# 502 SERIES
# VPC BSP

Designed to act in case of hose breakage.
Block/Control charge's descent avoiding a sharp-fall pressure on the circuit.
BSP Threads, others available upon request.

- Materials

*Carbon Steel EN -10277-3 / AISI 316L*
Springs: *Carbon Steel DIN 17233/84(B)*

- Sectors: Industrial

- Applications: Designed for Oil hydraulic Applications according to European Directive 97.23.EC
Hammer Appllication

## MODEL STRUCTURE

**Example:**

**502.19992AN**

| Series | Material | Regulation | Size | Thread |
|---|---|---|---|---|
| 502.<br>or<br>503. | **1** → Carbon St.<br>**2** → AISI 316 | **999** → Random<br>**150** → 1,5±0,1mm<br>**250** → 2,5±0,1mm<br>**350** → 3,5±0,1mm<br>**450** → 4,5±0,1mm | DN<br>**1** → ¼" 06<br>**2** → ⅜" 10<br>**3** → ½" 13<br>**4** → ¾" 20<br>**5** → 1" 25 | 2 letters as per Table of Threads |

• Random regulation for VPC (999) although it is possible to regulate them upon request.

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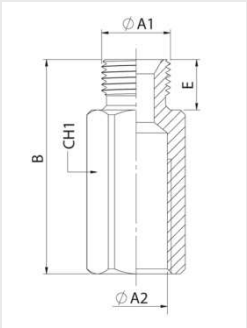
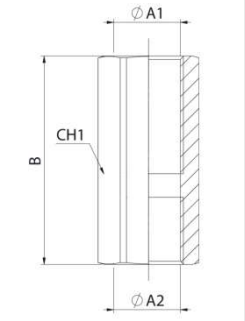
***OPERATION:***

In normal position the disc is driven by the spring allowing fluid passage from Z to Z1.
In normal conditions, the fluid returns also free to tank from Z1 to Z.
When the fluid passage increases from Z1 to Z, and the reaction flow exceeds, the disc blocks the return to tank, preventing uncontrolled descent.
The user can adjust the reaction flow (T), according to specific needs of this safety valve.



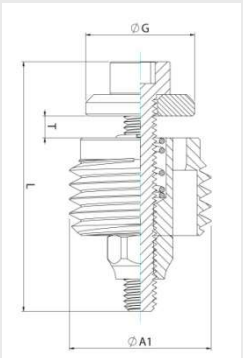

**BODY M - F**

| DN | ØA1 | ØA2 | REF. | CH1 | B | E | |
|---|---|---|---|---|---|---|---|
| 06 | ¼" BSP M. | ¼" BSP | 502.19991AM | 19 | 50 | 12 | |
| 10 | ⅜" BSP M. | ⅜" BSP | 502.19992AN | 22 | 59 | 13 | |
| 13 | ½" BSP M. | ½" BSP | 502.19993AO | 27 | 65 | 15 | 350Bar |
| 20 | ¾" BSP M. | ¾" BSP | 502.19994AP | 36 | 78 | 16 | |
| 25 | 1" BSP M. | 1" BSP | 502.19995AQ | 41 | 92 | 18 | |




**BODY F - F**

| DN | ØA1 | ØA2 | REF. | CH1 | B | |
|---|---|---|---|---|---|---|
| 06 | ¼" BSP | ¼" BSP | 502.19991AB | 19 | 48 | |
| 10 | ⅜" BSP | ⅜" BSP | 502.19992AC | 22 | 59 | |
| 13 | ½" BSP | ½" BSP | 502.19993AD | 27 | 62 | 350Bar |
| 20 | ¾" BSP | ¾" BSP | 502.19994AE | 36 | 72 | |
| 25 | 1" BSP | 1" BSP | 502.19995AF | 41 | 86 | |




**CARTRIDGE**

| DN | ØA1 | REF. | ØG | L | |
|---|---|---|---|---|---|
| 06 | ¼" BSP | 503.19991AM | 10 | 23 | |
| 10 | ⅜" BSP | 503.19992AN | 13.80 | 23 | |
| 13 | ½" BSP | 503.19993AO | 16 | 34 | 350Bar |
| 20 | ¾" BSP | 503.19994AP | 20 | 34 | |
| 25 | 1" BSP | 503.19995AQ | 24 | 43 | |

***✶SPECIAL OPTIONS:***

**A hole for despressurization on the VPC valve can be delivered for minimum quantities upon request.**
**Adding a three number code at the end of the reference depending on the diameter of the hole.**
**Examples:**
**Ø6 mm → 060**
**Ø10 mm → 100**

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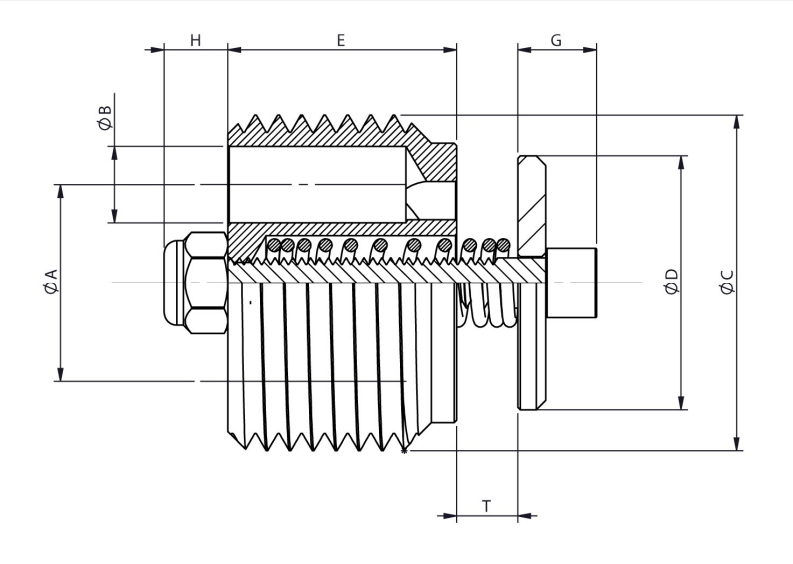
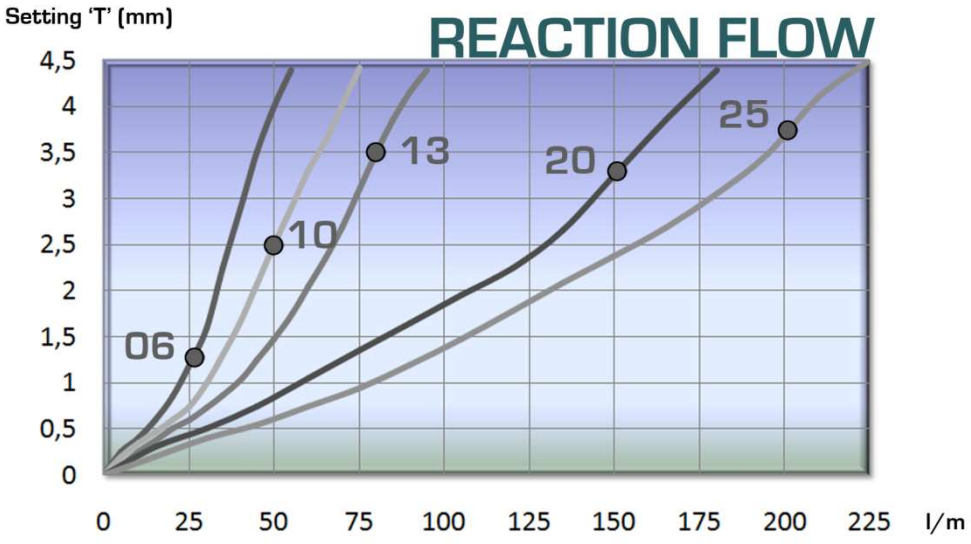
## REACTION FLOW




| DN | Max. Flow Rate | Max. Pressure | A mm | B mm | C BSP | D mm | E mm | T mm | G mm | H mm |
|---|---|---|---|---|---|---|---|---|---|---|
| 06 | 25 LPM | 350 BAR | 8.2 | 2.25 | 1/4'' | 10 | 9 | See diagram below | 5 | 4 |
| 10 | 50 LPM | 350 BAR | 11 | 3 | 3/8'' | 13.8 | 11 | | 5 | 4 |
| 13 | 80 LPM | 350 BAR | 12 | 4.5 | 1/2'' | 16 | 13 | | 5 | 5 |
| 20 | 150 LPM | 350 BAR | 15.5 | 6 | 3/4'' | 20 | 18 | | 6.2 | 5 |
| 25 | 200 LPM | 350 BAR | 20 | 7 | 1'' | 24 | 21 | | 7.5 | 5 |

Test performed according to ISO 18869

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