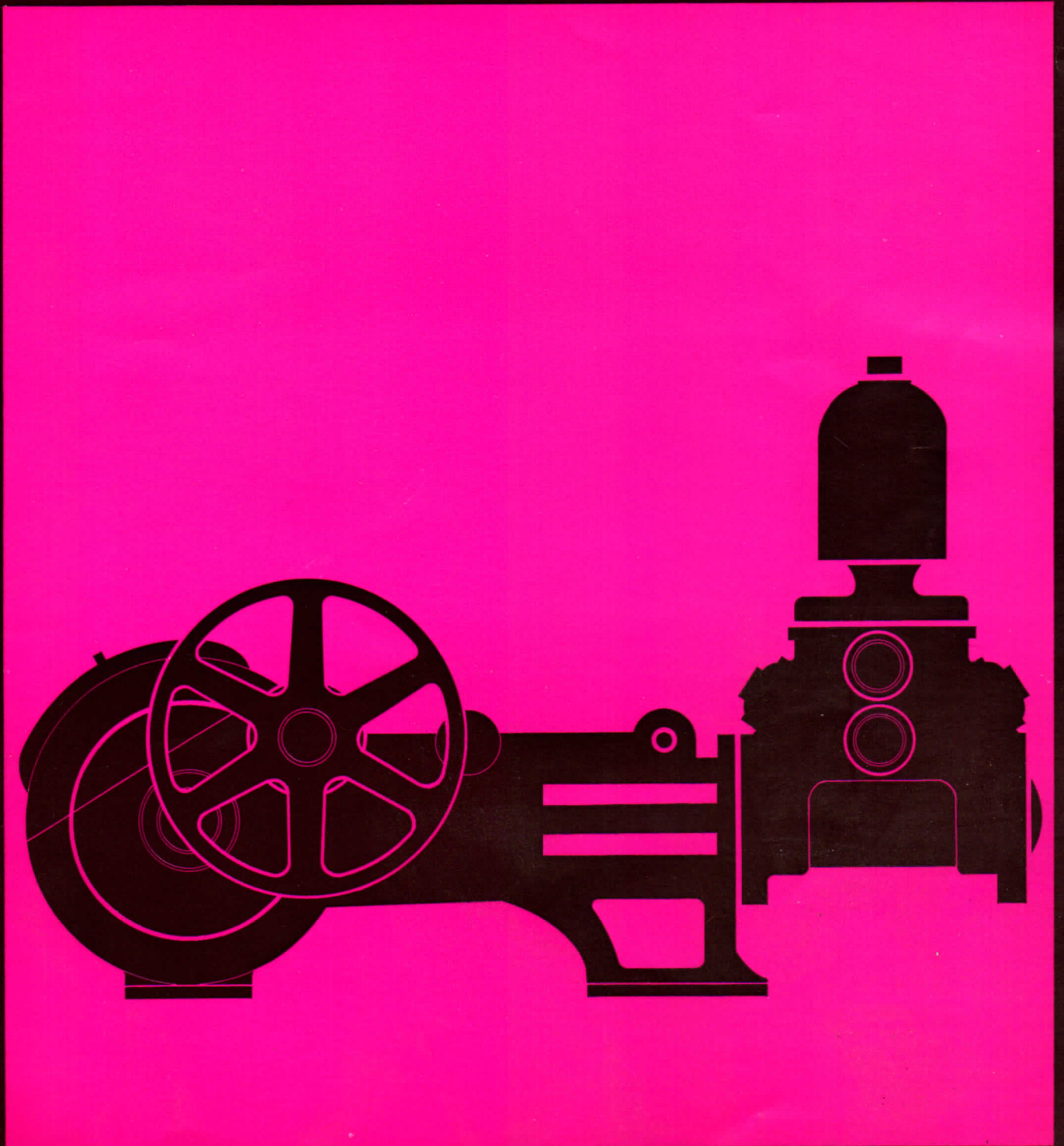
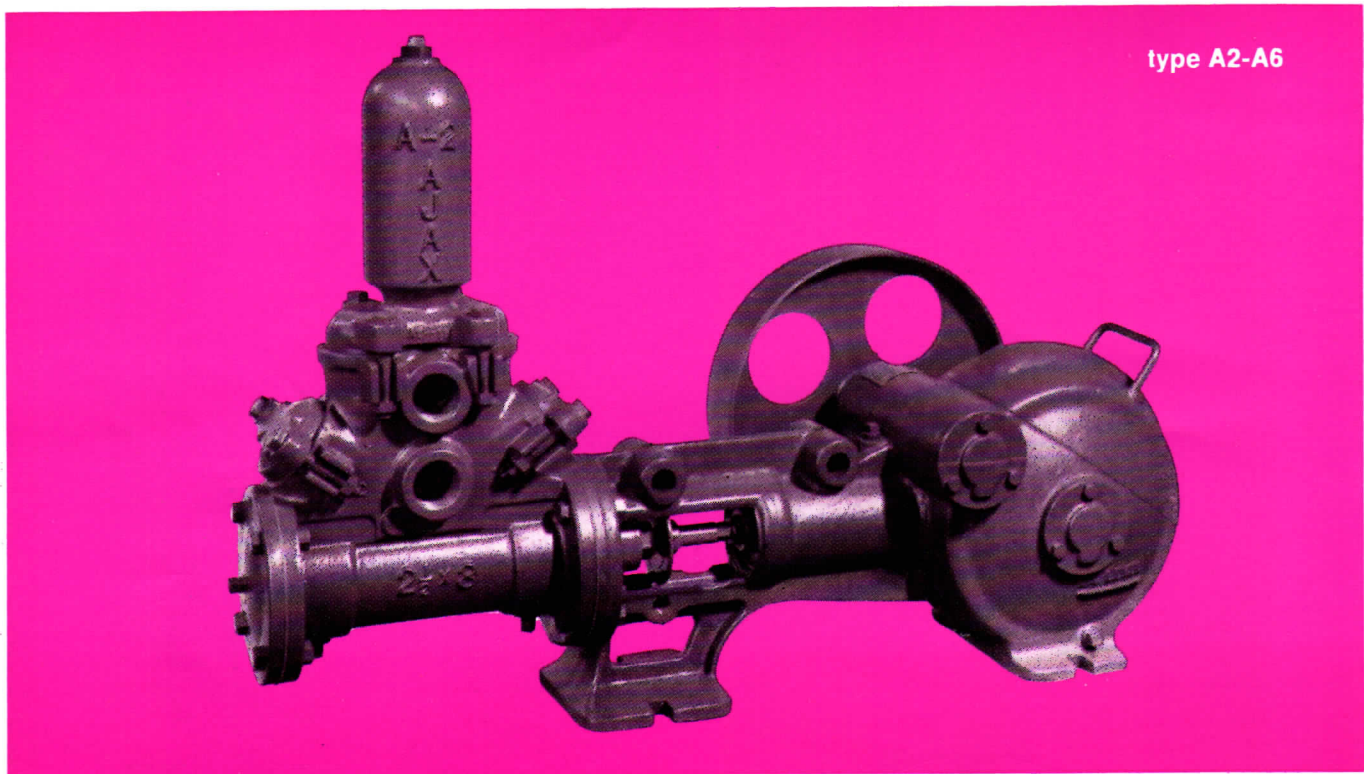




ajax self-oiling piston pumps



features



type A2-A6

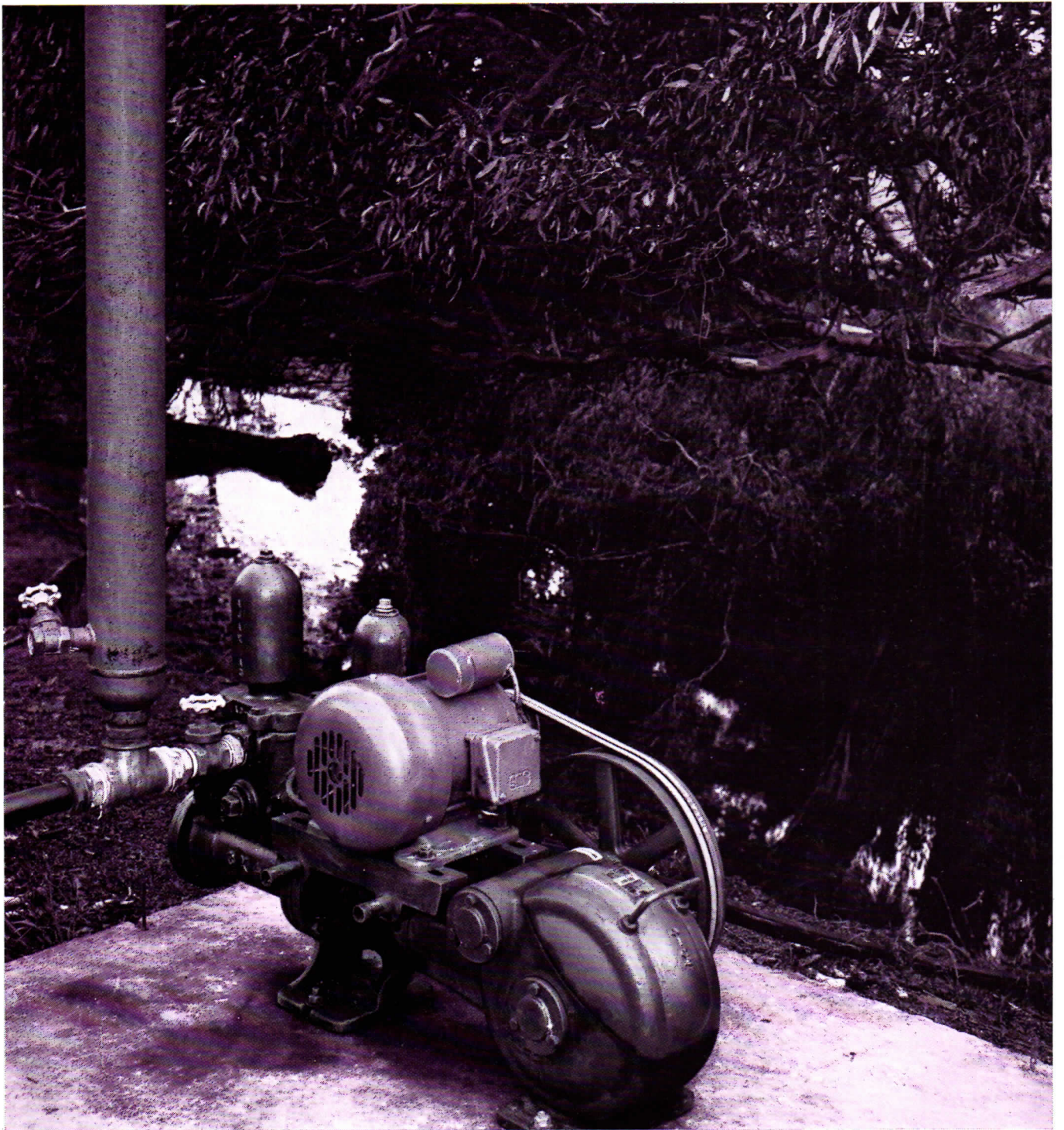
The Ajax Self-Oiling Piston Pump is a heavy duty, robust, reliable pump suitable for pumping long distances and against high heads. The simplicity and strength of the components enables the piston pump to run for long periods without attention, also the design allows for easy service in the field by inexperienced operators. There are many examples of original pumps supplied 50 years ago which are still in operation, some under exacting and rigorous conditions.

Medium Pressure Type pumps suitable for operation against heads of up to 300 feet. Will operate on long suction lines and spearpoints.

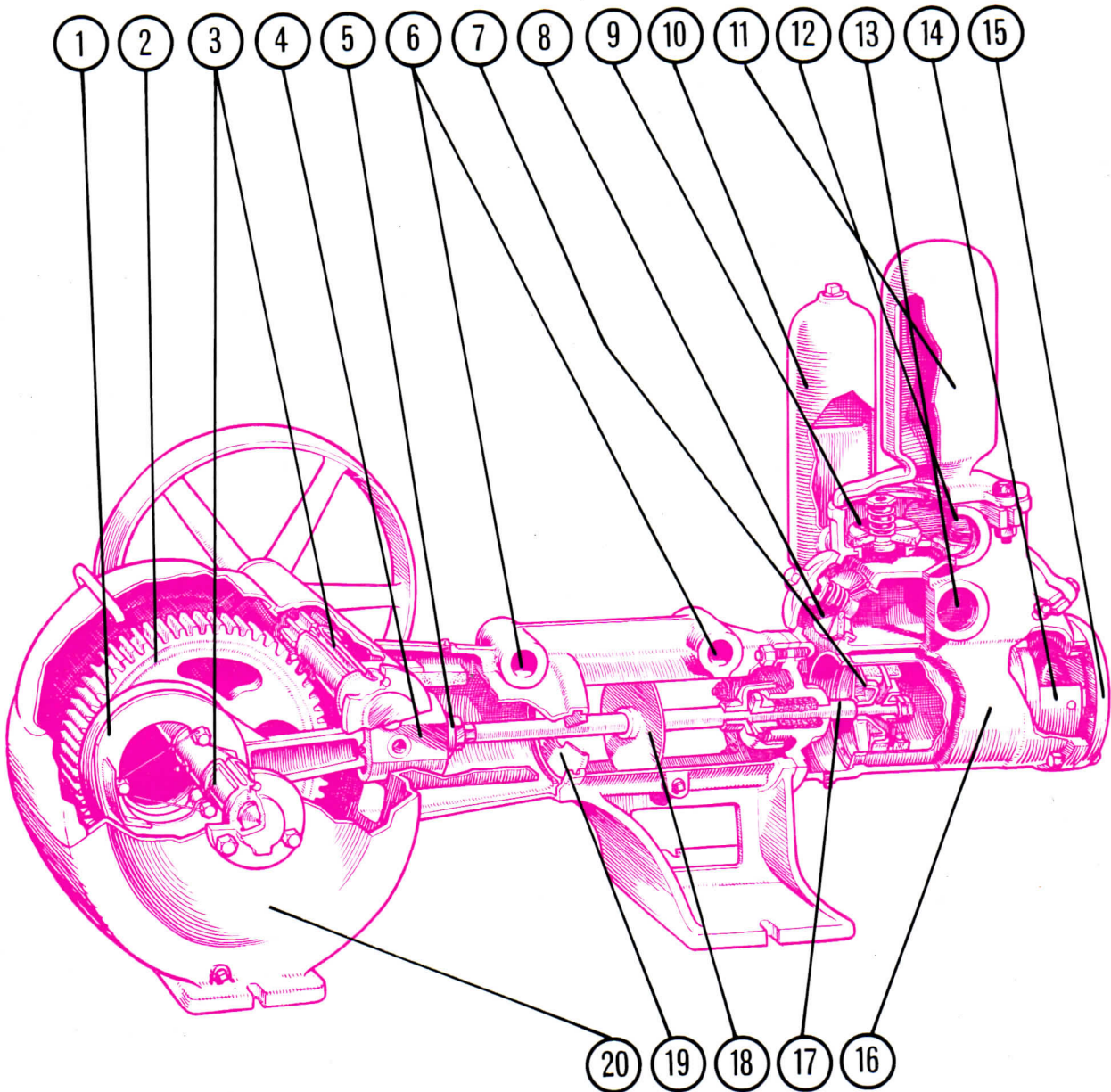
High Pressure Type pumps suitable for heads to 575 feet.

Special Type pumps can be sup-

plied with parts in contact with liquid made from suitable metals for handling acids, foodstuffs, etc. All valves, liners and plungers are readily accessible and can be easily replaced. Special valves and packed piston can also be supplied.



specifications



Medium Pressure Pump A2 to A6

Lubrication The pump is entirely self-lubricating. Oil is carried up from the base 20 by the driving gear 2 and is distributed to every working part, from where it returns to the reservoir.

Air Chamber To give a smooth flow to the discharge line a cast iron air chamber 11 is provided. It is free of any pipe connections and by slackening four bolts can be removed to disclose the discharge valves.

Vacuum and Priming Chamber 10 This chamber is provided for the suction line and is so constructed that a division in the centre of the chamber holds the water on a level above the discharge valves. This ensures that the pump retains its prime at all times.

Cylinder Body 16 One substantial close grained iron casting forms the cylinder and valve chambers and is fitted with removable brass liner 14. The liner is attached to the cylinder head 15 and can be easily removed by means of withdrawal bolts. Suction 8 and discharge 9 valves are accessible for inspection without removing pipe connections. Suction 13 and discharge 12 may be connected to either side of the pump.

Valves The valves are of the well proven rubber disc type on bronze seats with bronze stems and springs.

Piston 7 Pumps for cold water are fitted with selected hydraulic Cup Leathers with cast iron centre and backing plates. The assembly is fitted to the shouldered piston rod and positively locked in position with two nuts. Packed Piston or special cups supplied as optional extras for special purposes.

Piston Rod 17 High tensile manganese bronze is used to resist

wear and corrosion. A large deflector 18 is fitted to keep water out of gear case. The piston rod and piston can be removed without dismantling the power end of the pump by withdrawing it from the cross head 4 having slackened the lock nut 5.

Power End The gear case, oil reservoir and cross head guide are all integral in one iron casting and form the base of the pump. The eccentric bearing of the connecting rod 1 is of exceptionally large diameter to minimise wear. Gear and pinion are supported on both sides by large cast iron bearings 3. Cross head cover 19 is fitted to protect the lubrication system from dust and water. Gear ratio 5 to 1.

Motor Rail Mounting Bosses 6 are provided for convenient fitting of the motor rails.

specifications



High Pressure Pump, Type AH3

The general construction, though much more robust, is similar to that of the Medium Pressure Type. The following being the main features that vary:

Branches The suction branch is on the left hand when viewed from the driving end. The discharge branch is incorporated in the air chamber and may be moved to any of four positions.

Piston Pumps for cold water are fitted with selected hydraulic Cup Leathers. Boiler feed pumps are fitted with packed piston of gun-metal construction, packed with rubber insertion moulded rings.

Valves These are mounted on side pots and are readily accessible without removing pipe connections. AH3 Pumps for boiler feed duties are fitted with Ni-Resist valve seats and long lasting Silvanite discs.

Opposite page

Small Piston Pump, Type A1½

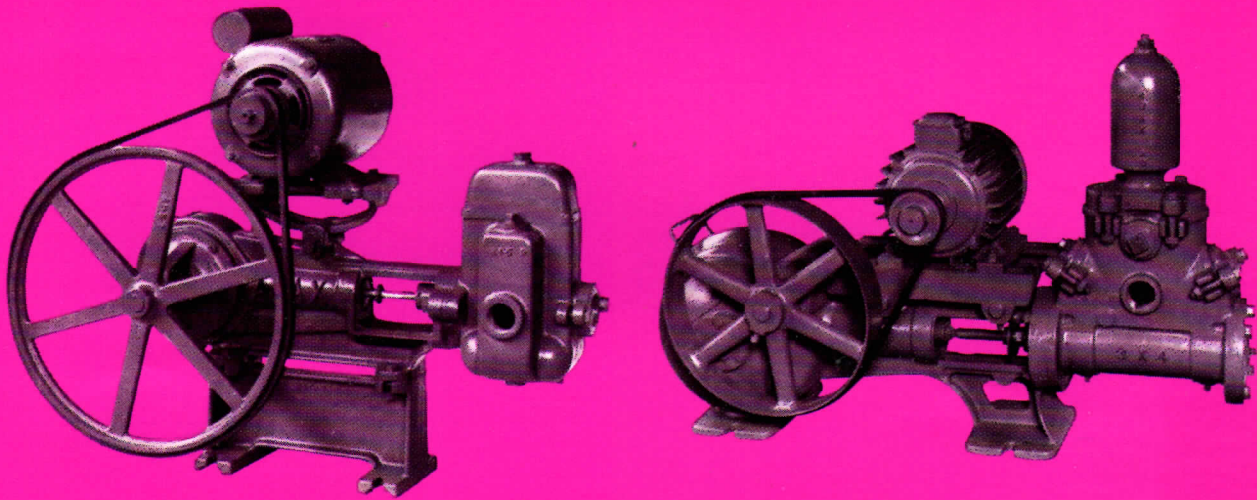
Ideal for home water supply from creeks, wells, spearpoints, etc., for filling overhead tanks, fire-fighting, watering gardens, tennis courts and greens with hoses or sprinklers.

Vee Belt Driven From Motor Motor Mounting Substantial slotted cast iron motor rails can be supplied. Almost any size of motor can be conveniently mounted on top of the pump, making the unit completely self-contained. The slotted rails provide adjustment for belt-tensioning.

Note on Performance Table opposite The H.P. figures given in the table are sufficient to start the pump under conditions equivalent to 75% the stated head. If starting conditions exceed 75% the stated head the next size motor should be used. Performances marked thus * obtainable with Series "G" pumps.

Type A1½

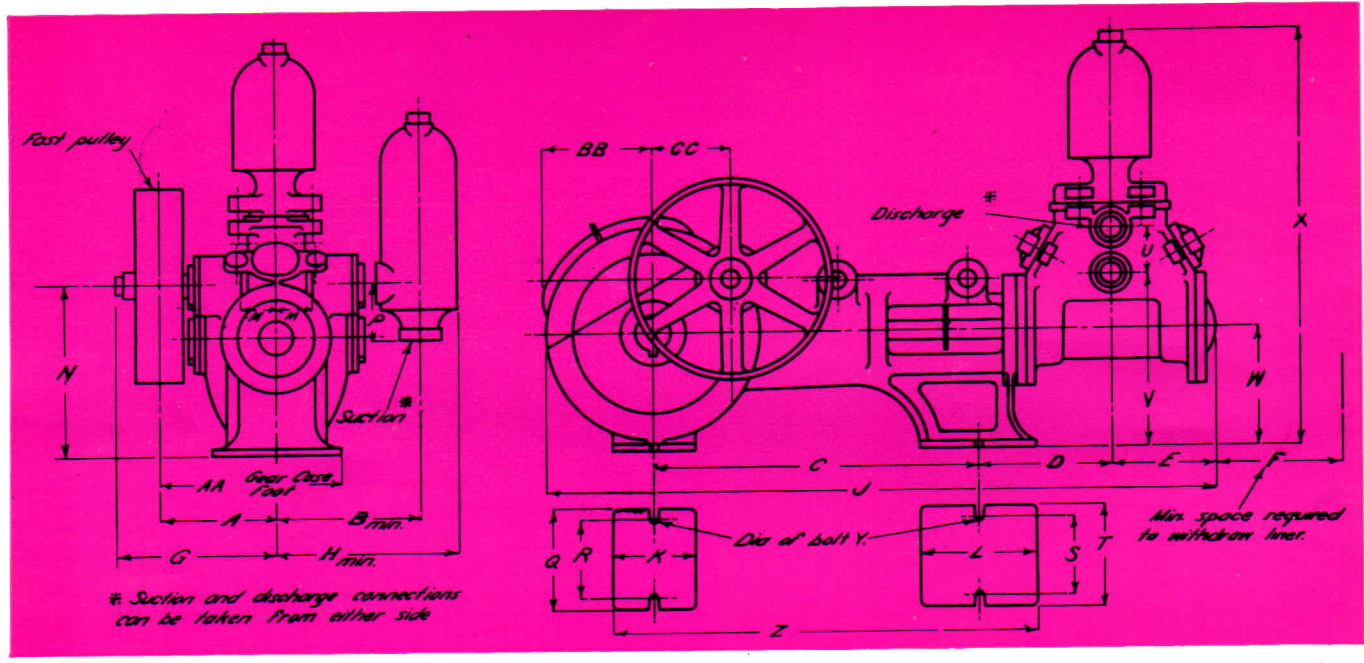
type A2-A6



Pump	Cylinder Dia. Inch	Stroke Inch	Speed R.P.M.	Capacity G.P.H.	Recommended Motor H.P.					
					Head					
					50 ft.	100 ft.	150 ft.	200 ft.	250 ft.	*300 ft.
A1½	1½	1¾	200	300	½	½	½	—	—	—
A2	2½	3	250	300	½	½	¾	¾	¾	—
			300	360	½	½	¾	¾	¾	—
			350	420	½	¾	¾	¾	¾	—
			*400	480	½	¾	¾	¾	1	—
			*450	540	½	¾	1	1	1½	—
A3	3	4	250	590	½	¾	1	1	1½	—
			300	710	¾	1	1	1½	1½	—
			350	825	¾	1	1	1½	2	—
			*400	940	¾	1	1½	1½	2	—
A4	4	5	200	1,085	¾	1	2	2	3	3
			275	1,495	¾	1½	2	3	3	4
			*350	1,900	1	2	3	4	4	5
A5	5	5	250	2,050	1	2	3	3	4	—
			300	2,460	1	2	3	4	5	—
			*325	2,660	1½	3	3	4	6	—
A6	6	6	200	2,860	1½	3	4	5	7½	—
			260	3,720	2	3	5	7½	7½	—
			*300	4,300	2	4	5	7½	10	—
					250 ft.	300 ft.	400 ft.	500 ft.	575 ft.	
AH3	3	5	250	730	2	2	3	4	5	—
			300	870	2	3	4	5	—	—

ajax self-oiling piston pumps

dimensions



Type	Suction and Discharge Size	A	B	C	D	E	F	G	H	J	K	L	M	N	P
A1½	1 and ¾ in.	5¼	—	8¾	5½	3½	3	6¾	3½	26½	2⅞	2⅞	—	8¾	—
A2	1¼ in.	6	5¾	15⅝	7⅞	5¾	8	7½	7¾	34½	4½	5½	2⅞	8¾	3½
A3	1½ in.	7¼	6⅞	20	8⅞	6⅞	9¾	8⅞	8⅞	42½	6½	6½	2½	10½	3½
A4	2 in.	8½	7½	26	10⅝	8½	10¾	12¼	8¾	54	6¼	9½	2⅞	13¼	4¼
A5	2½ in.	8½	9¾	26	11¾	9½	11⅞	12¼	12½	56	6¼	9½	3⅞	13¼	4¾
A6	3 in.	10¼	10¾	30¾	12⅞	10¼	15½	12½	13⅝	63¼	8	10	4⅞	15½	5½
AH3	1½ in.	8½	11½	26	10¾	8⅞	11	12¼	13½	54¾	6¼	9½	7¼	13¼	3½

Type	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	Pulley Dia.	Width	Shaft
A1½	5⅞	4¾	4¾	5⅞	2¼	8⅞	8⅞	15¼	¾	10½	8	4	0	14	1	1⅞
A2	8½	7	4½	6	2⅞	8¾	5½	23½	½	20⅝	10¼	5⅞	4½	12	2½	1
A3	10	8½	6½	8	3½	11⅞	7	27½	½	26½	12¼	7⅞	4⅞	14½	2½	1⅞
A4	11	9¼	8¾	10½	3¾	13⅞	8⅞	33½	½	33⅞	14	8⅞	6¾	16	4	1¼
A5	11	9¼	8¾	10½	4½	14¼	8⅞	38½	½	33⅞	14	8⅞	6¾	16	4	1¼
A6	13½	12¼	10½	12	5⅞	16¼	10¼	41½	⅝	39¾	17	10⅞	7⅝	20	4	1½
AH3	11	9¼	8¾	10½	12¾	7	8⅞	31½	½	33⅞	14	8⅞	6¾	16	4	1¼

NOTE: Discharge on AH3 comes from Air Chamber, which has 4 positions. Discharge is 3½ in. from centre line of Air Chamber.

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