

# Oleodinamica Marchesini V0688/PP180 in-line pressure relief valve

Manufacturer: Oleodinamica Marchesini  
Manufacturer part number / published order designation: V0688/PP180  
Published model: V0688/PP180

## About this compilation

Prepared by Hydmaster from selected manufacturer documentation. Original technical pages follow without cropped drawings, rewritten data or altered units. This cover and index are Hydmaster editorial material, not a manufacturer-issued exact-execution datasheet.

Coverage: selected pages relevant to the identified size and configuration. Other options or neighbouring models retained on an original page apply only where explicitly identified.

## Execution notes and conditions

Exact observed complete article, no generated order combinations or delivered preset.

Representative factory family image; exact option-dependent mass and envelope not inferred.

Current and original supplier-retained earlier editions differ; original pages of both editions preserved. No unqualified disputed selected spring range, maximum working pressure, option mass or cavity geometry assigned.

## Source-page index

Source page numbers below are physical pages of each complete original PDF. The original printed page labels and technical content remain unchanged. Compiled page numbers count this cover/index.

### Source A: Oleodinamica Marchesini V0688/PP180 current original technical sheet

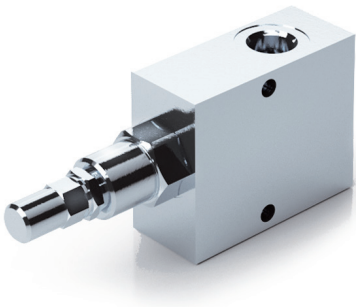
| Original pages | Compiled pages | Relevant content                                                                                                                         |
|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1              | 2              | Complete original circuit, row, adjustment/thread option and dimensional reference; edition differences qualified on the editorial index |

### Source B: Oleodinamica Marchesini V0688/PP180 earlier manufacturer execution sheet retained by supplier

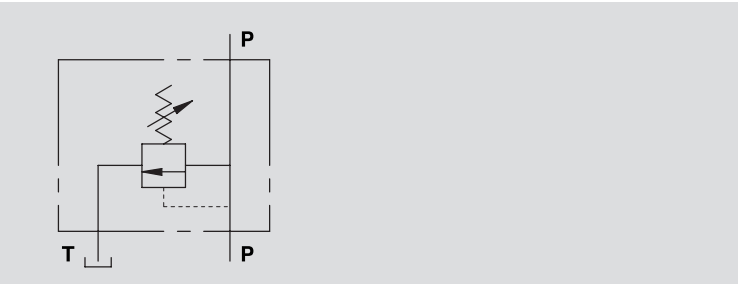
Supplemental stage/component reference; not a complete assembly drawing.

| Original pages | Compiled pages | Relevant content                                                                                                                         |
|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 1-2            | 3-4            | Complete original circuit, row, adjustment/thread option and dimensional reference; edition differences qualified on the editorial index |

VALVOLE DI MASSIMA PRESSIONE IN LINEA  
IN LINE MOUNTING RELIEF VALVES



SCHEMA IDRAULICO  
HYDRAULIC DIAGRAM



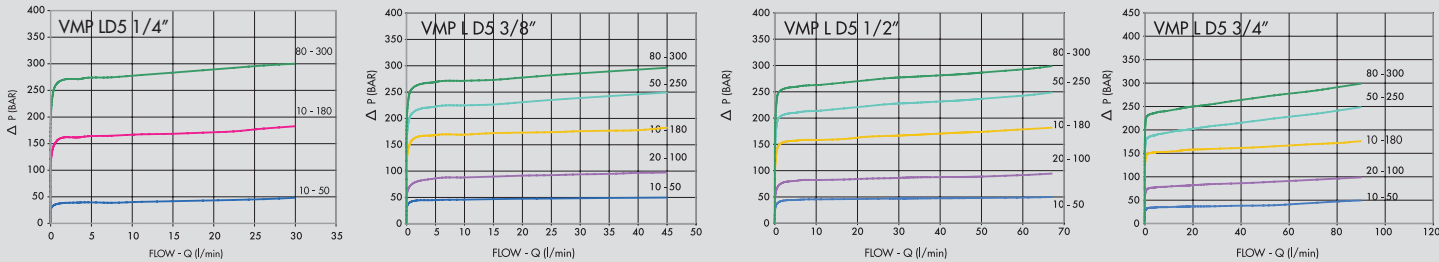
**IMPIEGO:**  
Valvola utilizzata per limitare la pressione di un circuito idraulico ad un determinato valore di taratura. Al raggiungimento di tale valore la valvola si apre e scarica la pressione in modo che questa non salga oltre il valore di taratura.

**MATERIALI E CARATTERISTICHE:**  
Corpo: acciaio zincato.  
Componenti interni: acciaio temprato termicamente e rettificato.  
Guarnizioni: BUNA N standard.  
Tenuta: a cono guidato. Trafilamento trascurabile.

**MONTAGGIO:**  
Collegare il ramo del circuito in pressione a P e il ramo di scarico a T. L'attacco P è reversibile.

**A RICHIESTA**  
• molle per diversi campi di taratura (vedi tabella)  
• pressione di taratura diversa da quella standard (CODICE/T000 specificando il valore di taratura)

PRESSIONE / PORTATA  
PRESSURE / FLOW



**USE AND OPERATION:**  
The relief valve limits the maximum pressure in a circuit to the valve's setting. When the circuit pressure reaches the setting, the valve opens and stops the circuit pressure going any higher.

**MATERIALS AND FEATURES:**  
Body: zinc-plated steel.  
Internal parts: hardened and ground steel.  
Seals: BUNA N standard.  
Leakage: Guided poppet - negligible leakage.

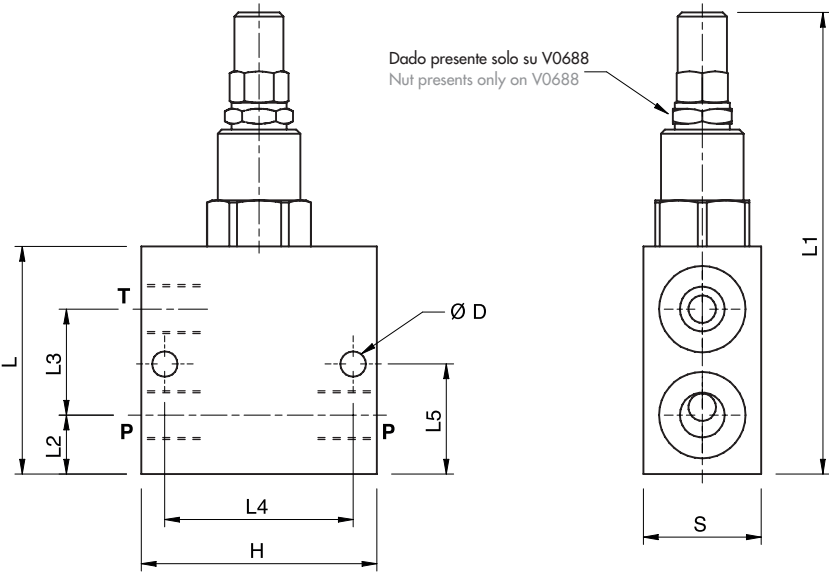
**CONNECTIONS:**  
Connect circuit port with pressure to P and tank port to T. Port P is reversible.

**ON REQUEST**  
• different setting range (see the table)  
• other setting available (CODE/T000 please specify the desired setting)

Temperatura olio: 50 °C - Viscosità olio: 30 cSt  
Oil temperature: 50 °C - Oil viscosity: 30 cSt

| CODICE<br>CODE | SIGLA<br>TYPE | PORTATA MAX<br>MAX FLOW<br>lt. / min | PRESSIONE MAX<br>MAX PRESSURE<br>Bar |
|----------------|---------------|--------------------------------------|--------------------------------------|
| V0688/000*     | VMP L D5 1/4" | 30                                   | 350                                  |
| V0691/000*     | VMP L D5 3/8" | 45                                   | 350                                  |
| V0692/000*     | VMP L D5 1/2" | 70                                   | 350                                  |
| V0693/000*     | VMP L D5 3/4" | 90                                   | 350                                  |

\*000 = specificare valore della molla desiderata. Vedi tabella sotto.  
\*000 = please specify the desired setting range. See the table below.



| CODICE<br>CODE | SIGLA<br>TYPE | P - T<br>GAS | ØD<br>mm | L<br>mm | L1<br>mm | L2<br>mm | L3<br>mm | L4<br>mm | L5<br>mm | H<br>mm | S<br>mm | PESO<br>WEIGHT<br>kg |
|----------------|---------------|--------------|----------|---------|----------|----------|----------|----------|----------|---------|---------|----------------------|
| V0688/000*     | VMP LD5 1/4"  | G 1/4"       | 6,5      | 58      | 112      | 15       | 27       | 48       | 28       | 60      | 30      | 0,940                |
| V0691/000*     | VMP LD5 3/8"  | G 3/8"       | 6,5      | 72      | 126      | 24       | 31       | 48       | 40       | 60      | 30      | 0,922                |
| V0692/000*     | VMP LD5 1/2"  | G 1/2"       | 6,5      | 72      | 126      | 22       | 35       | 48       | 40       | 60      | 30      | 0,870                |
| V0693/000*     | VMP LD5 3/4"  | G 3/4"       | 8,5      | 100     | 154      | 32       | 44       | 54       | 54       | 70      | 40      | 1,812                |

| MOLLE - SPRINGS                          |                                                                      |                                             |
|------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|
| campo di taratura<br>Setting range (bar) | Incremento bar per giro<br>Pressure increase (bar/turn)<br>Q= 4l/min | Taratura standard<br>Standard setting (bar) |
| 10 - 50*                                 | 7                                                                    | 30                                          |
| 20 - 100                                 | 12                                                                   | 75                                          |
| 10 - 180 standard                        | 30                                                                   | 90                                          |
| 50 - 250                                 | 45                                                                   | 130                                         |
| 80 - 300                                 | 50                                                                   | 150                                         |

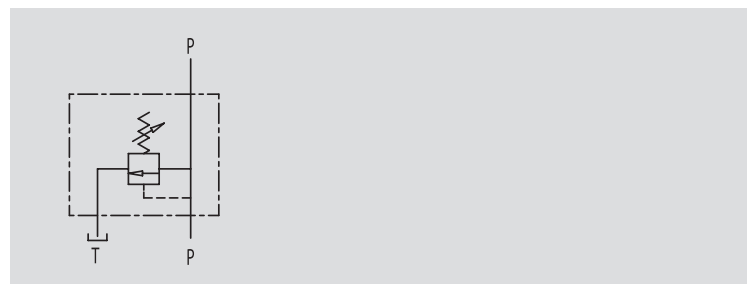
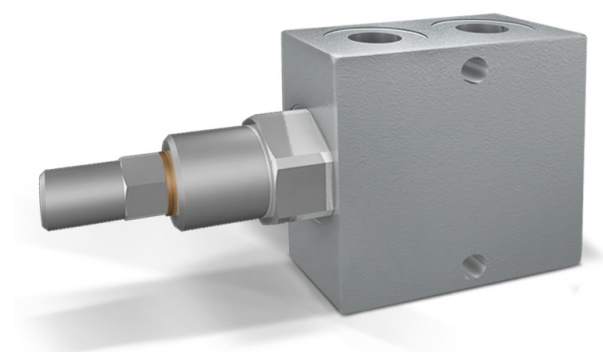
| REGOLAZIONE - ADJUSTEMENT |                                                            |
|---------------------------|------------------------------------------------------------|
| CODICE/V • CODE/V         | Valentino • Handknob                                       |
| CODICE/PP • CODE/PP       | Predisposizione alla piombatura • Arranged for sealing cap |
| CODICE/P • CODE/P         | Piombatura • Sealing cap                                   |

\* Per tarature inferiori a 70 Bar: Q = 12l/min    \* For setting less than 70 Bar: Q = 12 l/min  
\*\* Per V0688 disponibili solo versioni 10-15 / 10-190 / 80-300    \*\* For V0688 available only versions 10-15 / 10-190 / 80-300

## VALVOLE DI MASSIMA PRESSIONE IN LINEA

TIPO / TYPE

VMP L D5

SCHEMA IDRAULICO  
HYDRAULIC DIAGRAMIN LINE MOUNTING  
RELIEF VALVE**IMPIEGO:**

Valvola utilizzata per limitare la pressione di un circuito idraulico ad un determinato valore di taratura. Al raggiungimento di tale valore la valvola si apre e scarica la pressione in modo che questa non salga oltre il valore di taratura.

**MATERIALI E CARATTERISTICHE:**

Corpo: acciaio zincato  
Componenti interni: acciaio temprato termicamente e rettificato  
Guarnizioni: BUNA N standard  
Tenuta: a cono guidato. Trafilamento trascurabile

**MONTAGGIO:**

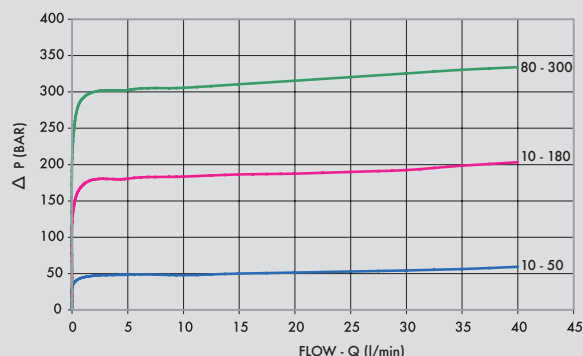
Collegare il ramo del circuito in pressione a P e il ramo di scarico a T. L'attacco P è reversibile.

**A RICHIESTA**

- molle per diversi campi di taratura (vedi tabella)
- pressione di taratura diversa da quella standard (CODICE/T000 specificando il valore di taratura)

**PRESSIONE / PORTATA**

PRESSURE / FLOW

**USE AND OPERATION:**

The relief valve provides overload protection in a fast and accurate way: when it reaches pressure setting, the valve opens allowing pressure relief in order not to exceed this setting.

**MATERIALS AND FEATURES:**

Body: zinc-plated steel  
Internal parts: hardened and ground steel  
Seals: BUNA N standard  
Poppet type: minor leakage.

**APPLICATIONS:**

Connect circuit port with pressure to P and tank port to T. Port P is reversible.

**ON REQUEST**

- different setting range (see the table)
- other setting available (CODE/T000 please specify the desired setting)

Temperatura olio: 50°C - Viscosità olio: 30 cSt

Oil temperature: 50° C - Oil viscosity: 30 cSt



CODICE  
CODE

SIGLA  
TYPE

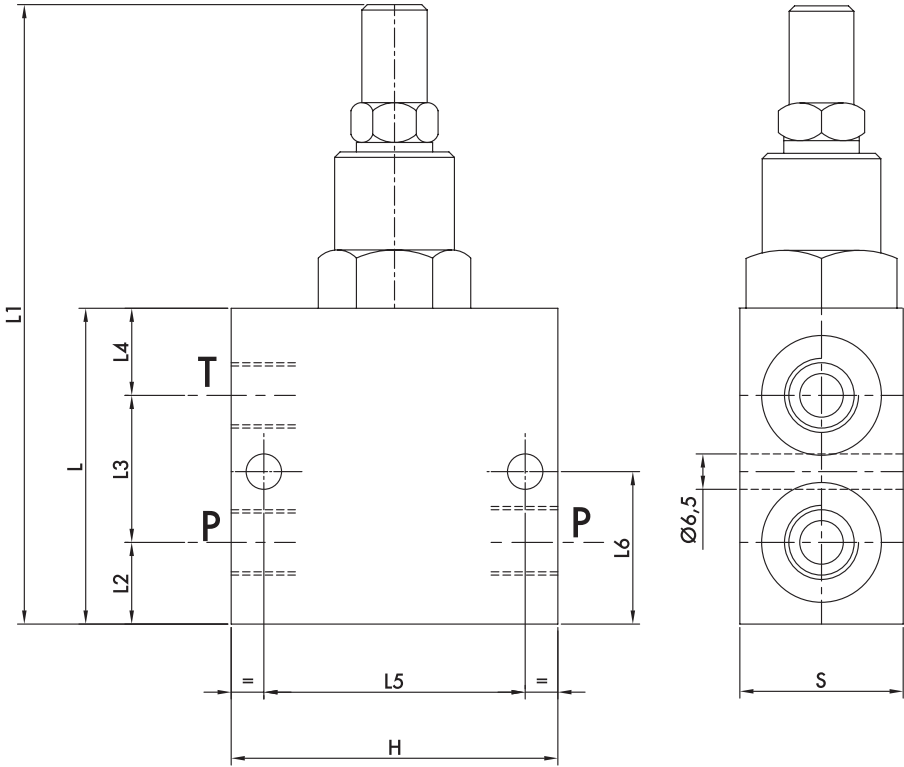
PORTATA MAX  
MAX FLOW  
Lt. / min

**V0688/000\***

VMP/L/D5 1/4"

30

\*000 = specificare valore della molla desiderata. Vedi tabella sotto.  
\*000 = please specify the desired setting range. See the table below.



| CODICE<br>CODE    | SIGLA<br>TYPE | P - T<br>GAS | L<br>mm | L1<br>mm | L2<br>mm | L3<br>mm | L4<br>mm | L5<br>mm | L6<br>mm | H<br>mm | S<br>mm | PESO<br>WEIGHT<br>kg |
|-------------------|---------------|--------------|---------|----------|----------|----------|----------|----------|----------|---------|---------|----------------------|
| <b>V0688/000*</b> | VMP/L/D5 1/4" | G 1/4"       | 58      | 112      | 15       | 27       | 16       | 48       | 28       | 60      | 30      | 0,940                |

| CODICE<br>CODE | CAMPO DI TARATURA<br>SETTING RANGE (Bar) | INCREMENTO / GIRO<br>PRESSURE INCREASE<br>(bar/Turn) Q= 4l/min | TARATURA STANDARD<br>STANDARD SETTING<br>(Bar) |
|----------------|------------------------------------------|----------------------------------------------------------------|------------------------------------------------|
| <b>COD/050</b> | 10 - 50*                                 | 7                                                              | 30                                             |
| <b>COD/180</b> | 10 - 180                                 | 40                                                             | 100                                            |
| <b>COD/300</b> | 80 - 300                                 | 50                                                             | 150                                            |

\*Per tarature inferiori a 70 Bar: Q = 12 l/min \*For setting less than 70 Bar: Q = 12 l/min

#### REGOLAZIONE - ADJUSTEMENT

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| CODICE/V • CODE/V   | Volantino • Handknob                                       |
| CODICE/PP • CODE/PP | Predisposizione alla piombatura • Arranged for sealing cap |
| CODICE/P • CODE/PP  | Piombatura • Sealing cap                                   |