



## Hydraulic Control Valves for Cutters and Crimpers



PVA0021/42948



PVA0022/42949

- May be directly connected to the tool or used remotely with hoses.
- Compact.
- 4-way, 3-position valve.
- 3,000 - 4,000 psi (207-275 bar) return line ground dump safety valve.
- Built-in hold feature.
- Controlled advance.
- Single-acting valve available to use with existing single-acting tools.

Cat. No.	UPC No.	Description
PVA0021	42948	Control Valve, 4-way, 3 position valve for Single-Acting tool, High Pressure Quick Disconnects included
PVA0022	42949	Control Valve, 4-way, 3-position valve for Double-Acting tool, High Pressure Quick Disconnects included

### SPECIFICATIONS

System: See control valve description above  
 Max. Oper. Pressure: 10,000 psi (700 bar) Return Relief  
 Pressure: 5,000 psi (350 bar)  
 Input Flow Range: 3 - 8 gpm (12 - 30 lpm)  
 Weight: PVA0021/42948 - 3 lb. (1.4 kg); PVA002/42949 - 2.8 lb. (1.3 kg)  
 Length: PVA0021/42948 - 9.5 in. (240 mm); PVA002/42949 - 7.5 in. (190 mm)  
 Width: 2 in. (44 mm); Height: 3.5 in. (89 mm)  
 Port Size - Inlet: 1/4 - 18 NPTF; Port Size - Tool: 1/4 - 18 NPSM  
 Couplers: High Pressure Quick-Disconnects included, 10,000 psi (700 bar)



## Dynapress® Hydraulic Intensifier



- Intensifies existing low pressure input 1,000 - 2,000 psi (69 - 140 bar) to high pressure output up to 10,000 psi (700 bar).
- Unit supplies high-pressure oil flow up to 10,000 psi (700 bar) to crimping heads, cable cutters, jacks and other devices requiring low flow, high-pressure hydraulic input.
- Compatible with Open- and Closed-Center systems.
- Compact for mounting inside or outside of bucket.
- Self-lubricating.
- Scavenger pump minimizes back-pressure problems.
- Fast advance feature.
- Volume capacity is limited only by the capacity of the supply source reservoir.
- High Pressure Quick-Disconnect included.

### SPECIFICATIONS

System: Open- and Closed-Center  
 Fast Advance Flow: 305 in.<sup>3</sup>/min. (4,099 cm<sup>3</sup>/m)  
 Motor: Gerotor type  
 Output Flow: H6710B/42281 - 20 in.<sup>3</sup>/min. (328 cm<sup>3</sup>/min)  
 H6710B1/42282 - 40 in.<sup>3</sup>/min. (656 cm<sup>3</sup>/min)  
 H6710B4/42284 - 40 in.<sup>3</sup>/min. (656 cm<sup>3</sup>/min)  
 H6704B/42277 - 20 in.<sup>3</sup>/min. (328 cm<sup>3</sup>/min)  
 Max. Relief Valve Setting: H6710B/42281 - 10,000 psi (700 bar)  
 H6710B1/42282 - 10,000 psi (700 bar)  
 H6710B4/42284 - 10,000 psi (700 bar)  
 H6704B/42277 - 4,000 psi (276 bar)  
 Input Flow Range: 3 - 8 gpm (12 - 30 lpm)  
 Weight: H6710B, H6710B1, H6704B: 16.5 lb. (7.5 kg), H6710B4: 16 lb. (7.2 kg)  
 Length: 14 in. (349 mm); Width: 4.5 in. (114 mm)  
 Height: H6710B, H6710B1, H6704B: 7.5 in. (190 mm), H6710B4: 5 in. (127 mm)  
 High Pressure Port Size: 1/4 - 18 NPSM  
 Couplers: High Pressure Quick-Disconnects included, 10,000 psi (700 bar)  
 Inlet Port: 9/16 - 18 SAE O-Ring  
 Return Port: 3/4 - 16 SAE O-Ring

Cat. No.	UPC No.	Description
H6710B	42281	Dynapress® Hydraulic Intensifier, 2 piston high pressure pump with fixed handle, 10,000 psi (700 bar)
H6710B1	42282	Dynapress® Hydraulic Intensifier, 4 piston high pressure pump with fixed handle, 10,000 (700 bar)
H6710B4	42284	Dynapress® Hydraulic Intensifier, 4 piston high pressure pump with folding handle, 10,000 psi (700 bar)
H6704B	42277	Dynapress® Hydraulic Intensifier, 2 piston pressure pump with fixed handle 4,000 psi (276 bar)
54923	54923	HTMA Male Coupler
54924	54924	HTMA Female Coupler



## Dynapress® Hydraulic Booster



- Small and compact, the HB10 can operate most any 10,000 psi (700 bar) remote head tool.
- Able to operate on either Open- or Closed-Center systems without making any changes to the tool.
- Uses the proven, versatile Dynapress™ remote control valves and hoses sets.
- Supplied with pressure and return high pressure (10,000 psi/700 bar) screw type couplers (HTMA couplers ordered separately).
- Supplied with convenient foldable carrying handle, and can be permanently mounted.

### SPECIFICATIONS

System: Open- and Closed-Center

Low Pressure Side:

Input Pressure: 1000-2200 psi (69-152 bar)

Input Flow: 4-8 gpm (15-30 lpm)

Max. Back Pressure: 200 psi (13.8 bar)

Port Sizes: 3/4-16 SAE O-ring (pressure and return)

High Pressure Side:

Output Flow: 35 cu-in/min (574 cu-cm/min)

Output Pressure: 10,000 psi (700 bar)

Relief Valve Setting: 10,000 psi (700 bar)

Port Sizes: 1/4-18 NPSM (couplers provided)

Fast Advance Flow: 320 cu-in/min (5,248 cu-cm/min)

Weight: 10.3 lb. (4.7 kg) Booster with high-pressure couplers and dry (no oil)

Length: 5.6 in. (142 mm); Width: 4.0 in. (101 mm)\*

Height: 4.0 in. (101 mm)\*

\*NOTE: Width and height dimensions do not include handle, relief valve cap or couplings

Cat. No.	UPC No.	Description
CE HB10	48930	Dynapress® Hydraulic Booster, 10,000 psi/700 bar output
138573	41107	6 ft. (1.83 m) long non-conductive (10,000 psi/700 bar) hose assembly with screw type couplers & 1/4 NPT threads for assembly to PVA valve
138574	41108	10 ft. (3.05 m) long non-conductive (10,000 psi/700 bar) hose assembly with screw type couplers & 1/4 NPT threads for assembly to PVA valve
138575	41109	25 ft. (7.62 m) long non-conductive (10,000 psi/700 bar) hose assembly with screw type couplers & 1/4 NPT threads for assembly to PVA valve
PVA0021A	42948	Remote hand-control valve for use with single-acting tools
PVA0022A	42949	Remote hand-control valve for use with double-acting tools
54923	54923	HTMA Male Coupler
54925	54925	HTMA Female Coupler

## High Pressure Tool Accessories



Cat. No.	UPC No.	Description
Certified Non-conductive High Pressure Dual Hose Set - Rated 10,000 psi (700 bar) For use between Dynapress® intensifier or electric pump and control valve. Each pair includes 3/16 in. (4.8 mm) I.D. pressure hoses with one 1/4 in. NPT male fittings on one end and high-pressure quick-disconnect on the other end.		
138573	41107	6 ft. (1.8 m)
138574	41108	10 ft. (3 m)
138575	41109	25 ft. (7.6 m)
Certified Non-conductive High Pressure Hose - Rated 10,000 psi (700 bar) For use between control valve and tool. 3/16 in. (4.8 mm) I.D. hose with 1/4 NPT male fittings on both ends.		
F020721	41795	6 ft. (1.8 m)
F020723	41796	10 ft. (3 m)
F020725	41797	25 ft. (7.6 m)
10,000 psi (700 bar) High Pressure Couplers		
130868	40647	Male Coupler, nose half 1/4 - 18 NPSM
130878	40652	Female Coupler 1/4 - 18 NPSM
F020896	41811	Male Coupler, nose half 1/4 - 18 NPTF
F024631	42096	Female Coupler 1/4 - 18 NPTM
F022061	41941	Male Coupler, nose half 3/8 - 18 NPTF
F021627	41877	Female Coupler 3/8 - 18 NPTM
Accessories For Specific Tools		
132333	40711	Fitting Alignment Tool (High Pressure Fittings) on PVA Valves, Crimpers and Cutters (coupler connect tools only)
155978	41210	Single Acting Adapter - Single-Acting tools can be easily connected to the HP Double-Acting system Control Valve with the addition of the 155978 Single-Acting Adapter. However, under extreme truck back pressure condition, the return mode may not function; therefore we recommend a dedicated Single-Acting control valve - PVA0021.