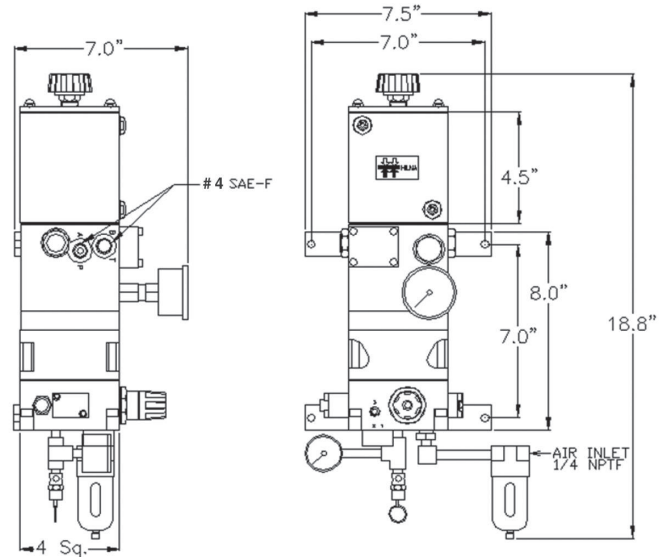
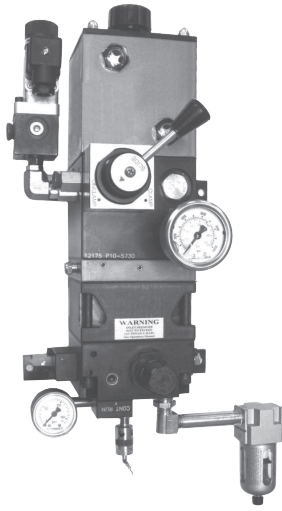


Compact air/oil power unit for hydraulic die clamping of small systems



ROEMHELD
HILMA ■ STARK



Application:

These air powered hydraulic units are suitable for small, low volume hydraulic die clamp and lift systems.

Description:

This family of compact, single stage pumps are configured with standard modular components. The proper combination of hydraulic and electrical controls provide hydraulic power source to suit small single circuit systems.

The unit is supplied with a compact air filter and regulator.

Advantages:

- ◆ compact design
- ◆ oil level sight gauges
- ◆ pressure switch for press safety circuit
- ◆ vertical mounting

Specials available include:

- larger reservoirs
- horizontal mounting

Technical data

Max. clamping pressure	psi	5,800
Flow rate (average)	(cu in/min)	60
Reservoir capacity (usable)	(cu in)	60 (30)
air/oil ratio	3.2	75 to 1
Air requirement (minimum)	psi	80
Oil ports	SAE	#4
Air inlet	NPT	3/8"

Solenoid data

Voltage	HCR-PA-21510-60	VAC	110
	HCR-PA-21610-60	VDC	24
Duty cycle	continuous		

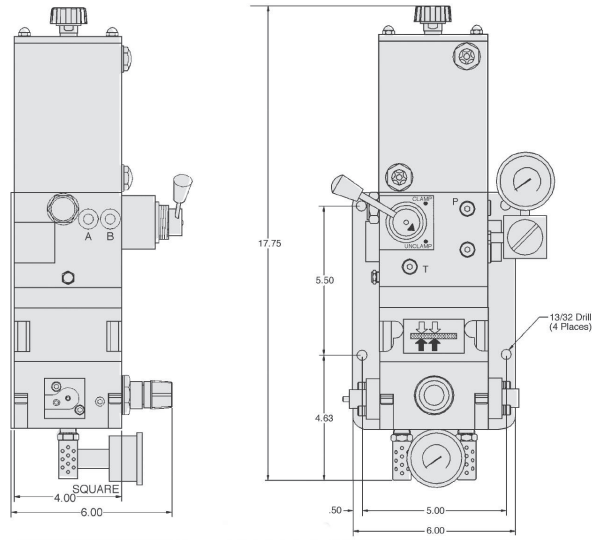
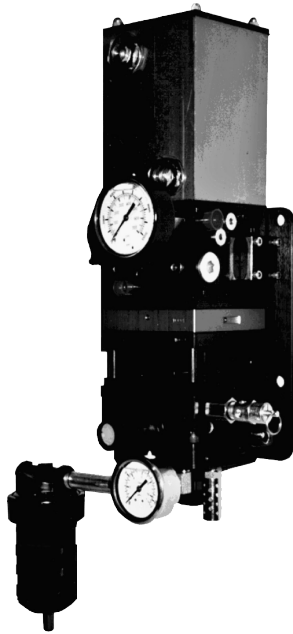
Pressure Switch

Adjustable pressure settings	psi	750 to 5,800
Average pressure differential		
at 1,450 psi	psi	350 ± 73
at 7,250 psi	psi	750 ± 116
Switch NO/NC	VAC	5A at 250
Contact rating	VDC	3A at 30

Part No.	Valve	Pressure Switch
HCR-PA-21100-60 use w/remote valves	none	none
HCR-PA-21210-60 Manual, 3 pos., 4-way valve	1	1
HCR-PA-21510-60 110 VAC Solenoid 2 pos., 4-way N/O valve	1	1
HCR-PA-21610-60 24 VDC Solenoid 2 pos., 4-way N/O valve	1	1



Air/oil power unit for hydraulic die clamping



Application:

These air powered hydraulic units have been developed for the small to mid-sized hydraulic die clamp and lifter systems.

Description:

This family of compact, two stage pumps are assembled from standard modular components. The proper combination of hydraulic and electrical controls provide a hydraulic power source to suit most needs.

Power Unit is supplied with air filter/regulator.

Advantages:

- ◇ compact design
- ◇ oil level sight glasses
- ◇ horizontal or vertical mounting
- ◇ pressure switch for press safety circuit (see chart at right)

Specials available include:

- larger reservoirs
- fluid level switch
- horizontal mounting

Technical data

Max. clamping pressure		psi	5,800
Flow rate		(cu in/min)	150
Reservoir usable capacity		(cu in)	40
Suction filter	HCR-U.HF101	micron	25
air/oil ratio, stage 1			20 to 1
air/oil ratio, stage 2			100 to 1
Air requirement		psi	60
Oil ports		SAE	#4
Air inlet		NPT	3/8"

Solenoid data

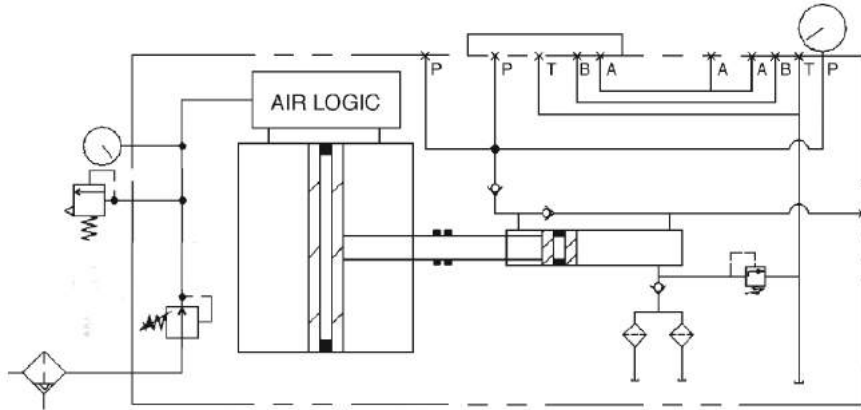
Voltage	HCR-PA-11510	VAC	110
	HCR-PA-11610	VDC	24
Current		ohms	0.2
Duty cycle		continuous	

Pressure Switch

Adjustable pressure settings		psi	750 to 5,800
Average pressure differential			
at 1,450 psi		psi	350 ± 73
at 7,250 psi		psi	750 ± 116
Switch NO/NC		VAC	5A at 250
Contact rating		VDC	3A at 30

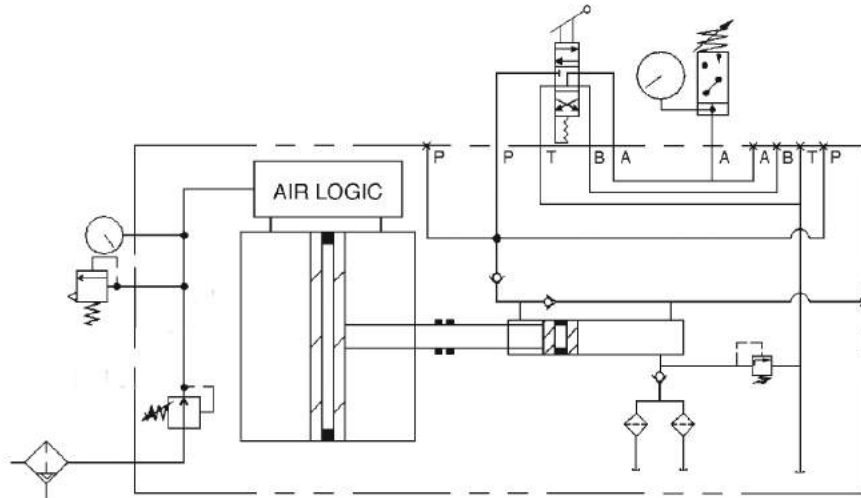
Part No.	Valve	Pressure Switch
HCR-PA-11100 use w/remote valves	none	none
HCR-PA-11210 Manual, 3 pos., 4-way valve	1	1
HCR-PA-11510 110 VAC Solenoid 2 pos., 4-way valve	1	1
HCR-PA-11610 24 VDC Solenoid 2 pos., 4-way valve	1	1

**Air/oil power unit
for use with hydraulic die clamping**



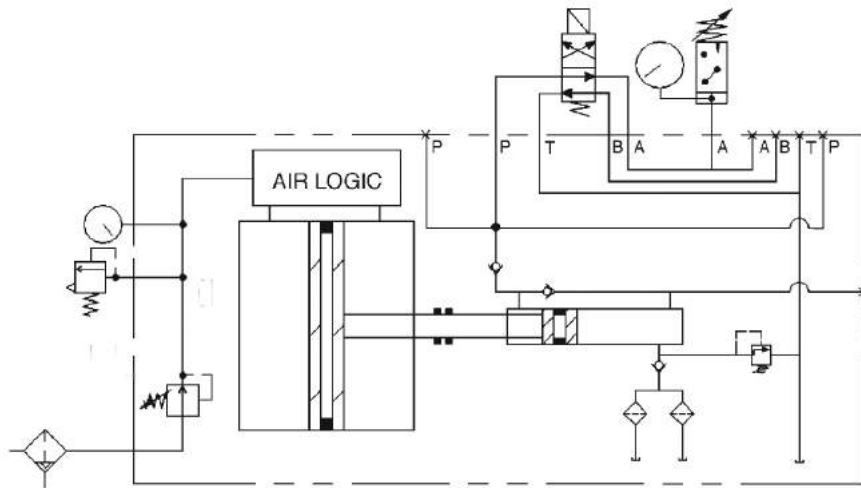
HCR-PA-11100

Power Unit with blanking plate to use with remote valve package.



HCR-PA-11210

Power Unit with a 3 position valve and pressure switch.



HCR-PA-11510

Power Unit with a 2 position/4-way 110 VAC solenoid valve and pressure switch.