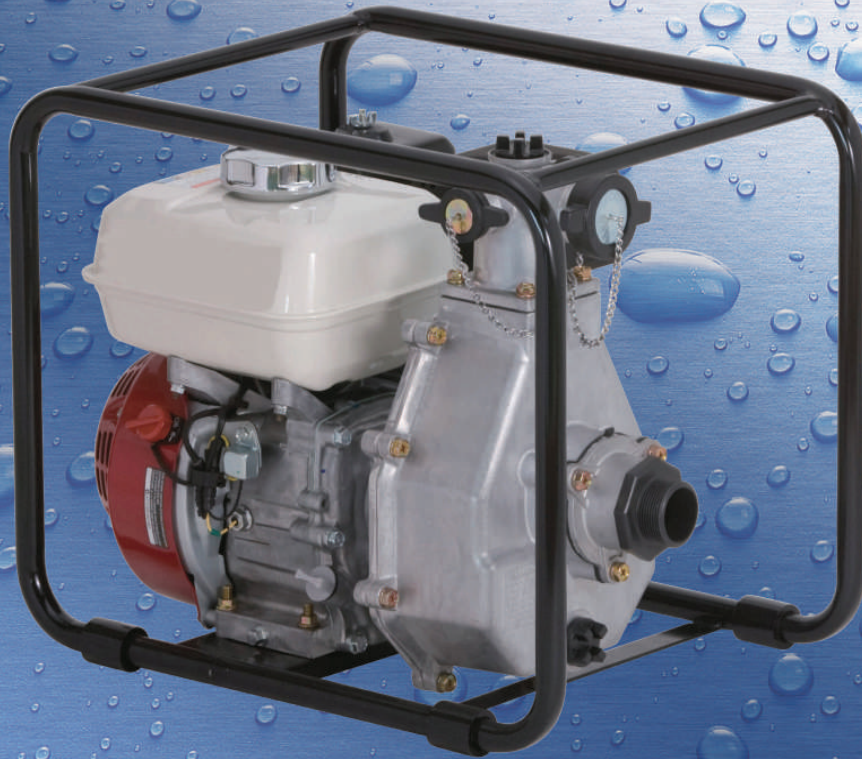


KODIAK POWER EQUIPMENT PWP1.5SCH4070

Technical Manual



Specifications / Reference

	PWP1.5SCH4070
Port Size	1 1/2 " NPT M
Seal Material	Carbon Ceramic
Impeller Material	Cast Iron
Volute Material	Cast Iron
Pump Casing Material	Aluminum
Suction Lift ft (m)	26 (8)
Max Head ft (m)	233 (70)
Max Flow gpm (lt/min)	103 (390)
Solids Capacity in (mm)	N/A
Weight lbs (kg)	59(26)
size inches (mm) LxWxH	21x15x17.7 (550x 390x450)
Engine	Honda GX160
Engine Spec #	SX4
Engine type	4 stroke
oil Alert	Yes
Engine output hp(kw)	5.5(4.1)
Fuel Tank Capacity gal (l)	1(3.8)

Centrifugal Pump Reference Information

Losses due to hose friction

Hose Friction losses					
Pressure Drop in psi per 100 ft of hose with typical flow rates					
Water Flow (gpm)	1"	1.5"	2"	3"	4"
10	7				
20	26				
30	56	8			
40	96	13			
50	144	20	5		
100		72	18		
150		153	38	5	
200			64	8.9	
250			97	14	
300				19	4
350				25	6
400				32	8
450					10
500					12
550					14

Losses are expressed in feet of head loss

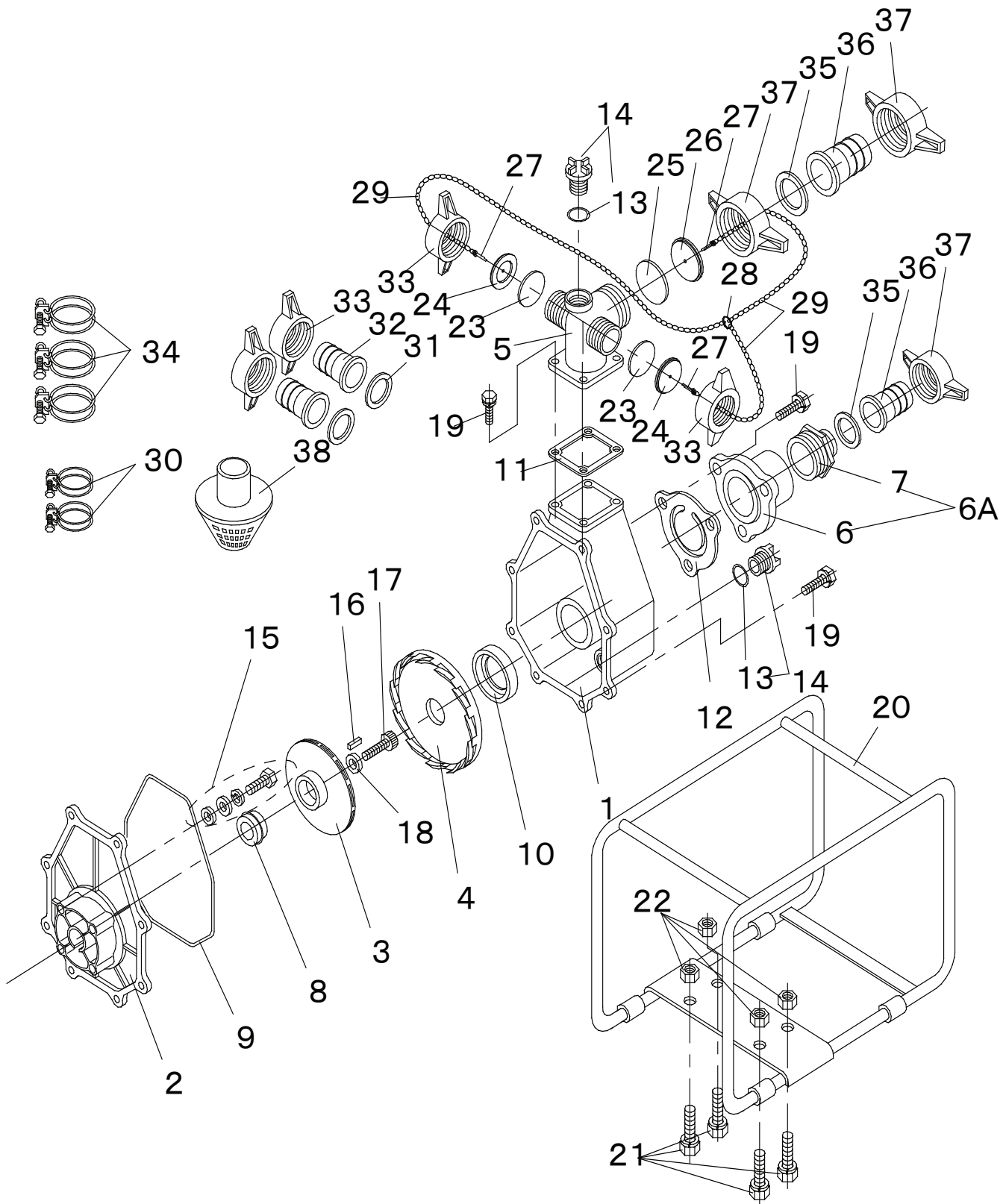
Values are based on the Hasen-Williams Equation and are close approximations

Losses due to elevation

Pressure can be designated in many units from bar (si), psi (imperial) or also in high of a water column (feet or metres). In imperial units the weight of one foot of water is equal to .4328 psi. In other words for every foot of elevation change from the discharge of the pump to the point of discharge of the hose there is a pressure of .4328 psi applied to the pump.

1 foot of water (head) = .4328 psi

Parts Illustration PWP1.5SCH4070



Parts List PWP1.5SCH4070

REF No.	Parts No.	Parts name	Q'ty	Remarks
	ENGINE	HONDA GX160	1	
1	200 200 130	CASING	1	SCQ-50
2	200 201 040	CASING COVER	1	
3	200 210 200	IMPELLER	1	
4	200 210 410	DIFFUSER	1	
5	200 201 080	BEND	1	
6	200 200 540	VALVE CASE	1	IN-NPSM2
7	200 500 240	FITTING PIPE	1	2"→1.5"
6A	202 200 160	VALVE CASE ASSY	(1)	PF1.5
8	201 100 031	MECHANICAL SEAL	1	
9	200 900 350	PACKING,CASING	1	
10	200 900 240	PACKING,INNER CASING	1	
11	200 900 170	PACKING,BEND	1	
12	200 900 120	CHECK VALVE	1	
13	200 800 020	O-RING	2	P-24
14	200 500 040	PLUG ASSY	2	
15	203 000 100	CASING BOLT ASSY	4	M8×50
16	203300100	KEY	1	5×5×7
17	203 000 370	SOCKET BOLT M8x30	1	ROBIN / MITUBUSHI
	203 000 400	SOCKET BOLT M8x35	(1)	HONDA
18	203 100 210	SEAL WASHER	1	W8-S1
19	203 000 040	HEX.BOLT	15	M8×25 P=2
20	200 100 051	FRAME (WHITE)	1	
	200 100 050	FRAME (BLACK)	(1)	
	200 100 052	FRAME(YELLOW)	(1)	
21	203 000 070	HEX.BOLT	4	M8×40 P=2
22	203 200 010	FLANGE NUT	4	M8
23	200 900 100	PACKING,CAP	2	φ30.8
24	200 300 400	CAP	2	1"
25	200 900 090	PACKING,CAP	1	φ45.5
26	200 300 390	CAP	1	1.5"
27	203 300 050	PIN	3	3×15(SUS)
28	203 300 060	RING	1	φ15
29	203 300 070	CHAIN	3	
30	201 000 020	HOSE BAND	2	1"
31	200 900 030	PACKING,COUPLING	2	NBR
32	200 500 030	HOSE COUPLING	2	ABS
33	200 500 020	HOSE COUPLING HANDLE	4	PF1
34	201 000 030	HOSE BAND	3	1.5"
35	200 900 040	PACKING,COUPLING	2	NBR
36	200 500 140	HOSE COUPLING	2	ABS
37	200 500 150	HOSE COUPLING HANDLE	3	PF1.5
38	201 200 020	STRAINER	1	1.5J

PWP15SCH4070 Performance Curve

