



Air Pump

HYDRAULIC PA60 SERIES

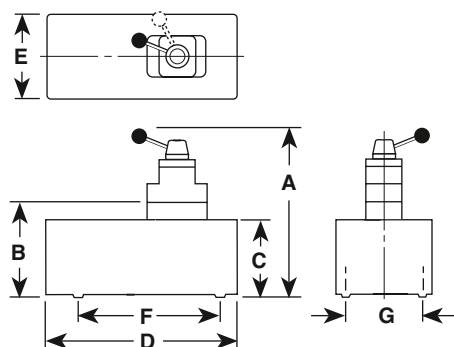
98 cm³/min.
Two-Speed

Two-speed pump for rapid oil delivery at low pressure quickly advances cylinder or tool.

- Equipped with air pressure regulator, air filter and lubricator.
- Serviceable air motor for economical repair.
- Internal relief valve protects circuit components.
- Permanently vented reservoir cap.



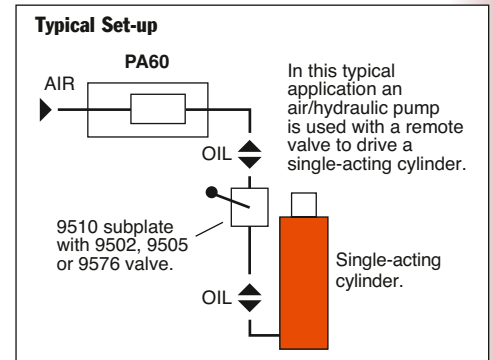
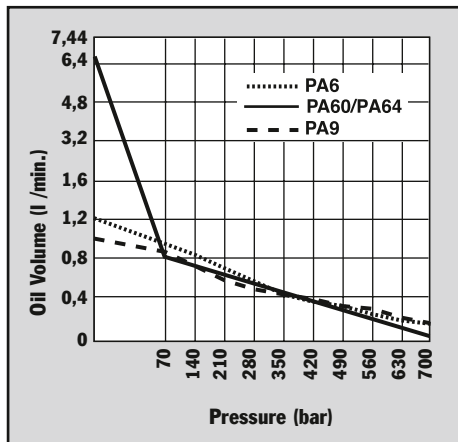
PUMPS



The PA60 used in a workholding environment.

Pump No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Max. Pressure Output bar	Oil Del. * (l/min)				
									0 bar	7 bar	70 bar	350 bar	700 bar
PA60	—	240	206	362	244	181	130	700	6,24	5,6	0,8	0,19	0,1
PA64	362	—	206	362	244	181	130	700	6,24	5,6	0,8	0,19	0,1

* Typical delivery. Actual flow will vary with field conditions.



Description	Order No.	Valve No.	Valve Function	Air Supply Req'd bar	Reservoir Cap. (l)	Usable (l)	Oil Port (in)	Prod. Wt (kg)
For use with remote valves.	PA60	Manifold	—	3 - 8	7,6	6,8	3/8-NPTF	24,5
For use with single- or double-acting cylinders.	PA64	9507, 3-way/4-way	Advance Hold Return	3 - 8	7,6	6,8	3/8-NPTF	24,5

Notes: Air inlet port 1/4" NPTF. Requires 570 l at 7 bar shop air pressure at the pump.





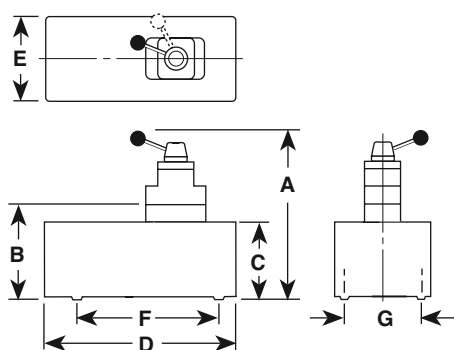
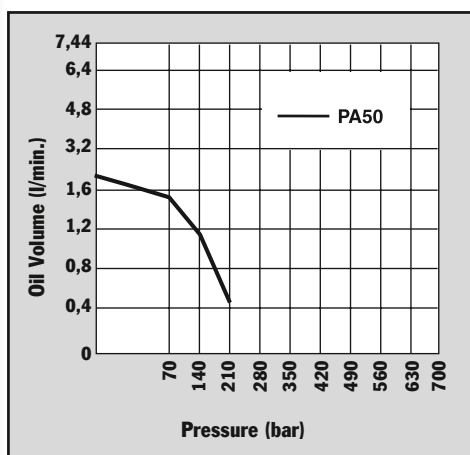
Air Pump

HYDRAULIC PA50 SERIES

460 cm³/min.
Low Pressure

Single-speed, low pressure
(220 bar) output pumps.

PUMPS

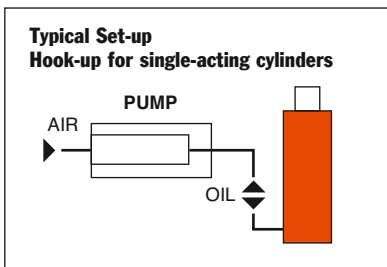


Pump No.								Max. Pressure Output bar	Oil Del. * (l/min)				
	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)		0 bar	7 bar	70 bar	220 bar	
PA50, PS50R													
PA50M, PA50RM	197	149	111	241	127	—	102 x 229	220	2,05	1,76	1,41	0,45 †	
PA50R2	260	203	178	292	241	—	130 x 181	220	2,05	1,76	1,41	0,45 †	
PA50D	264	149	111	241	127	229	102	220	2,05	1,76	1,41	0,45 †	

* Typical delivery. Actual flow will vary with field conditions.

† PA50 Series measured at 220 bar.

- Serviceable air motor for economical repair.
 - Air inlet filter protects motor. Filter in outlet port protects against contaminated systems.
 - Assorted reservoirs to suit your application's requirements.
- * input air port inside thread size 1/4"NPT



For use with Cyl. Type	Description	Order No.	Valve No.	Air Supply Req'd bar	Reservoir Cap. (l)	Usable (l)	Oil Port (in)	Prod. Wt (kg)
Single-Acting	Base model pump with high density polyethylene reservoir.	PA50	—	3 - 8	1,7	1,6	³ / ₈ -NPTF	6,4
Single-Acting	PA50, except has metal reservoir.	PA50M	—	3 - 8	1,7	1,6	³ / ₈ -NPTF	7,3
Single-Acting	PA50, except has 3.7 meter 12 foot remote control.	PA50R	—	3 - 8	1,7	1,6	³ / ₈ -NPTF	8,4
Single-Acting	PA50R, except has metal reservoir.	PA50RM	—	3 - 8	1,7	1,6	³ / ₈ -NPTF	9,3
Single-Acting	PA50R, except has 7.6 liter reservoir 2 gallon reservoir.	PA50R2	—	3 - 8	7,6	7,3	³ / ₈ -NPTF	12,9
Single- and Double Acting	PA50, except designed to operate either single- or double-acting systems. Valve function: Advance/Return.	PA50D	9504, 3-way/ 4-way	3 - 8	1,7	1,6	³ / ₈ -NPTF	8,3

Notes: Air inlet port ¹/₄" NPTF. Requires 570 l at 7 bar shop air pressure at the pump.





Air Pump

HYDRAULIC PA17 SERIES

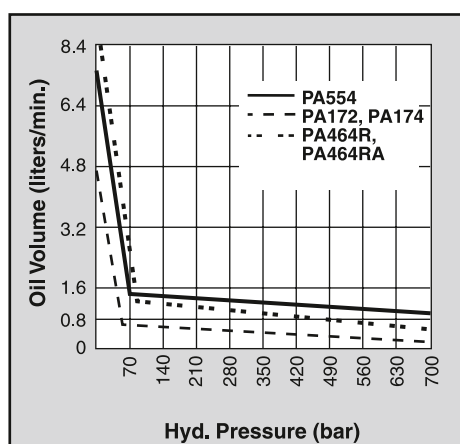
279 cm³/min.
Two Speed

Rotary-style air motor. Use where air is preferred source of energy, where electricity is unavailable or sparks are a concern.

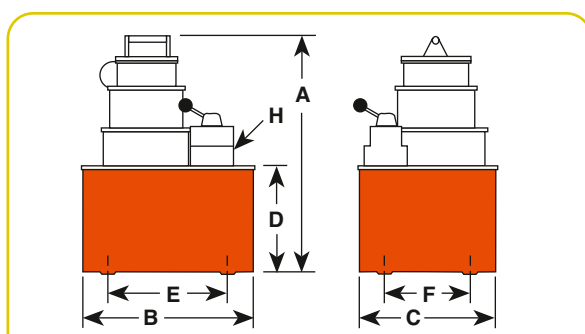
- Two-speed operation for high speed cylinder advance.
- Durable 7,6 liter thermoplastic reservoir. (Metal reservoir conversion kits are available.)
- Features air motor capable of starting under full load.



The PA17 used with a flange spreader

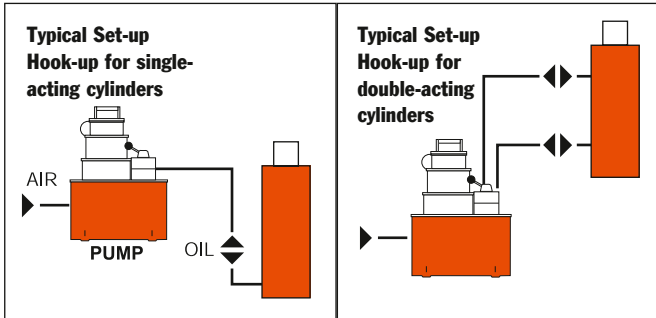


PA172



Pump No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	Max. Pressure Output bar	Oil Del. * (l/min)				
									0 bar	7 bar	70 bar	350 bar	700 bar
PA172	359	289	235	178	181	130	3/8-NPTF	700	4,6	3,8	0,4	0,4	0,3
PA174	359	289	235	178	181	130	3/8-NPTF	700	4,6	3,8	0,4	0,4	0,3

* Typical delivery. Actual flow will vary with field conditions.



For use with Cyl. Type	Description	Order No.	Valve No.	Valve Function	Air Supply Req'd bar	Reservoir Cap. (l)	Usable (l)	Prod. Wt (kg)
Single-Acting	Base model pump with 7.6 liter 2 gallon thermoplastic reservoir.	PA172	9517, 2-way	Advance/Return*	3 - 8	7,6	4,7	18,1
Single- and Double Acting	PA172, except has 9500 valve for use with single- or double-acting cylinders.	PA174	9500, 4-way	Advance Hold Return*	3 - 8	7,6	4,7	18,6

Note: Requires 570 l at 6 bar shop air pressure at the pump. dBA 85/90 at 700 bar.

* Holds pressure in advance position when valve motor is shut off, in return position with motor running. Pump will build pressure when motor is shut off, oil returns to reservoir.





Air Pump

HYDRAULIC PA46/55 SERIES

Up to 150 ton Cylinders
754-902 cm³/min.
Two Speed

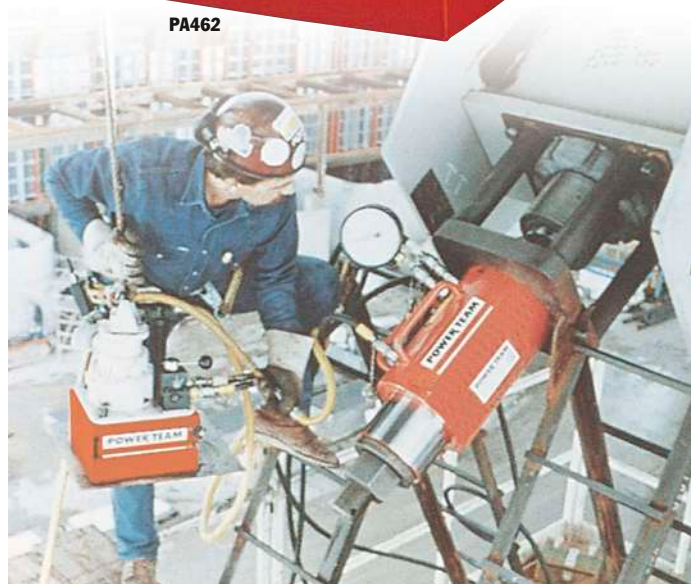
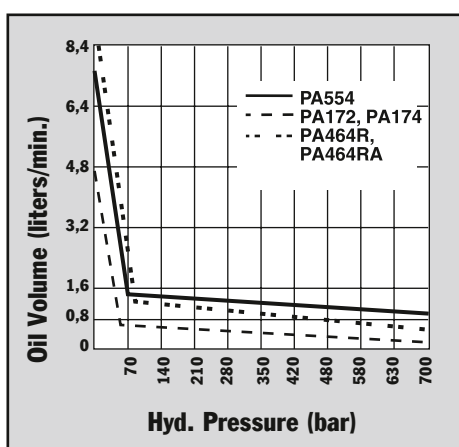
Rotary-style air motor.
Use where air is the preferred
source of energy.

- 2,2 kW motor starting under full load.
- Two-speed operation for rapid cylinder advance.
- Models available with full remote control over advance and return, (except PA554).
- Tandem center valve holds the load when pump is shut off.

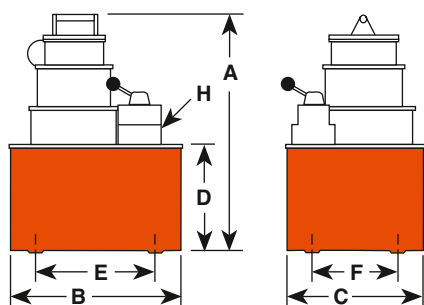


700 bar

PUMPS



PA554 pump and RH2008 Center Hole cylinder used to tension cables.



Pump No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	H (mm)	Max. Pressure Output bar	Oil Del. * (l/min)				
									0 bar	7 bar	70 bar	350 bar	700 bar
PA462	381	292	241	178	254	203	3/8 NPTF	700	7,4	7,2	0,8	0,8	0,7
PA464	381	292	241	178	254	203	3/8 NPTF	700	7,4	7,2	0,8	0,8	0,7
PA464R	381	292	241	178	254	203	3/8 NPTF	700	7,4	7,2	0,8	0,8	0,7
PA464RA	381	292	241	178	254	203	3/8 NPTF	700	7,4	7,2	0,8	0,8	0,7
PA554	483	292	241	178	254	203	3/8 NPTF	700	7,4	7,2	1,3	1,1	0,7

* Typical delivery. Actual flow will vary with field conditions.

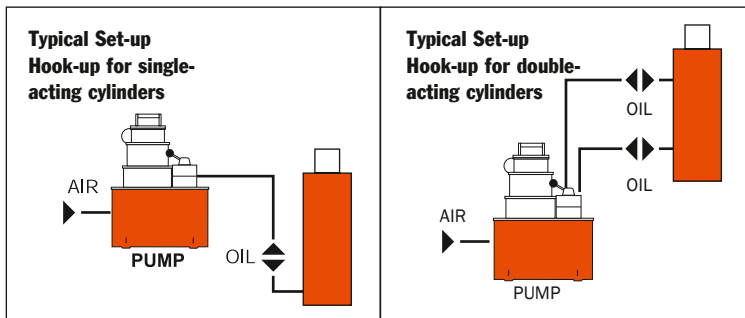
Note: Four mounting holes 1/2" - 20



PA464R



PA554



For use with Cyl. Type	Description	Order No.	Valve No.	Valve Function	Air Supply Req'd bar	Reservoir Cap. (l)	Usable (l)	Prod. Wt (kg)
Single-Acting	Base model pump with 9,5 l steel reservoir.	PA462	9584, 2-way	Advance/Hold/ Return	3 – 8	9,5	9,4	27,2
Single- and Double Acting	PA462, except has 9500 valve capable of running 2 single-acting cylinders or one double-acting cylinder.	PA464	9500, 4-way	Advance/Hold/ Return*	3 – 8	9,5	9,4	27,6
Single- and Double Acting	PA462 with air actuated valve for full remote control over advance and return. Includes 3,7m remote control.	PA464R†	9594, 4-way	Advance/Hold/ Return	3 – 8	9,5	9,4	35,3
Single- and Double Acting	PA464R except, has automatic dump feature. 7,6 m remote control.	PA464RA	**† 4-way	9594, Return*	Advance/Hold/	3 – 8 9,5	9,4	35,8
Single- and Double Acting	High performance pump with 9,5 l steel reservoir.	PA554	9500, 4-way	Advance/Hold/ Return*	3 - 8	9,5	8,4	32,0

Note: Requires 570 l at 6 bar shop air pressure at the pump. dBA 85/90 at 700 bar.

* Holds when motor is shut-off and valve is in “advance” position.

† The PA464RA has an “automatic dump” feature. Pressure is not held when operator releases “advance” or “return” button. PA464R will “hold” only in the “advance” position with the motor shut off.

** Not to be used for lifting.

