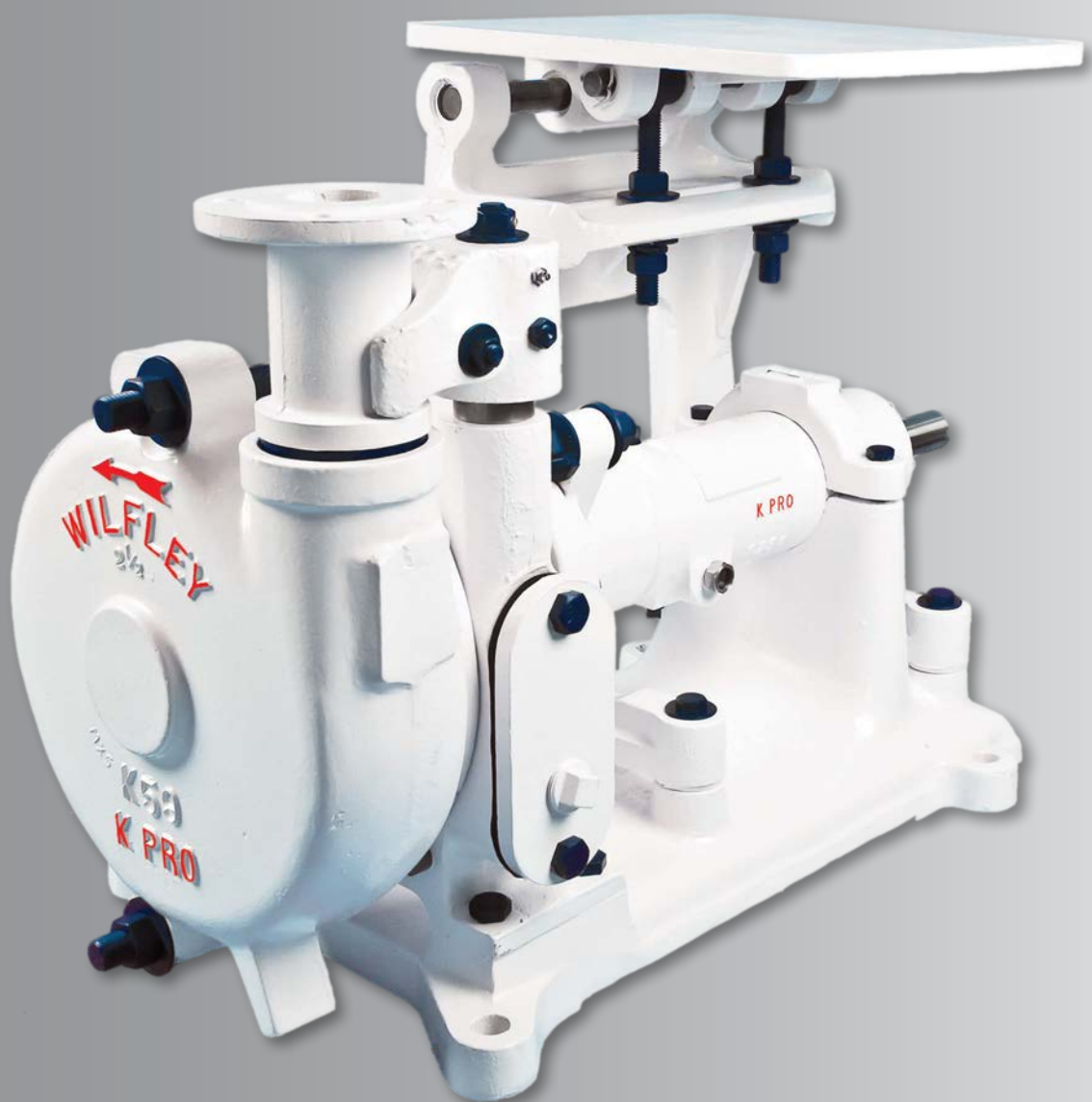


WILFLEY[®]
CENTRIFUGAL PUMPS

Kpro[®] Slurry Pump



Kpro® Heavy Duty Slurry Pump

A slurry pump for the most abrasive slurries

- Single stage
- Side suction
- Horizontal
- To 8" (200mm) discharge

Sealless Design

The Wilfley Expeller

- No seal water required
- No packing to maintain
- No mechanical seal

A Wilfley can run dry because there is no rubbing contact while in operation

- No product dilution
- No contamination
- No leaking while running

Wilfley pumps are sealed by hydraulic pressure while running. This centrifugal seal is created by the expeller, which was developed by Wilfley more than 90 years ago. Wear is minimized on the expeller because it operates against suction pressure only.

Leakless at shutdown

The Wilfley Check Valve

- Long wear life
- Low cost
- Reliable
- Easily cleaned

When the Kpro® is shut down, the check valve seals against a replaceable stationary seal ring.

Maintenance

The Wilfley Design Advantage

- Quick-change wear parts
- Flexibility of dual-side intakes

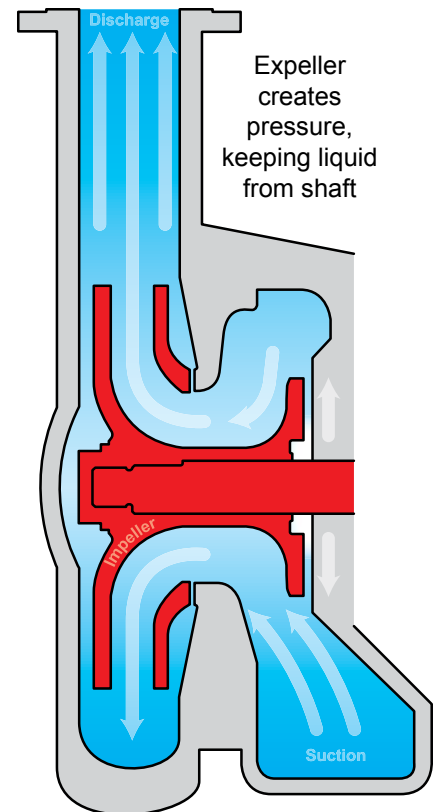
Maintenance is a major consideration in the development of all Wilfley pumps. All moving parts in the Kpro® can be changed without disturbing the suction or discharge piping.

Service Support

Wilfley Integrity

- Large replacement inventory
- Engineering assistance for the life of the pump
- Quality craftsmanship

A.R. Wilfley and Sons has always produced the finest sealess centrifugal pumps. Wilfley is committed to quality, durability and customer satisfaction. Wilfley still sells parts for and services pumps that have been in continuous service for more than 90 years. It is a tradition at Wilfley. The Kpro® slurry pump continues the legacy that is A.R. Wilfley and Sons, Inc.



Impeller pumps liquid from suction to discharge

“When an ordinary pump is not enough”

General Characteristics

The Kpro® slurry pump continues the legacy of the Model K, which has successfully been in production since the 1940s. The Kpro® uses improved manufacturing techniques to greatly increase its functionality and reliability.

Kpro® pumps are available in discharge sizes ranging from 1" (25mm) to 8" (200mm). Crane arm assemblies that support the case during maintenance are available in discharge sizes from 3" (75mm) to 8" (200mm). Special pump configurations are available for high suction head and extreme horsepower services. Each pump is engineered to match service and system requirements.

Special Modifications

We are equipped to modify pumps that are used for special services. Such things as flush ports, special lubrication systems and special drain plugs are common. We will also engineer modifications required to fit your specific installation. We provide engineering modifications for related

pumping problems such as maintenance and installation. Many applications require specific motor and drive configurations as well as base plates and mounting brackets. We will design and produce these items to your specifications and satisfaction.

Materials of Construction

A.R. Wilfley and Sons produces the Kpro® in a wide variety of hard irons and stainless steels, including proprietary alloys specially developed to stand up to the difficult erosive-corrosive conditions found in slurry services.

Wear in a slurry pump is a complex process. It is a function of:

- Operating conditions (head and flow)
- The size and concentration of the solid particles
- The shape and hardness of the solid particles
- Temperature
- pH level

This type of wear involves sliding and impact erosion in conjunction with corrosion. This combination intensifies the effects of each individual type of wear. Material hardness, fracture toughness and corrosion resistance must be properly balanced to provide optimal wear resistance. A.R. Wilfley and Sons has developed proprietary alloys that optimize this balance for pumping conditions where standard alloys were not adequate. MAXALLOY® 5A is a proprietary alloy that significantly surpasses traditional white iron and NiHard in corrosion, erosion and corrosion/erosion services.

A.R. Wilfley and Sons has over 90 years of experience designing, manufacturing and applying slurry pumps and can provide the expertise to assist in selection of pumps and materials for a wide variety of difficult services.

Material Specifications

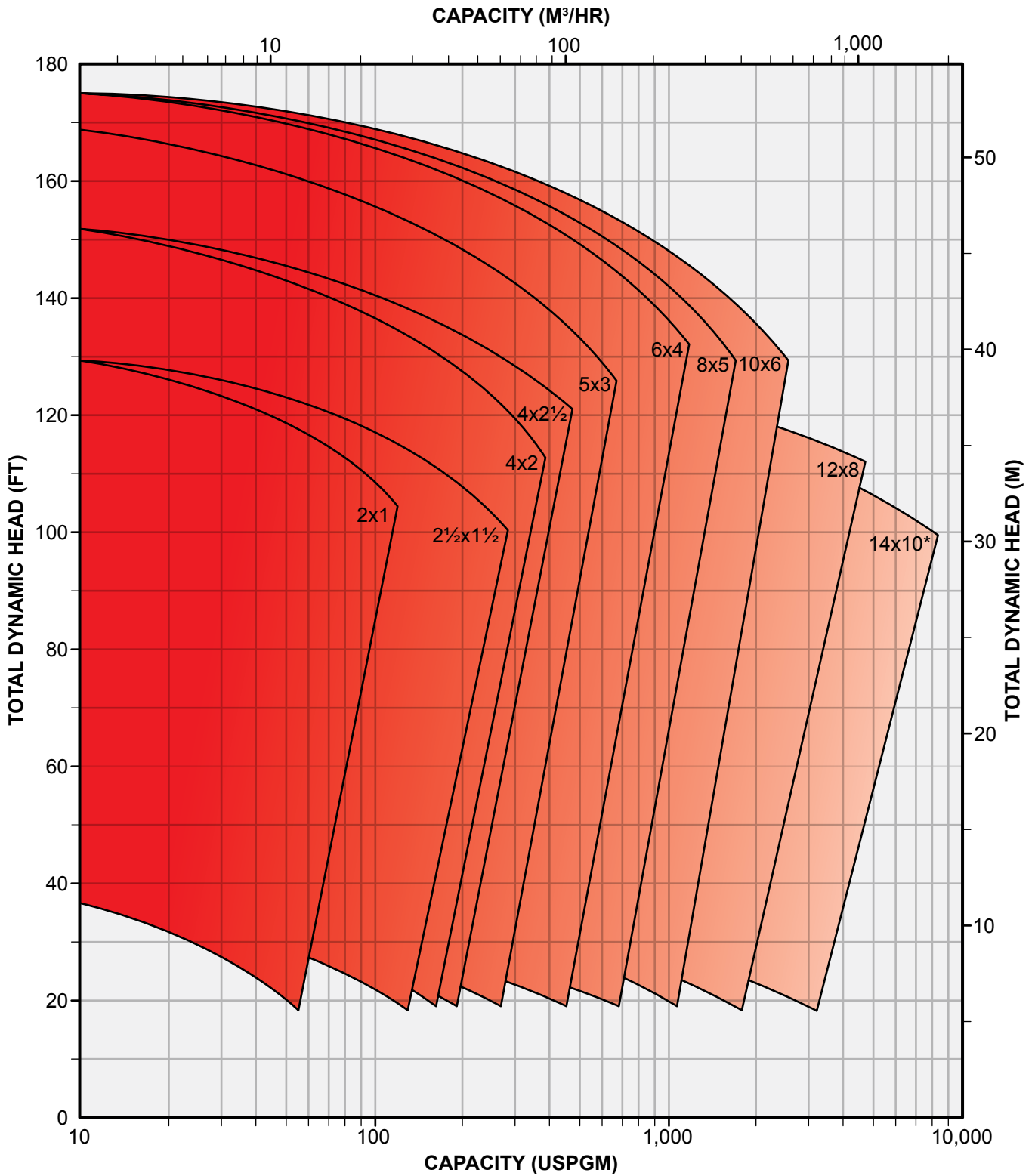
Material	Hardness (HBN)	Material	Hardness (HBN)
MAXALLOY® 5A	700 - 800	NiHard 4	600 - 655
MAXALLOY® 5	550 - 675	White Iron	400 - 460
MAXALLOY® 2	650 - 720	WCD4™	320 - 370

Approximate Shipping Weight of Complete Metal Pumps

Weights in pounds (kilograms)

Pump Size	1	1½	2	2½	3	4	5	6	8
Bare Pump	430 (195)	450 (204)	680 (308)	690 (313)	1,030 (467)	1,675 (760)	2,150 (975)	2,550 (1,157)	4,150 (1,882)
Direct Driven Pump with base plate and flexible coupling	640 (290)	665 (302)	1,060 (481)	1,060 (481)	1,350 (612)	2,120 (962)	2,600 (1,179)	3,350 (1,520)	5,450 (2,472)
Overhead V-Belt Driven Pump with Fixture (Less Belts & Sheaves)	700 (318)	720 (327)	950 (431)	960 (435)	1,300 (590)	2,185 (991)	2,820 (1,279)	3,140 (1,424)	4,850 (2,200)

Kpro Pump Capacities



*Model L

Maintenance Features

Impeller Seal Face Adjustment to maintain efficiency

One of the losses in a centrifugal pump is the recirculation of the pumpage in the pump case back into the suction of the impeller. The amount of recirculation depends upon the clearance between the impeller and the follower plate. On the Kpro® slurry pump, a minimum clearance is maintained by a single adjustment. This Wilfley feature is appreciated by all operators because it eliminates the need for increasing the pump speed, adding makeup water, early replacement of pump parts, and other methods of maintaining efficiency.



Quick Change-out of Wear Parts to minimize down time

The four key wear parts (case, impeller, follower plate and die ring) can be changed within a few minutes without disturbing the suction or discharge piping. This quick change is made possible by the case crane (available on sizes 3"-8"), discharge keeper, the use of only four case bolts, and the manner in which the impeller is attached to the shaft. This exclusive Wilfley feature saves valuable time and manpower over other solids handling pumps that may require hours to accomplish such required maintenance.



The Kpro[®] Slurry Pump

The next evolution of the K

The **discharge keeper assembly** supports the discharge piping during maintenance so that the case can be opened or removed without disconnecting piping.

Flat **gaskets** are used to positively seal against product leakage.

The one piece **frame protecting ring / follower plate** is designed to provide uniform flow and reduce pre-swirl into the impeller. This component is manufactured in abrasion-resistant hard irons for long wear life.

The extra heavy **wall thickness** and special volute design extends wear life.

This closed-type **impeller** with extra thick shroud and vanes is designed to maintain excellent performance characteristics throughout its wear life.

The **impeller** is keyed to the shaft and the assembly is fully loaded by the **impeller nut**.

The **shaft** is fully isolated from the pumpage.

The **expeller** is optimized for improved dynamic sealing operation. The Wilfley dynamic seal eliminates the need for continuous seal water, backup packing, or mechanical seals.

The centrifugally operated **check valve** provides a seal at shut-down and opens the seal at start-up to eliminate any rubbing contact while the pump is operating.

The **crane assembly** (not illustrated) allows for the case to be opened or removed quickly without using separate lifting equipment or disturbing the process piping (sizes 3"-8").

Flush port capability

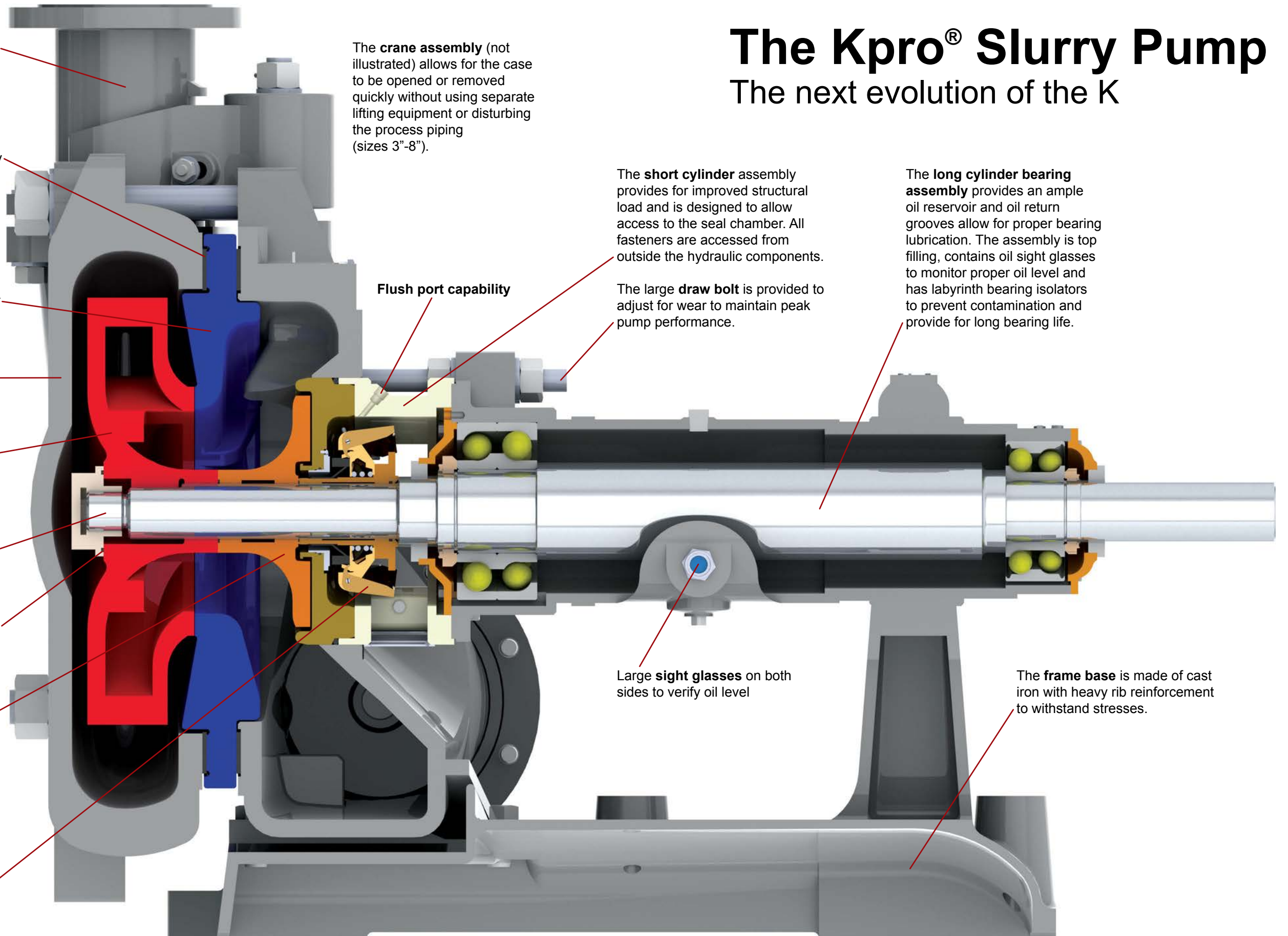
The **short cylinder** assembly provides for improved structural load and is designed to allow access to the seal chamber. All fasteners are accessed from outside the hydraulic components.

The large **draw bolt** is provided to adjust for wear to maintain peak pump performance.

The **long cylinder bearing assembly** provides an ample oil reservoir and oil return grooves allow for proper bearing lubrication. The assembly is top filling, contains oil sight glasses to monitor proper oil level and has labyrinth bearing isolators to prevent contamination and provide for long bearing life.

Large **sight glasses** on both sides to verify oil level

The **frame base** is made of cast iron with heavy rib reinforcement to withstand stresses.



General Installation Recommendations and Sump Dimensions

This list will help establish specific pumping conditions:

- Liquid
- Specific Gravity (of pumpage)
- Percent solids (if any)
- Capacity (flow rate)
- Total head (pressure)
- NPSH available
- Temperature
- Viscosity
- Maximum suction pressure
- Minimum suction pressure

Choosing Pump Location

The following recommendations may be helpful when choosing the best location for your pump:

- Locate the pump as close to the liquid source as practical so that the suction pipe is short and direct with a minimum of elbows, fittings and valves.
- Place the pump in a location so that the unit is accessible for inspection during operation as well as for maintenance operations involving removal and disassembly.

Foundation

The foundation should be sufficiently substantial to absorb any vibration and to form a permanent, rigid support. A concrete foundation on a solid base is satisfactory. Foundation bolts of the proper size should be embedded in the concrete located by the outline drawing.

Alignment

The pump and motor are aligned at the factory before shipment. Re-alignment may be necessary after the complete unit has been leveled on the foundation and after the foundation bolts have been tightened. Explicit directions for checking and aligning the pump components may be found in the Hydraulic Institute Standards

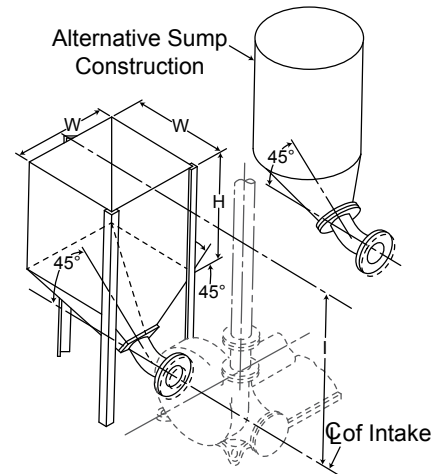
Intake Sump

It is desirable to feed the Wilfley pump by means of sump tank or feed box placed as close to the pump as possible. Recommended sump sizes are given below. When the feed to the pump is increased or decreased, the material in the sump simply seeks a higher or lower level, respectively. Hopper bottom sumps are much more satisfactory than flat bottom sumps.

A sloping pipe from the intake sump into the pump is particularly desirable when handling materials that settle quickly, such as concentrates and coarse sands, or when the quantity is small for the size of the intake pipe and pump. Long suction pipes require sufficient velocity in the pipe to prevent setting.

Suction Piping

Suction pipe may be connected to either or both sides of the pump and need not be disturbed to change the pumping parts or bearing unit.



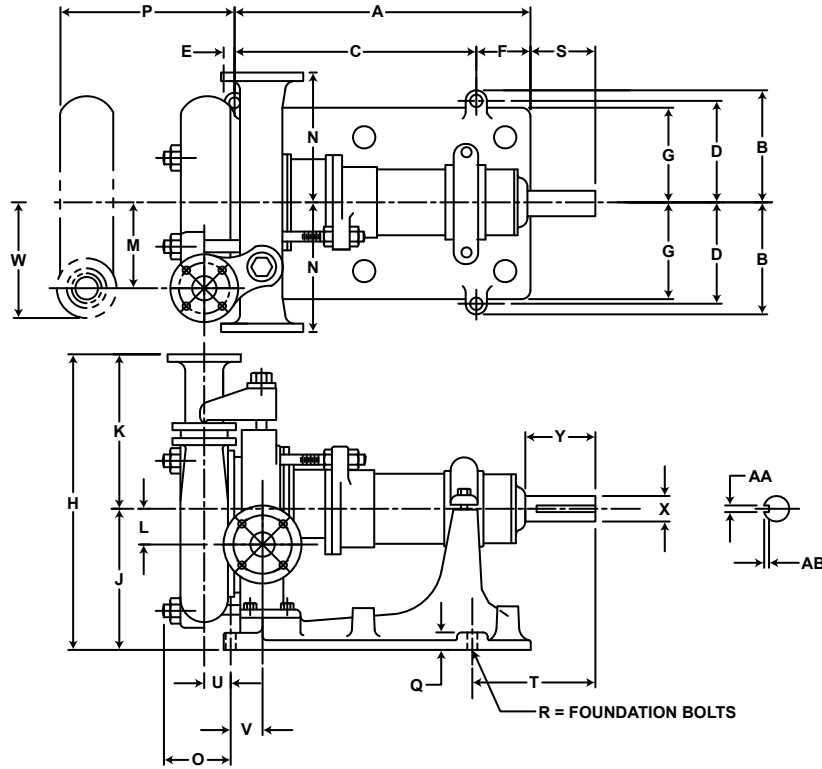
It is preferred that the sump tank is designated for a minimum of 3 minutes retention time.

Sump Dimensions

Dimensions in inches (centimeters)

Pump Size	1 & 1½	2 & 2½	3	4	5	6	8
W	18 (46)	24 (61)	30 (76)	36 (92)	48 (122) 42 Min.	60 (152) 48 Min.	72 (183) 60 Min.
H	36 (92)	36 (92)	42 (107)	48 (122)	54 (137)	66 (168)	72 (183)
L	46 (117)	57 (145)	68 (173)	79 (201)	96 (244) 90 Min.	118 (300) 106 Min.	135 (343) 123 Min.

Bare Pump



Dimensions in inches (Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H ¹	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	AA	AB
1	1	2	28 ³ / ₄	8 ¹ / ₄	23 ³ / ₄	7	1 ¹ / ₄	4 ¹ / ₂	6 ¹ / ₂	21	10	11	1 ¹ / ₂	5 ¹ / ₄	10 ¹ / ₄	4 ³ / ₈	9	1 ¹ / ₂	3 ¹ / ₄	2 ¹ / ₂	7	1 ¹ / ₄	3 ³ / ₈	7	1 ¹ / ₈	3 ¹ / ₄	3 ¹ / ₈	3 ¹ / ₈
1 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	28 ³ / ₄	8 ¹ / ₄	23 ³ / ₄	7	1 ¹ / ₄	4 ¹ / ₂	6 ¹ / ₂	21	10	11	1 ¹ / ₂	5 ¹ / ₄	10 ¹ / ₄	4 ³ / ₈	9	1 ¹ / ₂	3 ¹ / ₄	2 ¹ / ₂	7	1 ¹ / ₄	3 ³ / ₈	7 ¹ / ₂	1 ¹ / ₈	3 ¹ / ₄	3 ¹ / ₈	3 ¹ / ₈
2	2	4	30 ³ / ₄	9 ¹ / ₄	26 ³ / ₄	8 ¹ / ₄	1 ¹ / ₄	4 ³ / ₈	8	25 ¹ / ₂	11 ¹ / ₂	13 ¹ / ₂	1 ³ / ₄	6 ¹ / ₂	11 ¹ / ₄	6 ¹ / ₄	11	1 ³ / ₄	3 ¹ / ₄	4 ¹ / ₈	8 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	8 ¹ / ₄	1 ¹ / ₈	4 ¹ / ₂	3 ¹ / ₈	3 ¹ / ₈
2 ¹ / ₂	2 ¹ / ₂	4	30 ³ / ₄	9 ¹ / ₄	26 ³ / ₄	8 ¹ / ₄	1 ¹ / ₄	4 ³ / ₈	8	25 ¹ / ₂	11 ¹ / ₂	13 ¹ / ₂	1 ³ / ₄	6 ¹ / ₂	11 ¹ / ₄	6 ¹ / ₄	11	1 ³ / ₄	3 ¹ / ₄	4 ¹ / ₈	8 ¹ / ₂	2 ³ / ₈	3 ³ / ₈	9 ¹ / ₄	1 ¹ / ₈	4 ¹ / ₂	3 ¹ / ₈	3 ¹ / ₈
3	3	5	29 ³ / ₄	11 ¹ / ₄	26 ³ / ₄	9 ¹ / ₄	1 ¹ / ₄	2 ³ / ₄	9 ¹ / ₄	27 ¹ / ₂	12 ¹ / ₄	14 ¹ / ₄	3 ¹ / ₄	7 ¹ / ₄	13 ¹ / ₂	8	15 ¹ / ₄	1 ³ / ₄	3 ¹ / ₈	3 ¹ / ₈	6 ¹ / ₈	4 ¹ / ₈	3 ³ / ₈	11 ¹ / ₄	2 ¹ / ₂	4 ¹ / ₂	1 ¹ / ₂	1 ¹ / ₄
4	4	6	32 ¹ / ₄	12 ¹ / ₈	26	11 ¹ / ₈	1 ¹ / ₄	6 ¹ / ₄	10 ¹ / ₄	35 ¹ / ₂	15 ¹ / ₄	19 ¹ / ₄	5	9 ¹ / ₄	15	8 ¹ / ₄	15	2 ¹ / ₂	3 ¹ / ₄	9	15 ¹ / ₄	4	5 ¹ / ₄	14 ¹ / ₂	2 ¹ / ₈	6 ¹ / ₈	1 ¹ / ₂	1 ¹ / ₄
5	5	8	36	14	30	12 ¹ / ₂	1 ¹ / ₂	6	12	39 ¹ / ₂	18	21 ¹ / ₄	8	11 ¹ / ₄	15 ¹ / ₂	8	23	2	7 ¹ / ₈	9 ¹ / ₄	15 ¹ / ₄	3 ¹ / ₄	7 ¹ / ₄	16 ¹ / ₄	2 ³ / ₈	7 ³ / ₈	3 ¹ / ₈	3 ¹ / ₈
6	6	10	40 ¹ / ₄	15	35 ¹ / ₄	13 ¹ / ₂	1 ¹ / ₂	5 ³ / ₈	13 ¹ / ₂	50 ³ / ₄	18 ¹ / ₄	31	5 ¹ / ₂	12 ¹ / ₄	18 ¹ / ₄	9	19	2 ¹ / ₄	7 ¹ / ₈	10 ¹ / ₄	15 ¹ / ₄	3 ³ / ₈	8 ¹ / ₄	16 ¹ / ₄	2 ³ / ₈	7 ³ / ₈	3 ¹ / ₈	3 ¹ / ₈
8	8	12	48 ³ / ₄	20	40	18 ¹ / ₂	1 ¹ / ₂	8 ³ / ₄	17 ¹ / ₄	56 ¹ / ₂	22	34 ¹ / ₄	9 ¹ / ₂	13 ³ / ₄	20	12 ¹ / ₄	25	3	7 ¹ / ₈	10 ¹ / ₄	19 ¹ / ₄	4 ³ / ₈	11 ¹ / ₂	19 ¹ / ₄	3 ³ / ₈	8 ¹ / ₈	3 ¹ / ₄	3 ¹ / ₈

Dimensions in millimeters (Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H ¹	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	AA	AB
1	25	51	718	210	603	178	32	114	165	533	254	279	38	133	260	117	229	38	19	64	178	29	90	178	37	83	10	5
1 ¹ / ₂	38	64	718	210	603	178	32	114	165	533	254	279	38	140	260	117	229	38	19	64	178	32	90	191	37	83	10	5
2	51	102	781	251	670	219	32	111	203	638	294	343	44	165	298	159	279	44	19	105	216	60	78	225	43	114	10	5
2 ¹ / ₂	38	102	781	251	670	219	32	111	203	638	294	343	44	165	298	159	279	44	19	105	216	67	78	232	43	114	10	5
3	76	127	752	283	683	251	32	70	235	699	324	375	89	200	343	203	387	44	19	100	170	103	808	295	54	114	13	6
4	102	152	819	325	660	294	32	159	276	902	403	498	127	248	381	222	381	64	19	229	387	102	140	368	56	164	13	6
5	127	203	914	356	762	318	38	152	305	1000	457	543	203	289	394	203	584	51	22	235	387	83	191	416	67	183	16	8
6	152	254	1029	381	892	343	38	137	343	1289	476	787	140	311	479	229	483	57	22	264	400	86	213	429	67	183	16	8
8	203	305	1238	508	1016	470	38	222	438	1438	559	879	241	349	508	311	635	76	22	270	492	121	292	498	81	211	19	10

Dimension P is the minimum clearance for removing wearing parts. Provide ample clearance at this point for removing parts as they are heavy.

Dimension K is the distance from center of pump to outside of discharge sleeve.

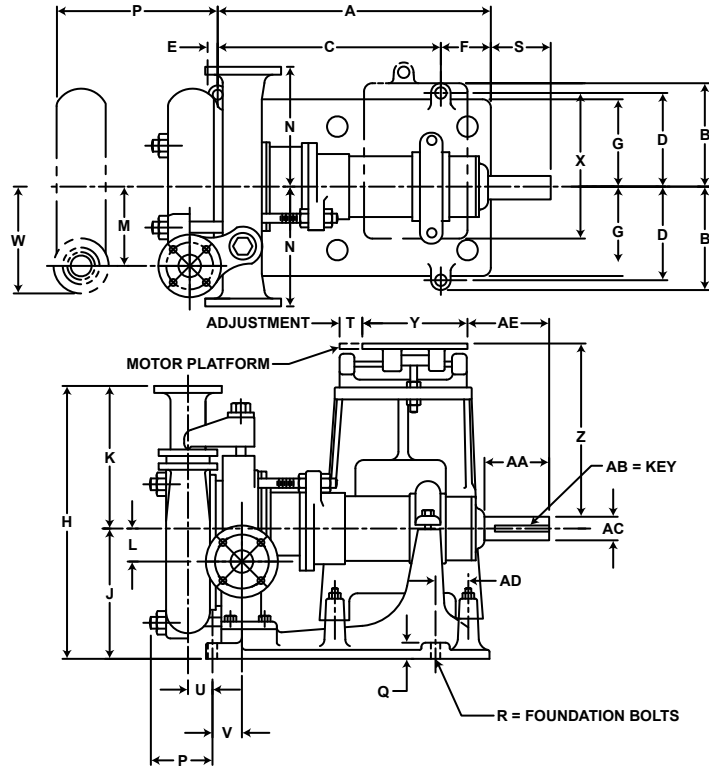
Dimension N is the distance from center of pump to outside of suction flange. The feed may be from either side.

Use 1¹/₂" pipe sleeves around foundation bolts and allow 1/2" for grouting. Place valves in suction and discharge lines near pump.

The suction line should be short, free from elbows if possible, and sloping when heavy materials or large particles are to be pumped.

1. Dimension H is the maximum height of the pump.

Overhead V-Belt Driven



Dimensions in inches (Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H ¹	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	1	2	28 ³ / ₄	8 ³ / ₄	23 ³ / ₄	7	1 ¹ / ₄	4 ¹ / ₂	6 ¹ / ₂	21	10	11	1 ¹ / ₂	5 ¹ / ₄	10 ¹ / ₄	4 ³ / ₈	10 ¹ / ₂	1 ¹ / ₂	3	2 ¹ / ₂	3	1 ¹ / ₂	3 ³ / ₈	7	12 ¹ / ₂	10 ¹ / ₄	18 ¹ / ₈	3 ¹ / ₄	5 ¹ / ₈ x ³ / ₈	1 ¹ / ₂	3	3 ¹ / ₄
1 ¹ / ₂	1 ¹ / ₂	2 ¹ / ₂	28 ³ / ₄	8 ³ / ₄	23 ³ / ₄	7	1 ¹ / ₄	4 ¹ / ₂	6 ¹ / ₂	21	10	11	1 ¹ / ₂	5 ¹ / ₄	10 ¹ / ₄	4 ³ / ₈	10 ¹ / ₂	1 ¹ / ₂	3	2 ¹ / ₂	3	1 ¹ / ₂	3 ³ / ₈	7 ¹ / ₂	12 ¹ / ₂	10 ¹ / ₄	18 ¹ / ₈	3 ¹ / ₄	5 ¹ / ₈ x ³ / ₈	1 ¹ / ₂	3	3 ¹ / ₄
2	2	4	30 ³ / ₄	9 ³ / ₄	26 ³ / ₈	8 ³ / ₄	4 ³ / ₄	4 ³ / ₄	8	25 ¹ / ₂	11 ¹ / ₂	13 ¹ / ₂	1 ³ / ₄	6 ¹ / ₂	11 ¹ / ₄	6 ¹ / ₄	11	1 ³ / ₄	4 ¹ / ₂	3	2 ¹ / ₂	3 ³ / ₈	8 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₄	16 ¹ / ₈	4 ¹ / ₂	5 ¹ / ₈ x ³ / ₈	1 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₈	
2 ¹ / ₂	2 ¹ / ₂	4	30 ³ / ₄	9 ³ / ₄	26 ³ / ₈	8 ³ / ₄	4 ³ / ₄	4 ³ / ₄	8	25 ¹ / ₂	11 ¹ / ₂	13 ¹ / ₂	1 ³ / ₄	6 ¹ / ₂	11 ¹ / ₄	6 ¹ / ₄	11	1 ³ / ₄	4 ¹ / ₂	3	2 ¹ / ₂	3 ³ / ₈	9 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₄	16 ¹ / ₈	4 ¹ / ₂	5 ¹ / ₈ x ³ / ₈	1 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₈	
3	3	5	29 ³ / ₄	11 ¹ / ₄	26 ³ / ₈	9 ³ / ₄	2 ¹ / ₂	2 ¹ / ₂	9 ¹ / ₄	27 ¹ / ₂	12 ¹ / ₂	14 ¹ / ₂	3 ¹ / ₂	7 ¹ / ₂	13 ¹ / ₂	8	15 ¹ / ₄	1 ³ / ₄	3 ³ / ₈	3	4 ¹ / ₂	3 ³ / ₈	11 ¹ / ₂	17 ¹ / ₂	17 ¹ / ₄	16 ¹ / ₈	4 ¹ / ₂	1 ¹ / ₂ x ¹ / ₂	2 ¹ / ₂	3 ¹ / ₄	4 ¹ / ₂	
4	4	6	32 ¹ / ₄	12 ¹ / ₈	26	11 ¹ / ₈	6 ¹ / ₄	6 ¹ / ₄	10 ¹ / ₂	35 ¹ / ₂	15 ¹ / ₂	19 ¹ / ₂	5	9 ¹ / ₂	15	8 ¹ / ₂	15	2 ¹ / ₂	3 ¹ / ₄	9	4	4	5 ¹ / ₂	14 ¹ / ₂	22	20	26 ¹ / ₂	6 ¹ / ₂	1 ¹ / ₂ x ¹ / ₂	2 ¹ / ₂	4 ¹ / ₂	7 ¹ / ₂
5	5	8	36	14	30	12 ¹ / ₂	6	6	12	39 ¹ / ₂	18	21 ¹ / ₂	8	11 ¹ / ₂	15 ¹ / ₂	8	23	2	7 ¹ / ₂	9 ¹ / ₄	7	3 ¹ / ₄	7 ¹ / ₂	16 ¹ / ₂	22 ¹ / ₂	22	30	7 ¹ / ₂	5 ¹ / ₈ x ³ / ₈	2 ¹ / ₂	4 ¹ / ₂	8
6	6	10	40 ¹ / ₂	15	35 ¹ / ₂	13 ¹ / ₂	5 ¹ / ₂	5 ¹ / ₂	13 ¹ / ₂	49 ¹ / ₂	18 ¹ / ₂	31	5 ¹ / ₂	12 ¹ / ₂	18 ¹ / ₂	9	19	2 ¹ / ₂	7 ¹ / ₂	10 ¹ / ₂	6 ¹ / ₂	3 ¹ / ₂	8 ¹ / ₂	16 ¹ / ₂	23 ¹ / ₄	24	26	7 ¹ / ₂	5 ¹ / ₈ x ³ / ₈	2 ¹ / ₂	3 ¹ / ₄	12
8	8	12	48 ³ / ₄	20	40	18 ¹ / ₂	8 ¹ / ₂	8 ¹ / ₂	17 ¹ / ₂	56 ¹ / ₂	22	34 ¹ / ₂	9 ¹ / ₂	13 ¹ / ₂	20	12 ¹ / ₂	25	3	7 ¹ / ₂	10 ¹ / ₂	11	4 ¹ / ₂	11 ¹ / ₂	19 ¹ / ₂	28 ¹ / ₂	36	26	8 ¹ / ₂	3 ¹ / ₄ x ³ / ₄	3 ¹ / ₂	6 ¹ / ₂	8 ¹ / ₂

Dimensions in millimeters

(Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H ¹	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	25	51	718	210	603	178	32	114	165	533	254	279	38	133	260	117	267	38	19	64	76	29	90	178	318	273	459	83	10x10	37	76	95
1 ¹ / ₂	38	64	718	210	603	178	32	114	165	533	254	279	38	140	260	117	267	38	19	64	76	32	90	191	318	273	459	83	10x10	37	76	95
2	51	102	781	251	670	219	111	111	203	638	294	343	44	165	298	159	279	44	19	105	76	60	78	225	448	438	427	114	10x10	43	43	132
2 ¹ / ₂	38	102	781	251	670	219	111	111	203	641	294	346	44	165	298	159	279	44	19	105	76	67	78	232	448	438	427	114	10x10	43	43	132
3	76	127	752	283	683	251	70	70	235	699	324	375	89	200	343	203	387	44	19	100	76	103	808	295	448	438	427	114	13x13	54	19	113
4	102	152	819	325	660	294	159	159	276	902	403	498	127	248	381	222	381	64	19	229	102	102	140	368	559	508	664	164	13x13	56	108	184
5	127	203	914	356	762	318	152	152	305	1000	457	543	203	289	394	203	584	51	22	235	178	83	191	416	568	559	762	183	16x16	67	105	203
6	152	254	1029	381	892	343	137	137	343	1264	476	787	140	311	479	229	483	57	22	264	171	86	213	429	591	610	660	183	16x16	67	95	305
8	203	305	1238	508	1016	470	222	222	438	1438	559	879	241	349	508	311	635	76	22	270	279	121	292	498	724	914	660	211	19x19	81	165	210

Dimension P is the minimum clearance for removing wearing parts. Provide ample clearance at this point for removing parts as they are heavy.

Dimension K is the distance from center of pump to outside of discharge sleeve.

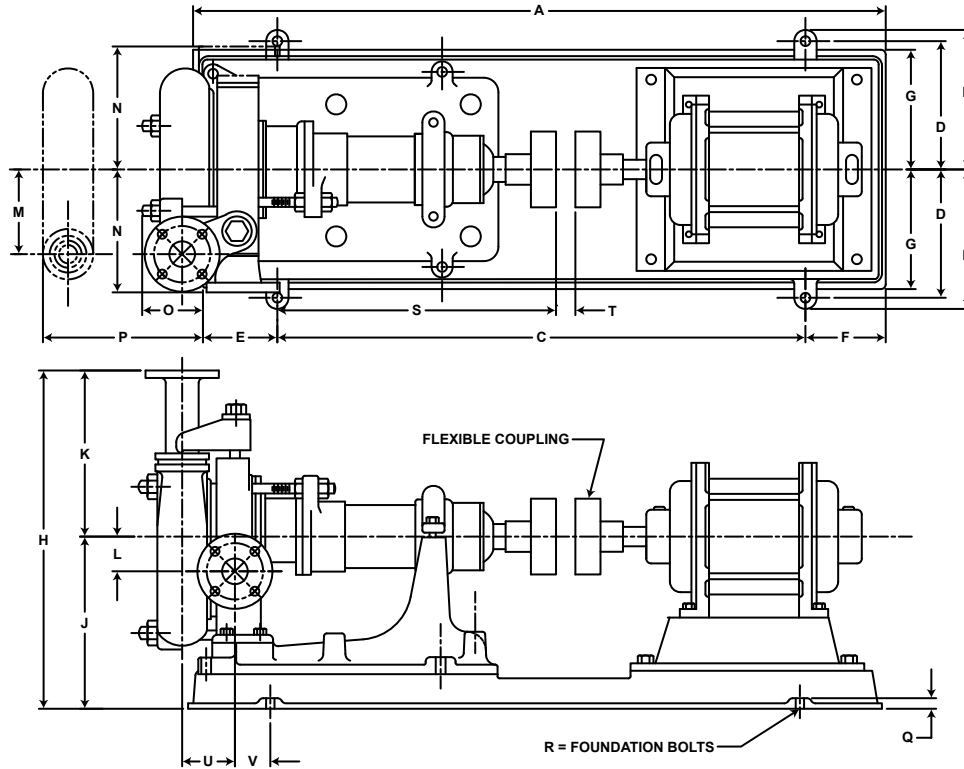
Dimension N is the distance from center of pump to outside of suction flange. The feed may be from either side.

Use 1¹/₂" pipe sleeves around foundation bolts and allow 1/2" for grouting. Place valves in suction and discharge lines near pump.

The suction line should be short, free from elbows if possible, and sloping when heavy materials or large particles are to be pumped.

1. Dimension H is the maximum height of the pump.

Direct Driven



Dimensions in inches (Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H'	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	1	2	59	11¼	37	10	11	11	9%	24	13	11	1½	5¼	10¼	2	7%	1½	¾	22%	1½	4¼	4¼
1½	1½	2½	59	11¼	37	10	11	11	9%	24	13	11	1½	5½	10¼	2	7%	1½	¾	22%	1½	4¼	4¼
2	2	4	65½	13%	42%	11¼	12	10¼	11%	28½	15	13½	1¼	6½	11¼	3%	9%	1%	¾	25%	1½	5½	6½
2½	2½	4	65½	13%	42%	11¼	12	10¼	11%	28%	15	13%	1¼	6½	11¼	3%	9%	1%	¾	25%	1½	5½	6½
3	3	5	67	14%	42%	13¼	12¼	12	13%	31	16¼	14%	3½	7%	13½	5%	13%	1%	¾	23%	1½	7%	5½
4	4	6	80½	15%	46%	14½	16	18¼	14%	40	20%	19%	5	9%	15	6¼	12½	1%	¾	27%	1½	9½	8
5	5	8	91	17½	63	16	14	14	15%	43%	22	21%	8	11%	15½	3%	20	1½	¾	34	1¼	10¼	3%
6	6	10	93½	18½	61	17	16¼	16¼	16%	55%	23%	31	5½	12¼	18%	5%	17¼	1%	¾	37%	1¼	11¼	4%
8	8	12	114	24	76%	22%	24%	12½	21%	62%	28%	34%	9½	13%	20	9¼	22	2¼	¾	37%	1¼	16¼	10¼

Dimensions in millimeters (Not for Construction)

Size	Discharge	Suction	A	B	C	D	E	F	G	H'	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	25	51	1499	286	940	254	279	279	238	610	330	279	38	133	260	51	194	38	19	568	29	119	122
1½	38	64	1499	286	940	254	279	279	238	610	330	279	38	140	260	51	194	38	19	568	29	122	122
2	51	102	1664	333	1086	298	305	273	292	724	381	343	44	165	298	86	232	48	19	654	38	138	157
2½	64	102	1664	333	1086	298	305	273	292	727	381	346	44	165	298	86	232	48	19	654	38	144	157
3	76	127	1702	371	1086	337	311	305	333	787	413	375	89	200	343	137	352	48	19	608	38	200	148
4	102	152	2045	403	1175	368	406	464	359	1016	518	498	127	248	381	159	318	48	19	705	38	241	203
5	127	203	2311	445	1600	406	356	356	391	1102	559	543	203	289	394	95	508	38	22	864	44	273	95
6	152	254	2375	470	1549	432	413	413	422	1416	603	787	140	311	479	146	438	48	22	962	44	298	143
8	203	305	2896	610	1949	568	629	318	549	1597	718	879	241	349	508	235	559	57	22	956	44	413	260

Dimension P is the minimum clearance for removing wearing parts. Provide ample clearance at this point for removing parts as they are heavy.

Dimension K is the distance from center of pump to outside of discharge sleeve.

Dimension N is the distance from center of pump to outside of suction flange. The feed may be from either side.

Use 1½" pipe sleeves around foundation bolts and allow ½" for grouting. Place valves in suction and discharge lines near pump.

The suction line should be short, free from elbows if possible, and sloping when heavy materials or large particles are to be pumped.

1. Dimension H is the maximum height of the pump.

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