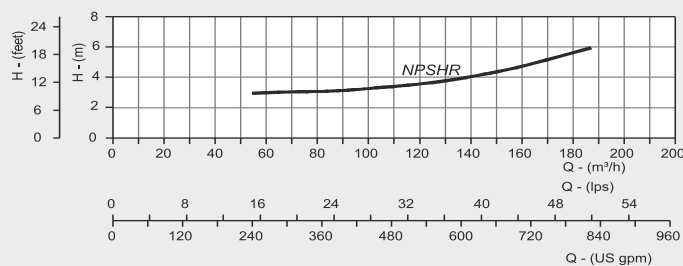


PUMP MODEL	REQUIRED MOTOR POWER		*NO OF CABLE GUARD	DIMENSIONS (mm)			APPROX NETT. WEIGHT (kg)
	kW	HP		OD	RP	H	
F8SC-125/01	9.3	12.5	1 / 2	197	125/150	670	66
F8SC-125/02	18.5	25	1 / 2	197	125/150	810	75
F8SC-125/03	30	40	1 / 2	197	125/150	950	83
F8SC-125/04	37	50	1 / 2	197	125/150	1090	92
F8SC-125/05	45	60	1 / 2	197	125/150	1230	100
F8SC-125/06	55	75	1 / 2	197	125/150	1370	109
F8SC-125/08	75	100	1 / 2	197	125/150	1650	124
F8SC-125/10	93	125	1 / 2	197	125/150	1930	143

PERFORMANCE TABLE

PUMP MODEL	MOTOR kW	lps	0	16.7	22.2	27.8	33.3	38.9	44.5	50.0
		m ³ /h	0	60	80	100	120	140	160	180
F8SC-125/01	9.3	TOTAL MANOMETRIC HEAD IN METRES - (COLUMN WATER)	20	19	18	17	15	12	8	4
F8SC-125/02	18.5		44	36	34	31	28	26	22	17
F8SC-125/03	30		76	66	62	58	53	48	40	32
F8SC-125/04	37		102	88	84	79	74	68	59	48
F8SC-125/05	45		122	108	103	96	88	81	72	60
F8SC-125/06	55		148	133	127	120	113	105	94	80
F8SC-125/08	75		194	175	168	160	152	142	130	114
F8SC-125/10	93		240	223	213	204	193	180	168	171

NPSHR CURVE



* 1 denotes Single Cable Guard (D.O.L - 3 wire) and 2 denotes Double Cable Guard (S.D - 6 wire). Please specify preference, while placing order.

** Optional outlet Size.

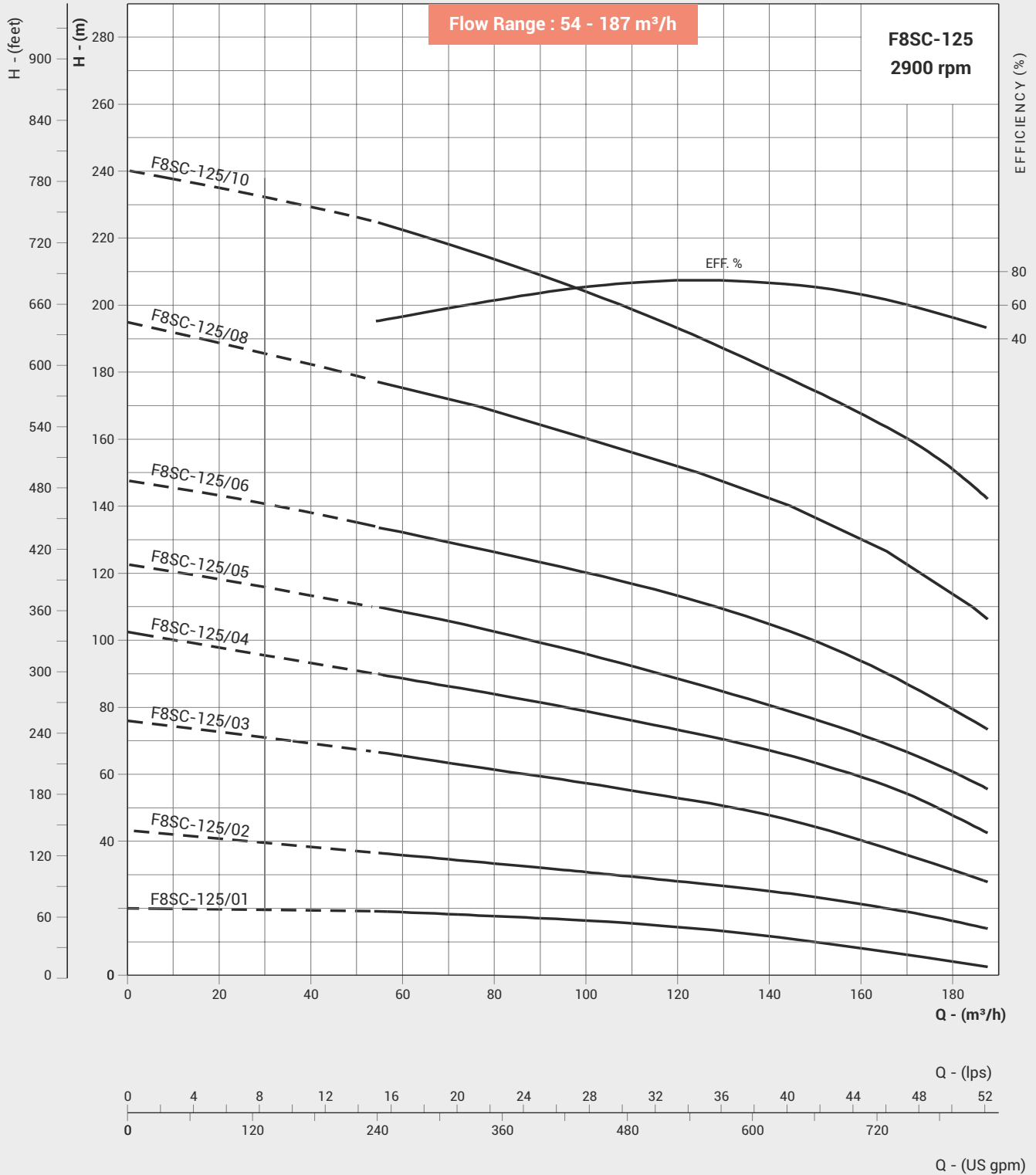
In view of continuous developments, the information / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE

Nominal Diameter : 8"

Nominal Flow : 125m³/h

Outlet Size : 5"/6"*



** Optional outlet Size.

Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade 2B.

FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m³/h	cubic foot per hour ft³/h	cubic foot per minute ft³/min	Imp.gallon per minute Imp.gal./min	US gallon per minute Us gal./min	Us barrel per day ls barrel/d (Petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

Cubic meter m³	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁶	0.001	1	2.2 X 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

newton per square meter N/m² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kgf/cm²	pound force per square inch psi	foot for water ft H ₂ O	meter of water m H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁻⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres ≈ 1.60934 kilometers

MASS

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67



FABBRICA ITALIANA POMPE SOMMERGIBILI S.r.l.

Via Artigianato, 16 - 20072 Pieve Emanuele (MI)-Italy

Tel. + 39 (0) 2 49708488 | E-mail: info@fips-pumps.it | www.zirantec.com