

Grundfos

SQ & SP Submersible Pumps Easy Selection Guide



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Technical Information

3" SQ Technical Data:

- Flow up to 36 GPM
- Head up to 780 ft.
- HP range from ½ to 1 ½
- Max. acceptable liquid temp: 86°F (40°C)
- Thread connections: NPT 1" to NPT 1½"
- Torque exceeds that of traditional 4" motors

4" SP Technical Data:

- Flow up to 77 GPM
- Head up to 2200 ft.
- HP range from ½ to 5
- Max. acceptable liquid temp: 140°F (60°C)
- Thread connections: 1" NPT to 2" NPT
- Made of 100% stainless steel

(Technical data includes 4" SP models with 6" motors.)

Note: This selection guide contains sizing charts for SP models up to 32 GPM - larger capacity SP models are available.

The Grundfos 3" SQ is simple to install and reduces call backs with a range of built-in features and benefits that traditional 4" pumps lack:

PUMP FEATURES	3" SQ	4" CONVENTIONAL PUMP
Nominal voltage range	150-280 volts	207-244 volts
Pump weight	Under 15 lbs.	22 lbs. and above
Pump diameter	2.9"	3.9"
Soft-start feature	Yes	No
Integrated dry-run protection	Yes	No
Integrated overload protection	Yes	No
Over-temperature protection	Yes	Thermal switch only
Integrated frequency converter	Yes	No
Starter box required	No	Some
High-efficiency permanent magnet motor	Yes	No
Vertical or horizontal installation	Yes	Yes



3" SQ



4" SP

5 SQ EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(1.5 - 8 GPM)

Pump Outlet 1" NPT

Pump Model	HP	PSI	Depth to Pumping Water Level (Lift) In Feet																						
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700		
55Q05-90	1/2	0			7.0	6.0	5.0	4.0	2.3																
		20	6.8	5.8	4.8	4.0	1.8																		
		30	5.5	5.0	3.3	1.3																			
		40	4.4	3.0	0.8																				
		50	2.8																						
		60																							
SHUT-OFF PSI:			58	49	41	32	23	15	6																
55Q05-140	1/2	0				7.4	6.8	6.2	5.6	4.9	4.0	3.1	1.8												
		20		7.1	6.6	6.0	5.4	4.6	3.8	2.8	1.2														
		30	7.0	6.5	5.9	5.2	4.5	3.7	2.6	0.8															
		40	6.5	5.8	5.1	4.4	3.5	2.4																	
		50	5.7	5.0	4.2	3.3	2.2																		
		60	4.9	4.1	3.2	1.8																			
SHUT-OFF PSI:			91	83	74	66	57	48	40	31	22	14	5												
55Q05-180	1/2	0					7.5	7.2	6.7	6.3	5.8	5.3	4.8	4.2	3.5	2.7	1.5								
		20			7.4	7.0	6.6	6.1	5.7	5.2	4.6	4.0	3.2	2.3											
		30		7.4	7.0	6.5	6.0	5.6	5.0	4.5	3.9	3.1	2.2												
		40	7.3	6.9	6.5	6.0	5.5	5.0	4.4	3.8	3.0	2.0													
		50	6.8	6.4	5.9	5.4	4.9	4.3	3.6	2.9	1.7														
		60	6.4	5.9	5.3	4.8	4.2	3.5	2.7	1.6															
SHUT-OFF PSI:			126	117	108	100	91	82	74	65	56	48	39	30	22	13	4								
55Q07-230	3/4	0								7.5	7.3	7.0	6.7	6.4	6.1	5.8	5.4	4.6							
		20						7.5	7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.9	4.6	3.6							
		30					7.4	7.1	6.8	6.7	6.2	6.0	5.6	5.2	4.8	4.5	4.0								
		40			7.5	7.4	7.1	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.5	4.0									
		50		7.5	7.3	7.0	6.7	6.5	6.1	5.8	5.5	5.1	4.8	4.3	4.0										
		60	7.5	7.2	6.9	6.7	6.4	6.1	5.8	5.4	5.0	4.7	4.3	3.9											
SHUT-OFF PSI:			160	151	142	134	125	116	108	99	90	82	73	65	56	47	39	21							
55Q07-270	3/4	0									7.2	6.9	6.6	6.3	6.0	5.7	5.3	4.6	3.2						
		20						7.4	7.1	6.8	6.5	6.2	5.9	5.6	5.2	4.9	4.5	3.6	1.6						
		30					7.4	7.1	6.8	6.5	6.2	5.9	5.5	5.2	4.8	4.4	4.0	3.0							
		40				7.3	7.0	6.7	6.4	6.1	5.8	5.5	5.1	4.8	4.3	3.9	3.4	2.2							
		50			7.3	7.0	6.7	6.4	6.1	5.8	5.4	5.1	4.7	4.3	3.8	3.4	2.8	1.2							
		60		7.2	6.9	6.6	6.4	6.0	5.7	5.4	5.0	4.6	4.2	3.8	3.3	2.7	2.0								
SHUT-OFF PSI:				185	177	168	159	151	142	133	125	116	107	99	90	81	73	55	29						
55Q07-320	3/4	0										7.5	7.2	7.0	6.7	6.4	6.1	5.6	4.6	3.5	1.8				
		20								7.4	7.1	6.8	6.7	6.4	6.0	5.8	5.5	4.9	3.8	2.3					
		30							7.3	7.1	6.8	6.6	6.3	6.0	5.8	5.4	5.1	4.5	3.3						
		40						7.2	7.0	6.8	6.6	6.3	6.0	5.7	5.4	5.1	4.8	4.1	2.6						
		50			7.5	7.3	7.0	6.8	6.5	6.2	6.0	5.7	5.4	5.1	4.7	4.3	3.6	2.0							
		60		7.5	7.2	7.0	6.7	6.5	6.2	5.9	5.7	5.3	5.0	4.7	4.3	3.9	3.1	0.9							
SHUT-OFF PSI:					210	201	192	184	175	166	158	149	140	132	123	114	106	88	62	36	10				
55Q10-360	1	0													7.3	7.1	6.8	6.7	6.2	5.4	4.6	3.6	1.5		
		20										7.4	7.3	7.1	6.8	6.6	6.4	6.2	5.6	4.9	3.9	2.7			
		30									7.4	7.2	7.0	6.8	6.6	6.4	6.1	5.9	5.3	4.5	3.4	2.0			
		40								7.4	7.2	7.0	6.7	6.6	6.3	6.0	5.8	5.6	5.0	4.1	3.0	1.0			
		50						7.4	7.1	6.9	6.7	6.5	6.3	6.0	5.8	5.5	5.3	4.7	3.7	2.3					
		60					7.4	7.1	6.9	6.7	6.4	6.3	6.0	5.8	5.5	5.3	5.0	4.3	3.2	1.6					
SHUT-OFF PSI:							227	218	210	201	192	184	175	166	158	149	140	123	97	71	45	10			
55Q10-410	1	0														7.4	7.2	7.0	6.6	6.0	5.3	4.6	3.4		
		20													7.3	7.2	6.9	6.8	6.6	6.2	5.5	4.8	3.9	2.5	
		30												7.4	7.2	7.0	6.8	6.6	6.3	5.9	5.3	4.5	3.5	1.8	
		40										7.3	7.2	6.9	6.8	6.6	6.3	6.2	5.7	5.0	4.1	3.1	1.0		
		50						7.5	7.3	7.1	6.9	6.7	6.5	6.3	6.0	5.9	5.4	4.7	3.8	2.7					
		60					7.5	7.3	7.1	6.8	6.7	6.5	6.3	6.0	5.8	5.6	5.2	4.4	3.4	2.1					
SHUT-OFF PSI:							251	242	234	225	216	208	199	190	182	173	156	130	104	78	43				
55Q15-450	1 1/2	0															7.3	7.0	6.5	5.9	5.2	4.3	2.8		
		20													7.5	7.3	7.1	7.0	6.6	6.1	5.4	4.8	3.7	1.8	
		30												7.5	7.3	7.2	7.0	6.8	6.4	5.8	5.2	4.5	3.3	1.0	
		40											7.4	7.3	7.1	6.9	6.7	6.6	6.2	5.6	4.9	4.1	3.0		
		50										7.4	7.2	7.0	6.9	6.7	6.5	6.3	5.9	5.3	4.6	3.8	2.5		
		60									7.4	7.2	7.0	6.9	6.7	6.5	6.3	6.1	5.8	5.0	4.4	3.5	1.9		
SHUT-OFF PSI:										271	262	253	245	236	227	219	210	193	167	141	115	80	37		

* Values in the table Do Not account for friction loss in the pipe.

10 SQ EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(3 - 15 GPM)

Pump Outlet 1 1/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																								
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700			
10SQ05-110	1/2	0		14.4	13.4	12.1	10.5	8.2	3.0																	
		20	13	11.6	10.0	7.1																				
		30	11.5	9.6	6.4																					
		40	9.3	5.7																						
		50																								
		60																								
SHUT-OFF PSI:			55	47	38	29	21	12	3																	
10SQ05-160	1/2	0			14.8	14.1	13.4	12.5	11.5	10.3	8.7	6.1														
		20	14.7	13.9	13.2	12.2	11.2	9.8	8.2	4.9																
		30	13.7	13.0	12.1	11.0	9.8	7.8	4.7																	
		40	13.0	12.0	10.9	9.5	7.4	4.0																		
		50	11.8	10.6	9.0	6.8																				
		60	10.5	8.8	6.2																					
SHUT-OFF PSI:			89	80	71	63	54	45	37	28	19	11														
10SQ07-200	3/4	0				15.0	14.5	13.9	13.2	12.6	11.8	10.8	9.7	8.6	6.7											
		20		14.9	14.4	13.7	13.0	12.3	11.5	10.6	9.4	8.0	6.2													
		30	14.8	14.3	13.7	12.9	12.3	11.4	10.4	9.3	7.8	5.7														
		40	14.2	13.5	12.9	12.2	11.3	10.2	9.0	7.5	5.4															
		50	13.5	12.7	11.9	11.1	10.0	8.8	7.3	4.4																
		60	12.6	11.9	10.9	9.8	8.5	6.7	4.1																	
SHUT-OFF PSI:			117	109	100	91	83	74	65	57	48	39	31	22	13											
10SQ07-240	3/4	0						14.7	14.3	13.7	13.2	12.6	11.9	11.2	10.4	9.4	8.3	5.1								
		20				14.6	14.1	13.6	13.1	12.4	11.7	11.0	10.0	9.2	8.1	6.7	4.2									
		30			14.5	14.0	13.4	12.9	12.2	11.7	10.8	10.0	9.0	7.8	6.3	3.4										
		40	15.0	14.5	14.0	13.4	12.9	12.2	11.5	10.7	9.9	8.9	7.6	6.2	2.9											
		50	14.4	13.9	13.3	12.7	12.0	11.4	10.5	9.6	8.6	7.2	5.7													
		60	13.8	13.2	12.6	11.9	11.3	10.5	9.5	8.4	7.0	5.3														
SHUT-OFF PSI:			147	138	129	121	112	103	95	86	77	69	60	52	43	34	26	8								
10SQ10-290	1	0							14.5	14.1	13.7	13.3	12.7	12.3	11.6	11.0	9.7	6.3								
		20					14.8	14.4	14.0	13.6	13.1	12.6	12.0	11.5	10.8	10.2	9.5	7.3								
		30				14.7	14.4	13.9	13.5	13.0	12.5	12.0	11.4	10.8	10.0	9.2	8.2	5.5								
		40			14.7	14.2	13.9	13.4	13.0	12.4	11.9	11.4	10.7	9.8	9.0	8.1	6.8									
		50		14.6	14.2	13.8	13.3	12.9	12.3	11.8	11.2	10.5	9.8	8.9	8.0	6.8	5.0									
		60	14.5	14.2	13.7	13.2	12.7	12.2	11.8	11.0	10.3	9.6	8.8	7.7	6.4	4.8										
SHUT-OFF PSI:			180	171	163	154	145	137	128	119	111	102	94	85	76	68	59	42	16							
10SQ15-330	1 1/2	0								14.7	14.4	14.0	13.7	13.3	13.0	12.4	11.5	9.7	7.2							
		20						14.9	14.6	14.3	13.9	13.5	13.2	12.7	12.3	11.8	11.4	10.1	7.9							
		30					15.0	14.7	14.2	13.8	13.5	13.1	12.7	12.2	11.8	11.3	10.6	9.5	6.6							
		40				14.9	14.5	14.1	13.8	13.5	13.0	12.6	12.1	11.8	11.2	10.5	10.0	8.4	4.8							
		50			14.8	14.4	14.1	13.7	13.3	12.9	12.5	12.0	11.6	11.1	10.4	9.9	9.1	7.4								
		60		14.7	14.4	14.0	13.8	13.8	12.9	12.5	12.1	11.4	11.0	10.5	9.8	9.0	8.3	5.9								
SHUT-OFF PSI:			204	196	187	178	170	161	152	144	135	126	118	109	100	92	74	48	23							

* Values in the table Do Not account for friction loss in the pipe.

15 SQ EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(4 - 20 GPM)

Pump Outlet 1 1/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																								
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700			
15SQ05-70	1/2	0		19.5	17.2	14.4	10.1																			
		20	16.6	13.3	8.4																					
		30	12.8	7.1																						
		40	5.9																							
		50																								
		60																								
SHUT-OFF PSI:		42	33	25	16	7																				
15SQ05-110	1/2	0				18.6	17.1	15.5	13.0	10.1																
		20		18.3	16.6	14.8	12.4	8.5																		
		30	18.0	16.4	14.5	11.9	8.3																			
		40	16.1	14.2	11.5	7.0																				
		50	13.8	10.9	6.2																					
		60	10.4	5.0																						
SHUT-OFF PSI:		71	62	53	45	36	27	19	10																	
15SQ07-150	3/4	0					19.0	18.0	16.7	15.4	13.7	11.8	8.7													
		20			18.8	17.6	16.3	15.0	13.1	11.1	7.5															
		30		18.6	17.5	16.3	14.8	12.9	10.5	6.6																
		40	18.5	17.3	16.0	14.4	12.4	10.3	5.9																	
		50	17.0	15.8	14.1	12.3	9.9	4.8																		
		60	15.4	13.8	11.9	9.0	3.9																			
SHUT-OFF PSI:		97	88	79	71	62	53	45	36	27	19	10														
15SQ07-180	3/4	0					19.4	18.5	17.6	16.5	15.4	14.2	12.6	10.6	8.1											
		20				19.1	18.3	17.3	16.3	15.0	13.6	12.1	10.0	6.8												
		30			19.0	18.1	17.1	16.1	14.8	13.4	11.9	9.5	6.5													
		40		18.8	17.9	17.0	15.9	14.7	13.2	11.4	9.5	5.6														
		50	18.7	17.7	16.8	15.7	14.4	12.8	11.1	9.0	4.8															
		60	17.7	16.7	15.5	14.1	12.7	10.7	8.2																	
SHUT-OFF PSI:		122	113	105	96	87	79	70	61	53	44	35	27	18	10											
15SQ10-220	1	0						19.4	18.8	18.0	17.2	16.4	15.4	14.4	13.2	11.7	7.8									
		20					19.3	18.6	17.8	17.0	16.1	15.1	14.0	12.6	11.3	9.3	6.5									
		30				19.2	18.4	17.7	16.8	16.0	14.8	13.8	12.5	11.1	9.3	6.0										
		40			19.1	18.3	17.7	16.8	15.8	14.7	13.7	12.4	11.0	8.8	5.0											
		50		18.9	18.1	17.4	16.6	15.7	14.6	13.4	12.0	10.3	8.3	4.3												
		60	18.9	18.1	17.3	16.5	15.4	14.4	13.1	11.9	10.1	7.7														
SHUT-OFF PSI:		149	140	132	123	114	106	97	88	80	71	62	54	45	36	28	10									
15SQ10-250	1	0							19.0	18.4	17.6	17.0	16.2	15.4	14.6	12.3	7.1									
		20					19.4	18.8	18.1	17.5	16.9	16.1	15.2	14.3	13.3	12.0	8.8									
		30				19.3	18.7	18.2	17.4	16.7	15.8	15.1	13.0	11.9	10.3	6.1	5.4									
		40			19.2	18.6	18.0	17.3	16.6	15.8	15.0	14.0	12.9	11.6	10.0	8.1										
		50		19.0	18.5	17.9	17.2	16.4	15.6	14.7	13.7	12.7	11.4	9.7	7.8	4.5										
		60	19.1	18.5	17.8	17.0	16.3	15.5	14.6	13.6	12.4	11.3	9.7	7.4	3.5											
SHUT-OFF PSI:		166	157	148	140	131	123	114	105	97	88	79	71	62	53	36	10									
15SQ15-290	1 1/2	0									19.2	18.6	18.0	17.5	16.9	16.2	14.7	11.7	6.7							
		20						19.5	19.0	18.4	17.9	17.3	16.7	16.0	15.1	14.5	12.6	8.5								
		30					19.4	18.9	18.4	17.7	17.2	16.5	15.9	15.1	14.3	13.4	11.2	5.1								
		40				19.4	18.8	18.3	17.6	17.1	16.4	15.7	15.0	14.2	13.3	12.2	9.7									
		50		19.2	18.7	18.2	17.7	17.0	16.3	15.6	14.9	14.0	13.0	12.0	10.9	7.4										
		60	19.2	18.6	18.2	17.5	16.9	16.2	15.6	14.8	13.9	12.8	11.8	10.7	9.1											
SHUT-OFF PSI:		184	175	166	158	149	140	132	123	114	106	97	88	80	62	36	10									

* Values in the table Do Not account for friction loss in the pipe.

22 SQ EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(7 - 33 GPM)

Pump Outlet 1 1/2" NPT

		Depth to Pumping Water Level (Lift) In Feet																							
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700		
22SQ05-40	1/2	0	27.5	20.0																					
		20																							
		30																							
		40																							
		50																							
		60																							
SHUT-OFF PSI:			18	9																					
22SQ05-80	1/2	0		29.5	26.0	21.0	13.5																		
		20	25.0	20.0	10.2																				
		30	18.7	7.7																					
		40	5.7																						
		50																							
		60																							
SHUT-OFF PSI:			43	34	26	17	8																		
22SQ07-120	3/4	0		32.3	30.3	27.9	25.2	21.9	17.2	9.4															
		20	29.6	27.2	24.4	20.7	15.5																		
		30	27.0	24.0	20.0	14.2																			
		40	23.4	19.5	13.0																				
		50	18.4	11.9																					
		60	10.0																						
SHUT-OFF PSI:			68	59	50	42	33	24	16	7															
22SQ10-160	1	0			32.4	30.8	29.0	27.0	24.6	22.0	18.8	14.0	7.0												
		20	32.0	30.3	28.5	26.4	24.0	21.1	17.5	12.3															
		30	30.0	28.2	26.0	23.8	20.7	16.6	11.9																
		40	27.8	25.7	23.3	20.1	16.1	10.4																	
		50	25.3	22.7	19.5	15.6	8.9																		
		60	22.2	19.0	14.0	7.6																			
SHUT-OFF PSI:			93	84	75	67	58	49	41	32	23	15	6												
22SQ10-190	1	0				32.2	31.0	29.5	28.0	26.5	24.5	22.0	19.4	16.3	11.5										
		20	33.0	31.8	30.5	29.3	27.7	25.9	23.8	21.5	18.8	15.0	10.0												
		30	31.7	30.4	28.9	27.3	25.7	23.5	20.9	18.2	14.2	8.8													
		40	30.2	28.7	27.0	25.1	23.1	20.6	17.6	13.5	7.4														
		50	28.3	26.7	24.8	22.7	20.1	17.2	12.8	6.5															
		60	26.5	24.5	22.2	19.5	16.6	11.9	5.8																
SHUT-OFF PSI:			117	109	100	91	83	74	65	57	48	39	31	22	13										
22SQ15-220	1 1/2	0				33.0	32.1	31.2	30.0	28.8	27.3	25.7	24.2	22.3	20.2	17.4	14.0								
		20		33.0	32.0	30.8	29.7	28.3	27.0	25.5	23.7	21.6	19.1	16.5	12.9	8.0									
		30	32.8	31.8	30.7	29.3	28.0	26.6	25.0	23.3	21.3	18.9	16.0	12.6	7.3										
		40	31.6	30.4	29.2	27.9	26.5	24.9	23.1	21.1	18.5	15.5	11.8	6.5											
		50	30.2	29.0	27.7	26.2	24.7	22.6	20.4	18.3	15.1	10.8													
		60	28.7	27.3	26.0	24.2	22.3	20.2	17.9	14.3	9.5														
SHUT-OFF PSI:			142	134	125	116	108	99	90	82	73	65	56	47	39	30	21								

* Values in the table Do Not account for friction loss in the pipe.

30 SQ EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(8 - 42 GPM)

Pump Outlet 1 1/2" NPT

		Depth to Pumping Water Level (Lift) In Feet																								
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700			
30SQ05-40	1/2	0	35.0	26.5	11.0																					
		20	3.8																							
		30																								
		40																								
		50																								
		60																								
SHUT-OFF PSI:			21	12	3																					
30SQ07-90	3/4	0		38.5	34.8	30.5	24.3	15.5																		
		20	33.7	28.8	22.2	12.1																				
		30	28.2	21.3	8.8																					
		40	19.5	6.5																						
		50																								
		60																								
SHUT-OFF PSI:			51	42	34	25	16	8																		
30SQ10-130	1	0				37.5	35.0	31.8	28.1	23.4	17.0															
		20	39.3	36.7	34.1	31.0	26.9	21.9	14.7																	
		30	36.3	33.7	30.2	26.0	20.9	13.9																		
		40	33.3	29.9	25.5	20.0	11.6																			
		50	28.9	24.6	18.7	10.0																				
		60	23.7	17.8	7.6																					
SHUT-OFF PSI:			82	73	65	56	47	39	30	21	13															

* Values in the table Do Not account for friction loss in the pipe.

5 SP EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(1.2 - 7 GPM)

Pump Outlet 1" NPT

		Depth to Pumping Water Level (Lift) In Feet																								
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700	800		
5505-13	0.5	0						7.1	6.8	6.4	6.1	5.8	5.5	5.2	4.8	4.5	3.9	2.3								
		20			7.3	7	6.7	6.3	6	5.7	5.4	5.1	4.7	4.3	3.7	3.1	2									
		30		7.2	6.9	6.6	6.3	6	5.7	5.4	5	4.7	4.2	3.7	2.8	2										
		40	7.2	6.9	6.6	6.3	5.9	5.6	5.3	5	4.6	4.2	3.5	2.8	1.6											
		50	6.8	6.5	6.2	5.9	5.6	5.3	4.9	4.6	4	3.5	2.6	1.6												
		60	6.5	6.2	5.8	5.5	5.2	4.9	4.5	4	3.3	2.6	1.3													
SHUT-OFF PSI:			152	143	134	126	117	108	100	91	82	74	65	56	48	39	30	13								
5507-18	0.75	0								7.1	6.9	6.7	6.4	6.2	6	5.8	5.6	5.1	4.2	2.7						
		20						7.1	6.8	6.6	6.4	6.2	5.9	5.7	5.5	5.3	5	4.5	3.2							
		30					7	6.8	6.6	6.3	6.1	5.9	5.7	5.5	5.2	5	4.7	4	2.5							
		40			7.2	7	6.8	6.5	6.3	6.1	5.9	5.6	5.4	5.2	4.9	4.7	4.4	3.5	1.5							
		50		7.2	7	6.7	6.5	6.3	6.1	5.8	5.6	5.4	5.1	4.9	4.6	4.3	3.9	2.9								
		60	7.1	6.9	6.7	6.5	6.2	6	5.8	5.6	5.3	5.1	4.9	4.6	4.3	3.9	3.4	2.1								
SHUT-OFF PSI:			213	204	195	187	178	169	161	152	143	135	126	117	109	100	91	74	48	22						
5510-22	1	0										7.1	6.9	6.7	6.6	6.4	6.2	5.8	5.3	4.7	3.8	1.7				
		20									7.1	6.9	6.7	6.5	6.3	6.1	6	5.8	5.4	4.8	4	2.8				
		30							7	6.8	6.7	6.5	6.3	6.1	5.9	5.7	5.6	5.2	4.6	3.6	2.1					
		40						7	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.4	5	4.3	3.1	1.3					
		50				7.2	7	6.8	6.6	6.4	6.2	6.1	5.9	5.7	5.5	5.3	5.1	4.7	3.9	2.5						
		60			7.1	6.9	6.8	6.6	6.4	6.2	6	6	5.7	5.5	5.3	5.1	4.9	4.4	3.5	1.7						
SHUT-OFF PSI:					245	237	228	219	211	202	194	185	176	168	159	150	142	124	98	72	46	12				
5515-26	1.5	0													7.1	7	6.8	6.7	6.4	5.9	5.4	4.9	4.1	2.1		
		20												7.1	6.9	6.8	6.6	6.5	6.3	6	5.5	5.1	4.5	3.4		
		30											7.1	6.9	6.7	6.6	6.4	6.3	6.1	5.8	5.4	4.8	4.2	2.9		
		40									7	6.9	6.7	6.6	6.4	6.3	6.1	6	5.6	5.2	4.6	5.6	2.4			
		50								7	6.9	6.7	6.5	6.4	6.2	6.1	5.9	5.8	5.5	5	4.4	3.6	1.7			
		60							7	6.8	6.7	6.5	6.4	6.2	6.1	5.9	5.8	5.6	5.3	4.8	4.1	3.1				
SHUT-OFF PSI:								269	260	252	243	234	226	217	208	200	191	174	148	122	96	61	18			
5515-31	1.5	0														7.1	7	6.7	6.3	5.9	5.5	6.7	4.1	2.6		
		20														7.1	6.9	6.8	6.7	6.4	6	5.6	5.2	4.6	3.5	1.6
		30													7	6.9	6.8	6.6	6.5	6.2	5.9	5.5	5.1	4.4	3.2	0.9
		40												7	6.9	6.8	6.6	6.5	6.4	6.1	5.7	5.3	4.9	4.2	2.8	
		50									7.1	7	6.9	6.7	6.6	6.5	6.3	6.2	6	5.6	5.2	4.7	4	2.3		
		60								7.1	7	6.8	6.7	6.6	6.5	6.3	6.2	6.1	5.8	5.4	5	4.5	3.7	1.7		
SHUT-OFF PSI:									320	311	303	294	285	277	268	259	251	233	207	181	155	121	77	34		

See 5S performance curves for higher head models - Specifications are subject to change without notice.

* Values in the table Do Not account for friction loss in the pipe.

7 SP EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(3 - 10 GPM)

Pump Outlet 1" NPT

		Depth to Pumping Water Level (Lift) In Feet																							
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700		
7505-11	0.5	0					9.9	9.5	8.9	8.4	7.8	7.3	6.7	6	5	4									
		20			9.8	9.3	8.8	8.2	7.7	7.1	6.5	5.8	4.7	3.5	1.8										
		30	10.1	9.7	9.2	8.7	8.1	7.6	7	6.4	5.6	4.7	2.9												
		40	9.6	9.2	8.6	8.1	7.5	6.9	6.2	5.6	4.3	3	1.5												
		50	9.1	8.5	8	7.4	6.8	6.2	5.3	4.3	2.2														
		60	8.4	7.9	7.3	6.8	6	5.3	3.8	2.3															
SHUT-OFF PSI:			122	113	105	96	87	79	70	61	53	44	35	27	18	10									
7507-15	0.75	0						10.2	9.9	9.5	9.2	8.8	8.4	8	7.6	7.1	6.7	5.6	2.9						
		20				10.1	9.8	9.4	9	8.6	8.2	7.8	7.4	7	6.5	6.1	5.4	3.6							
		30			10	9.7	9.4	9	8.6	8.2	7.8	7.4	6.9	6.5	5.9	5.4	4.5	1.8							
		40		10	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.4	5.9	5.2	4.5	3.2	1							
		50	9.9	9.6	9.2	8.9	8.5	8.1	7.6	7.2	6.8	6.4	5.8	5.2	4.2	3.2	1.6								
		60	9.5	9.2	8.8	8.4	8	7.6	7.2	6.7	6.2	5.7	4.9	4.2	2.8	1.4									
SHUT-OFF PSI:			170	101	153	144	135	127	118	110	101	92	84	75	66	58	49	32	6						
7510-19	1	0									9.8	9.6	9.3	9	8.7	8.4	8	7.4	6.4	4.8					
		20						10	9.8	9.5	9.2	8.9	8.6	8.3	7.9	7.6	7.3	6.6	5.3	2.8					
		30					10	9.7	9.5	9.2	8.9	8.5	8.2	7.9	7.6	7.3	6.9	6.2	4.6	1.4					
		40				10	9.7	9.4	9.1	8.8	8.5	8.2	7.8	7.5	7.2	6.9	6.5	5.6	3.7						
		50			9.9	9.7	9.4	9.1	8.8	8.4	8.1	7.8	7.5	7.2	6.8	6.5	6	5	2.4						
		60	10.1	9.9	9.6	9.3	9	8.7	8.4	8.1	7.8	7.4	7.1	6.8	6.4	6	5.5	4.2							
SHUT-OFF PSI:			218	209	200	192	183	174	166	157	148	140	131	123	114	105	97	79	53	27					
7515-26	1.5	0											10.1	9.9	9.7	9.5	9.3	8.8	8.1	7.4	6.7	5.5			
		20									10	9.8	9.6	9.4	9.2	9	8.8	8.3	7.6	6.9	6.1	4.4			
		30								10	9.8	9.6	9.4	9.2	9	8.7	8.5	8	7.3	6.6	5.7	3.7			
		40						10.1	10	9.8	9.6	9.4	9.1	8.9	8.7	8.5	8.2	7.8	7.1	6.3	5.2	2.9			
		50					10.1	9.9	9.7	9.6	9.3	9.1	8.9	8.7	8.4	8.2	8	7.5	6.8	5.9	4.7	1.9			
		60				10.1	9.9	9.7	9.5	9.3	9.1	8.9	8.6	8.4	8.2	7.9	7.7	7.2	6.5	5.5	4.1				
SHUT-OFF PSI:					274	265	257	248	239	231	222	213	205	196	187	179	161	135	110	84	49				
7520-32	2	0											10.6	10.5	10.4	10.4	10.3	10.1	9.6	9.1	8.4	7.3	5.7		
		20										10.5	10.5	10.4	10.3	10.3	10.2	10	9.8	9.2	8.6	7.8	6.6	4.8	
		30									10.5	10.5	10.4	10.3	10.2	10.1	10	9.9	9.6	9	8.3	7.5	6.2	4.3	
		40								10.5	10.5	10.4	10.3	10.2	10.1	10	9.9	9.7	9.4	8.8	8	7.2	5.8	3.9	
		50								10.5	10.4	10.3	10.2	10.1	10	9.8	9.7	9.5	9.1	8.5	7.7	6.8	5.4	3.3	
		60						10.5	10.4	10.3	10.2	10.1	10	9.8	9.7	9.5	9.3	8.9	8.2	7.4	6.4	5			
SHUT-OFF PSI:						343	334	326	317	308	300	291	282	274	265	256	239	213	187	161	126	83			

See 7S performance curves for higher head models - Specifications are subject to change without notice.

* Values in the table Do Not account for friction loss in the pipe.

10 SP EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(5 - 14 GPM)

Pump Outlet 1 1/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																						
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700	
10S05-9	0.5	0				14.1	13.4	12.4	11.4	10.4	9.5	8.3	6.6	3.5										
		20		13.9	13.1	12.1	11.1	10.1	9.2	7.9	5.8	2												
		30	13.8	13	12	11	10	9	7.6	5.3	1.2													
		40	12.8	11.8	10.8	9.8	8.8	7.3	4.8															
		50	11.7	10.7	9.7	8.6	7	4.3																
		60	10.5	9.5	8.4	6.7	3.7																	
SHUT-OFF PSI:			100	92	83	74	66	57	48	40	31	23	14	5										
10S07-12	0.75	0				14.3	13.8	13.2	12.5	11.7	11	10.2	9.5	8.7	7.6	6								
		20			14.2	13.6	12.9	12.2	11.5	10.7	10	9.3	8.4	7.2	5.4	2.6								
		30		14.1	13.5	12.9	12.1	11.4	10.6	9.9	9.2	8.2	7	5	2									
		40	14	13.4	12.8	12	11.3	10.5	9.8	9	8.1	6.7	4.7	1.4										
		50	13.3	12.6	11.9	11.1	10.4	9.7	8.9	7.9	6.5	4.2												
		60	12.5	11.8	11	10.3	9.6	8.8	7.7	6.2	3.8													
SHUT-OFF PSI:			137	129	120	111	103	94	85	77	68	59	51	42	33	25	16							
10S10-15	1	0						14.1	13.6	13.1	12.5	11.9	11.3	10.7	10.1	9.6	8.2	3.8						
		20					13.9	13.5	12.9	12.3	11.7	11.1	10.5	10	9.4	8.7	7.9	5.2						
		30				13.9	13.4	12.8	12.2	11.6	11	10.5	9.9	9.3	8.6	7.7	6.6	2.6						
		40		14.2	13.8	13.3	12.7	12.1	11.5	10.9	10.4	9.8	9.2	8.5	7.6	6.3	4.6							
		50	14.1	13.7	13.2	12.6	12.1	11.4	10.9	10.3	9.7	9.1	8.3	7.4	6.1	4.3	1.7							
		60	13.6	13.1	12.6	12	11.4	10.8	10.2	9.6	9	8.2	7.2	5.9	3.9									
SHUT-OFF PSI:			174	165	157	148	139	131	122	113	105	96	87	79	70	61	53	35	10					
10S15-21	1.5	0												13.3	12.9	12.5	12	11.2	9.9	8.5	6.3			
		20										13.5	13.1	12.7	12.3	11.8	11.4	11	10.2	8.9	6.9	2.9		
		30									13.5	13.1	12.7	12.3	11.8	11.4	11	10.5	9.7	8.3	5.7			
		40							13.4	13	12.6	12.2	11.8	11.3	10.9	10.5	10.1	9.2	7.5	4.1				
		50						13.3	13	12.5	12.1	11.7	11.3	10.8	10.4	10	9.6	8.7	6.5	2				
		60					13.3	12.9	12.5	12.1	11.6	11.2	10.8	10.4	9.9	9.5	9.1	8	5.1					
SHUT-OFF PSI:							203	194	185	177	168	159	151	142	133	125	107	81	55	29				
10S30-27	2	0												14.1	13.9	13.7	13.4	12.8	11.8	10.8	9.8	8.3	4.7	
		20											14.1	13.8	13.6	13.3	13	12.7	12	11	10	9	7.1	1.5
		30										14	13.8	13.5	13.3	12.9	12.6	12.3	11.6	10.6	9.7	8.6	6.2	
		40							14.2	14	13.8	13.5	13.2	12.9	12.6	12.2	11.9	11.2	10.3	9.3	8.1	5.2		
		50					14.2	14	13.7	13.5	13.2	12.8	12.5	12.2	11.9	11.5	10.9	9.9	8.9	7.4	3.8			
		60					14.1	13.9	13.7	13.4	13.1	12.8	12.5	12.1	11.8	11.5	11.1	10.5	9.5	8.4	6.6	2.1		
SHUT-OFF PSI:						285	276	268	259	250	242	233	224	216	207	198	181	155	129	103	68	25		

10 SP EASY SELECTION CHART (continued)

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(5 - 14 GPM)

Pump Outlet 1 1/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																	
Pump Model	HP	PSI	200	220	240	260	280	300	340	400	460	520	600	700	800	900	1000	1100	
10S30-34	3	0								13.8	13.2	12.5	11.9	10.9	9.6	7.9	4.8		
		20						13.9	13.7	13.3	12.7	12	11.3	10.3	8.9	6.7	2.7		
		30					13.9	13.5	13.1	12.4	11.7	11	10	8.5	6	1.3			
		40		14	13.8	13.7	13.5	13.3	12.8	12.2	11.5	10.8	9.7	8	5.1				
		50	14	13.8	13.6	13.4	13.2	13	12.6	11.9	11.2	10.5	9.4	7.5	4.2				
		60	13.8	13.6	13.4	13.2	13	12.8	12.3	11.6	10.9	10.2	9	6.9	3.1				
SHUT-OFF PSI:			332	324	315	306	298	289	272	246	220	194	159	116	73	29			

See 10S performance curves for higher head models - Specifications are subject to change without notice.

* Values in the table Do Not account for friction loss in the pipe.

16 SP EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(10 - 20 GPM)

Pump Outlet 11/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																						
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700	
16205-5	0.5	0																						
		20	20.3	18.2	14.1	10	5																	
		30	17.3	14.4	8	1.6																		
		40	12.7	8	4																			
		50	6.5																					
SHUT-OFF PSI:			58	49	40	32	23	14																
16507-8	0.75	0					20.5	19.2	17.5	15.8	12.8	9.8	5.2											
		20			20.1	18.8	16.9	15.2	11.8	8.5	4.3													
		30	21.2	19.9	18.4	16.9	14.3	11.8	7.5	3.2	1.6													
		40	19.7	18.3	16.3	14.3	10.8	7.2	3.6															
		50	17.9	16.3	13.5	10.7	6.2	1.7																
SHUT-OFF PSI:			97	88	80	71	62	54	45	36	28	19	10											
16510-10	1	0					20.8	19.8	18.8	17.3	15.9	13.7	11.4	8	4.7									
		20				20.5	19.4	18.3	16.8	15.3	12.9	10.5	7	3.5	1.8									
		30			20.3	19.3	18.1	16.8	14.8	12.8	9.8	6.7	3.3											
		40		20.2	19.1	18	16.4	14.8	12.2	9.6	5.9	2.3												
		50	20	19	17.7	16.3	14.2	12	8.8	5.6	2.8													
SHUT-OFF PSI:			123	115	106	97	89	80	71	63	54	45	37	28	19	11								
16515-14	1.5	0								21	20.3	19.6	18.8	18	16.9	15.8	14.3	10.7	3.3					
		20								20.1	19.3	18.5	17.7	16.6	15.4	13.8	12.2	10	5.1					
		30					20.7	20	19.2	18.4	17.4	16.5	15.1	13.7	11.8	9.8	7.3	2.4						
		40				20.6	19.8	19.1	18.3	17.4	16	15	13.3	11.6	9.3	7	4.3							
		50			20.4	19.8	18.9	18.2	17.2	16.1	14.7	13.2	11.2	9.1	6.5	3.9	2							
SHUT-OFF PSI:			167	158	149	141	132	123	115	106	97	89	80	71	63	54	37	28						
16520-18	2	0										21.2	20.6	20	19.5	18.9	18.2	16.7	13.5	8.8	2.7			
		20										20.4	19.8	19.3	18.7	18	17.3	16.4	14.3	10	4.2			
		30										20.3	19.8	19.2	18.6	17.9	17.2	16.3	15.3	12.8	7.9	1.9		
		40										20.3	19.7	19.1	18.5	17.8	17.1	16.1	15.2	13.9	11.1	5.7		
		50						20.2	19.6	19	18.3	17.7	16.8	16	14.9	13.8	12.3	9.2	3.2					
SHUT-OFF PSI:						194	186	177	168	160	151	142	134	125	116	108	90	65	39	13				

16 SP EASY SELECTION CHART (continued)

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(10 - 20 GPM)

Pump Outlet 11/4" NPT

		Depth to Pumping Water Level (Lift) In Feet																		
Pump Model	HP	PSI	180	200	220	240	260	280	300	340	400	460	520	600	700	800	900	1000	1100	
16530-24	3	0									19.6	18.3	16.5	14.2	9.8	2.1				
		20						20.3	19.9	19.5	18.6	17	14.8	11.8	6.5					
		30				20.3	19.8	19.4	19	18	16.3	13.7	10.4	4.7						
		40			20.2	19.8	19.3	18.9	18.4	17.3	15.3	12.5	8.9	2.8						
		50		20.2	19.8	19.3	18.8	18.3	17.8	16.7	14.3	11.3	7.3							
SHUT-OFF PSI:			239	230	221	213	204	195	187	169	143	91	57	13						
16550-38	5	0												21.5	20.4	18.7	16.5	13.4	8.9	2.1
		20												20.9	19.6	17.7	15.2	11.5	6.1	
		30												21.4	20.5	19.2	17.2	14.5	10.5	4.5
		40												21.1	20.2	18.8	16.7	13.7	9.3	2.7
		50											21.6	20.7	19.8	18.4	16.1	12.8	8	0.8
SHUT-OFF PSI:											314	288	262	227	184	141	98	54	11	

See 16S performance curves for higher head models - Specifications are subject to change without notice.

* Values in the table Do Not account for friction loss in the pipe.

25 SP EASY SELECTION CHART

Ratings are in GALLONS PER MINUTE-GPM

FLOW RANGE
(18 - 32 GPM)

Pump Outlet 1 1/2" NPT

		Depth to Pumping Water Level (Lift) In Feet																						
Pump Model	HP	PSI	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	340	400	460	520	600	700	
25S05-3	0.5	0																						
		20	18.6	6.5	3.3																			
		30	10.5																					
		40																						
		50																						
		60																						
SHUT-OFF PSI:			31	22	13	5																		
25S07-5	0.75	0			34.5	29.8	23.9	18.1																
		20	32.9	28.6	21.8	15.1	7.5																	
		30	27.1	22.5	12.3	2																		
		40	19.5	11.8	5.8																			
		50	10.1																					
		60	4.1																					
SHUT-OFF PSI:			57	48	39	31	22	13																
25S10-7	1	0					31.3	28.5	24.3	20.2	12.7	5.1												
		20		33.2	30.3	27.6	22.9	18.3	10.4	2.5	1.3													
		30	33	29.9	26.5	23.1	13	9.6	4.8															
		40	29.4	26.6	21.3	16.2	8.2																	
		50	25.3	21.5	14.3	7	3.5																	
		60	19.7	13.9	7																			
SHUT-OFF PSI:			83	74	65	57	48	39	31	22	13	5												
25S15-9	1.5	0						32.2	30	27.9	24.8	21.6	16.3	10.8										
		20				31.5	29.3	27.2	23.7	20.3	14.5	8.8	4.4											
		30			31.3	29.1	26.4	23.7	18.9	14.2	7.8	1.5												
		40		30.8	28.6	26.3	22.6	18.8	12.8	6.8	3.4													
		50	30.6	28.4	25.5	22.5	17.4	12.3	6.2															
		60	27.8	25.5	21.3	17.2	11	4.8	2.4															
SHUT-OFF PSI:			109	100	91	83	74	65	57	48	39	31	22	13										
25S20-11	2	0						33.1	31.1	29.3	27.6	25.1	22.5	18.5	14.5	9.3								
		20					32.5	30.6	28.8	27	24.3	21.5	17.3	13	7.8	2.5								
		30				32	30.3	28.7	26.4	24.2	20.6	16.9	12	7	3.5									
		40			31.8	30.1	28.2	26.3	23.3	20.4	15.9	11.4	6.3											
		50		31.5	29.8	28.1	25.7	23.3	19.4	15.6	10.4	5.3	2.7											
		60	31.3	29.6	27.6	25.6	22.4	19.3	14.5	9.8	4.9													
SHUT-OFF PSI:			135	126	118	109	100	92	83	74	66	57	48	40	31	23								
25S15-9	1.5	0									32.3	31	29.8	28.4	27.1	25.2	20.7							
		20								31.8	30.6	29.3	28	26.6	24.6	22.7	19.8	13.5						
		30						33	31.7	30.4	29.2	27.8	26.2	24.5	22.1	19.7	16.4	9.3						
		40					32.8	31.5	30.3	29	27.5	26	24	21.9	19	16.1	12.4	4.9						
		50				32.6	31.3	30	28.7	27.4	25.7	23.8	21.3	18.8	15.3	12	8.2	2.2						
		60			32.4	31.1	29.8	28.6	27	25.5	23.3	21.2	18.1	15	11.3	7.6	3.8							
SHUT-OFF PSI:					170	161	152	144	135	126	118	109	100	92	83	74	66	48						
25S20-11	2	0															32.5	30.3	28	25.3	19.9	10.2		
		20																32.3	30.8	28.6	25.9	22.5	15.8	5
		30																32.1	31.3	29.9	27.7	24.7	20.8	13.5
		40																32	31.3	30.5	29.1	26.7	23.3	11
		50																32.7	31.8	31.2	30.4	29.7	28.2	25.5
		60																32.5	31.8	31	30.3	29.6	28.8	27.3
SHUT-OFF PSI:																253	245	236	227	219	210	193	167	

See 25S performance curves for higher head models - Specifications are subject to change without notice.

* Values in the table Do Not account for friction loss in the pipe.



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