AMF COMBINED PRESSURE RELIEF

AMF-MOP/*

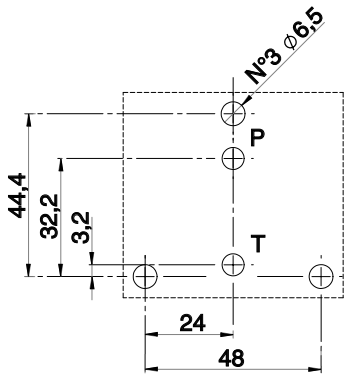
20 l/min - 25 MPa (250 bar)

1 DESCRIPTION

With this module it is possible to have the pressure relief function of the main HDF system. In combination with the pressure relief function it is possible to add other flow controls in order to bleed a specific flow to the T line.

2 ORDERING CODE

(1)		(2)		(3)		(4)		(5)		(6)
AMF	-	MOP	/		-		-		/	10

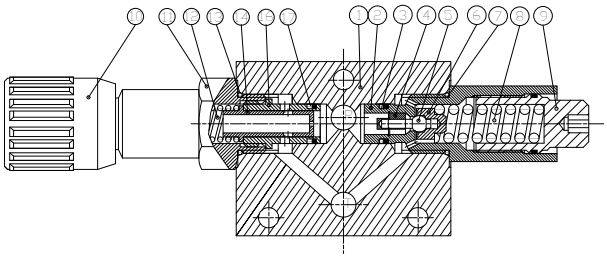


(1) AMF: module stackable with HDF-ES 4 way solenoid valve

(2) MOP: pressure relief on P line

(3) Pressure adjustment ranges:
- 10 : from 32 to 100 bar
- 16 : from 63 to 160 bar
- 25 : from 100 to 250 bar

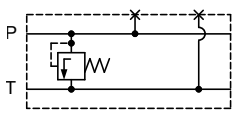
(4) Additional port or bleeding arrangement:
- CC : no auxiliary port
- P1 : P auxiliary port ¼" BSPP
- T1 : T auxiliary port ¼" BSPP
- CF : bleeding P->T by variable throttle
- CV : bleeding P->T by variable throttle with graduated knob
- QV : bleeding P->T by variable pressure compensated flow control
- Q* : bleeding P->T by fixed pressure compensated flow control
  - *: 1=1 l/min
    2=2 l/min
    3=3 l/min
    ...



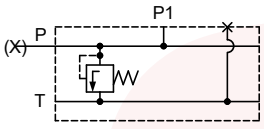
(5) Code reserved for option and variants

(6) Design number (progressive) of the valves

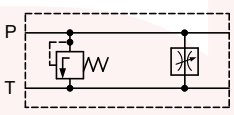
AMF-MOP/*-CC



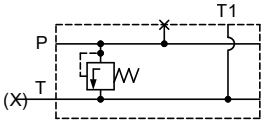
AMF-MOP/*-P1



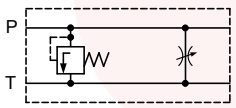
AMF-MOP/*-QV



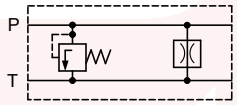
AMF-MOP/*-T1

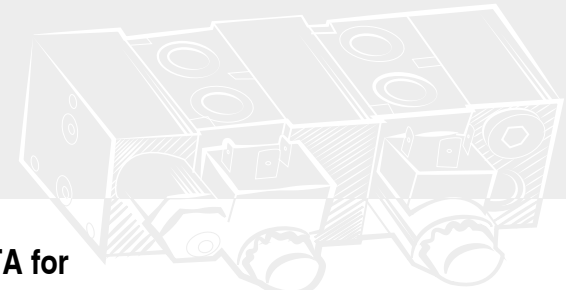


AMF-MOP/*-C



AMF-MOP/*-Q(*)



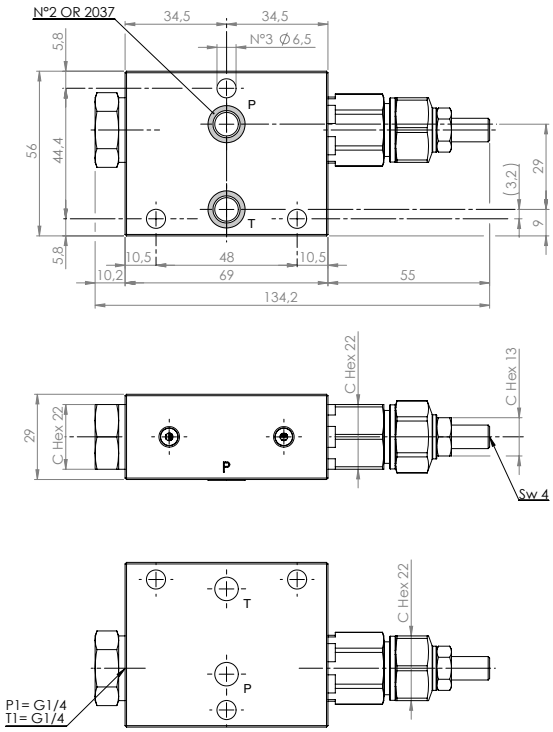


3 TECHNICAL DATA for AMF-MOP-CC, AMF-MOP-P1, AMF-MOP-T1

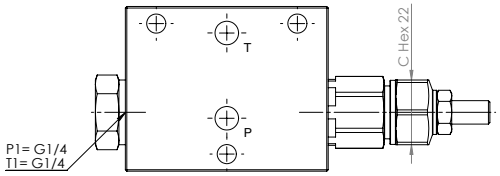
Maximum rec. flow rate	20 l/min
Maximum nominal pressure	25 MPa (250 bar)
Mass	1,20 kg

4 INSTALLATION DIMENSIONS (mm)

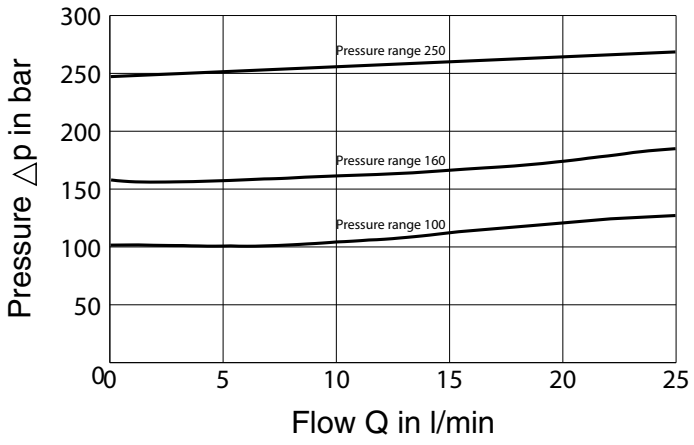
AMF-MOP-CC



AMF-MOP-P1 **AMF-MOP-T1**



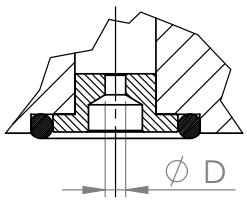
5 TYPICAL DIAGRAMS of PRESSURE RELIEF VALVE



6 OPTIONS

Available for P and T lines “section reducer” or “stop” with O ring

D (mm)	CODE
0	3S-00
1,0	3S-10
1,5	3S-15
2,0	3S-20
2,5	3S-25



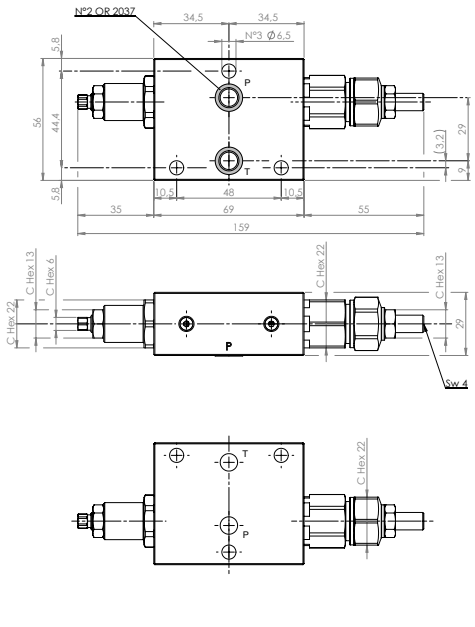
Relief pressure is reached when the axial hydraulic forces on piston 5 equal the force on spring 8; the value of the relief pressure can be therefore changed, within the range, by changing the compression of spring 8. To increase the relief pressure, turn clock wise the adjustment nut 9.

7 TECHNICAL DATA for AMF-MOP-CF, AMF-MOP-CV

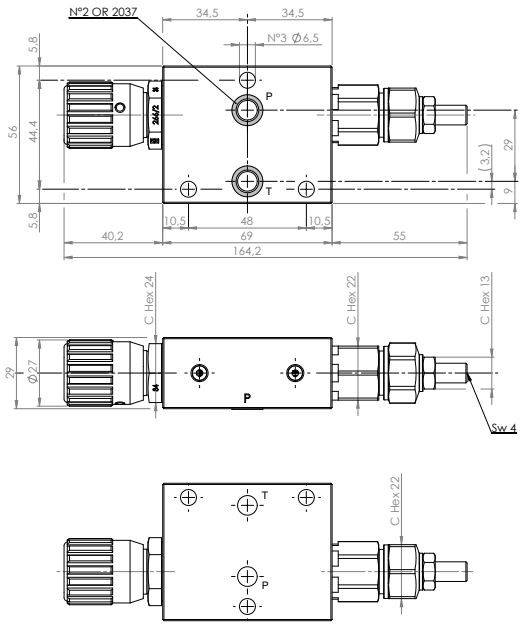
Maximum rec. flow rate in service line	20 l/min
Maximum flow rate in bleeding line	16 l/min
Maximum nominal pressure	25 MPa (250 bar)

8 INSTALLATION DIMENSIONS (mm)

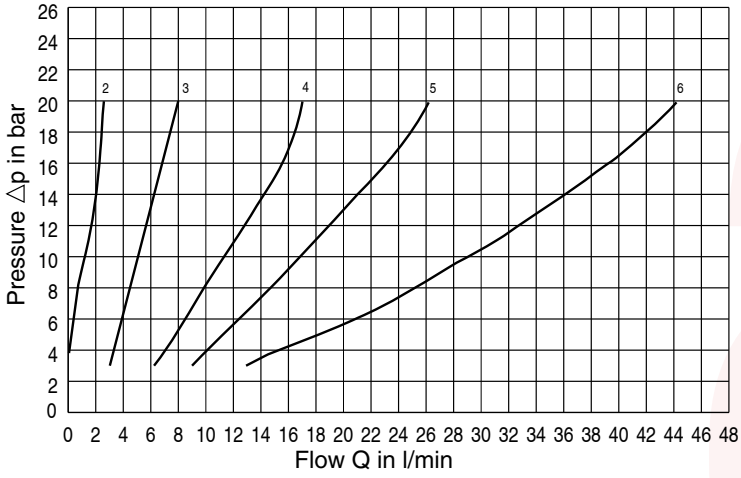
AMF-MOP-CF with VCF-34



AMF-MOP-CV with FT-266/2-34



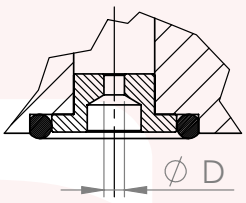
9 TYPICAL DIAGRAMS of FLOW CONTROL VALVE (FT-266/2-34)



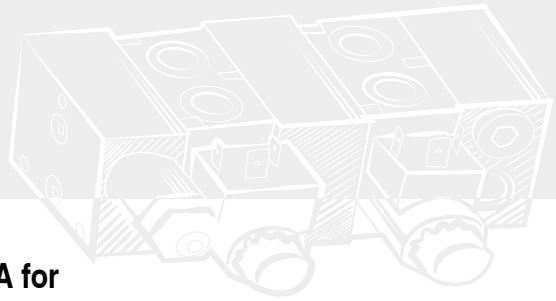
10 OPTIONS

Available for P and T lines “section reducer” or “stop” with O ring

D (mm)	CODE
0	3S-00
1,0	3S-10
1,5	3S-15
2,0	3S-20
2,5	3S-25



Bleeding flow, taken from main P line, is regulated by a variable throttle valve (type VCF-34 or FT266/2-34) that changes the section of an annular passage to T line. To decrease bleeding flow rate, from main P line to main T line, turn clockwise the graduated knob or the adjustment screw, after having unlocked its nut.



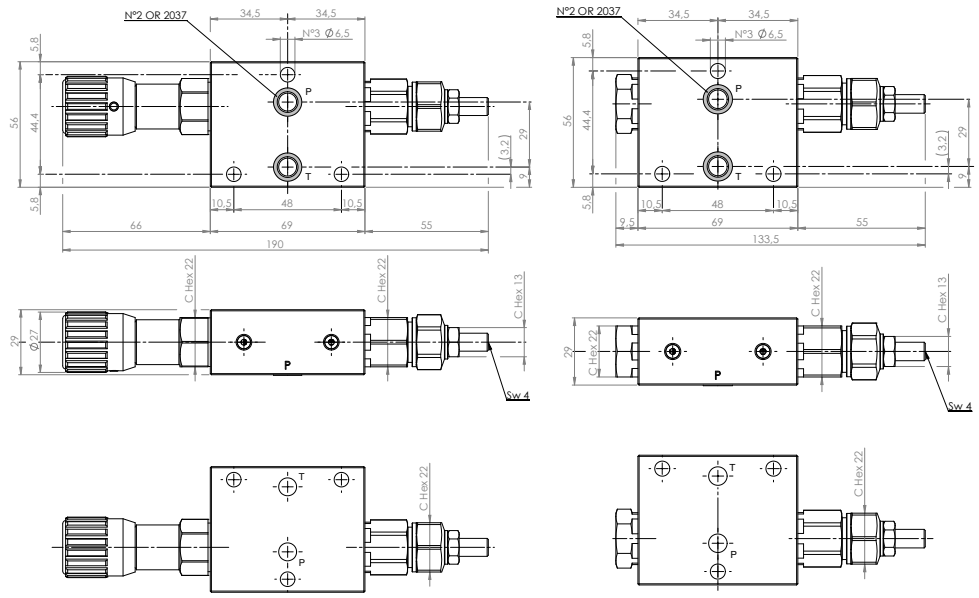
11 TECHNICAL DATA for AMF-MOP-Q(*), AMF-MOP-QV

Maximum rec. flow rate in service line	20 l/min
Maximum flow rate in bleeding line	16 l/min
Maximum nominal pressure	25 MPa (250 bar)

12 INSTALLATION DIMENSIONS (mm)

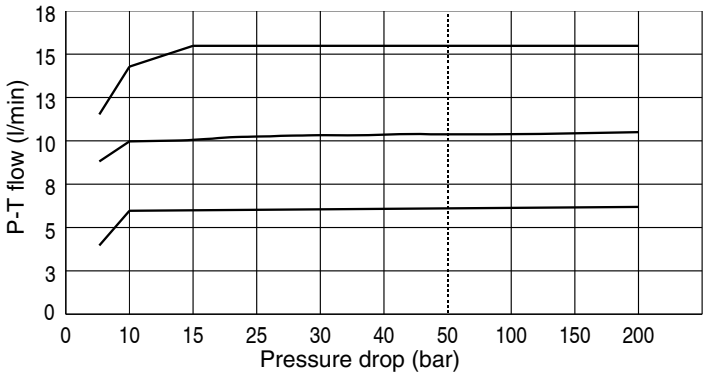
AMF-MOP-QV with FT-268/2-34

AMF-MOP-Q(*) with VSC-34



Fluid flows in P line and a part a of it bleeds to T line trough orifice of the throttle valve. When pressure diffence between P and T increases the throttle moves reducing the area of lateral orifices, thus keeping bleeding flow rate constant at the requested value. When on line P the pressure exceeds the settled value the internal piston pushed by hydraulic axial forces, overcomes the force of spring and shifts, opening to the pressurized fluid annular passage to T, thus keeping the pressure level at the requested value

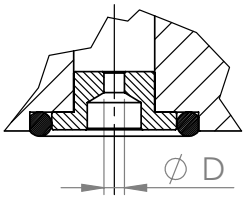
13 TYPICAL DIAGRAMS of VARIABLE PRESSURE COMPENSATED FLOW CONTROL VALVE (FT-268/2-34)



14 OPTIONS

Available for P and T lines “section reducer” or “stop” with O ring

D (mm)	CODE
0	3S-00
1,0	3S-10
1,5	3S-15
2,0	3S-20
2,5	3S-25



Bleeding flow, taken from main P line, is regulated by a variable pressure compensated flow control valve (FT 268/2), that changes the flow rate to T line. To decrease bleeding flow rate, from main P line to main T line, turn anticlockwise the graduated knob of valve FT-268/2-34