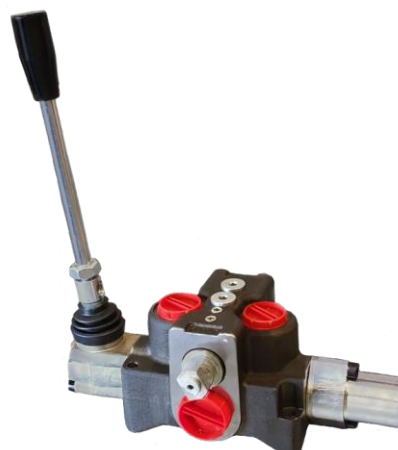


## Mobile Valves

|                                                                                         |      |
|-----------------------------------------------------------------------------------------|------|
| <i>Monoblock Valve Selection Guide</i>                                                  | 6.02 |
| <i>P40 – 40 L/min Monoblock Valves</i>                                                  | 6.02 |
| <i>Z50 – 50 L/min Monoblock Valves with Lever, Metering Spool &amp; Body</i>            | 6.03 |
| <i>Z50 – 50 L/min Monoblock Valves with Solenoid / Lever, Metering Spool &amp; Body</i> | 6.04 |
| <i>P40 / Z50 Accessories &amp; Spare Parts</i>                                          | 6.05 |
| <i>Z80 – 80 L/min Monoblock Valves with Metering Spool &amp; Body</i>                   | 6.10 |
| <i>P80 / Z80 Accessories &amp; Spare Parts</i>                                          | 6.11 |
| <i>P120 – 160 L/min Monoblock Valves with Metering Spool &amp; Body</i>                 | 6.13 |
| <i>P120 Accessories &amp; Spare Parts</i>                                               | 6.14 |
| <i>P81 Log Splitter Valves</i>                                                          | 6.16 |
| <i>P70LS Monoblock Valves with Pressure Compensated By-Pass Flow Control</i>            | 6.18 |



## Monoblock Valve Selection Guide

| Series | Max. Flow (L/min) | Max. Pressure (bar) | Spool / Flow Characteristics |             |                  |             |                   |
|--------|-------------------|---------------------|------------------------------|-------------|------------------|-------------|-------------------|
|        |                   |                     | Lever Only                   | 1ESD        |                  | ES          |                   |
|        |                   |                     |                              | Solenoid    | Manual           | Solenoid    | Manual            |
| Z50    | 50                | 315                 | Precise Metering             | No Metering | Precise Metering | No Metering | Moderate Metering |
| Z80    | 80                |                     | Precise Metering             | No Metering | Precise Metering | No Metering | Moderate Metering |
| P120   | 160               |                     | Precise Metering             | N/A         |                  | N/A         |                   |

**Note:** Valves marked in **red** are currently not stocked and will be available soon.

### P40 – 40 L/min Monoblock Valves (P40 Series being Superseded by Z50 Series – Check Availability)



| Nominal Flow: 40 L/min (See manufacturers catalogue) 1 - 7 Spools Parallel Circuit Common Load Hold Check on P Port |                              |        |                                                                                                                                                        |           |
|---------------------------------------------------------------------------------------------------------------------|------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Max. Port Pressures: P - 250 bar A & B - 300 bar T - 50 bar                                                         |                              |        |                                                                                                                                                        |           |
| Adjustable Pressure: 120 - 250 bar (Options Available) Preset: 180 bar                                              |                              |        |                                                                                                                                                        |           |
| Ports: P - G 1/2 A & B - G 3/8 T - G 1/2                                                                            |                              |        |                                                                                                                                                        |           |
| Order Code                                                                                                          | Description                  | Spools | Spool/Operator                                                                                                                                         | List Each |
| P40-1000257                                                                                                         | 02P40-A1A1-GKZ1-11           | 2      | D/A Cylinder / Spring Centred                                                                                                                          | \$316.00  |
| P40-1000276                                                                                                         | 02P40-A1K16-GKZ1-11          |        | Spool 1 - D/A Cylinder / Spring Centred<br>Spool 2 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT | \$473.00  |
| P40-4104468                                                                                                         | 02P40-K16A1-GKZ1-11          |        | Spool 1 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT<br>Spool 2 - D/A Cylinder / Spring Centred |           |
| P40-1000274                                                                                                         | 02P40-K16K16-GKZ1-11         |        | Spool 1 & 2 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT                                        | \$630.00  |
| P40-1000336                                                                                                         | 05P40-A1A1A1A1A1-GKZ1-11     | 5      | D/A Cylinder / Spring Centred                                                                                                                          | \$702.00  |
| P40-1001956                                                                                                         | 06P40-A1A1A1A1A1A1-GKZ1-11   | 6      | D/A Cylinder / Spring Centred                                                                                                                          | \$854.00  |
| P40-1001965                                                                                                         | 07P40-A1A1A1A1A1A1A1-GKZ1-11 | 7      | D/A Cylinder / Spring Centred                                                                                                                          | \$990.00  |

**Note:**

- To calculate a price for a valve not listed above add the price of the Spool & Spool Positioner from P40 & Z50 Accessories & Spare Parts on [Page 6.05](#).
- Valves cannot be converted from left inlet to right inlet. A different spool is required.
- All valves have 2 x P & 2 x T ports, side and top.
- K16 Spool/Positioner requires modification to the valve body.**  
Contact [Hydraulic Equipment](#) for details if doing this conversion.

## Z50 – 50 L/min Monoblock Valves with Metering Spool & Body



| Nominal Flow: 50 L/min (See manufacturers catalogue)    1 - 8 Spools    Parallel Circuit    Common Load Hold Check on P Port |                                  |        |                                                                                                                                                        |            |
|------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Max. Port Pressures: P - 315 bar    A & B - 315 bar    T - 35 bar                                                            |                                  |        |                                                                                                                                                        |            |
| Adjustable Pressure: 120 - 250 bar (Options Available) Preset: 180 bar                                                       |                                  |        |                                                                                                                                                        |            |
| Ports: P - G 1/2    A & B - G 3/8    T - G 1/2                                                                               |                                  |        |                                                                                                                                                        |            |
| Order Code                                                                                                                   | Description                      | Spools | Spool/Operator                                                                                                                                         | List Each  |
| Z50-1000005                                                                                                                  | Z50/A1KZ1-G                      | 1      | D/A Cylinder / Spring Centred                                                                                                                          | \$260.00   |
| Z50-1000006                                                                                                                  | Z50/B1KZ1-G                      |        | S/A Cylinder / Spring Centred<br>P → A, Lever Box Position 2 / Spool IN                                                                                |            |
| Z50-1000004                                                                                                                  | Z50/C1KZ1-G                      |        | S/A Cylinder / Spring Centred<br>P → B, Lever Box Position 1 / Spool OUT                                                                               |            |
| Z50-1006168                                                                                                                  | Z50/D1KZ1-G                      |        | D/A Motor / Spring Centred                                                                                                                             |            |
| Z50-1000011                                                                                                                  | Z50/A8KZ1-G                      |        | D/A Cylinder / 3 Position Detent                                                                                                                       | \$320.00   |
| Z50-1006171                                                                                                                  | Z50/D8KZ1-G                      |        | D/A Motor / 3 Position Detent                                                                                                                          |            |
| Z50-4109482                                                                                                                  | Z50/A1KZ1-C-G                    |        | D/A Cylinder / Spring Centred + Plug C (4093148)                                                                                                       | \$279.00   |
| Z50-4112514                                                                                                                  | Z50/K16KZ1-G                     |        | 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT                                                      | \$453.00   |
| Z50-4121108                                                                                                                  | Z50R/L12KZ1-G (Right Hand Inlet) |        | 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool IN                                                       |            |
| Z50-1000257                                                                                                                  | 02Z50/2x(A1KZ1)-G                | 2      | D/A Cylinder / Spring Centred                                                                                                                          | \$391.00   |
| Z50-4106244                                                                                                                  | 02Z50/A1KZ1/K16KZ1-G             |        | Spool 1 - D/A Cylinder / Spring Centred<br>Spool 2 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT | \$583.00   |
| Z50-4108908                                                                                                                  | 02Z50/K16KZ1/A1KZ1-G             |        | Spool 1 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT<br>Spool 2 - D/A Cylinder / Spring Centred |            |
| Z50-4114846                                                                                                                  | 02Z50/2x(K16KZ1)-G               |        | Spool 1 & 2 - 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool OUT                                        | \$776.00   |
| Z50-1000290                                                                                                                  | 03Z50/3x(A1KZ1)-G                | 3      | D/A Cylinder / Spring Centred                                                                                                                          | \$534.00   |
| Z50-1000306                                                                                                                  | 04Z50/4x(A1KZ1)-G                | 4      | D/A Cylinder / Spring Centred                                                                                                                          | \$677.00   |
| Z50-1000336                                                                                                                  | 05Z50/5x(A1KZ1)-G                | 5      | D/A Cylinder / Spring Centred                                                                                                                          | \$833.00   |
| Z50-1001956                                                                                                                  | 06Z50/6x(A1KZ1)-G                | 6      | D/A Cylinder / Spring Centred                                                                                                                          | \$976.00   |
| Z50-1001965                                                                                                                  | 07Z50/7x(A1KZ1)-G                | 7      | D/A Cylinder / Spring Centred                                                                                                                          | \$1,132.00 |
| Z50-4126388                                                                                                                  | 08Z50/8x(A1KZ1)-G                | 8      | D/A Cylinder / Spring Centred                                                                                                                          | \$1,288.00 |

**Note:**

- To calculate a price for a valve not listed above add the price of the Spool &/or Spool Positioner from P40 & Z50 Accessories & Spare Parts on [Page 6.05](#).
- Valves cannot be converted from left inlet to right inlet. A different spool is required.
- Z50 single spool valves have 1 x P & 1 x T port which are on the side.  
All other valves have 2 x P & 2 x T ports, side and top.

## Z50 – 50 L/min Monoblock Valves with Solenoid/Lever, Metering Spool & Body



- Metering notches on spool & body provide precise control when used manually ensuring accurate operation.
- Unlike others with small levers intended only for emergency use, our lever is large enough to be used comfortably by hand for everyday operation.
- The lever does not move with the spool, resulting in significantly less friction. This design allows for softer centring springs, reducing power requirements and enabling the use of a 53 W solenoid.

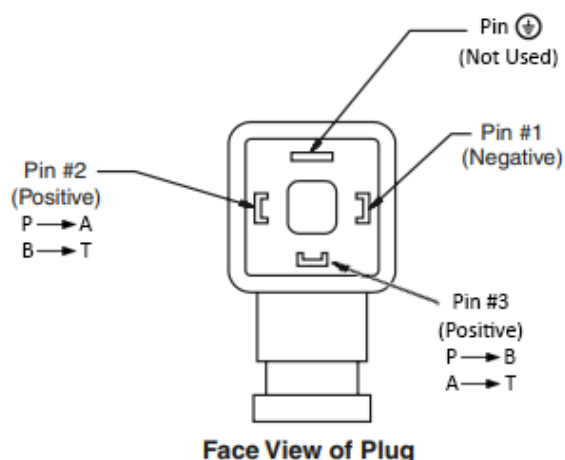
| Nominal Flow: 50 L/min (See manufacturers catalogue)    1 - 8 Spools    Parallel Circuit    Common Load Hold Check on P Port |                         |        |                                         |            |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------|-----------------------------------------|------------|
| Max. Port Pressures: P - 315 bar    A & B - 315 bar    T - 35 bar                                                            |                         |        |                                         |            |
| Adjustable Pressure: 120 - 250 bar (Options Available) Preset: 180 bar                                                       |                         |        |                                         |            |
| Ports: P - G 1/2    A & B - G 3/8    T - G 1/2                                                                               |                         |        |                                         |            |
| Order Code                                                                                                                   | Description             | Spools | Spool/Operator                          | List Each  |
| Z50/1ESD-4110243                                                                                                             | Z50-A1ESDK1-12V-G       | 1      | D/A Cylinder / Spring Centred           | \$1,171.00 |
| Z50/1ESD-4109001                                                                                                             | Z50-A1ESDK1-24V-G       |        | S/A Cylinder / Spring Centred           |            |
| Z50/1ESD-4114155                                                                                                             | Z50-B1ESDK1-12V-G       |        | P → A, Lever Box Position 2 / Spool IN  |            |
| Z50/1ESD-4115118                                                                                                             | Z50-B1ESDK1-24V-G       |        | S/A Cylinder / Spring Centred           |            |
| Z50/1ESD-4128283                                                                                                             | Z50-C1ESDK1-12V-G       |        | P → B, Lever Box Position 1 / Spool OUT |            |
| Z50/1ESD-4128284                                                                                                             | Z50-C1ESDK1-24V-G       |        |                                         |            |
| Z50/1ESD-4112382                                                                                                             | Z50-D1ESDK1-12V-G       |        | D/A Motor / Spring Centred              |            |
| Z50/1ESD-4117511                                                                                                             | Z50-D1ESDK1-24V-G       |        |                                         |            |
| Z50/1ESD-4110462                                                                                                             | 02Z50/2x(A1ESDK1)-12V-G | 2      | D/A Cylinder / Spring Centred           | \$2,211.00 |
| Z50/1ESD-4109670                                                                                                             | 02Z50/2x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4110463                                                                                                             | 03Z50/3x(A1ESDK1)-12V-G | 3      | D/A Cylinder / Spring Centred           | \$3,265.00 |
| Z50/1ESD-4109671                                                                                                             | 03Z50/3x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4110087                                                                                                             | 04Z50/4x(A1ESDK1)-12V-G | 4      | D/A Cylinder / Spring Centred           | \$4,318.00 |
| Z50/1ESD-4113253                                                                                                             | 04Z50/4x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4112134                                                                                                             | 05Z50/5x(A1ESDK1)-12V-G | 5      | D/A Cylinder / Spring Centred           | \$5,397.00 |
| Z50/1ESD-4112553                                                                                                             | 05Z50/5x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4112133                                                                                                             | 06Z50/6x(A1ESDK1)-12V-G | 6      | D/A Cylinder / Spring Centred           | \$6,451.00 |
| Z50/1ESD-4115108                                                                                                             | 06Z50/6x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4113419                                                                                                             | 07Z50/7x(A1ESDK1)-12V-G | 7      | D/A Cylinder / Spring Centred           | \$7,517.00 |
| Z50/1ESD-4115136                                                                                                             | 07Z50/7x(A1ESDK1)-24V-G |        |                                         |            |
| Z50/1ESD-4128421                                                                                                             | 08Z50/8x(A1ESDK1)-12V-G | 8      | D/A Cylinder / Spring Centred           | \$8,583.00 |
| Z50/1ESD-4128422                                                                                                             | 08Z50/8x(A1ESDK1)-24V-G |        |                                         |            |

### Note:

- To calculate a price for a valve not listed above add the price of the Spool from P40 / Z50 Accessories & Spare Parts on [Page 6.05](#).
- Valves supplied with standard DIN Plug(s). [Wiring Information on Page 6.05](#).
- Valves cannot be converted from left inlet to right inlet. A different spool is required.
- Z50/1ESD single spool valves have 1 x P & 1 x T port which are on the side. All other valves have 2 x P & 2 x T ports, side and top.
- Internal Spool Leakage. A or B → T is 15 cm<sup>3</sup>/min (0.91 in<sup>3</sup>/min) to 25 cm<sup>3</sup>/min (1.1 in<sup>3</sup>/min) at Δ p 100 bar @ 40 °C. This must be considered when designing a circuit and load holding valves may be required.

## Z50/1ESD DIN Plug Wiring Information

Nominal Voltage Tolerance..... +/- 10%  
 Power Rating ..... 53 W  
 Current..... 12 V = 4.5 A; 24 V = 2.25 A  
 Coil Insulation..... Class H  
 Duty Cycle..... 100%



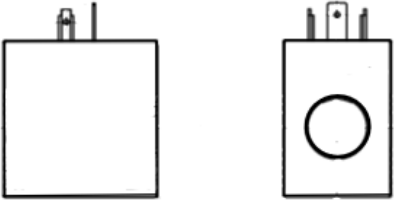
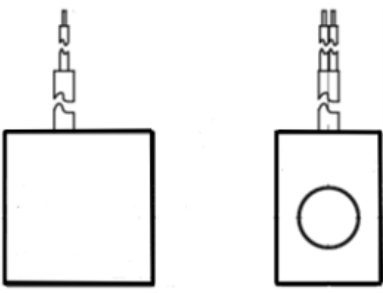
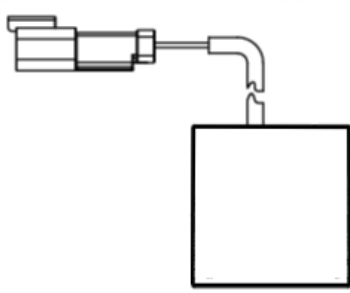
## P40 / Z50 Accessories & Spare Parts

| Order Code             | Description                                                                         | List Each |
|------------------------|-------------------------------------------------------------------------------------|-----------|
| <b>Z50 Spools</b>      |                                                                                     |           |
| 4122810                | Spool A - Z50 - D/A Cylinder                                                        | \$88.00   |
| 4107641                | Spool B - Z50 - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN               | \$120.00  |
| 4125827                | Spool C - Z50 - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT              | \$88.00   |
| 4123440                | Spool D - Z50 - D/A Motor                                                           | \$88.00   |
| 4107740                | Spool K - Z50 - 4 Position Float (Use only with Spool Positioner 16 - See Notes)    | \$168.00  |
| 4121789                | Spool L - Z50R - 4 Position Float (Use only with Spool Positioner 12 - P/N 4121829) | \$168.00  |
| <b>Z50/1ESD Spools</b> |                                                                                     |           |
| 4109002                | Spool A - Z50/1ESD - D/A Cylinder                                                   | \$106.00  |
| 4110799                | Spool B - Z50/1ESD - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN          | \$106.00  |
| 4110800                | Spool C - Z50/1ESD - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT         | \$106.00  |
| 4110642                | Spool D - Z50/1ESD - D/A Motor                                                      | \$106.00  |
| <b>P40 Spools</b>      |                                                                                     |           |
| 1000043                | Spool A - P40 - D/A Cylinder                                                        | \$82.00   |
| 4107957                | Spool B - P40 - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN               | \$112.00  |
| 1000044                | Spool C - P40 - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT              | \$82.00   |
| 1000045                | Spool D - P40 - D/A Motor                                                           | \$82.00   |
| 4099399                | Spool K - P40 - 4 Position Float (Use only with Spool Positioner 16 - See Notes)    | \$147.00  |
| 1000081                | Spool AR - P40 - D/A Cylinder                                                       | \$82.00   |

Continued Next Page

| Order Code                        | Description                                                                                                                                                                                                                  | List Each |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Spool Positioners (Side B)</b> |                                                                                                                                                                                                                              |           |
| 4093162                           | Spool Positioner 1 - P40 / Z50 - 3 Position Spring Centred                                                                                                                                                                   | \$45.00   |
| 4093172                           | Spool Positioner 2 - P40 / Z50 - 3 Position, Spring Centred / Detent<br>Detent P → B, Lever Box Pos. 1 / Spool OUT                                                                                                           | \$69.00   |
| 4093173                           | Spool Positioner 3 - P40 / Z50 - 3 Position, Spring Centred / Detent<br>Detent P → A, Lever Box Pos. 2 / Spool IN                                                                                                            | \$69.00   |
| 4093174                           | Spool Positioner 4 - P40 / Z50 - 2 Position, Spring Centred, 0 & 2<br>P → A, Lever Box Pos. 2 / Spool IN                                                                                                                     | \$45.00   |
| 4093175                           | Spool Positioner 5 - P40 / Z50 - 2 Position, Spring Centred, 0 & 1<br>P → B, Lever Box Pos. 1 / Spool OUT                                                                                                                    | \$45.00   |
| 4093160                           | Spool Positioner 8 - P40 / Z50 - 3 Position Detent                                                                                                                                                                           | \$60.00   |
| 4093161                           | Spool Positioner 9 - P40 / Z50 - 2 Position Detent, 0 & 1<br>Detent P → B, Lever Box Position 1 / Spool OUT                                                                                                                  | \$60.00   |
| 4093163                           | Spool Positioner 10 - P40 / Z50 - 2 Position Detent, 0 & 2<br>Detent P → A, Lever Box Pos. 2 / Spool IN                                                                                                                      | \$60.00   |
| 4121829                           | Spool Positioner 12 - Z50R - 4 Position Float (Use only with Spool L - P/N 4121789)<br>Spring Centred / Detent on Float. Detent - Lever Box Position 3 / Spool IN                                                            | \$156.00  |
| 4093171                           | Spool Positioner 16 - P40 / Z50 - 4 Position Float (Use only with Spool K)<br>Spring Centred / Detent on Float. Detent - Lever Box Position 3 / Spool OUT<br>(Old Design - Can be used with Microswitch Kit P/N 4114236)     | \$156.00  |
| 4107739                           | Spool Positioner 16 - P40 / Z50 - 4 Position Float (Use only with Spool K)<br>Spring Centred / Detent on Float. Detent - Lever Box Position 3 / Spool OUT<br>(New Design - Can not be used with Microswitch Kit P/N 4114236) | \$156.00  |
| 4093702                           | Spool Positioner 1H - Proportional Hydraulic Control - P40 / Z50 (G 1/4 Ports)                                                                                                                                               | \$196.00  |
| 4103491                           | Spool Positioner 1P - On / Off Pneumatic Control - P40 / Z50 (1/8-27 NPTF Ports)                                                                                                                                             | \$235.00  |
| N/A                               | Spool Positioner 1EP - On / Off Electro-Pneumatic Control (For each spool order)                                                                                                                                             | N/A       |
|                                   | 1 pcs P/N 4103491      Spool Positioner 1P (see above)                                                                                                                                                                       |           |
|                                   | 2 pcs P/N 3V1-06-01-1/8 NPT      3/2 Pneumatic Valve - 1/8-27 NPT (see below)                                                                                                                                                |           |
|                                   | 2 pcs Coil (see below)                                                                                                                                                                                                       |           |
| 3V1-06-01-1/8 NPT                 | 3/2 Pneumatic Valve - 1/8-27 NPT for Spool Positioner 1EP                                                                                                                                                                    | \$44.00   |
| 3V1-06-01-D12-D                   | Coil 12V/4W DC DIN with Plug                                                                                                                                                                                                 | \$26.00   |
| 3V1-06-01-D24-D                   | Coil 24V/4W DC DIN with Plug                                                                                                                                                                                                 | \$26.00   |
| 3V1-06-01-DLP-DC                  | DIN Light Plug DC (Spare Part)                                                                                                                                                                                               | \$12.00   |
| 3V1-06-01-D12-W                   | Coil 12V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                                                                                                                               | \$14.00   |
| 3V1-06-01-D24-W                   | Coil 24V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                                                                                                                               | \$14.00   |
| DT04-2P-0460                      | Deutsch Receptacle - Female (Includes 2 pcs Solid Pin) (Customer to fit)                                                                                                                                                     | \$12.00   |
| 0460-215-16141x10                 | Deutsch Receptacle Solid Pin (Male) - Pack of 10 pcs (Spare Parts)                                                                                                                                                           | \$33.00   |
| DT06-2S-0462                      | Deutsch Plug - Male (Includes 2 pcs Solid Socket) (To connect to DT04-2P-0460)                                                                                                                                               | \$15.00   |
| 0462-209-16141x10                 | Deutsch Plug Solid Socket (Female Pins) - Pack of 10 pcs (Spare Parts)                                                                                                                                                       | \$50.00   |

Wiring Information on Page 5.10 & Page 9.13.

|                                                                                                                                                         |  |  |                                                                                                        |  |  |                                                                                                                                                  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|  <p><b>DIN without Plug fitted</b><br/>(Plug supplied with Coil)</p> |  |  |  <p><b>Wire</b></p> |  |  |  <p><b>Wire with DT04-2P-0460</b><br/>(Customer to fit)</p> |  |  |
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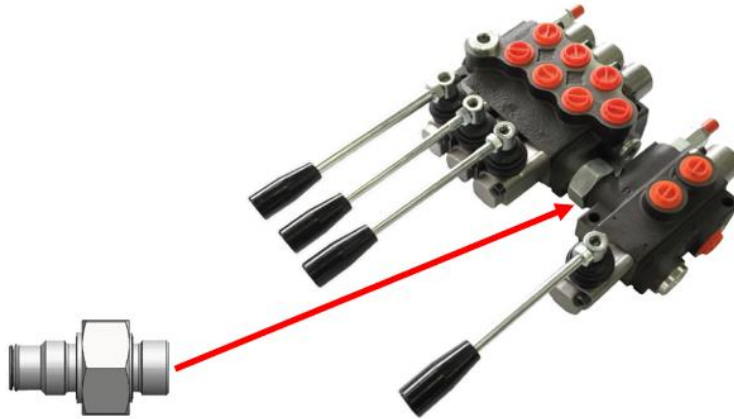
| Order Code                            | Description                                                                                                                                                                                                        | List Each |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>By-Pass Gallery (N Port) Plugs</b> |                                                                                                                                                                                                                    |           |
| 4093148                               | Plug C - Closed Centre - P40 / Z50                                                                                                                                                                                 | \$19.00   |
| 4093146                               | Sleeve C2 - High Pressure Carry Over / Power Beyond - P40 / Z50 (G 1/2 Port)                                                                                                                                       | \$28.00   |
| 4112499                               | Sleeve C2D - High Pressure Carry Over / Power Beyond - P40 / Z50 (G 1/2 Male Threads)<br>See <a href="#">Page 6.09</a> .                                                                                           | \$130.00  |
| <b>Relief Valve Parts</b>             |                                                                                                                                                                                                                    |           |
| 4125633                               | Plug SVP (Main Relief Valve Cavity Plug) - P40 / Z50 / P80 / Z80                                                                                                                                                   | \$39.00   |
| 4093120                               | Main Relief Valve - P40 / Z50 / P80 / Z80 (120 - 250 bar) (22 mm Hex) (Original Design)                                                                                                                            | \$117.00  |
| 4124492                               | Main Relief Valve - P40 / Z50 / P80 / Z80 – Code D2 (50 - 120 bar) (20 mm Hex)                                                                                                                                     | \$117.00  |
| 4123439                               | Main Relief Valve - P40 / Z50 / P80 / Z80 – Code D3 (120 - 250 bar) (20 mm Hex) (Standard)                                                                                                                         | \$117.00  |
| 4125846                               | Main Relief Valve - P40 / Z50 / P80 / Z80 – Code D4 (220 - 315 bar) (20 mm Hex)                                                                                                                                    | \$117.00  |
| <b>Microswitch Parts</b>              |                                                                                                                                                                                                                    |           |
| 4109518                               | Microswitch Kit 1E - P40 / Z50 - Spool / Positioner A1 & D1 (1 per spool)<br>(Microswitch not included)                                                                                                            | \$56.00   |
| 4109519                               | Microswitch Kit 1E - P40 / Z50 - Spool / Positioner B1 (1 per spool)<br>(Microswitch not included)                                                                                                                 | \$56.00   |
| 4109520                               | Microswitch Kit 1E - P40 / Z50 - Spool / Positioner C1 (1 per spool)<br>(Microswitch not included)                                                                                                                 | \$56.00   |
| 4114236                               | Microswitch Kit 1E - P40 / Z50 - Spool / Positioner K16 (1 per spool)<br>Can only be used with Spool Positioner 16 P/N 4093171 which is being phased out.<br>Check for availability.<br>(Microswitch not included) | \$56.00   |
| 673614                                | Microswitch - IP67, SPDT, 250V AC, 30V DC (1 per spool)<br>Wiring Information on <a href="#">Page 6.09</a> .                                                                                                       | \$60.00   |
| <b>P40 / Z50 Lever Parts</b>          |                                                                                                                                                                                                                    |           |
| 4093131                               | Lever - P40 / Z50 (M8 - 1.25 x 170 mm LOA)                                                                                                                                                                         | \$17.00   |
| 4093217                               | Lever Box - P40 / Z50 - KZ (Lever Box, PVC Boot, SHCS) (Standard)                                                                                                                                                  | \$56.00   |
| 1000169                               | PVC Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100 (Standard)                                                                                                                                         | \$12.00   |
| 4109045                               | Rubber Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100                                                                                                                                                 | \$20.00   |
| 4118501                               | Joystick Assembly - P40 / Z50 (J+1 or J+3)                                                                                                                                                                         | \$300.00  |
| 4093048                               | Lever - P80 / Z80 / PC70 / PC100 / Joystick (M10 - 1.5 x 180 mm LOA)                                                                                                                                               | \$20.00   |
| 4093561                               | PVC Boot - Joystick P40 / Z50 / P80 / Z80 / PC70 / PC100                                                                                                                                                           | \$78.00   |
| <b>Z50/1ESD Lever Parts</b>           |                                                                                                                                                                                                                    |           |
| 4113008                               | Lever Box Assembly - Z50/1ESDK1 (Lever, Lever Box, PVC Boot, SHCS)                                                                                                                                                 | \$157.00  |
| 1000169                               | PVC Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100 (Standard)                                                                                                                                         | \$12.00   |
| 4109045                               | Rubber Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100                                                                                                                                                 | \$20.00   |
| <b>Z50/1ESD Coils</b>                 |                                                                                                                                                                                                                    |           |
| 4128325                               | Coil Z50/1ESD 12V/53W DC DIN with standard Plug                                                                                                                                                                    | \$495.00  |
| 4115426                               | Coil Z50/1ESD 24V/53W DC DIN with standard Plug                                                                                                                                                                    | \$495.00  |
| 4128380                               | DIN Plug - Z50/1ESD                                                                                                                                                                                                | \$32.00   |

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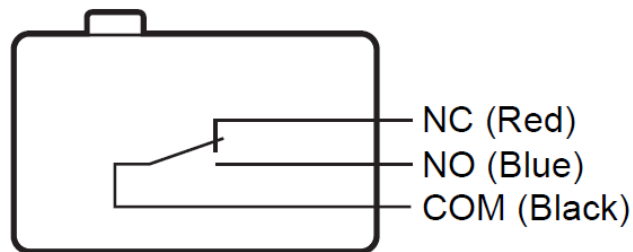
| Order Code                 | Description                                                                                                                                                                                       | List Each |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>P40 / Z50 Seal Kits</b> |                                                                                                                                                                                                   |           |
| 4093101                    | Seal Kit - P40 / Z50                                                                                                                                                                              | \$46.00   |
| 4093095                    | Seal Kit - 02P40 / Z50                                                                                                                                                                            | \$62.00   |
| 4093096                    | Seal Kit - 03P40 / Z50                                                                                                                                                                            | \$77.00   |
| 4093097                    | Seal Kit - 04P40 / Z50                                                                                                                                                                            | \$91.00   |
| 4093098                    | Seal Kit - 05P40 / Z50                                                                                                                                                                            | \$108.00  |
| 4093099                    | Seal Kit - 06P40 / Z50                                                                                                                                                                            | \$122.00  |
| 4103815                    | Seal Kit - 07P40 / Z50                                                                                                                                                                            | \$139.00  |
| 4128458                    | Seal Kit - 08Z50                                                                                                                                                                                  | \$155.00  |
| 4110440                    | Seal Kit - Spool Positioner 1H - Proportional Hydraulic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100<br><i>For Old Design - Square Body &amp; Flush Ports - See <a href="#">Page 6.09</a>.</i> | \$21.00   |
| 4128803                    | Seal Kit - Spool Positioner 1H - Proportional Hydraulic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100<br><i>For New Design – Round Body &amp; Port Sockets - See <a href="#">Page 6.09</a>.</i> | \$21.00   |
| 4110375                    | Seal Kit – Spool Positioner 1P - On / Off Pneumatic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100                                                                                               | \$26.00   |
| <b>Z50/1ESD Seal Kits</b>  |                                                                                                                                                                                                   |           |
| 4128289                    | Seal Kit - Z50/1ESD                                                                                                                                                                               | \$45.00   |
| 4128290                    | Seal Kit - 02Z50/1ESD                                                                                                                                                                             | \$63.00   |
| 4128291                    | Seal Kit - 03Z50/1ESD                                                                                                                                                                             | \$82.00   |
| 4127261                    | Seal Kit - 04Z50/1ESD                                                                                                                                                                             | \$98.00   |
| 4128292                    | Seal Kit - 05Z50/1ESD                                                                                                                                                                             | \$115.00  |
| 4128293                    | Seal Kit - 06Z50/1ESD                                                                                                                                                                             | \$133.00  |
| 4128294                    | Seal Kit - 07Z50/1ESD                                                                                                                                                                             | \$150.00  |
| 4128462                    | Seal Kit - 08Z50/1ESD                                                                                                                                                                             | \$167.00  |

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## Plug C2D – HPCO (High Pressure Carry Over / Power Beyond) (P40 & Z50 Only)



## Microswitch Wiring Information



## Spool Positioner 1H - Proportional Hydraulic Control Identification



New Design



Old Design

## Z80 – 80 L/min Monoblock Valves with Metering Spool & Body



| Nominal Flow: 80 L/min (See manufacturers catalogue) 1 - 6 Spools Parallel Circuit Individual Load Hold Check on All Ports |                              |        |                                                                                                                                                     |            |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Max. Port Pressures: P - 315 bar A & B - 315 bar T - 35 bar                                                                |                              |        |                                                                                                                                                     |            |
| Adjustable Pressure: 120 - 250 bar (Options Available) Preset: 180 bar                                                     |                              |        |                                                                                                                                                     |            |
| Ports: P - G 1/2 A & B - G 1/2 T - G 3/4                                                                                   |                              |        |                                                                                                                                                     |            |
| Order Code                                                                                                                 | Description                  | Spools | Spool/Operator                                                                                                                                      | List Each  |
| Z80-1000830                                                                                                                | Z80/A1KZ1-G                  | 1      | D/A Cylinder / Spring Centred                                                                                                                       | \$404.00   |
| Z80-1000831                                                                                                                | Z80/B1KZ1-G                  |        | S/A Cylinder / Spring Centred                                                                                                                       |            |
| Z80-1000832                                                                                                                | Z80/C1KZ1-G                  |        | P → A, Lever Box Position 2 / Spool IN                                                                                                              |            |
| Z80-4090608                                                                                                                | Z80/D1KZ1-G                  |        | S/A Cylinder / Spring Centred                                                                                                                       |            |
| Z80-1000838                                                                                                                | Z80/A8KZ1-G                  |        | P → B, Lever Box Position 1 / Spool OUT                                                                                                             | \$464.00   |
| Z80-1005959                                                                                                                | Z80/D8KZ1-G                  |        | D/A Motor / 3 Position Detent                                                                                                                       |            |
| Z80-1000835                                                                                                                | Z80/L12KZ1-G                 |        | D/A Motor / 3 Position Detent                                                                                                                       | \$593.00   |
| Z80-1000999                                                                                                                | 2Z80/1/2x(A1KZ1)-G           | 2      | 4 Position Float<br>Spring Centred / Detent on Float<br>Detent - Lever Box Position 3 / Spool IN                                                    | \$599.00   |
| Z80-1001024                                                                                                                | 3Z80/1/3x(A1KZ1)-G           | 3      | D/A Cylinder / Spring Centred                                                                                                                       | \$820.00   |
| Z80-4119700                                                                                                                | 4Z80(193-FV)/1/4x(A1KZe1)-G  | 4      | D/A Cylinder / Spring Centred<br>MRV Preset at 193 bar and steel cap nut.<br>KZe Lever Box - SUS Hinge Pin & Rubber Boot.                           | \$1,015.00 |
| Z80-4119701                                                                                                                | 4Z80(193-FV)/1/4x(A1PKZe1)-G |        | D/A Cylinder / Spring Centred plus<br>Pneumatic Control<br>MRV Preset at 193 bar and steel cap nut.<br>KZe Lever Box - SUS Hinge Pin & Rubber Boot. | \$1,955.00 |
| Z80-1001134                                                                                                                | 5Z80/1/5x(A1KZ1)-G           | 5      | D/A Cylinder / Spring Centred                                                                                                                       | \$1,236.00 |
| Z80-1001139                                                                                                                | 6Z80/1/6x(A1KZ1)-G           | 6      | D/A Cylinder / Spring Centred                                                                                                                       | \$1,496.00 |

**Note:**

- To calculate a price for a valve not listed above add the price of the Spool &/or Spool Positioner P80 & Z80 Accessories & Spare Parts on [Page 6.11](#).
- Valves cannot be converted from left inlet to right inlet. A different spool is required.
- Z80 single spool valves have 1 x P & 1 x T port which are on the side.  
All other valves have 2 x P & 2 x T ports, side and top.

## P80 / Z80 Accessories & Spare Parts

| Order Code                                   | Description                                                                                                                                                             | List Each |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Z80 Spools</b>                            |                                                                                                                                                                         |           |
| 4124611                                      | Spool A - Z80 - D/A Cylinder                                                                                                                                            | \$97.00   |
| 4105558                                      | Spool B - Z80 - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN                                                                                                   | \$97.00   |
| 4105559                                      | Spool C - Z80 - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT                                                                                                  | \$97.00   |
| 4124612                                      | Spool D - Z80 - D/A Motor                                                                                                                                               | \$97.00   |
| 4105561                                      | Spool L – Z80 - 4 Position Float (Use only with Spool Positioner 12 - P/N 4093168)                                                                                      | \$112.00  |
| 4106996                                      | Spool AR - Z80 - D/A Cylinder                                                                                                                                           | \$97.00   |
| <b>P80 Spools</b>                            |                                                                                                                                                                         |           |
| 1000853                                      | Spool A - P80 - D/A Cylinder                                                                                                                                            | \$90.00   |
| 1000854                                      | Spool B - P80 - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN                                                                                                   | \$90.00   |
| 1000855                                      | Spool C - P80 - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT                                                                                                  | \$90.00   |
| 1000856                                      | Spool D - P80 - D/A Motor                                                                                                                                               | \$90.00   |
| 1000883                                      | Spool AR - P80 - D/A Cylinder                                                                                                                                           | \$90.00   |
| <b>Spool Positioners (Side B)</b>            |                                                                                                                                                                         |           |
| 4093150                                      | Spool Positioner 1 - P80 / Z80 / PC70 / PC100 - 3 Position Spring Centred                                                                                               | \$45.00   |
| 4093153                                      | Spool Positioner 2 - P80 / Z80 / PC70 / PC100 - 3 Position, Spring Centred / Detent<br>Detent P → B, Lever Box Position 1 / Spool OUT                                   | \$69.00   |
| 4093154                                      | Spool Positioner 3 - P80 / Z80 / PC70 / PC100 - 3 Position, Spring Centred / Detent<br>Detent P → A, Lever Box Position 2 / Spool IN                                    | \$69.00   |
| 4093816                                      | Spool Positioner 4 - P80 / Z80 / PC70 / PC100 - 2 Position, Spring Centred, 0 & 2<br>P → A, Lever Box Position 2 / Spool IN                                             | \$45.00   |
| 4099054                                      | Spool Positioner 5 - P80 / Z80 / PC70 / PC100 - 2 Position, Spring Centred, 0 & 1<br>P → B, Lever Box Position 1 / Spool OUT                                            | \$45.00   |
| 4093156                                      | Spool Positioner 8 - P80 / Z80 / PC70 / PC100 - 3 Position Detent                                                                                                       | \$60.00   |
| 4093157                                      | Spool Positioner 9 - P80 / Z80 / PC70 / PC100 - 2 Position Detent, 0 & 1<br>Detent P → B, Lever Box Position 1 / Spool OUT                                              | \$60.00   |
| 4093151                                      | Spool Positioner 10 - P80 / Z80 / PC70 / PC100 - 2 Position Detent, 0 & 2<br>Detent P → A, Lever Box Position 2 / Spool IN                                              | \$60.00   |
| 4093168                                      | Spool Positioner 12 – P80 / Z80 - 4 Position Float (Only use with Spool L - P/N 4105561)<br>Spring Centred / Detent on Float. Detent - Lever Box Position 3 / Spool OUT | \$156.00  |
| 4093696                                      | Spool Positioner 1H - Proportional Hydraulic Control - P80 / Z80 / PC70 / PC100 (G 1/4 Ports)                                                                           | \$196.00  |
| 4103492                                      | Spool Positioner 1P - On / Off Pneumatic Control - P80 / Z80 / PC70 / PC100 (1/8-27 NPTF Ports)                                                                         | \$235.00  |
| N/A                                          | Spool Positioner 1EP - On / Off Electro-Pneumatic Control (For each spool order)                                                                                        | N/A       |
|                                              | 1 pcs P/N 4103492      Spool Positioner 1P (see above)                                                                                                                  |           |
|                                              | 2 pcs P/N 3V1-06-01-1/8 NPT      3/2 Pneumatic Valve - 1/8-27 NPT (see below)                                                                                           |           |
|                                              | 2 pcs Coil (see below)                                                                                                                                                  |           |
| 3V1-06-01-1/8 NPT                            | 3/2 Pneumatic Valve - 1/8-27 NPT for Spool Positioner 1EP                                                                                                               | \$44.00   |
| 3V1-06-01-D12-D                              | Coil 12V/4W DC DIN with Plug                                                                                                                                            | \$26.00   |
| 3V1-06-01-D24-D                              | Coil 24V/4W DC DIN with Plug                                                                                                                                            | \$26.00   |
| 3V1-06-01-DLP-DC                             | DIN Light Plug DC (Spare Part)                                                                                                                                          | \$12.00   |
| 3V1-06-01-D12-W                              | Coil 12V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                                                                          | \$14.00   |
| 3V1-06-01-D24-W                              | Coil 24V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                                                                          | \$14.00   |
| DT04-2P-0460                                 | Deutsch Receptacle - Female (Includes 2 pcs Solid Pin) (Customer to fit)                                                                                                | \$12.00   |
| 0460-215-16141x10                            | Deutsch Receptacle Solid Pin (Male) - Pack of 10 pcs (Spare Parts)                                                                                                      | \$33.00   |
| DT06-2S-0462                                 | Deutsch Plug - Male (Includes 2 pcs Solid Socket) (To connect to DT04-2P-0460)                                                                                          | \$15.00   |
| 0462-209-16141x10                            | Deutsch Plug Solid Socket (Female Pins) - Pack of 10 pcs (Spare Parts)                                                                                                  | \$50.00   |
| Wiring Information on Page 5.10 & Page 9.13. |                                                                                                                                                                         |           |

**Note:** See Page 6.06 or Page 6.14 for drawings of Spool Positioner 1EP Coils.

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| Order Code                            | Description                                                                                                                                                   | List Each |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>By-Pass Gallery (N Port) Plugs</b> |                                                                                                                                                               |           |
| 4093138                               | Plug C - Closed Centre - P80 / Z80                                                                                                                            | \$19.00   |
| 4093057                               | Sleeve C2 - High Pressure Carry Over / Power Beyond - P80 / Z80 (G 3/4 Port)                                                                                  | \$28.00   |
| <b>Relief Valve Parts</b>             |                                                                                                                                                               |           |
| 4125633                               | Plug SVP (Main Relief Valve Cavity Plug) - P40 / Z50 / P80 / Z80                                                                                              | \$39.00   |
| 4093120                               | Main Relief Valve - P40 / Z50 / P80 / Z80 (120 - 250 bar) (22 mm Hex) (Original Design)                                                                       | \$117.00  |
| 4124492                               | Main Relief Valve - P40 / Z50 / P80 / Z80 - D2 (50 - 120 bar) (20 mm Hex)                                                                                     | \$117.00  |
| 4123439                               | Main Relief Valve - P40 / Z50 / P80 / Z80 - D3 (120 - 250 bar) (20 mm Hex) (Standard now Fitted)                                                              | \$117.00  |
| 4125846                               | Main Relief Valve - P40 / Z50 / P80 / Z80 - D4 (220 - 315 bar) (20 mm Hex)                                                                                    | \$117.00  |
| <b>Microswitch Parts</b>              |                                                                                                                                                               |           |
| 4109521                               | Microswitch Kit 1E - P80 / Z80 / PC70 / PC100 - Spool / Positioner A1 & D1 (1 per spool)<br>(Microswitch not included)                                        | \$56.00   |
| 4109522                               | Microswitch Kit 1E - P80 / Z80 / PC70 / PC100 - Spool / Positioner B1 (1 per spool)<br>(Microswitch not included)                                             | \$56.00   |
| 4109523                               | Microswitch Kit 1E - P80 / Z80 / PC70 / PC100 - Spool / Positioner C1 (1 per spool)<br>(Microswitch not included)                                             | \$56.00   |
| 673614                                | Microswitch - IP67, SPDT, 250V AC, 30V DC (1 per spool)<br>Wiring Information on <a href="#">Page 6.09</a> .                                                  | \$60.00   |
| <b>Lever Parts</b>                    |                                                                                                                                                               |           |
| 4093048                               | Lever - P80 / Z80 / PC70 / PC100 / Joystick (M10 - 1.5 x 180 mm LOA)                                                                                          | \$20.00   |
| 4093211                               | Lever Box - P80 / Z80 / PC70 - KZ (Lever Box, PVC Boot, SHCS) (Standard)                                                                                      | \$56.00   |
| 4119600                               | Lever Box - P80 / Z80 / PC70 - KZe (Lever Box with SUS Hinge Pin, Rubber Boot, SHCS)                                                                          | \$101.00  |
| 1000169                               | PVC Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100 (Standard)                                                                                    | \$12.00   |
| 4109045                               | Rubber Boot - Lever Box P40 / Z50(1ESD) / P80 / Z80 / PC70 / PC100                                                                                            | \$20.00   |
| 4093443                               | Joystick Assembly - P80 / Z80 (J+1 or J+3)                                                                                                                    | \$300.00  |
| 4093561                               | PVC Boot - Joystick P40 / Z50 / P80 / Z80 / PC70 / PC100                                                                                                      | \$78.00   |
| <b>Seal Kits</b>                      |                                                                                                                                                               |           |
| 4093102                               | Seal Kit - P80 / Z80                                                                                                                                          | \$46.00   |
| 4093093                               | Seal Kit - 2P80 / Z80                                                                                                                                         | \$84.00   |
| 4093100                               | Seal Kit - 3P80 / Z80                                                                                                                                         | \$108.00  |
| 4093091                               | Seal Kit - 4P80 / Z80                                                                                                                                         | \$130.00  |
| 4093092                               | Seal Kit - 5P80 / Z80                                                                                                                                         | \$153.00  |
| 4093094                               | Seal Kit - 6P80 / Z80                                                                                                                                         | \$177.00  |
| 4110440                               | Seal Kit - Spool Positioner 1H - Proportional Hydraulic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100 <b>For Old Design - Square Body &amp; Flush Ports</b> | \$21.00   |
| 4128803                               | Seal Kit - Spool Positioner 1H - Proportional Hydraulic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100 <b>For New Design – Round Body &amp; Port Sockets</b> | \$21.00   |
| 4110375                               | Seal Kit - Spool Positioner 1P - On / Off Pneumatic Control<br>P40 / Z50 / P80 / Z80 / PC70 / PC100                                                           | \$26.00   |

## Spool Positioner 1H - Proportional Hydraulic Control Identification



**New Design**



**Old Design**

## P120 – 160 L/min Monoblock Valves with Metering Spool & Body



| <b>Nominal Flow: 160 L/min</b> <i>(See manufacturers catalogue)</i>              |                    |        |                                                                          |            |
|----------------------------------------------------------------------------------|--------------------|--------|--------------------------------------------------------------------------|------------|
| <b>1 - 4 Spools      Parallel Circuit      Common Load Hold Check on P Port</b>  |                    |        |                                                                          |            |
| <b>Max. Port Pressures: P - 315 bar      A &amp; B - 315 bar      T - 35 bar</b> |                    |        |                                                                          |            |
| <b>Adjustable Pressure: 50 - 315 bar      Preset: 180 bar</b>                    |                    |        |                                                                          |            |
| <b>Ports: P - G 1      A &amp; B - G 1      T - G 1</b>                          |                    |        |                                                                          |            |
| Order Code                                                                       | Description        | Spools | Spool/Operator                                                           | List Each  |
| P120-1002920                                                                     | P120/A1KZ1-G       | 1      | D/A Cylinder / Spring Centred                                            | \$859.00   |
| P120-4101803                                                                     | P120/B1KZ1-G       |        | S/A Cylinder / Spring Centred<br>P → A, Lever Box Position 2 / Spool IN  |            |
| P120-4105727                                                                     | P120/C1KZ1-G       |        | S/A Cylinder / Spring Centred<br>P → B, Lever Box Position 1 / Spool OUT |            |
| P120-4092968                                                                     | P120/D1KZ1-G       |        | D/A Motor / Spring Centred                                               |            |
| P120-1002923                                                                     | P120/A8KZ1-G       |        | D/A Cylinder / 3 Position Detent                                         | \$934.00   |
| P120-4101163                                                                     | P120/D8KZ1-G       |        | D/A Motor / 3 Position Detent                                            |            |
| P120-4092562                                                                     | 02P120/2x(A1KZ1)-G | 2      | D/A Cylinder / Spring Centred                                            | \$1,197.00 |
| P120-4092566                                                                     | 03P120/3x(A1KZ1)-G | 3      | D/A Cylinder / Spring Centred                                            | \$1,587.00 |
| P120-4096785                                                                     | 04P120/4x(A1KZ1)-G | 4      | D/A Cylinder / Spring Centred                                            | \$1,990.00 |

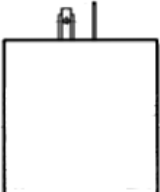
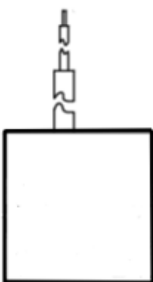
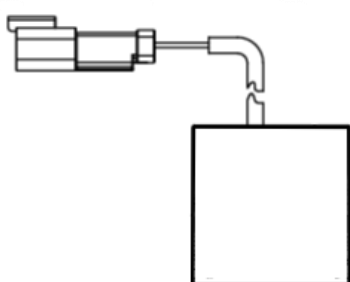
**Note:**

- To calculate a price for a valve not listed above add the price of the Spool &/or Spool Positioner from P120 Accessories & Spare Parts on [Page 6.14](#).
- Valves cannot be converted from left inlet to right inlet. A different spool is required.
- All P120 spool valves have 2 x P & 2 x T ports, side and top.

## P120 Accessories & Spare Parts

| Order Code                        | Description                                                                                                       | List Each |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Spools</b>                     |                                                                                                                   |           |
| 1002927                           | Spool A - P120 - D/A Cylinder                                                                                     | \$119.00  |
| 4093354                           | Spool B - P120 - S/A Cylinder (P → A), Lever Box Position 2 / Spool IN                                            | \$119.00  |
| 4100010                           | Spool C - P120 - S/A Cylinder (P → B), Lever Box Position 1 / Spool OUT                                           | \$119.00  |
| 4092942                           | Spool D - P120 - D/A Motor                                                                                        | \$119.00  |
| <b>Spool Positioners (Side B)</b> |                                                                                                                   |           |
| 4099875                           | Spool Positioner 1 - P120 - 3 Position Spring Centred                                                             | \$51.00   |
| 4100011                           | Spool Positioner 2 - P120 - 3 Position, Spring Centred / Detent<br>Detent P → B, Lever Box Position 1 / Spool OUT | \$91.00   |
| 4100012                           | Spool Positioner 3 - P120 - 3 Position, Spring Centred / Detent<br>Detent P → A, Lever Box Position 2 / Spool IN  | \$91.00   |
| 4100060                           | Spool Positioner 4 - P120 - 2 Position, Spring Centred, 0 & 2<br>P → A, Lever Box Position 2 / Spool IN           | \$51.00   |
| 4103771                           | Spool Positioner 5 - P120 - 2 Position, Spring Centred, 0 & 1<br>P → B, Lever Box Position 1 / Spool OUT          | \$51.00   |
| 4093158                           | Spool Positioner 8 - P120 - 3 Position Detent                                                                     | \$75.00   |
| 4103772                           | Spool Positioner 9 - P120 - 2 Position Detent, 0 & 1<br>Detent P → B, Lever Box Position 1 / Spool OUT            | \$75.00   |
| 4100732                           | Spool Positioner 10 - P120 - 2 Position Detent, 0 & 2<br>Detent P → A, Lever Box Position 2 / Spool IN            | \$75.00   |
| 4103880                           | Spool Positioner 1H - Proportional Hydraulic Control - P120 (G 1/4 Ports)                                         | \$261.00  |
| 4098867                           | Spool Positioner 1P - On / Off Pneumatic Control - P120 (1/8-27 NPTF Ports)                                       | \$260.00  |
| N/A                               | Spool Positioner 1EP - On / Off Electro-Pneumatic Control (For each spool order)                                  | N/A       |
|                                   | 1 pcs P/N 4098867      Spool Positioner 1P (see above)                                                            |           |
|                                   | 2 pcs P/N 3V1-06-01-1/8 NPT      3/2 Pneumatic Valve - 1/8-27 NPT (see below)                                     |           |
|                                   | 2 pcs Coil (see below)                                                                                            |           |
| 3V1-06-01-1/8 NPT                 | 3/2 Pneumatic Valve - 1/8-27 NPT for Spool Positioner 1EP                                                         | \$44.00   |
| 3V1-06-01-D12-D                   | Coil 12V/4W DC DIN with Plug                                                                                      | \$26.00   |
| 3V1-06-01-D24-D                   | Coil 24V/4W DC DIN with Plug                                                                                      | \$26.00   |
| 3V1-06-01-DLP-DC                  | DIN Light Plug DC (Spare Part)                                                                                    | \$12.00   |
| 3V1-06-01-D12-W                   | Coil 12V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                    | \$14.00   |
| 3V1-06-01-D24-W                   | Coil 24V/4W DC Wire – To convert to Deutsch use DT04-2P-0460 (Customer to fit)                                    | \$14.00   |
| DT04-2P-0460                      | Deutsch Receptacle - Female (Includes 2 pcs Solid Pin) (Customer to fit)                                          | \$12.00   |
| 0460-215-16141x10                 | Deutsch Receptacle Solid Pin (Male) - Pack of 10 pcs (Spare Parts)                                                | \$33.00   |
| DT06-2S-0462                      | Deutsch Plug - Male (Includes 2 pcs Solid Socket) (To connect to DT04-2P-0460)                                    | \$15.00   |
| 0462-209-16141x10                 | Deutsch Plug Solid Socket (Female Pins) - Pack of 10 pcs (Spare Parts)                                            | \$50.00   |

Wiring Information on Page 5.10 & Page 9.13.

|                                                                                                                                                         |                                                                                                        |                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>DIN without Plug fitted</b><br/>(Plug supplied with Coil)</p> |  <p><b>Wire</b></p> |  <p><b>Wire with DT04-2P-0460</b><br/>(Customer to fit)</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

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| Order Code                            | Description                                                            | List Each |
|---------------------------------------|------------------------------------------------------------------------|-----------|
| <b>By-Pass Gallery (N Port) Plugs</b> |                                                                        |           |
| 4093139                               | Plug C - Closed Centre - P120                                          | \$23.00   |
| 4093144                               | Sleeve C2 - High Pressure Carry Over / Power Beyond - P120 (G 1 Port)  | \$33.00   |
| <b>Relief Valve Parts</b>             |                                                                        |           |
| 4130188                               | Plug SVP (Main Relief Valve Cavity Plug) - P120                        | \$72.00   |
| 4109057                               | Main Relief Valve - P120 (50 - 315 bar)                                | \$156.00  |
| <b>Lever Parts</b>                    |                                                                        |           |
| 4098498                               | Lever - P120 (M12 - 1.75 x 260 mm LOA)                                 | \$23.00   |
| 4102378                               | Lever Box - P120 - KZ (Lever Box, PVC Boot, SHCS) (Standard)           | \$64.00   |
| 1002968                               | PVC Boot - P120 (Standard)                                             | \$24.00   |
| <b>Seal Kits</b>                      |                                                                        |           |
| 4093773                               | Seal Kit - P120                                                        | \$51.00   |
| 4103779                               | Seal Kit - 02P120                                                      | \$90.00   |
| 4103781                               | Seal Kit - 03P120                                                      | \$115.00  |
| 4103783                               | Seal Kit - 04P120                                                      | \$141.00  |
| 4110441                               | Seal Kit - Spool Positioner 1H - Proportional Hydraulic Control - P120 | \$30.00   |
| 4110393                               | Seal Kit - Spool Positioner 1P - On / Off Pneumatic Control - P120     | \$37.00   |

## P81 Log Splitter Valves



| <b>Nominal Inlet Flow: P81-A2-G = 80 L/min</b><br><b>P81-Rs-G = 16 L/min</b>       |             |        |                                                                                                                                                                                                                  |           |
|------------------------------------------------------------------------------------|-------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Max. Port Pressures: P - 250 bar    A &amp; B - 300 bar    T - 10 bar</b>       |             |        |                                                                                                                                                                                                                  |           |
| <b>Main Relief Valve Adjustable Pressure: 50 - 250 bar    Preset: 150 bar</b>      |             |        |                                                                                                                                                                                                                  |           |
| <b>Pressure Release Detent Adjustable Pressure: 70 – 140 bar    Preset: 70 bar</b> |             |        |                                                                                                                                                                                                                  |           |
| <b>Port Size: P - G 3/4    A &amp; B – G 1/2    T - G 3/4</b>                      |             |        |                                                                                                                                                                                                                  |           |
| Order Code                                                                         | Description | Spools | Spool/Operator                                                                                                                                                                                                   | List Each |
| P81-4091319                                                                        | P81/A2-G    | 1      | Cylinder – 3 Position<br>Spring Centred/Pressure Released Detent<br><b>Connect B Port to Rod End of Cylinder.</b>                                                                                                | \$391.00  |
| P81-4108766                                                                        | P81/Rs-G    |        | Cylinder with 4 <sup>th</sup> Position Re-Gen<br>Spring Centred/Pressure Released Detent<br><b>Connect A Port to Rod End of Cylinder.</b><br><b>The B Port hose needs to be larger due to high Re-Gen flows.</b> | \$495.00  |

**Note:**

- Valves cannot be converted from left inlet to right inlet.
- P81 valves have 1 x P & 1 x T port which are on the side.

### Description

The P81 is an on/off monoblock directional control valve designed for a log splitter. It is spring centred in one direction and has a pressure release detent in the other direction which automatically kicks back to neutral when the cylinder reaches the end of its stroke.

**Warning:** The pressure release detent must only be used on splitting blade retraction.

The P81/A2-G is designed for a two stage (hi-low) pump.

The P81/Rs-G is designed for a single stage pump and features a regenerative function to extend the cylinder at high speed. When extra force is required the user manually shifts from high-speed mode to high force mode and a “soft stop” differentiates between the two modes.

### Pressure Released Detent

On P81/A2-G it is Spool “OUT” (Handle “IN”) position. **Connect B Port to Rod End of Cylinder.**

On P81/Rs-G it is Spool “IN” (Handle “OUT”) position. **Connect A Port to Rod End of Cylinder.**

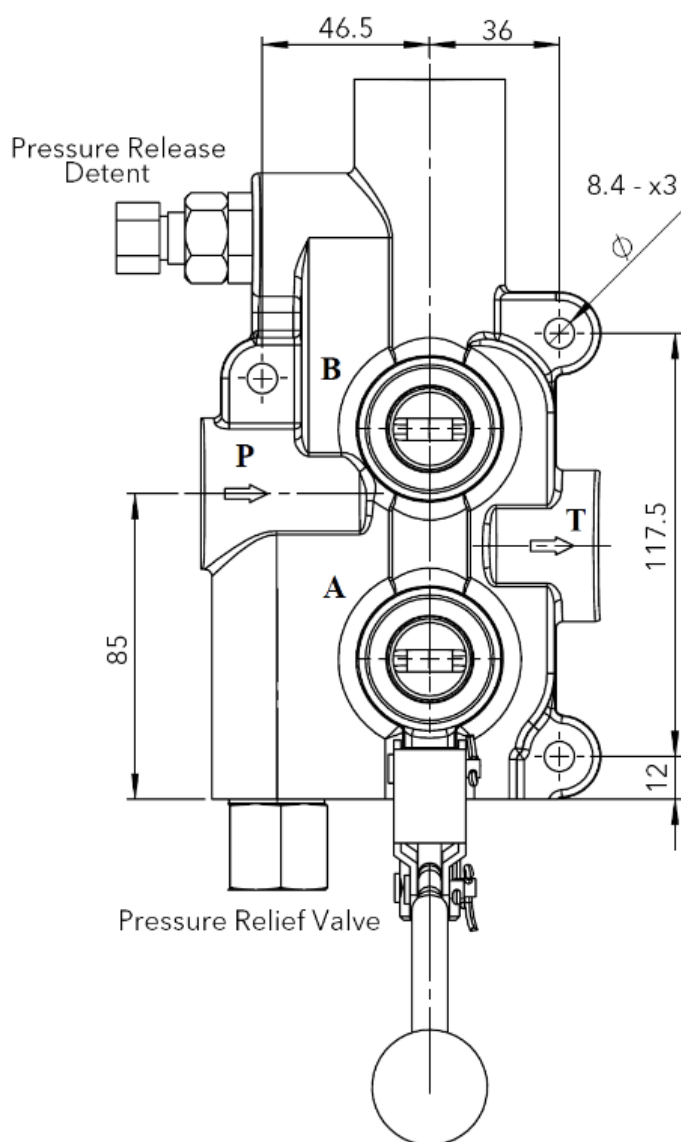
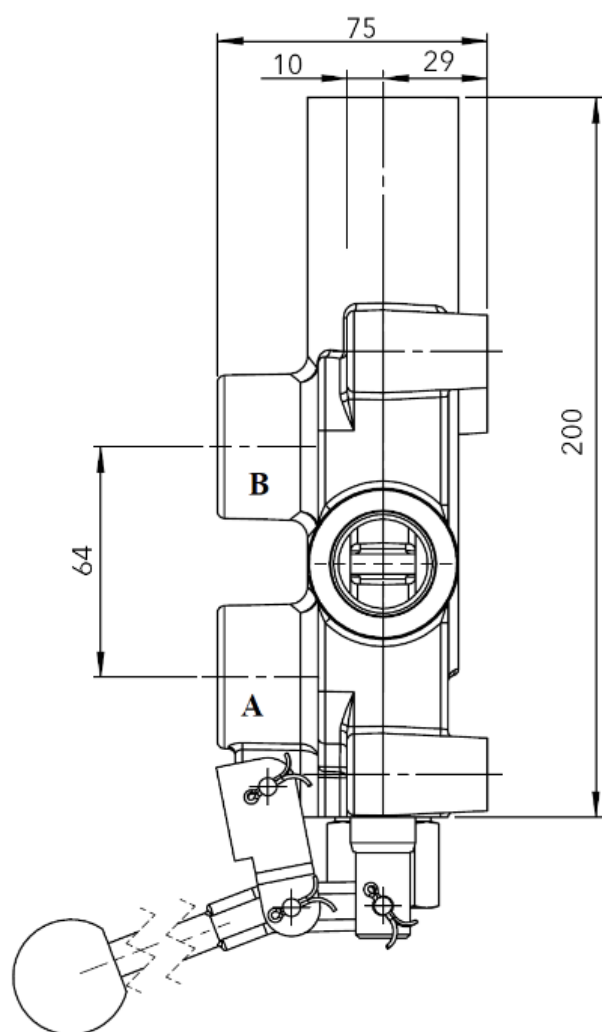
**The B Port hose needs to be larger due to high Re-Gen flows.**

**Warning:** The pressure release detent must only be used on splitting blade retraction.

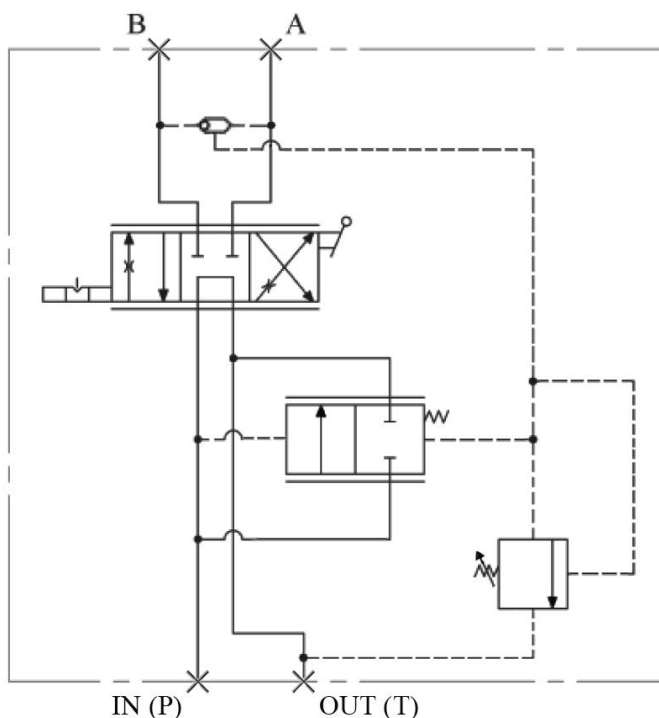
The detent release pressure is adjustable by first loosening the locking nut. Turning the adjusting screw clockwise will increase the detent release pressure and counterclockwise will decrease the pressure.

**Note:** If the detent release pressure is adjusted too high the spool will not centre; if the pressure is too low the detent will not hold.

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## P70LS Monoblock Valves with Pressure Compensated By-Pass Flow Control



| Max. Inlet Flow: 70 L/min    1 Spool Only    No Load Hold Check on P Port    |                     |                            |                         |           |
|------------------------------------------------------------------------------|---------------------|----------------------------|-------------------------|-----------|
| Max. Port Pressures: IN (P) - 210 bar    A & B - 210 bar    OUT (T) - 25 bar |                     |                            |                         |           |
| Adjustable Pressure: 50 - 210 bar    Preset: 180 bar                         |                     |                            |                         |           |
| Ports: IN (P) - 1 1/16" UNO    A & B - 7/8" UNO    OUT (T) - 1 1/16" UNO     |                     |                            |                         |           |
| Order Code                                                                   | Description         | Max. Controlled Flow L/min | Spool / Friction Detent | List Each |
| P70LS-4114384                                                                | P70LS/120/TM6/G/F1  | 22                         |                         | \$716.00  |
| P70LS-4114383                                                                | P70LS/120/TM12/G/F1 | 45                         |                         |           |
| P70LS-4114390                                                                | P70LS/120/TM18/G/F1 | 68                         |                         |           |
| P70LS-4114389                                                                | P70LS/120/OM6/G/F1  | 22                         |                         |           |
| P70LS-4114386                                                                | P70LS/120/OM12/G/F1 | 45                         |                         |           |
| P70LS-4114385                                                                | P70LS/120/OM18/G/F1 | 68                         |                         |           |

The **P70LS series** is a 4-port, 3-position directional control valve featuring an integrated pressure-compensated by-pass flow control valve and an adjustable pilot-operated pressure relief valve — all in one compact, reliable package.

Engineered for precision, the manual lever enables proportional metering of flow from either work port, ensuring consistent and smooth control of hydraulic cylinders or motors regardless of load fluctuations. The **friction detent** mechanism holds the spool in position and features a detent groove that clearly indicates the neutral position.

**Note:** P70LS valves are open By-Pass and do not have HPCO (High Pressure Carry Over / Power Beyond) capability, the T port must be connected back to tank.