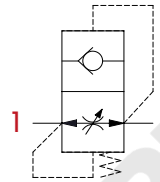
# VBA HOSE BURST BSPP

## HOSE BURST VALVES

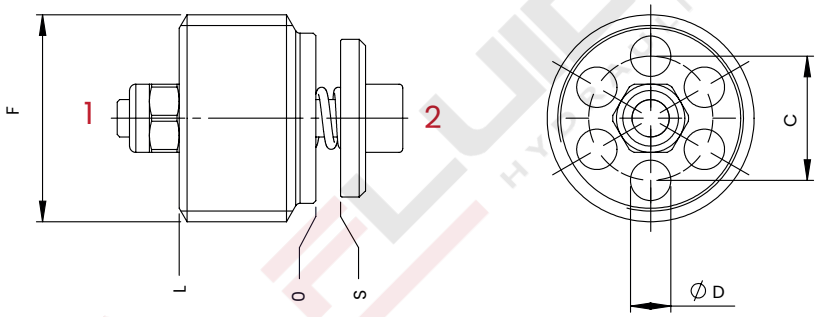
The VBA hose burst are mounted directly on the cylinder to avoid an uncontrolled descent of the load in the event of a hose break. They are protected externally by a manganese phosphating treatment



## HYDRAULIC CIRCUIT




**The VBA valves are supplied without any setting and the nut is not tightened.**
**To ensure the correct functioning of the valve, it is mandatory to perform the setting (S) by the final installer.**
**On request, it is possible to request the valve already calibrated (S) and possibly the hole on the plate (H).**

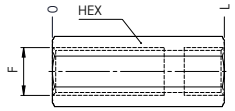



## TECHNICAL CHARACTERISTICS

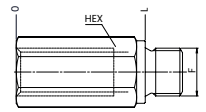
**mm** [Inches]

| F | C | D | L |
|---|---|---|---|
| 1/4 BSPP | 8 [0,31] | 2,5 [0,10] | 8,2 [0,32] |
| 3/8 BSPP | 10 [0,39] | 3,25 [0,13] | 11 [0,43] |
| 1/2 BSPP | 11,5 [0,45] | 4 [0,16] | 13 [0,51] |
| 3/4 BSPP | 14,5 [0,57] | 5,2 [0,20] | 18 [0,70] |
| 1 BSPP | 19 [0,75] | 7 [0,28] | 20 [0,79] |

## HOUSING

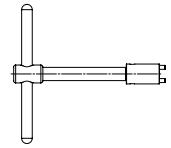



| CODE | F ports | L | HEX |
|---|---|---|---|
| 33300026 | 1/4 BSPP | 61 [2,40] | 19 [0,75] |
| 33300028 | 3/8 BSPP | 63 [2,48] | 22 [0,87] |
| 33300015 | 1/2 BSPP | 62 [2,44] | 27 [1,06] |
| 33300025 | 3/4 BSPP | 75 [2,95] | 32 [1,26] |



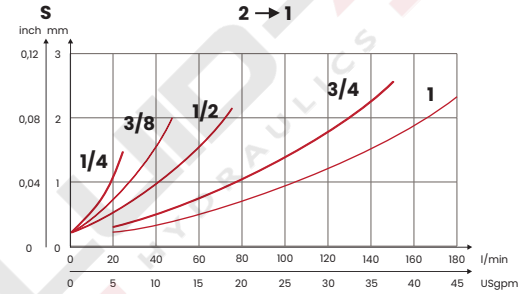

| CODE | F ports | L | HEX |
|---|---|---|---|
| 33300018 | 1/4 BSPP | 39 [1,53] | 19 [0,75] |
| 33300029 | 3/8 BSPP | 45 [1,77] | 22 [0,87] |
| 33300021 | 1/2 BSPP | 52 [2,04] | 27 [1,06] |
| 33300024 | 3/4 BSPP | 59 [2,32] | 32 [1,26] |

## OPTIONAL TOOL



| CODE | TYPE | WEIGHT kg lbt |
|---|---|---|
| CHI01 | VBA1B | 0,12 [0,27] |
| CHI02 | VBA2B | 0,13 [0,29] |
| CHI03 | VBA3B | 0,15 [0,33] |
| CHI04 | VBA4B | 0,20 [0,44] |

## PERFORMANCES




**It is recommended to setting (S) the valve to a flow rate corresponding to 1.5 times the system flow rate.**

## ORDERING CODE

| CODE | TYPE | CAVITY | F ports | MAX FLOW l/min [USgpm] | MAX PRESSURE bar [PSI] | VALVE TIGHTENING TORQUE Nm [lbt ft] | NUT TIGHTENING TORQUE FOR ADJUSTMENT Nm [lbt ft] | WEIGHT kg [lb] |
|---|---|---|---|---|---|---|---|---|
| FA6001 | VBA1B | FC100 | 1/4 BSPP | 25 [6,6] | 350 [5075] | 4 [3] | 1 [0,7] | 0,007 [0,015] |
| FA6002 | VBA2B | FC101 | 3/8 BSPP | 50 [13,2] | | 6 [4,5] | | 0,014 [0,030] |
| FA6003 | VBA3B | FC102 | 1/2 BSPP | 80 [21,1] | | 10 [7,5] | 2 [1,5] | 0,025 [0,055] |
| FA6004 | VBA4B | FC103 | 3/4 BSPP | 150 [39,6] | | 15 [11] | | 0,055 [0,12] |
| FA6005 | VBA5B | FC104 | 1 BSPP | 180 [47,5] | | 20 [15] | | 0,10 [0,22] |
| **(S) setting on request - (H) hole on the plate on request** | | | | | | | | |
| See cavity paragraph p. 381 | | | | | | | | |

UPDATE. Aug. 2026 (v.13)



**Mineral oil**: DIN 51524 ISO 6743/4 | **Oil viscosity**: 15 to 250 cSt 15-250 mm2/s | **Oil temperature**: -4°F + 176°F -20°C +80°C | **Ambient temperature**: -4°F + 122°F -20°C +50°C | **Max contamination index with filter**: 5 to 250 cSt 15-250 mm2/s | It is necessary a filter use to protect the valve (advised filtration 15 µm) | **Max leakage**: 0,25 cm3/min - 5 drops/min

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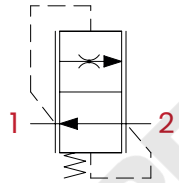
# F1T FLOW CONTROL 1/4 BSPP

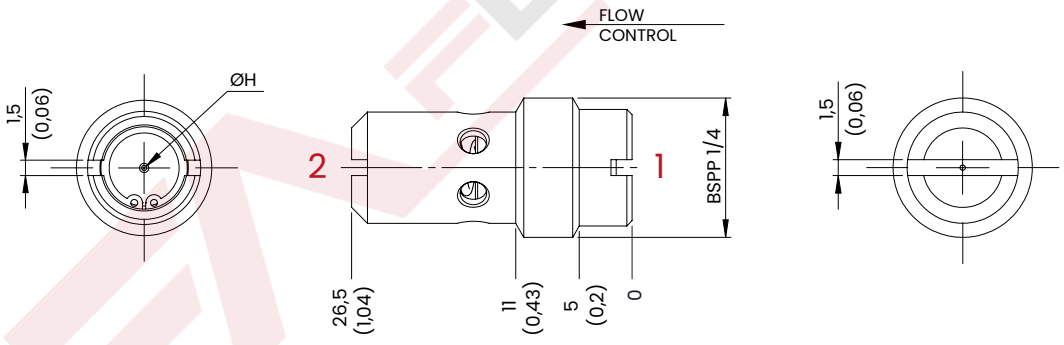
## 1/4 BSPP FLOW CONTROL VALVES - PRESSURE COMPENSATED - DOUBLE CUT

The fixed compensated flow control valve F1T (1/4 G) is used to keep the descent speed of a load constant, regardless of the operating pressure and the value of the load. Typical use is related to tail lifts and hydraulic platforms. They are protected externally by a manganese phosphating treatment.



## HYDRAULIC CIRCUIT

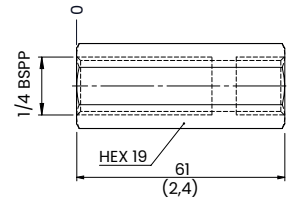



**mm** [Inches]

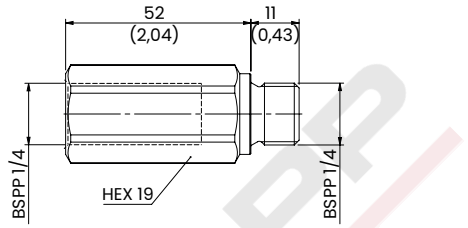
**CODE**

**33300026**




**CODE**

**33300027**




## ORDERING CODE

| CODE | TYPE | CAVITY | CONTROLLED FLOW AT 100 bar ± 10% l/min [USgpm] | Ø H mm [inches] | MAX PRESSURE bar [PSI] | TIGHTENING TORQUE Nm [lbf ft] | WEIGHT kg [lb] |
|---|---|---|---|---|---|---|---|
| FA4067 | F1T01 | FC105 1/4 BSPP See cavity paragraph p.381 | 1 [0,26] | 1 [0,04] | 250 [3625] | 4 [3] | 0,014 [0,031] |
| FA4068 | F1T02 | | 2 [0,53] | 1,2 [0,05] | | | |
| FA4069 | F1T03 | | 3 [0,79] | 1,5 [0,06] | | | |
| FA4070 | F1T04 | | 4 [1,06] | 1,7 [0,07] | | | |
| FA4071 | F1T05 | | 5 [1,32] | 1,9 [0,07] | | | |
| FA4072 | F1T06 | | 6 [1,58] | 2,1 [0,08] | | | |
| FA4073 | F1T07 | | 7 [1,85] | 2,3 [0,09] | | | |
| FA4074 | F1T08 | | 8 [2,11] | 2,4 [0,09] | | | |
| FA4075 | F1T09 | | 9 [2,38] | 2,7 [0,11] | | | |
| FA4076 | F1T10 | | 10 [2,64] | 2,8 [0,11] | | | |
| FA4077 | F1T11 | | 11 [2,90] | 3,1 [0,12] | | | |
| FA4078 | F1T12 | | 12 [3,17] | 3,3 [0,13] | | | |
| FA4079 | F1T15 | | 15 [3,96] | 5 [0,20] | | | |




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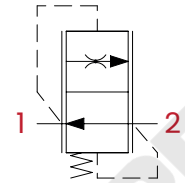
# F1E FLOW CONTROL 1/4 BSPP

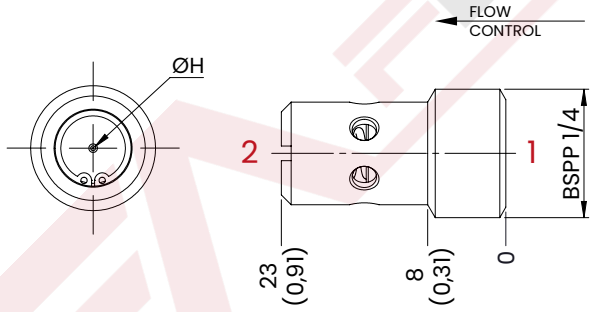
## 1/4 BSPP FLOW CONTROL VALVES - PRESSURE COMPENSATED

The fixed compensated flow control valve F1E (1/4 G) is used to keep the descent speed of a load constant, regardless of the operating pressure and the value of the load. Typical use is related to tail lifts and hydraulic platforms. They are protected externally by a manganese phosphating treatment.



## HYDRAULIC CIRCUIT

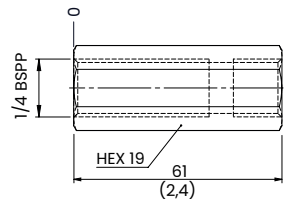



**mm** [Inches]

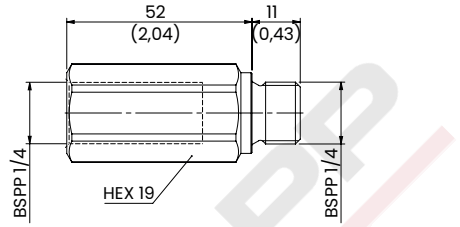
**CODE**

**33300026**




**CODE**

**33300027**




## ORDERING CODE

| CODE | TYPE | CAVITY | CONTROLLED FLOW AT 100 bar ± 10% l/min [USgpm] | Ø H mm [inches] | MAX PRESSURE bar [PSI] | TIGHTENING TORQUE Nm [lbf ft] | WEIGHT kg [lb] |
|---|---|---|---|---|---|---|---|
| FA4192 | F1E01 | FC105 1/4 BSPP See cavity paragraph p.381 | 1 [0,26] | 1 [0,04] | 250 [3625] | 4 [3] | 0,014 [0,031] |
| FA4193 | F1E02 | | 2 [0,53] | 1,2 [0,05] | | | |
| FA4194 | F1E03 | | 3 [0,79] | 1,5 [0,06] | | | |
| FA4195 | F1E04 | | 4 [1,06] | 1,7 [0,07] | | | |
| FA4196 | F1E05 | | 5 [1,32] | 1,9 [0,07] | | | |
| FA4197 | F1E06 | | 6 [1,58] | 2,1 [0,08] | | | |
| FA4198 | F1E07 | | 7 [1,85] | 2,3 [0,09] | | | |
| FA4199 | F1E08 | | 8 [2,11] | 2,4 [0,09] | | | |
| FA4200 | F1E09 | | 9 [2,38] | 2,7 [0,11] | | | |
| FA4201 | F1E10 | | 10 [2,64] | 2,8 [0,11] | | | |
| FA4202 | F1E11 | | 11 [2,90] | 3,1 [0,12] | | | |
| FA4203 | F1E12 | | 12 [3,17] | 3,3 [0,13] | | | |
| FA4204 | F1E15 | | 15 [3,96] | 5 [0,20] | | | |

UPDATE. June 2026 (v.03)



**Mineral oil**: DIN 51524 ISO 6743/4 | **Oil viscosity**: 15 to 250 cSt 15-250 mm2/s | **Oil temperature**: -4°F + 176°F -20°C +80°C | **Ambient temperature**: -4°F + 122°F -20°C +50°C | **Max contamination index with filter**: 5 to 250 cSt 15-250 mm2/s | It is necessary a filter use to protect the valve (advised filtration 15 µm)

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