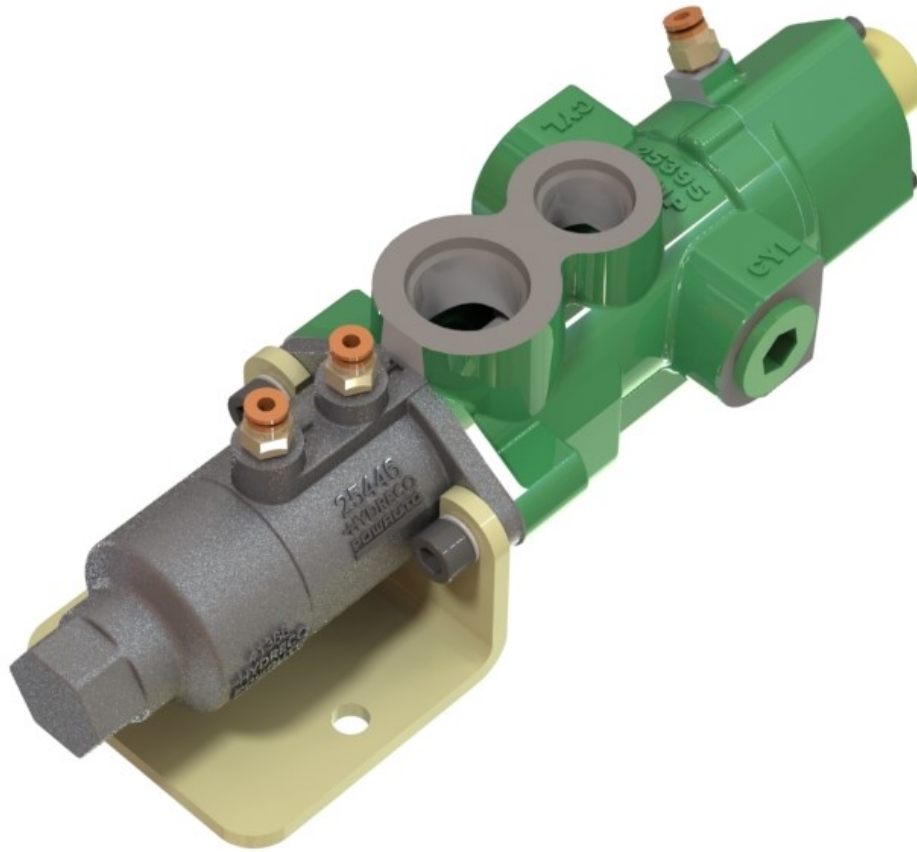


# Technical Data Sheet



## 87 SERIES HYDRAULIC HOIST VALVE

### **Air Controlled Three Position Hydraulic Spool Valve With Optional Dampening**

The 87 Series valve is a bracket mounted, pressure balanced single spool valve for control on hoist tipping applications.

Used in conjunction with a proportional air control (e.g. CK90A) the valve controls the rate of lowering. When using electropneumatic control use the two speed lower option to achieve slow lower.

#### **Suits:**

Truck hoist applications  
Truck and trailer applications

## Product Features

- **Hard Chrome Metering Spools**  
Combine with the load hold check valve to provide load independent, proportional control.
- **Superfine Spool and Housing Tolerances**  
Providing minimum loss of pressure through the valve to give higher flow rates.
- **Two Speed Lower Option**  
Allows for a slow lower function when using electropneumatic controls.
- **Fully Adjustable Relief Pressure Settings**  
Simple adjustment procedure to set relief pressures between 70 Bar and 210 Bar (1000—3000 psi).

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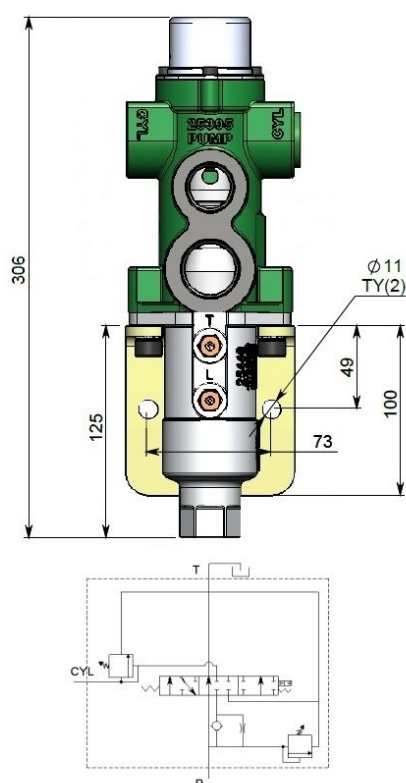
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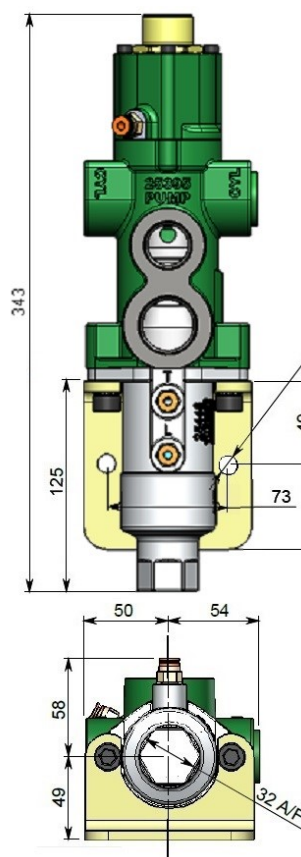
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# Technical Data Sheet

Without Two Speed Lower



With Two Speed Lower



## VALVE DESIGNATION CODES

87 series valve

VA 87 A 0721 A UN

### Identifier

VA = Valve

### Valve Series

87

### Engagement Type

A = Air

### Relief Pressure Range (Bar)

0721 = 70 - 210 (1000 - 3000psi)

### Two Speed Lower

A = No

B = Yes

### Port Type

G = BSPP

UN = UNO

| Technical Specifications |                                                                                                                                                                                                                                      |       |              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|
|                          |                                                                                                                                                                                                                                      | BSPP  | UNO          |
| Port Size                | Pump                                                                                                                                                                                                                                 | G3/4" | 1 1/16" - 12 |
|                          | Cylinder                                                                                                                                                                                                                             | G3/4" | 1 1/16" - 12 |
|                          | Tank                                                                                                                                                                                                                                 | G1"   | 1 5/16" - 12 |
| Flow                     | <p>The pressure differential in the raise position is 780 kPa (113 psi) at 150 L/min (40US gpm) flow rate.</p> <p>The pressure differential in the lower or dump position is 480 kPa (70 psi) at 225 L/min (60US gpm) flow rate.</p> |       |              |
| Pressure                 | <p>Maximum working pressure is 210 Bar (3000 psi).</p> <p>Relief valve is adjustable down to 70 Bar (1000 psi).</p>                                                                                                                  |       |              |
| Approximate Bare Mass    | 5.1 kg / 11.2 lb                                                                                                                                                                                                                     |       |              |
| Seal Kit                 | SK109                      SK109A (2 speed lower)                                                                                                                                                                                    |       |              |

Note: Hydreco recommends the use of filtration in all hydraulic circuits to a maximum of 25µ

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