



Valve Configuration

Customer: **WIEGAND PAUL GMBH EICHENZELL GER**

PCL402-04-064124-01

Application: 00153084

PCL402-04-1543A

Status Level: Quotation

Customer Contact Person: Bernhard Wirsing

Status Date: 02/15/2022 09:26:42

Customer Product ID: 00153084

PCL402-04-1543A

Created By: Dieter Timmermanns

Valve & System

| Pos | Label | Code |
|------|-----------------------------|------|
| P05 | System voltage | / |
| P04 | Port connections | G |
| P07 | Surface treatment (paint) | P |
| P08B | Type of name plate | Std |
| P10 | Pump and Tank port location | B |
| P19 | Valve variants | A79 |



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Control Sections

Base Section Data

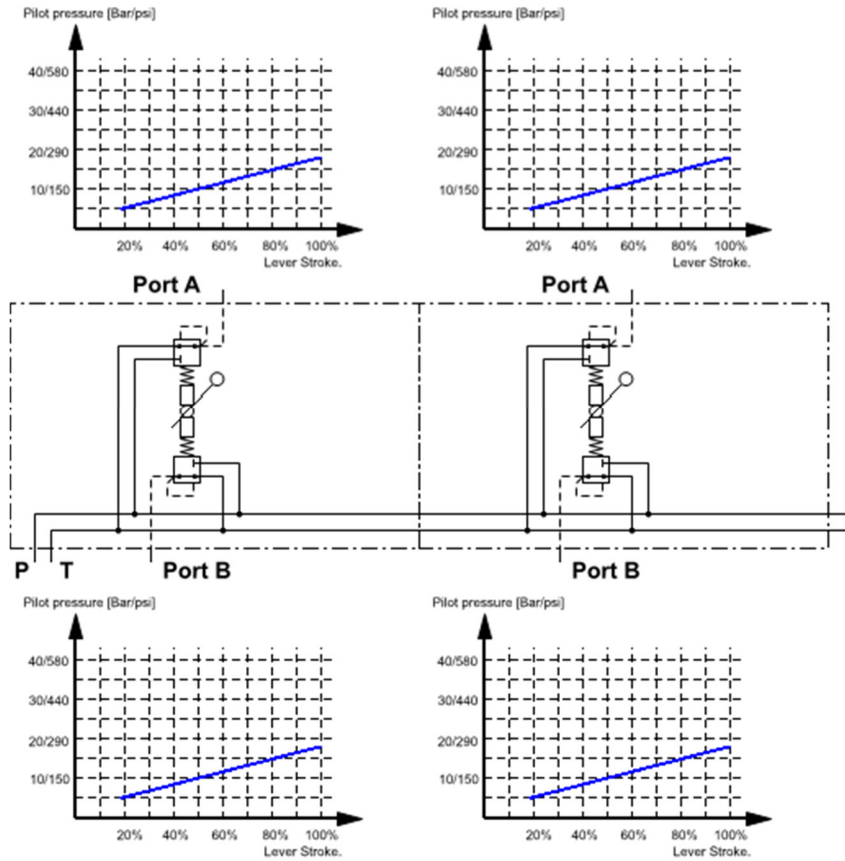
| Pos | Label | 1 | 2 |
|-----|------------------------|----|----|
| P11 | Type of mounting plate | M1 | M1 |
| P26 | Activating device | H7 | H7 |
| P27 | Handle top | W | W |
| P28 | Handle direction | 1 | 1 |
| P35 | P35_SectionVariant | | |

Pressure ports data

| Pos | Label | 1 | | 2 | |
|-----|----------------------|------|------|------|------|
| | | A | B | A | B |
| P40 | Centering spring | C0 | C0 | C0 | C0 |
| P80 | Detent | / | / | / | / |
| P51 | Breakaway pressure | 5 | 5 | 5 | 5 |
| P52 | Break point | 0 | 0 | 0 | 0 |
| P53 | Break point pressure | 0 | 0 | 0 | 0 |
| P54 | Forced opening | 0 | 0 | 0 | 0 |
| P55 | Final pressure | 17.7 | 17.7 | 17.7 | 17.7 |
| P75 | Special variant | | | | |

SpringKitData

| Pos | Label | 1 | 2 |
|------|--------------------------------|------------|------------|
| | Spring package. port A | ST-1692 | ST-1692 |
| | Spring package. port B | ST-1692 | ST-1692 |
| | Spring pack. Spare kit. Port A | 9126181692 | 9126181692 |
| | Spring pack. Spare kit. Port B | 9126181692 | 9126181692 |
| P56A | Spring. F1 | 91284555 | 91284555 |
| P56B | Spring. F1 | 91284555 | 91284555 |
| P58A | Spring. F2 | | |
| P58B | Spring. F2 | | |



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1 Valve & System

VALVE OPTIONS

[P05] System voltage i

- / - Valve without voltage
- dependent electrical functions
- 12 - Valve for 12 volt DC.
- 24 - Valve for 24 volt DC.

[P04] Port connections i

- G - All ports are BSPP threaded.
- U - All ports are UN threaded.
- M - All ports are Metric treaded
- A126 - M14 threaded ports with chamfer for O-ring

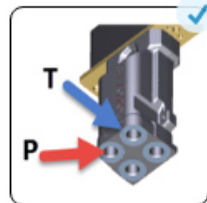
[P07] Surface treatment (paint) i

- P - Painted with black colour.
- X - Unpainted

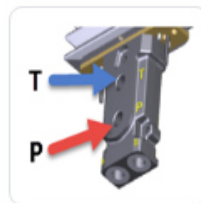
[P08B] Type of product tag (name plate) i

- Std - Valve with Parker's standard product tag
- Blank - The product tag without logotype

[P10] Pump and Tank Port Location i



B - Pump and tank connection under the valve's bottom



S - Pump and tank connections on the valve's side

[P19] Valve variants i

- A111 - Pump and tank connections on opposite side than standard
- A159 - The valve delivers with Tank and Pump ports plugged
- A210 - The products designation is not stamped on the sign plate
- A23 - Valve without mounting plate and activating device
- A79 - Valve with valve body (B) and mounting plate M1 from PCL401 -B
- PROJ - A project is raised. Reference is given in position D14.

1-1:Valve & System

2 Base Section Data

[P11] Type of Mounting Plate

M1 - Mounting plate at A79, Diameter 1... i

Handle Type. i



H-Series



L and P-Series



E-Series



All other special handles



Foot Pedal

[P26] Type of Handle


- H3 - Handle type steel pin, straight L=200 mm
- H3S - Handle type stainless steel pin, straight L=200 mm
- H4 - Handle type steel pin, bent 15 mm
- H5 - Handle type steel pin, bent 30 mm
- H6 - Handle type steel pin, bent 45 mm
- H7 - Handle type steel pin, bent 60 mm
- H8 - Handle type steel pin, straight L=120 mm
- H9 - Handle type steel pin, straight L=170 mm

[P27] Handle Top i

- B - Ball
- W - Window knob

[P28] Handle Direction i

- 1 - Mounting direction 1
- 2 - Mounting direction 2
- 3 - Mounting direction 3
- 4 - Mounting direction 4

| | | |
|----------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| W | A black plastic knob with a transparent top for insertion of a functional symbol. The symbol cannot be ordered from Parker. |  |
|----------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

2-1: Base Section Data

2.1 Handel Direction

[P28]=1



Direction of bent lever on PCL402

Foot pedals, unsymmetrical handles and levers can be mounted in different directions according to the valve body. E2, E3 and E4

handles can be mounted with the electrical switch in different directions:

| Code | Description | Info |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | Lever H4-H7, L4 and L5 bent toward pilot port A. Lever E2, E3 and E4 with the switch in line from port A to port B. Standard mounting direction of foot pedals. The operators heel above pilot port A. | |

2-2: Handel Direction

3 Pressure Port Data

[P40A] Extra Centering Spring Port A

C0 - Extra centering spring. F=19-33N



[P80A] Lever detent. port A



/ - Without detent

ED2 - Electrical detent

MD2 - Mechanical detent

S2 - Friction detent

[P75A] Special Variant Port A



A22 - S2 [P80] with electrical centre-position indicator



PROJ - A project is raised. Reference is given in position D14.



[P40B] Extra Centering Spring. Port B

C0 - Extra centering spring. F=19-33N



[P80B] Lever detent. Port B



/ - Without detent

ED2 - Electrical detent

MD2 - Mechanical detent

S2 - Friction detent

[P75B] Special Variant Port B

PROJ - A project is raised. Reference is given in position D14.



OBSERVATIONS

-Max final pressure P2) recommends being min 15 bar lower than feeding, pilot pressure, Pos P02

3-1: Pressure Port Data

3.1 Centering Spring



Any pilot port can be fitted with an extra centring spring, which serves primarily to ensure centralization of the lever unit. (Heavier lever units need stronger centring springs). Also, by fitting different springs at different ports, a co-ordinate lever (for instance) can be given different actuation resistances for different functions. A list of the different springs available is given in the table below, together with their respective force increases on the push rod. These force values should not be confused with the

inherent lever forces, since the various activating devices have different ratios.

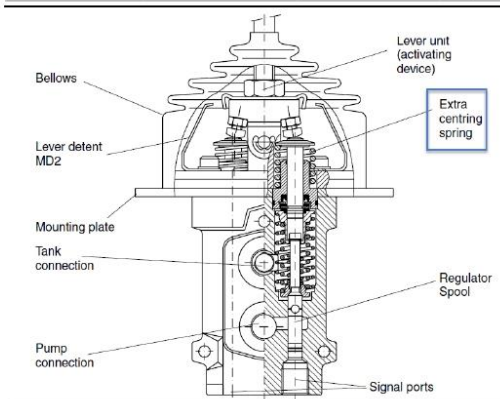
F1 is the force transmission on the activating device when the spool is in the neutral position.

F2 is the force transmission on a fully actuated activating device.

Instead of a spring a plug can be mounted preventing the use of current port.

The following options are available:

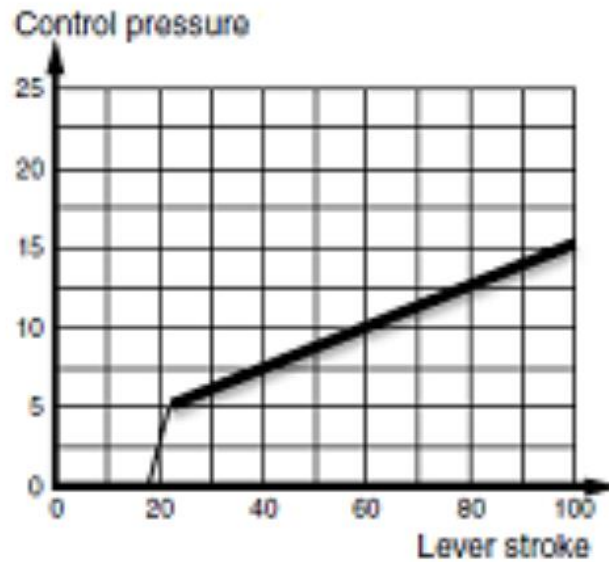
| Code | F1 [N] | F2 [N] | Description | Info |
|------|--------|--------|-------------------------------------------------------------------------------------------------------------|------|
| C0 | 19 | 33 | | |
| C1 | 25 | 45 | Recommended for foot pedal | |
| C2 | 49 | 71 | | |
| C3 | 51 | 92 | | |
| C4 | 65 | 169 | | |
| C5 | 35 | 71 | In stainless steel | |
| C6 | 100 | 214 | | |
| C7 | 5 | 8 | | |
| C8 | 130 | 243 | | |
| X | | | Without extra centring spring. Recommended for PCL402 and lever type H, L and P. | |
| Y | | | Plug preventing the use of current pilot port, also the port will be plugged. Note: a spool will be mounted | |



This is a cut drawing from PCL402. But the extra centring spring is placed on same position in a PCL401 valve.

3.2 Pressure

ST - STRAIGHT



P1 - Preferred max start pressure (bar)

5

P2 - Preferred min final pressure (Bar)

17

3-3: Breakaway Pressure; Final Pressure

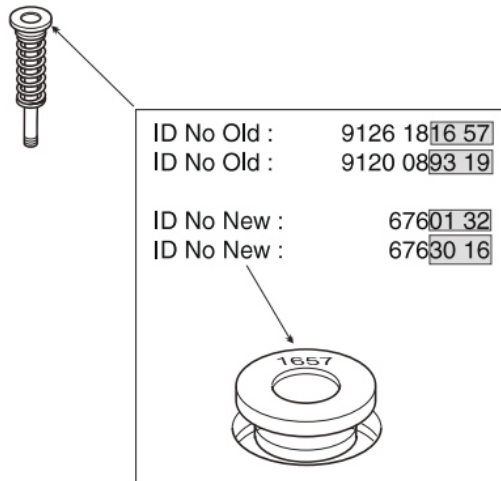
4 Spring Kit Data

4.1 Spring package Port A & B

| Code | Start pressure (Bar) | Break point % | Break pressure (Bar) | Over travel stroke (mm) | Final pressure (Bar) |
|---------|----------------------|---------------|----------------------|-------------------------|----------------------|
| ST-1692 | 5 | 0 | 0 | 0 | 17.7 |
| ST-1641 | 5 | 0 | 0 | 0 | 19.6 |
| ST-1633 | 5 | 0 | 0 | 0 | 20.9 |
| ST-1844 | 5 | 0 | 0 | 0 | 23.8 |
| ST-1653 | 5 | 0 | 0 | 0 | 24.9 |
| ST-1718 | 5 | 0 | 0 | 0 | 26.2 |
| ST-1610 | 5 | 0 | 0 | 0 | 29.4 |
| ST-1832 | 5 | 0 | 0 | 0 | 30.4 |
| ST-A7 | 4.5 | 0 | 0 | 0 | 23.3 |

4-1: Spring Package Port A & B

4.2 Spring pack Spare Kit



| Spring pack, part# | Start pressure, bar | Final pressure, bar | Straight/Broken curve | Forced opening, mm | A-design |
|--------------------|---------------------|---------------------|-----------------------|--------------------|----------|
| 9126181 657 | 1.0 | - 11.1 | ST / | T=0.0 | A** |

NB. The spool is included in the SPRING PACK assembly.

4-2: Spring Pack Spare Kit

Bulletin HY17-8815-M1/UK
Spring Packs

Directional Control valves
PCL4

| ID No | Part# | Description | Items/Remarks |
|-------|------------|------------------------------------|---------------|
| 1829 | 9126181829 | SPRING PACK 4.8-28.7 BR/T=0.5 | 1 (4556+2631) |
| 1713 | 9126181713 | SPRING PACK 4.9-15.0 ST/T=0.0 | 1 |
| 1643 | 9126181643 | SPRING PACK 5.0-8.1 ST/T=0.5 | 1 |
| 1636 | 9126181636 | SPRING PACK 5.0-12.0 BR/T=0.0 | 1 (4408+4407) |
| 1619 | 9126181619 | SPRING PACK 5.0-14.1 ST/T=0.5 | 1 |
| 1624 | 9126181624 | SPRING PACK 5.0-14.4 ST/T=0.6 | 1 |
| 1741 | 9126181741 | SPRING PACK 5.0-14.6 ST/T=0.5 | 1 |
| 1637 | 9126181637 | SPRING PACK 5.0-15.0 BR/T=0.0 | 1 (4549+4407) |
| 1604 | 9126181604 | SPRING PACK 5.0-15.0 BR/T=0.0 | 1 (4549+4575) |
| 1618 | 9126181618 | SPRING PACK 5.0-15.1 ST/T=0.0 | 1 |
| 1642 | 9126181642 | SPRING PACK 5.0-15.6 ST/T=0.0 | 1 |
| 1688 | 9126181688 | SPRING PACK 5.0-16.5 ST/T=0.5 | 1 |
| 1692 | 9126181692 | SPRING PACK 5.0-17.7 ST/T=0.0 | 1 |
| 1658 | 9126181658 | SPRING PACK 5.0-18.2 ST/T=0.5, A76 | 1 |
| 1763 | 9126181763 | SPRING PACK 5.0-18.8 ST/T=0.5 | 1 |

4-3: Spring Pack Spare Kit Port A & B

Spring F1 : 91284555 (Extra centering spring) is not found in PH Connect.

Bernhard Wirsing

Von: psc.dach.inquiries <noreplying@support.parker.com>
Gesendet: Freitag, 11. Februar 2022 12:26
An: Bernhard Wirsing
Betreff: SR0003798909 - [EXT] Vorsteuerventil Parker PCL402-04-1543A

Hallo Bernhard,

hier die alte Spec. habe ich gefunden.
Sag mir Bescheid wenn Du noch was benötigst
SWE

| Owner DIV ID | Sales Comp. | Customer Corp # | Part Number |
|-----------------|----------------|--------------------|-------------------------------|
| AB0010 | A29633 | A38194 | TEREX ERSATZTEILE GM 00153084 |
| AB0010 | A29633 | C32999 | WIEGAND PAUL GMBH EI 00153084 |

00153084

PCL402-04-1543A



Product Code PCL402

| | | |
|-------------------|-------------------|-------------------------------------------|
| Marking: | Issued: 990307 | SpecID: PCL402-1543A |
| Approve: G | Customer: SCHAEFF | Country: DE |
| Approved by: TÖ | Item No: 00153084 | |
| Cust partNo: | Remark: | <input type="checkbox"/> Converted to new |

PCL402-1543A

Utf/Our ref:MMD Godkänd av/Approved by:MABJDATUM/DATE: 980824

^TEXT 22:

```

          1  2  3  4  5                               12  13
PCL 4 02-4 -R-B-A89                               -A79 -/

          6  6:1  6:2          7  8:1  8:2          8:3  8:4          8:5  9  10  11
          PORT  A X  5.0  9128  4555  17.7 /          /  /  /  /
SECT.1  H7 W  /          B
          A
SECT.2  H7 W  /          B

NOT.2:SECT.2 NOT TO FILL OUT IF IDENTICAL TO SECT.1.

APPLICATION: BAGGER
^ÄNDRING/CHANGE F>T  DATUM/DATE BEGÄRD AV/REQ BY  PRIS/PRICE+/-  GENERATION
^6=H4>H7             940516      UDO S                               A
^-----

```

*** END OF SPECIFICATION ***

Mit freundlichen Grüßen
Best regards

i.A. Dieter Timmermanns

Bitte beachten Sie unsere aktuellen [Parker Hannifin Service eMail-Adressen](#)

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Geschäftsführung: Dr.-Ing. Hans Jürgen Haas, Achim Kohler, Andreas Paulsen, Kirsten Stenvers
Vorsitzender des Aufsichtsrates: Dr.-Ing. Gerd Scheffel



[Please type your response above]

[Customer Entry]

From
b.wirsing@paulwiegand.de
Cc
dtimmermanns@parker.com
Sent on
Thu, Feb 10, 2022 at 10:57 AM GMT

Hallo Dieter,

wir benötigen für das Vorsteuerventil
PCL402-04-1543A das Orderblatt bzw. ein Datenblatt.

Das Ventil wird von uns bei Fa. Parker zugekauft und ist in unserem Lieferprogramm.

Im Voraus besten Dank!

Mit freundlichen Grüßen

i.A. Bernhard Wirsing Dipl.-Ing. (FH)

technische Beratung

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D-36124 Eichenzell - Kerzell

Tel.: 06659 - 9862-165

Fax: 06659 - 9862-150

Web:

<https://www.paulwiegand.de>

Eingetragen beim Amtsgericht Fulda

HRB 2551

Geschäftsführer: Ottmar Rauch, Martin Schulz

Informationen zu unseren Datenschutz

Informationspflichten finden Sie

[hier](#)

-

[End of conversation]

{##300001163265652##}

-