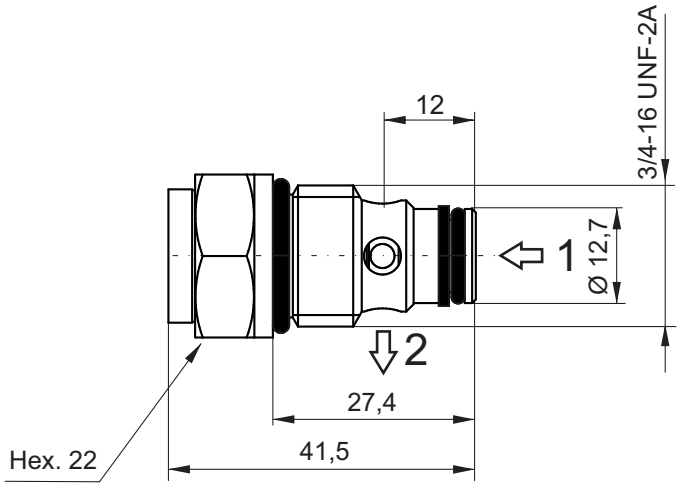
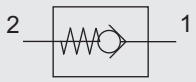
SAE08 MAIN CHECK VALVE







Main features

Max pressure	350 bar
Weight	0.052 Kg
Max flow	25 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Cracking pressure	0,5 bar
Filtration	ISO 4406

Spare part code

VUC — **Check valve**

20C — **Nominal size:** 20

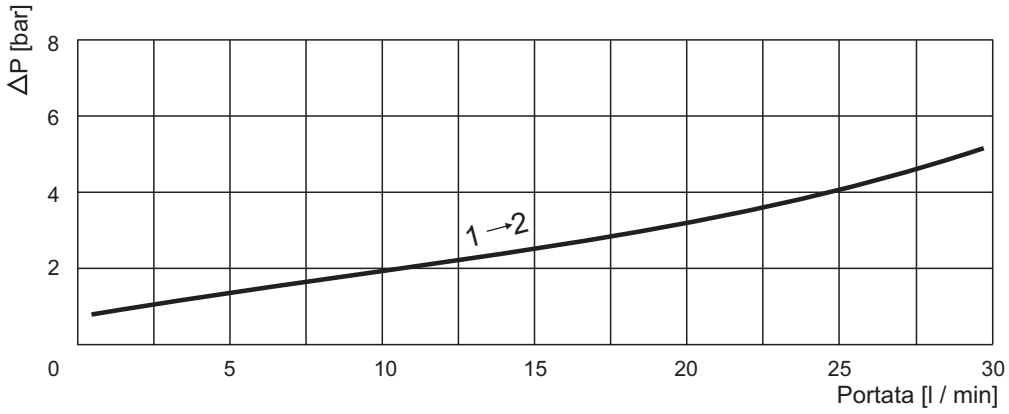
***** — **Options:**
- = no options
FP = pressure port closed with a 1/4 BSP plug

Assembly code

JC*

where * is the option

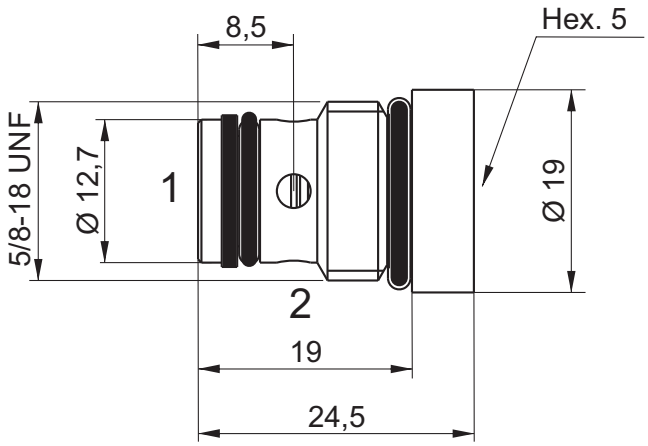
Pressure drop diagram

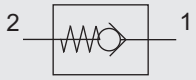


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

5/8-18 UNF MAIN CHECK VALVE







Main features

Max pressure	350 bar
Weight	0.045 Kg
Max flow	15 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Cracking pressure	1 bar
Filtration	ISO 4406
Max current	10A - 400A

Spare part code

VUC — **Check valve**

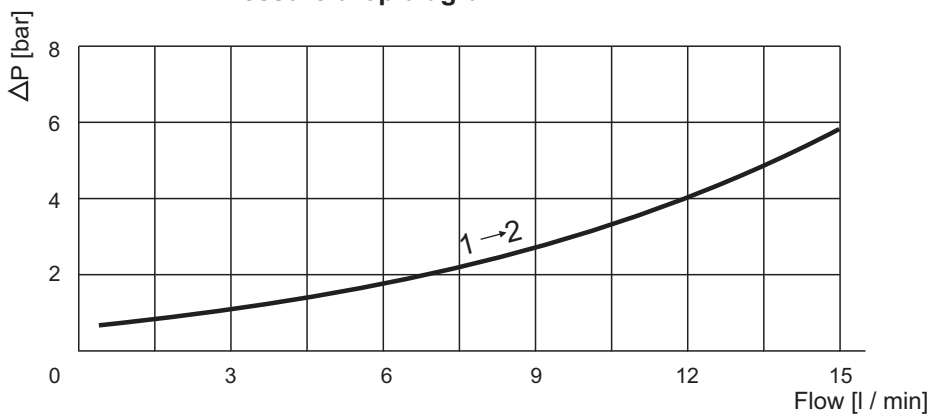
10 — **Nominal size:** 10

- — **Options:**
- = ball type
C = poppet type

Assembly code

JM (VUC10)
JP (VUC10C)

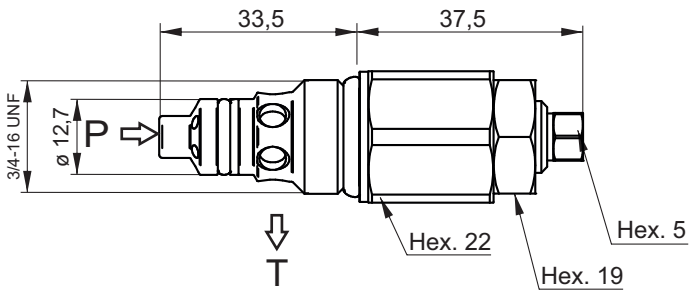
Pressure drop diagram



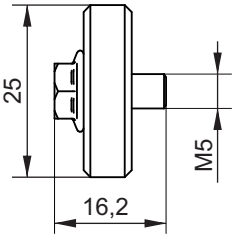
Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

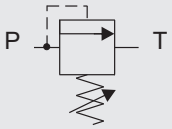
SAE08 DIRECT ACTING MAIN RELIEF VALVE





Option 2





Main features

Max pressure	400 bar
Weight	0.14 Kg
Max flow	30 l/min
Tightening torque	30 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406
Cavity	SAE08-2

Spare part code

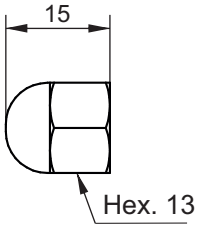
VMDC — **Relief valve**

20 — **Nominal size:**
20 = 20 l/min

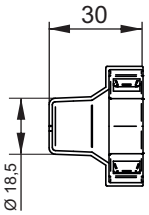
B — **Optimal Working range:**
A = 5 ÷ 50 bar
B = 50 ÷ 150 bar
C = 150 ÷ 250 bar
D = 250 ÷ 400 bar

1 — **Option:**
1 = M6 screw (std)
2 = handwheel
3 = with cap
4 = plastic seal

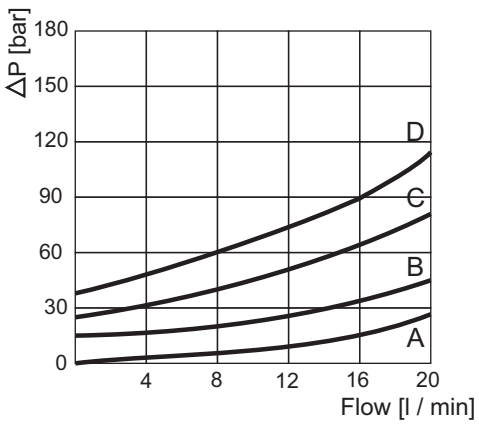
Option 3



Option 4



Minimum setting pressure



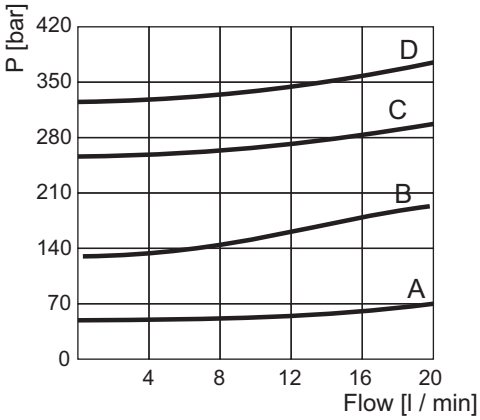
Assembly code

V* ♦**

where *** stands for max setting pressure [bar]. Ex. V250

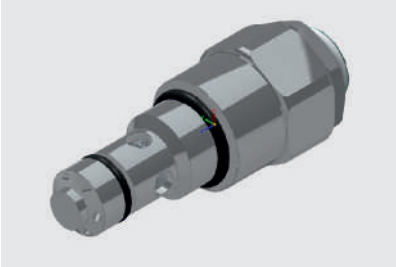
where ♦ is the option

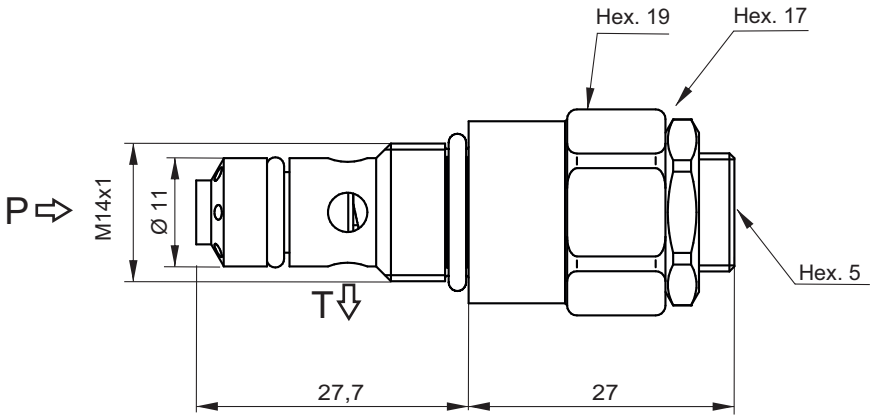
Pressure vs Flow

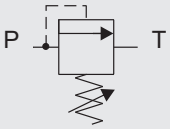


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

M14 DIRECT ACTING MAIN RELIEF VALVE FOR M MANIFOLDS







Main features

Max pressure	280 bar
Weight	0.06 Kg
Max flow	15 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406

Spare part code

VMDC — **Direct acting main relief valve**

15 — **Nominal size:** 15 = 15 l/min

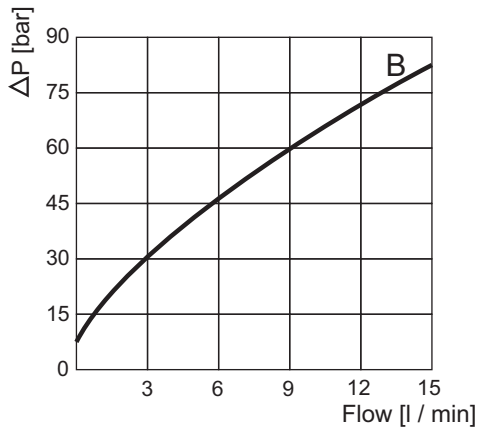
C — **Working range:** B = 5 ÷ 280 bar

1 — **Options:** 1 = screw (std)

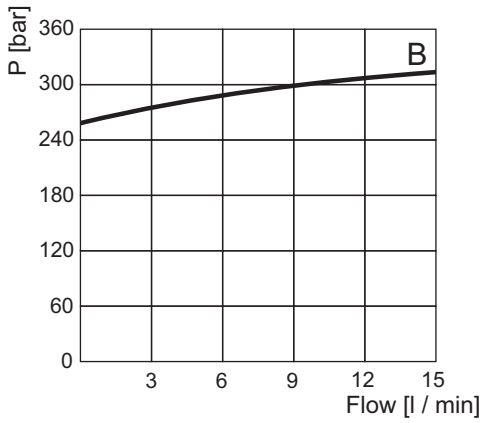
Assembly code

DM_280

Minimum setting pressure



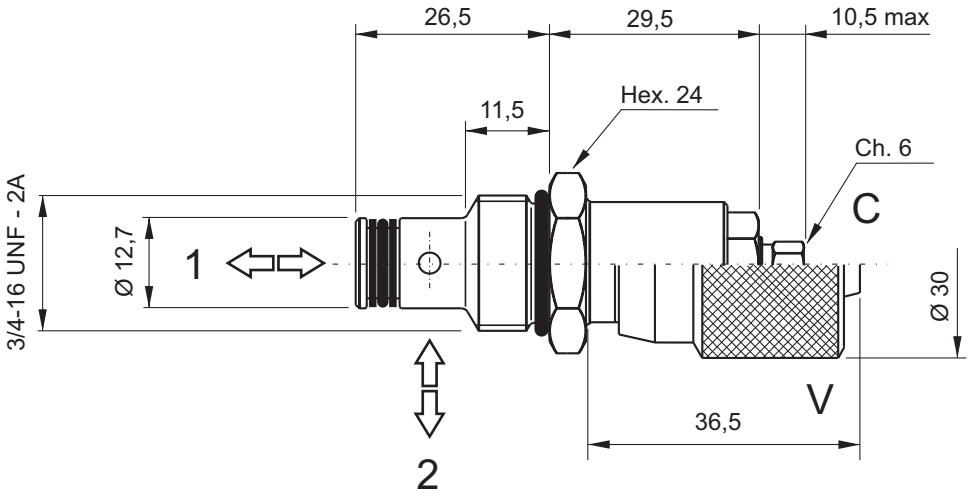
Pressure vs flow

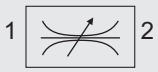


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

SAE08 BIDIRECTIONAL ADJUSTABLE FLOW CONTROL VALVE







Main features

Max pressure	300 bar
Weight	0.08 Kg
Max flow	15 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406
Cavity	SAE08-2

Spare part code

CSB — **Flow control valve**

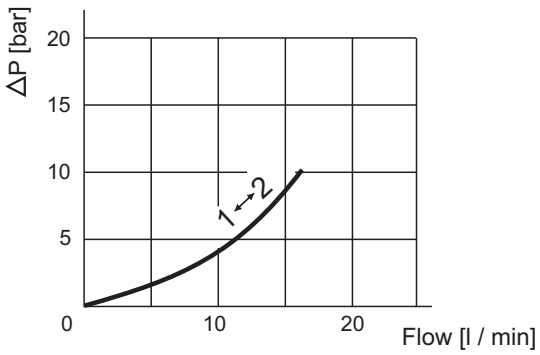
04 — **Nominal size:**
04 = SAE08

C — **Adjustment:**
C = screw (std)
V = handwheel

Assembly code

S

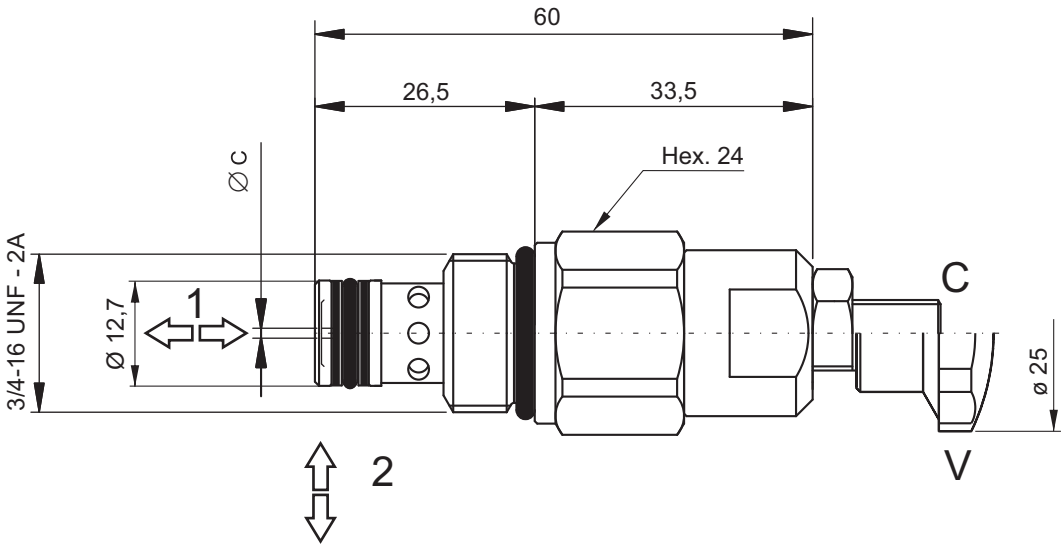
Pressure drop diagram

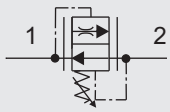


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

SAE08 PRESSURE COMPENSATED ADJUSTABLE FLOW CONTROL VALVE







Main features

Max pressure	350 bar
Weight	0.11 Kg
Max flow	18 l/min
Tightening torque	25 Nm
Fluid temperature	-20°C ÷ +80°C
Filtration	ISO 4406
Cavity	SAE08-2

Spare part code

VCF6 — **Adjustable pressure compensated flow control valve**

***** — **Nominal dimension:** see below table

C — **Adjustment:**
C = screw (std)
V = handwheel

Assembly code

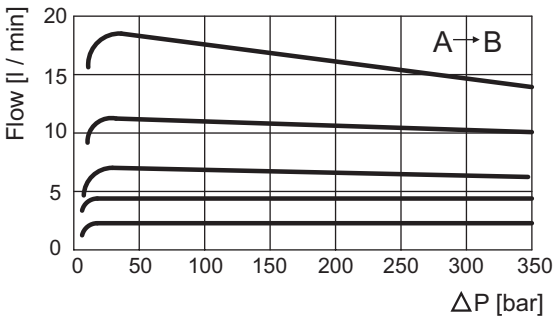
R *

Where * stands for nominal dimension

Range available

Nominal dimension	∅ C	Controlled flow at 100 bar ± 10% l/min
2	1	0,8 ÷ 3,0
3	1,3	1,3 ÷ 5,1
4	1,5	1,9 ÷ 6,8
5	1,7	2,6 ÷ 9,1
6	2,2	4,0 ÷ 14,4
7	2,8	7,2 ÷ 18,0

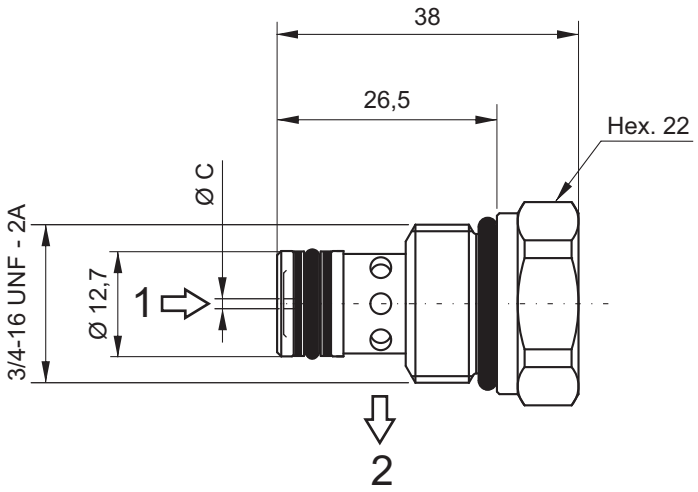
Pressure drop diagram

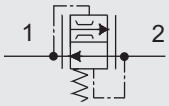


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

SAE08 PRESSURE COMPENSATED FIXED FLOW CONTROL VALVE







Main features

Max pressure	350 bar
Weight	0.06 Kg
Max flow	22 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406
Cavity	SAE08-2

Spare part code

VSC — **Pressure compensated flow control valve**

6 — **Nominal size:** 6 = SAE08

***** — **Controlled flow:** see below table

Assembly code

F*

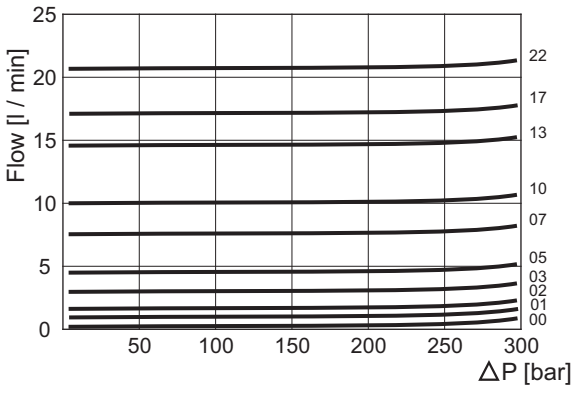
Where * stands for controlled flow [l/min]

Controlled flow

Spare part code	Ø C [mm]	Portata [l/min]
VSC600	0,8	1
VSC601	1	1,5
VSC602	1,25	2
VSC603	1,5	3
VSC605	1,75	5
VSC607	2	7
VSC610	2,5	10
VSC613	2,75	13
VSC617	3	17
VSC622	3,5	22

Note: nominal controlled flows, measured at 100 bar with an oil viscosity of 46 cSt at 50 °C, are to be taken as general reference values and must be tested in the field.

Pressure drop diagram

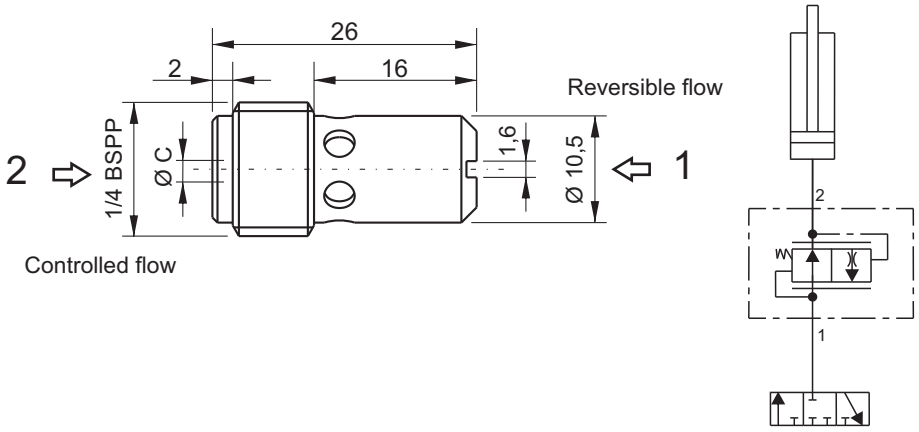


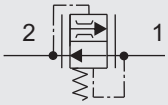
Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

1/4 BSPP PRESSURE COMPENSATED FIXED FLOW CONTROL VALVE



Typical application





Main features

Max pressure	300 bar
Weight	0.012 Kg
Max flow	22 l/min
Tightening torque	15 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406

Spare part code

VSC — **Flow control valve pressure compensated**

01 — **Nominal size:** 01

***** — **Controlled flow:** see below table

Assembly code

***(01)**

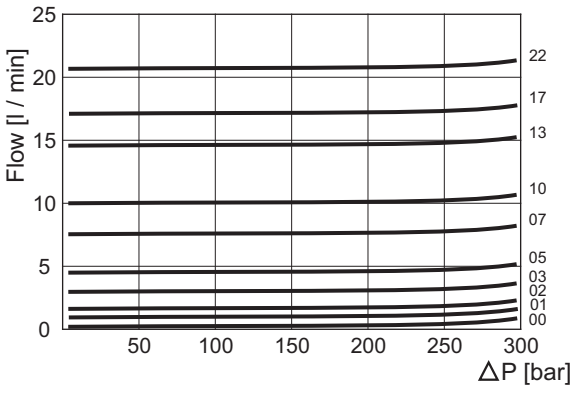
Where * stands for controlled flow [l/min]

Controlled flow

Spare part code	Ø C [mm]	Portata [l/min]
VSC0100	0,8	1
VSC0101	1	1,5
VSC0102	1,25	2
VSC0103	1,5	3
VSC0105	1,75	5
VSC0107	2	7
VSC0110	2,5	10
VSC0113	2,75	13
VSC0117	3	17
VSC0122	3,5	22

Note: nominal controlled flows, measured at 100 bar with an oil viscosity of 46 cSt at 50 °C, are to be taken as general reference values and must be tested in the field.

Pressure drop diagram

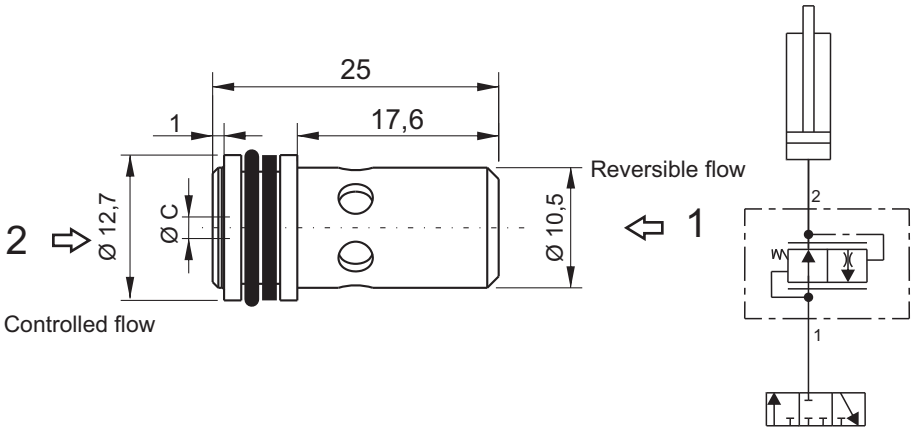


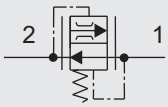
Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

SLIP-IN PRESSURE COMPENSATED FIXED FLOW CONTROL VALVE



Typical application





Main features

Max pressure	300 bar
Weight	0.012 Kg
Max flow	22 l/min
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406

Spare part code

VSC — **Flow control valve pressure compensated**

04 — **Nominal size:** 04

***** — **Controlled flow:** see below table

Assembly code

***(04)**

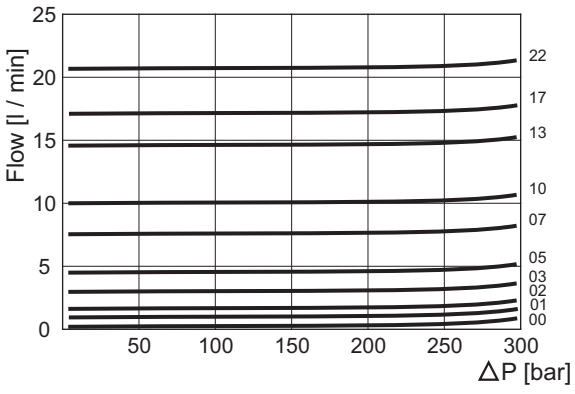
Where * stands for controlled flow [l/min]

Controlled flow

Spare part code	Ø C [mm]	Portata [l/min]
VSC0400	0,8	1
VSC0401	1	1,5
VSC0402	1,25	2
VSC0403	1,5	3
VSC0405	1,75	5
VSC0407	2	7
VSC0410	2,5	10
VSC0413	2,75	13
VSC0417	3	17
VSC0422	3,5	22

Note: nominal controlled flows, measured at 100 bar with an oil viscosity of 46 cSt at 50 °C, are to be taken as general reference values and must be tested in the field.

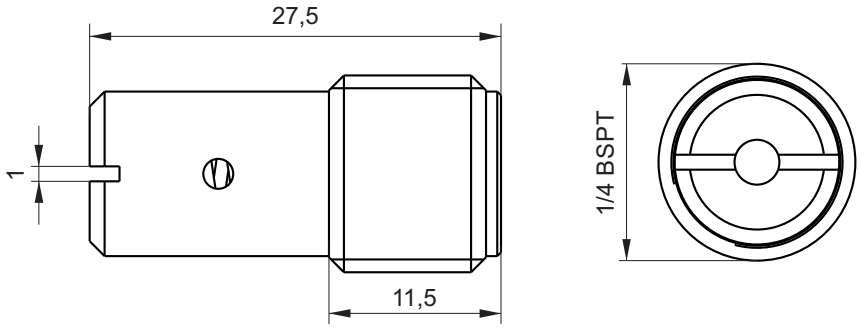
Pressure drop diagram



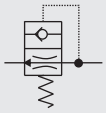
Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

1/4 BSPP START-UP VALVE FOR SINGLE PHASE ELECTRIC MOTORS





SUV01 valve is to be mounted in cavity 9 of U type and cavity 13 of S type central maindfold, after its proper machining (drilling and threading). The function of this valve is to discharge the pressure inside the central manifold line between the pump and the check valve in , when the power pack is off. It is typically used with single-phase motor starting under load, overcoming the inherent low torque at start-up of single phase AC induction motors.



Main features

Max pressure	300 bar
Weight	0.0025 Kg
Max flow	22 l/min
Min flow	2 l/min
Tightening torque	15 Nm
Fluid temperature	-10°C ÷ +80°C
Filtration	ISO 4406

Spare part code

SUV — **Start-up valve for single phase electric motors**

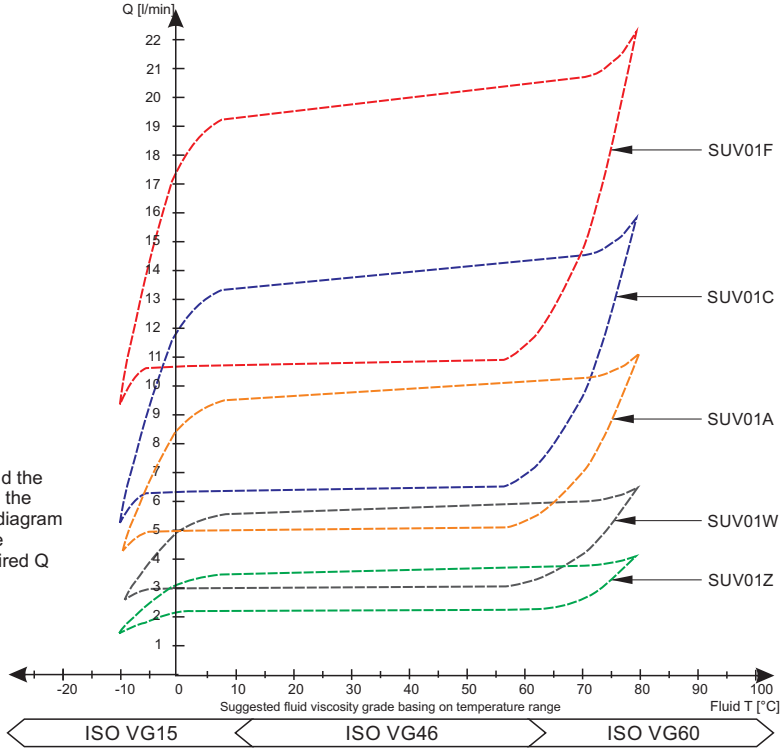
01 — **Nominal size:** 01 = 1/4 BSPT

A — **Flow reference:** see below table for the proper choice depending on pump flow and fluid temperature

Assembly code

S01*

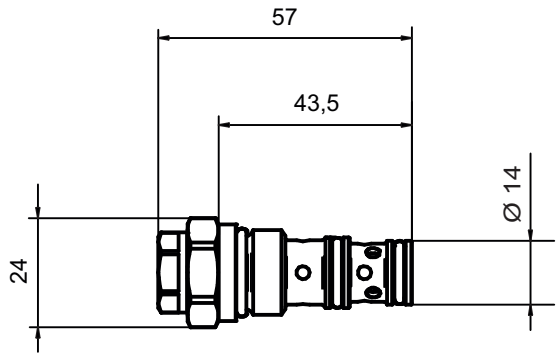
Where * stands for the setting

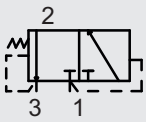


Working limits diagram
Once the required power pack flow and the fluid working temperature are defined, the proper valve can be chosen from the diagram aside. Try to choose the valve with the working area most centered with required Q and T.

SAE08 3/2 HYDRAULICALLY PILOTED DIRECTIONAL VALVE FOR SB3 MANIFOLD







Main features

Max pressure	200 bar
Max flow	20 l/min
Weight	0,09 kg
Cavity	SAE08-3

Recommended tightening torque: 40-45 Nm
Oil temperature: -30 ÷ + 110 °C
Max leakage: 200 cm³/min - 200 bar

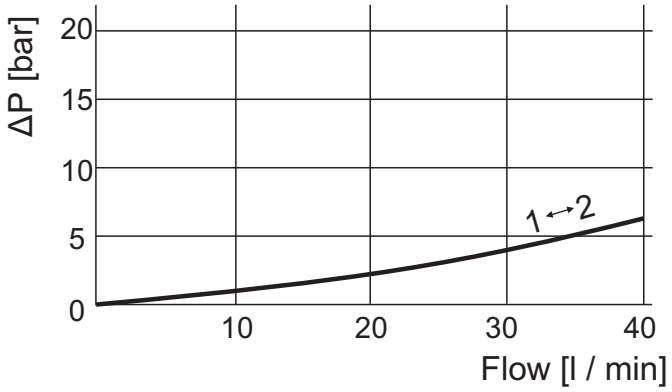
Spare part code

SVDCH00004	**3/2 directional valve piloted 3/4-16 UNF**

Assembly code

O

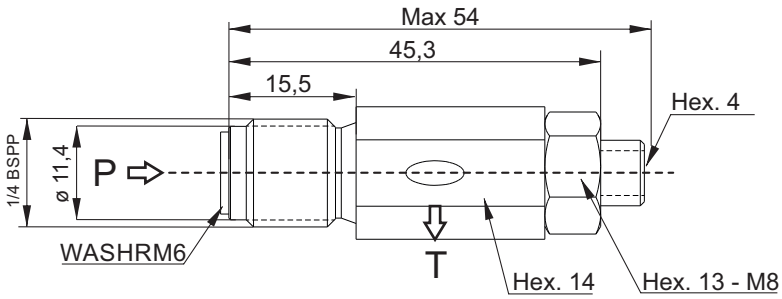
Performance diagram

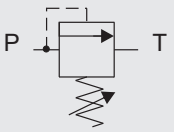


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

1/4 BSPP ANTI-SHOCK THERMAL ADJUSTABLE RELIEF VALVE







Main features

Max pressure	350 bar
Weight	0,14 kg

Recommended tightening torque: 15 ÷20 Nm
Recommended filtration: 25 ÷ 50 µ
Oil temperature: -30 ÷ + 80 °C

Spare part code

SVRFH0000* — **Anti-shock / Thermal Relief valve**

* — 1 = 50 ÷ 175 bar
2 = 100 ÷ 300 bar

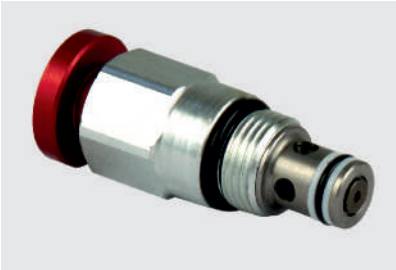
Assembly code

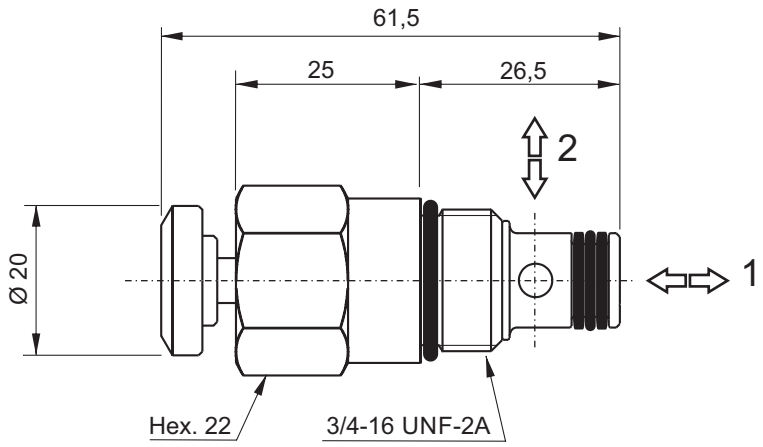
ATR*

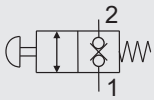
* — - = 100 ÷ 300 bar
L = 50 ÷ 175 bar

Note: the thermal relief valve protects the circuit from hydraulic fluid thermal expansion high pressures, by automatically relieving a few drops of fluid and resetting itself as soon as the trapped pressure decreases.
It must be mounted on the actuator circuit side when the same is exposed at consistent variations of temperatures over timechange depending on fluid viscosity and temperature.

SAE08 MANUAL 2/2 DOUBLE LOCKING NC EMERGENCY VALVE







Main features

Max pressure	300 bar
Weight	0.12 Kg
Max flow	25 l/min
Tightening torque	25 Nm
Fluid temperature	-30°C ÷ +80°C
Filtration	ISO 4406
Cavity	SAE08-2

Spare part code

CPE — **Two-way manual emergency valve**

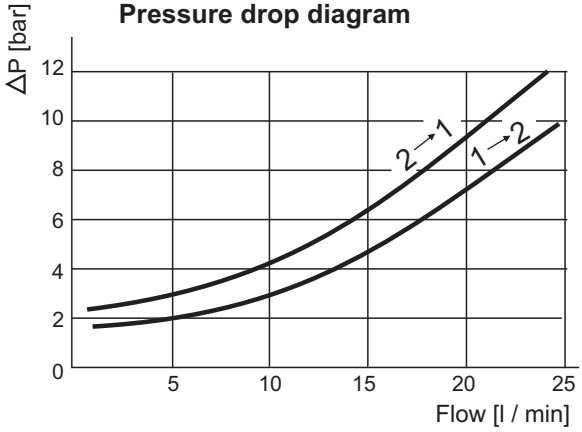
04 — **Nominal size:** 04 = 3/4-16 UNF

P — **Operating device:** P = press button

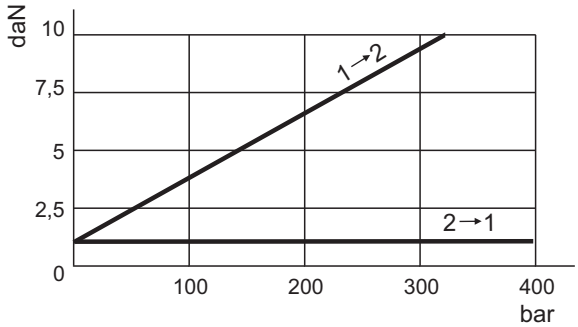
Assembly code

Z

Pressure drop diagram



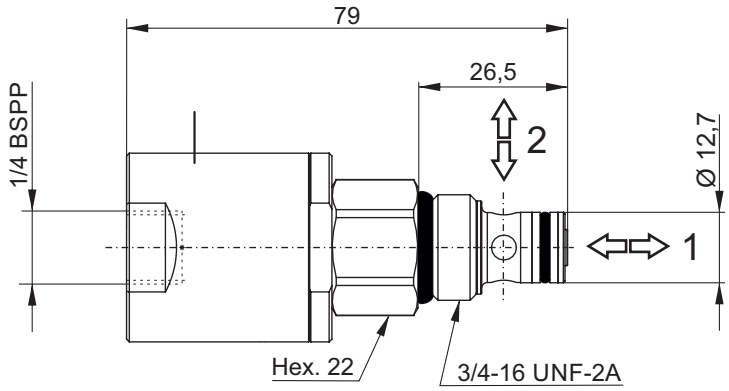
Operating force (daN) on the button

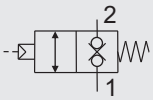


Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature

SAE08 PNEUMATIC 2/2 DOUBLE LOCKING NC VALVE







Main features

Max pressure	350 bar
Weight	0.16 Kg
Max flow	40 l/min
Tightening torque	25 Nm
Fluid temperature	-20°C ÷ +80°C
Pilot pressure	4/15 bar 58218PSI
Filtration	ISO 4406
Max leakage	0,25cm³/min
Cavity	SAE08-2

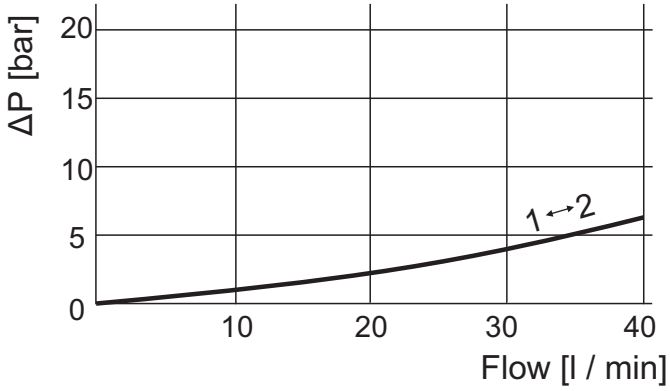
Spare part code

SVDCH00001 — **Two-way pneumatic valve 3/4-16 UNF**

Assembly code

W

Performance diagram



Note: Values measured on valve alone (no cavity) with an oil viscosity of 46 cSt at 50 °C. Pressure drop may change depending on fluid viscosity and temperature