CATALOGUE

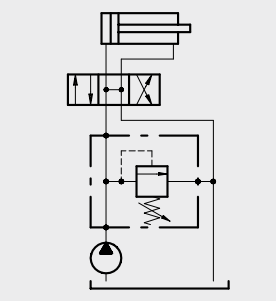
Pressure relief valves

walvoil
HYDRAULIC CONTROL SYSTEMS

Index

Operation

Allows oil flow from P to T when pressure in P reaches the setting of the spring.



Performance

Body Valves

Type VMP	Max.flow		Max. pres.		Application range with standard spring*	Hysteresis	Oil leaks from P to T	Cartr.	Weight	
	l/min	*US gpm*	bar	*psi*					kg	*lb*
VMP /B /L 02-14	5	*1.32*	alum. body 210 steel body 350	*alum. body 3050* *steel body 5100*	5÷80 bar - *72.5÷1150 psi* (test setting 50 bar - *725 psi* at 3 l/min. - *0.79 US gpm*) 50÷220 bar - *725÷3200 psi* (test setting 150 bar *-2200 psi* at 3 l/min. - *0.79 US gpm*) 180÷350 bar - *2600÷5100 psi* (test setting 250 bar - *3600 psi* at 3 l/min. - *0.79 US gpm*)	90% of the setting value for flow capacity 1 l/min. *-0.26 US gpm-*	disregardable	VMP 02	alum. body 0,21 steel body 0,48	*alum. body 0.46* *steel body 1.06*
VMP /B /L 03-14	10	*2.6*			5÷50 bar - *72.5÷725 psi* (test setting 30 bar - *435 psi* at 5 l/min. - *1.32 US gpm*) pressure increase by steps 11.5 bar *-160 psi* per screw turn 50÷200 bar - *725÷2900 psi* (test setting 150 bar - *2200 psi* at 5 l/min. - *1.32 US gpm*) pressure increase by steps 31.5 bar - *450 psi* per screw turn 180÷350 bar - *2600÷5100 psi* (test setting 250 bar - *3600 psi* at 5 l/min. - *1.32 US gpm*) pressure increase by steps 74 bar - *1000 psi* per screw turn			MC 08 A	alum. body 0,40 steel body 0,84	*alum. body 0.88* *steel body 1.85*
VMP/B/L 5 -□□	35	*9.2*			5÷40 bar - *72.5÷580 psi* (test setting 30 bar - *435 psi* at 5 l/min. - *1.32 US gpm*) 20÷80 bar - *290÷1150 psi* (test setting 60 bar - *870 psi* at 5 l/min - *1.32 US gpm*) 50÷220 bar - *725÷3200 psi* (test setting 160 bar - *2300 psi* at 5 l/min. - *1.32 US gpm*) 180÷350 bar - *2600÷5100 psi* (test setting 280 bar - *4000 psi* at 5 l/min. - *1.32 US gpm*)	85% of the setting value for flow capacity 1 l/min. *-0.26 US gpm-*		VMP 02	alum. body 0,50 steel body 1,07	*alum. body 1.10* *steel body 2.36*
VMP/B/L 5Y -□□					5÷80 bar - *72.5÷1150 psi* (test setting 60 bar - *870 psi* at 5 l/min. - *1.32 US gpm*) 40÷150 bar - *580÷2200 psi* (test setting 120 bar - *1750 psi* at 5 l/min. - *1.32 US gpm*) 140÷190 bar - 2050*÷2750 psi* (test setting 150 bar - *2200 psi* at 5 l/min. - *1.32 US gpm*) 180÷350 bar - *2600÷5100 psi* (test setting 260 bar - 3800 psi at 5 l/min. - *1.32 US gpm*)			VMP 5Y	alum. body 0.50 steel body 1,07	*alum. body 1.10* *steel body 2.36*

***To perform setting of the valve see the pressure drop/ flow diagram**

Body Valves

<table>
<tr><th rowspan="2">Type VMP</th><th colspan="2">Max.flow</th><th colspan="2">Max. pres.</th><th rowspan="2">Application range with standard spring*</th><th rowspan="2">Hysteresis</th><th rowspan="2">Oil leaks from P to T</th><th rowspan="2">Cartri-dges</th><th colspan="2">Weight</th></tr>
<tr><th>l/min</th><th>US gpm</th><th>bar</th><th>psi</th><th>kg</th><th>lb</th></tr>
<tr><td>VMP /B /L 10 -□□</td><td>60</td><td>16</td><td rowspan="4">alum. body 210

steel body 350</td><td rowspan="4">alum. body 3050

steel body 5100</td><td rowspan="2">see setting VMP/B/L 5 -□□</td><td rowspan="4">85% of the setting value for flow capacity 1 l/min. -0.26 US gpm-</td><td rowspan="4">disregar-dable</td><td>VMP 10</td><td>aluminium body 0,77 (VMP/B/L 10-12)
0,87 (VMP/B/L 10-34)

steel body 1,47 (VMP/B/L 10-12)
1,74 (VMP/B/L 10-34)</td><td>alum. body 1.70

1.91

steel body 3.24

3.84</td></tr>
<tr><td>VMP /B /L 20 -□□</td><td>100</td><td>26</td><td>VMP 20</td><td>aluminium body 1,70 (VMP/B/L 20-34)
2,31 (VMP/B/L 20-100)

steel body 2,91 (VMP/B/L 20-34)
5,20 (VMP/B/L 20-100)</td><td>alum. body 3.75

5.09

steel body 6.41

11.46</td></tr>
<tr><td>VMP /B 12</td><td>35</td><td>9.2</td><td rowspan="2">5÷40 bar - 72.5÷580 psi (test setting 30 bar - 435 psi at 5 l/min. - 1.32 US gpm)
20÷100 bar -290÷1450 psi (test setting 70 bar - 1015 psi at 5 l/min. - 1.32 US gpm-)
50÷200 bar -725÷2900 psi (test setting 140 bar - 2030 psi at 5 l/min.-1.32 US gpm)
100÷300 bar - 1450÷4350 psi (test setting 210 bar - 3050 psi at 5 l/min. - 1.32 US gpm)</td><td>VMP 12</td><td>aluminium body 0,65

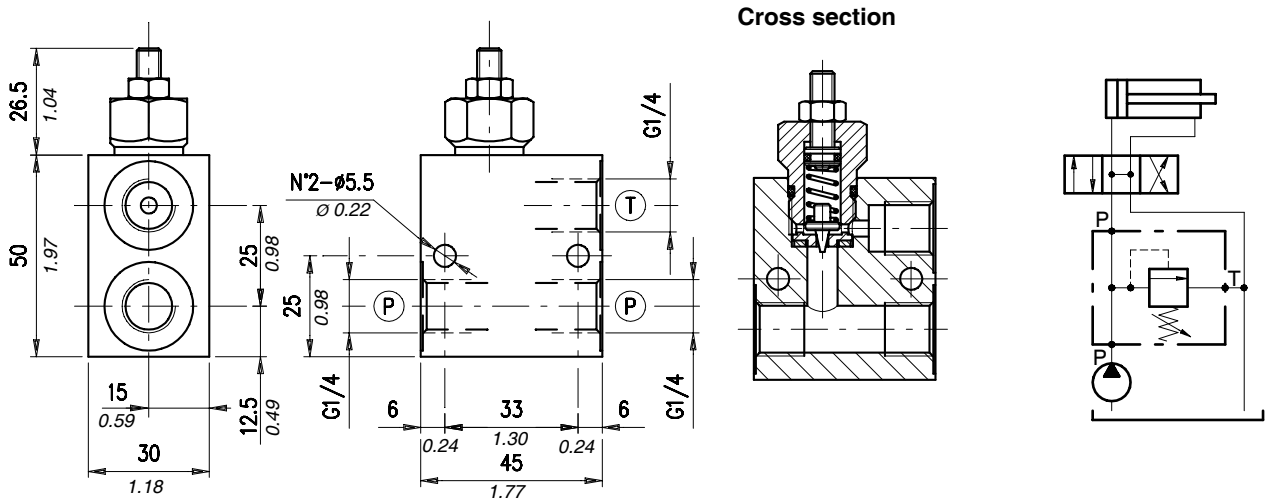
steel body 1,41</td><td>alum. body 1.43

steel body 3.11</td></tr>
<tr><td>VMP /B 34</td><td>80</td><td>21</td><td>VMP 34</td><td>aluminium body 1,00

steel body 2,15</td><td>alum. body 2.20

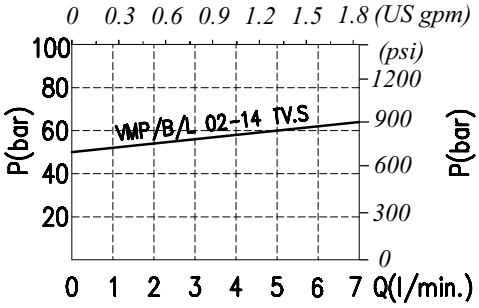
steel body 4.74</td></tr>
</table>

Dimensions and hydraulic circuit

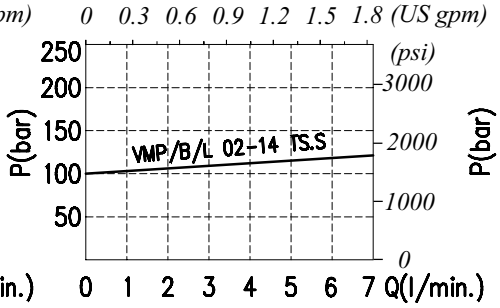


Rating diagrams

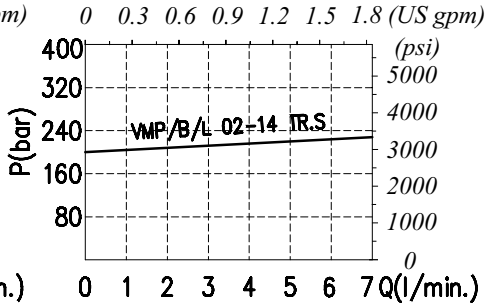
Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP/B/L 02-14 / □□ . □ / □□

Pressure settings

TV) 5÷80 bar *(72.5÷1150 psi)*
TS) 50÷220 bar *(725÷3200 psi)*
TR) 180÷350 bar *(2600÷5100 psi)*

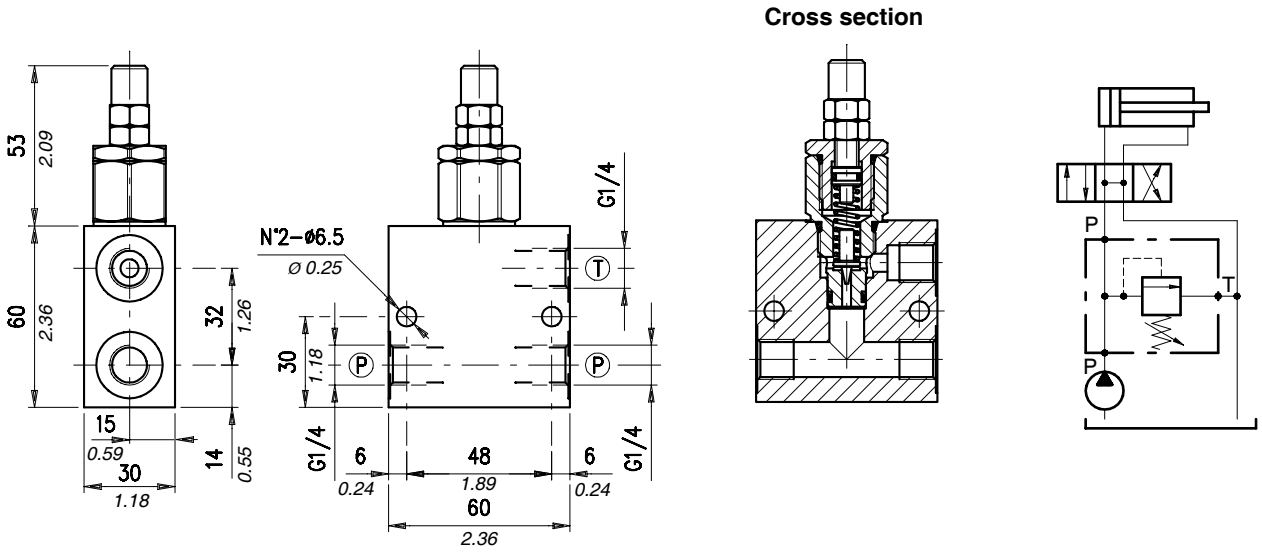
Adjustment
(see pag.105)

S (screw)
V (handknob)

Body material

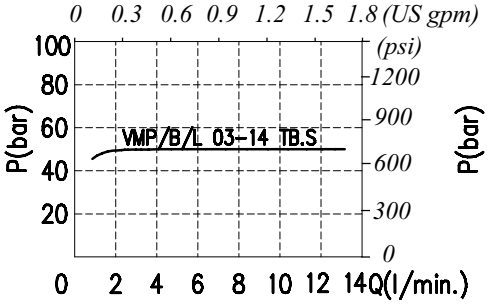
_ Aluminium
ac Steel

Dimensions and hydraulic circuit

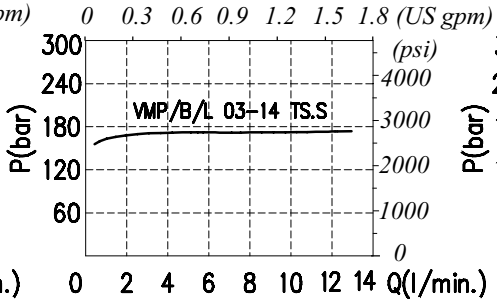


Rating diagrams

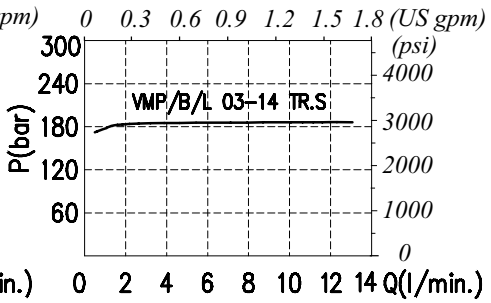
Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP/B/L 03-14 / □ . □ / □

Pressure settings

TB) 5÷50 bar *(72.5÷725 psi)*
TS) 50÷200 bar *(725÷2900 psi)*
TR) 150÷350 bar *(2200÷5100 psi)*

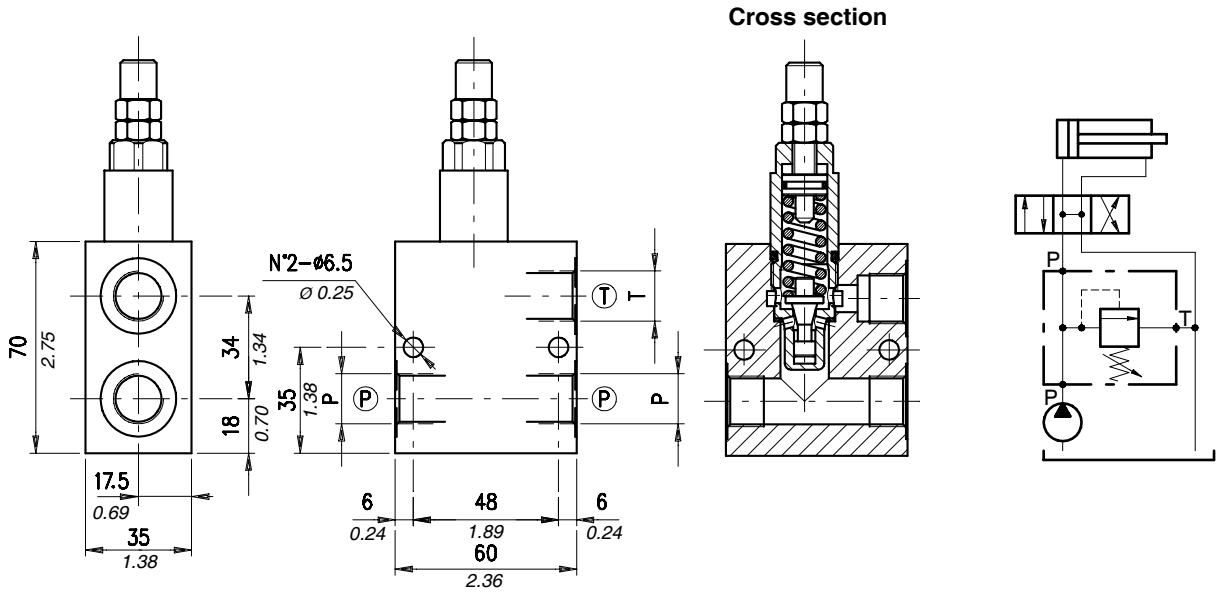
Adjustment
(see page 105)

S (screw)
V (handknob)
W (capped adjustement)

Body material

_ Aluminium
ac Steel

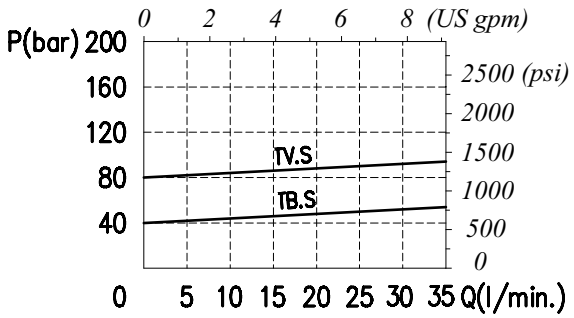
Dimensions and hydraulic circuit



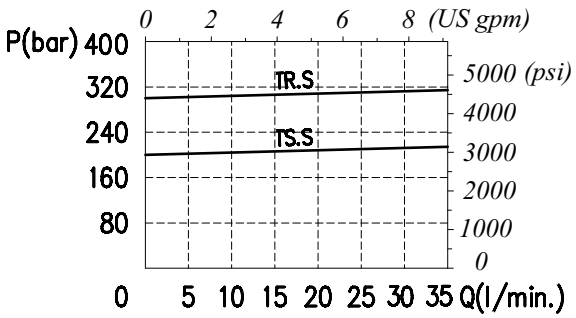
VMP/B/L 5	P	T
38	G3/8	G3/8
12	G1/2	G1/2

Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B /L 5- □□ / □□ . □ /□□

Port size

38) G 3/8
12) G 1/2

Pressure settings

TB) 5÷40 bar *(72.5÷580 psi)*
TV) 20÷80 bar *(290÷1150 psi)*
TS) 50÷220 bar *(725÷3200 psi)*
TR) 180÷350 bar *(2600÷5100 psi)*

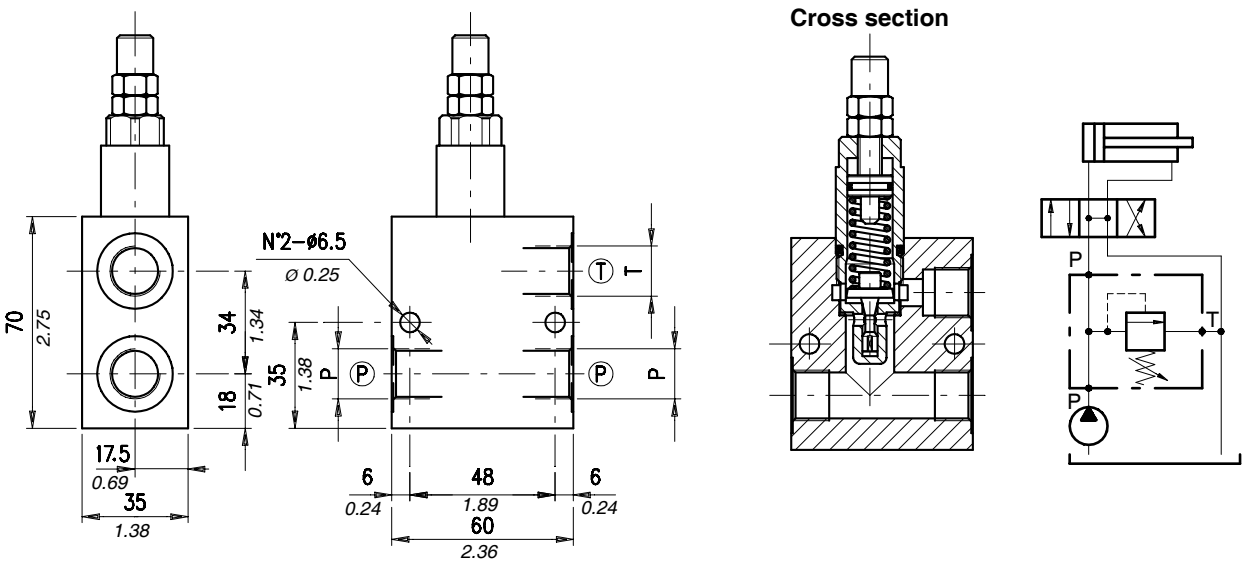
Adjustment
(see page 105)

S (screw)
V (handknob)
W (capped adjustement)
P (panel mount)
PV (panel mount+handknob)

Body material

_ Aluminium
ac Steel

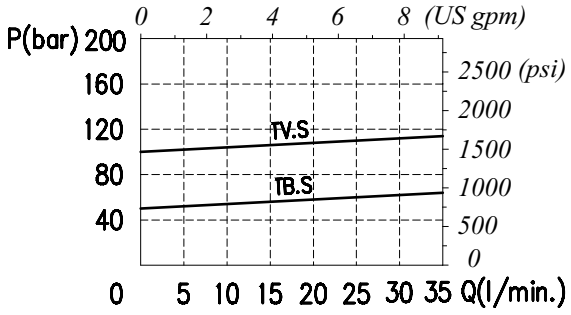
Dimensions and hydraulic circuit



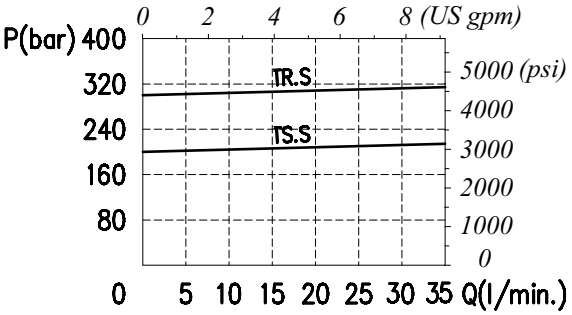
VMP/B/L 5Y	P	T
38	G3/8	G3/8
12	G1/2	G1/2

Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B /L 5Y- □□ / □□ . □ /□□

Port size

38) G 3/8
12) G 1/2

Pressure settings

TB) 5÷80 bar *(72.5÷1150 psi)*
TV) 40÷150 bar *(580÷2200 psi)*
TS) 140÷190 bar *(2050÷2750 psi)*
TR) 180÷320 bar *(2600÷4650 psi)*

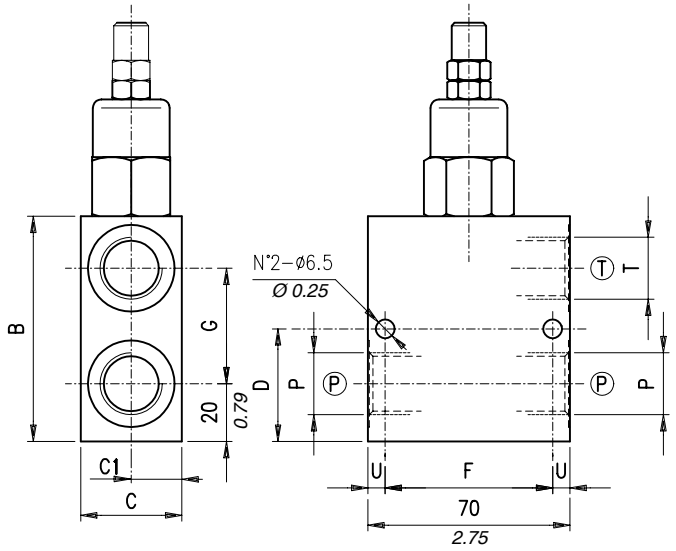
Adjustment
(see page 105)

S (screw)
V (handknob)
W (capped adjustement)
P (panel mount)
PV (panel mount+handknob)

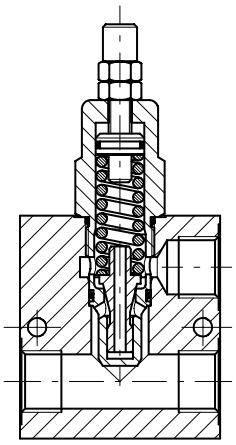
Body material

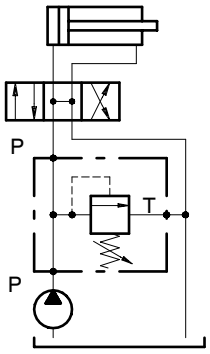
_ Aluminium
ac Steel

Dimensions and hydraulic circuit



Cross section



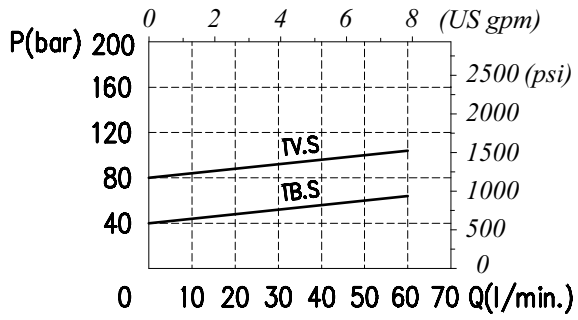


VMP/B/L 10	B	C	C 1	D	F	G	P	T	U	Z
12	78 - *3.07*	35 - *1.38*	17.5 - *0.69*	39 - *1.53*	58 - *2.28*	40 - *2.28*	G1/2	G1/2	6 - *0.24*	6.5 - *0.25*
34	90 - *3.54*	40 - *1.57*	20 - *0.79*	45 - *1.77*	54 - *2.12*	50 - *1.97*	G3/4	G3/4	8 - *0.31*	8.5 - *0.33*

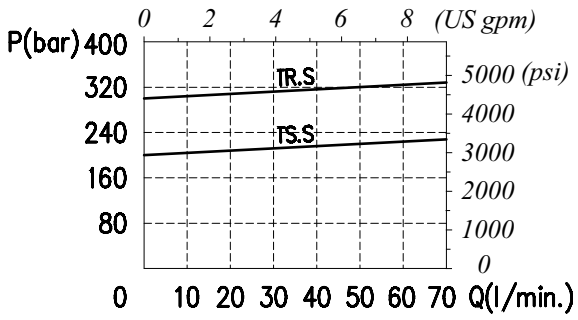
*Dimensions are in mm - *in*

Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B /L 10 - □□ / □□ . □ / □□

Port size

12) G 1/2
34) G 3/4

Pressure settings

TB) 5÷40 bar *(72.5÷580 psi)*
TV) 20÷80 bar *(290÷1150 psi)*
TS) 50÷220 bar *(725÷3200 psi)*
TR) 180÷350 bar *(2600÷5100 psi)*

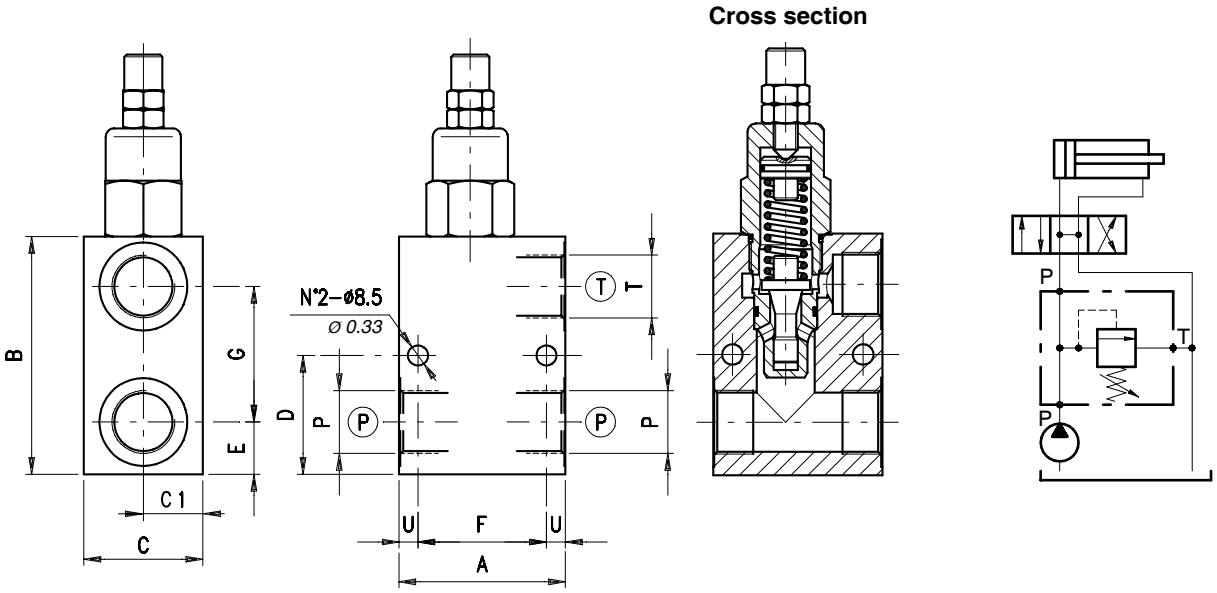
Adjustment
(see page 105)

S (screw)
V (handknob)
W (capped adjustement)
P (panel mount)
PV (panel mount+handknob)

Body material

_ Aluminium
ac Steel

Dimensions and hydraulic circuit

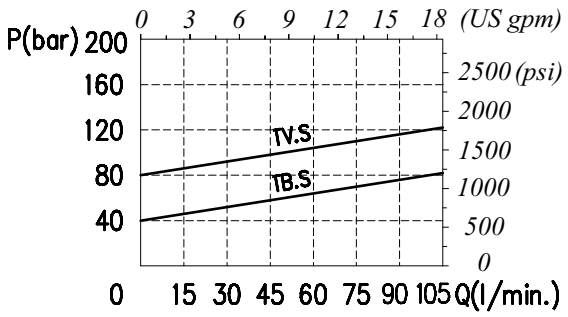


VMP/B/L 20	A	B	C	C 1	D	E	F	G	P	T	U
34	70 - *2.75*	100 - *3.94*	50 - *1.97*	25 - *0.98*	50 - *1.97*	22 - *0.87*	54 - *2.12*	57 - *2.24*	G3/4	G3/4	8 - *0.31*
100	85 - *3.34*	120 - *4.72*	60 - *2.36*	30 - *1.18*	63 - *2.48*	30 - *1.18*	65 - *2.56*	65 - *2.56*	G 1	G 1	10 - *0.39*

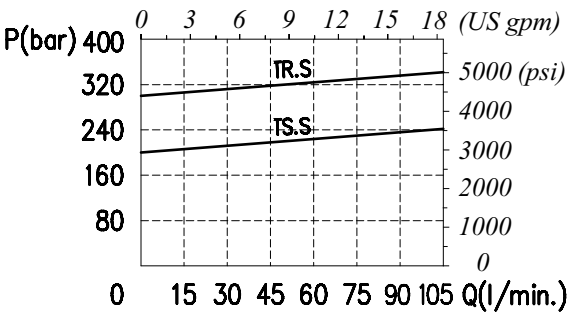
Dimensions are in mm - *in*

Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B /L 20 - □□ / □□ . □ / □□

Port size

34) G 3/4
100) G 1

Pressure settings

TB) 5÷40 bar *(72.5÷580 psi)*
TV) 20÷80 bar *(290÷1150 psi)*
TS) 50÷220 bar *(725÷3200 psi)*
TR) 180÷350 bar *(2600÷5100 psi)*

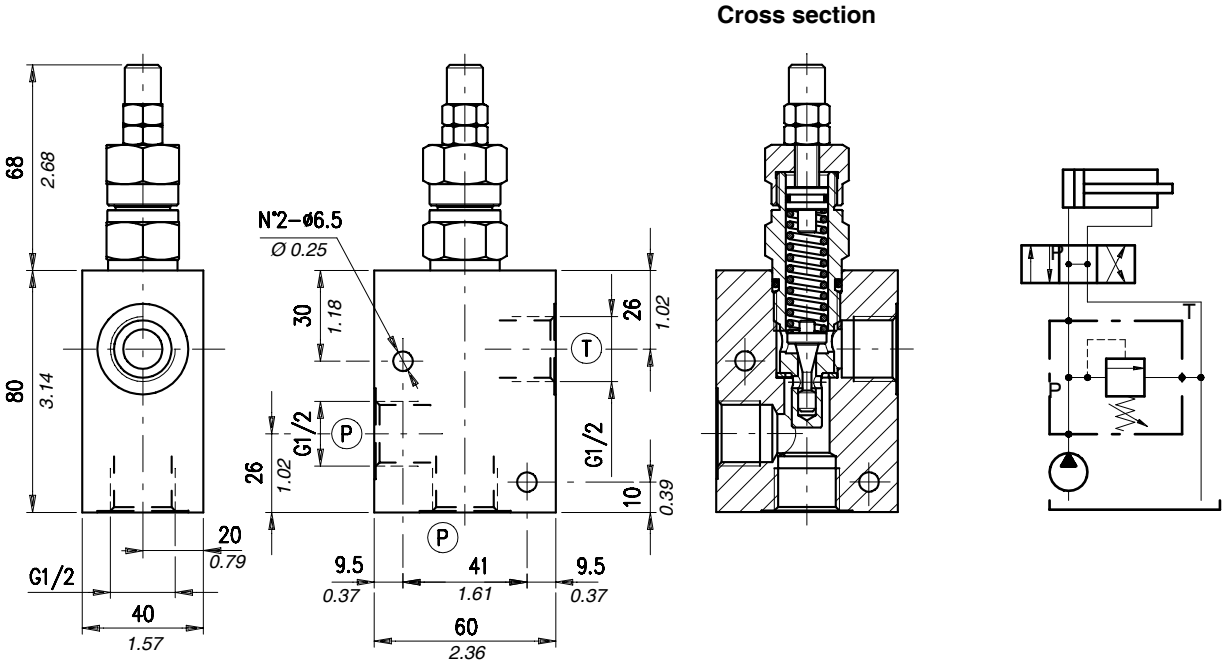
Adjustment
(see page 105)

S (screw)
V (handknob)
W (capped adjustement)
P (panel mount)
PV (panel mount+handknob)

Body material

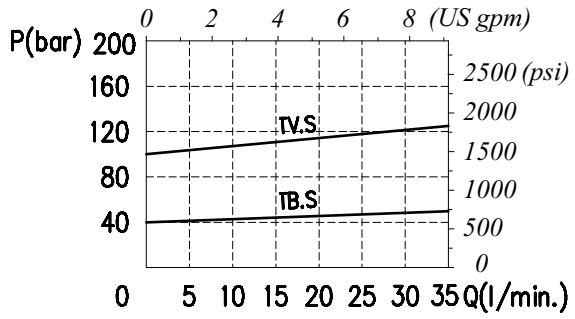
_ Aluminium
ac Steel

Dimensions and hydraulic circuit

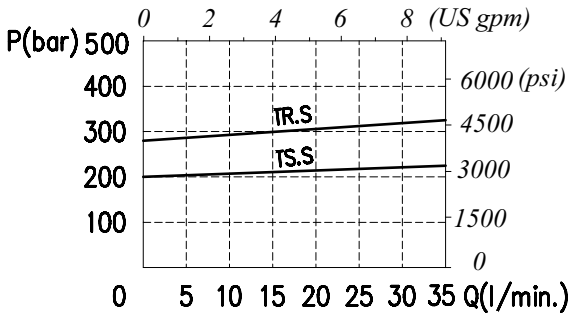


Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B 12 / □□ . □ / □□

Pressure settings

TB) 5÷40 bar *(72.5÷580 psi)*
TV) 20÷100 bar *(290÷1450 psi)*
TS) 50÷200 bar *(725÷2900 psi)*
TR) 100÷300 bar *(1450÷4350 psi)*

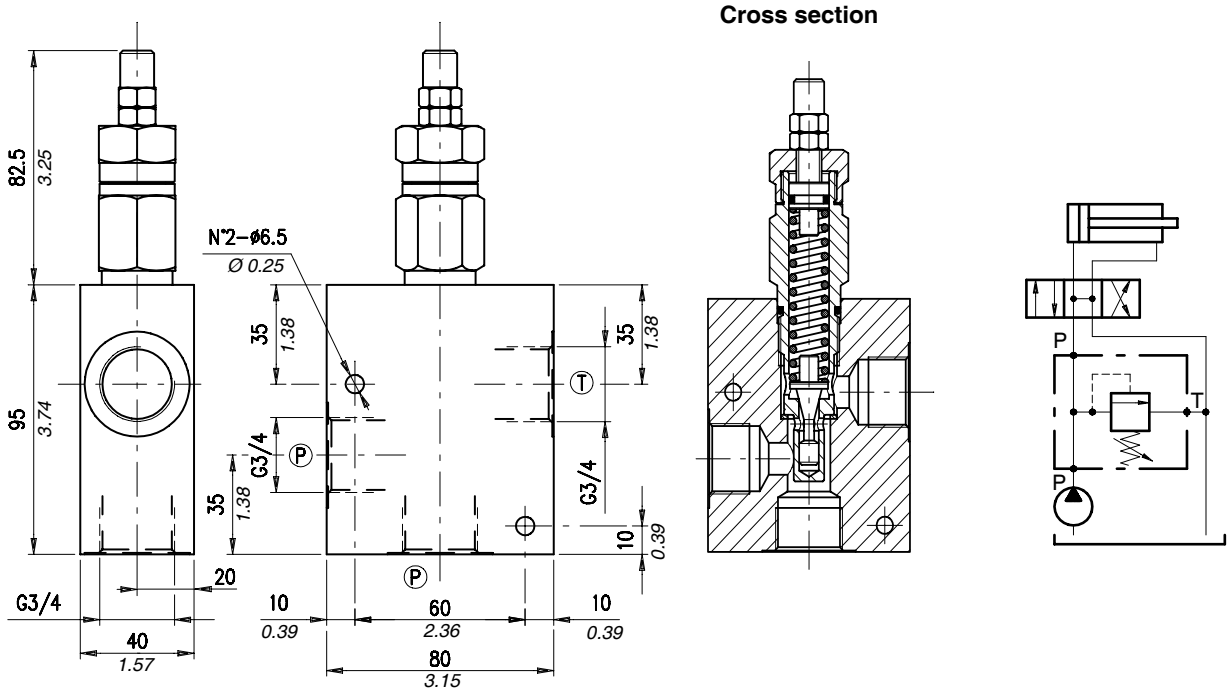
Adjustment
(see page 105)

S (screw)
V (handknob)
P (panel mount)
PV (panel mount+handknob)

Body material

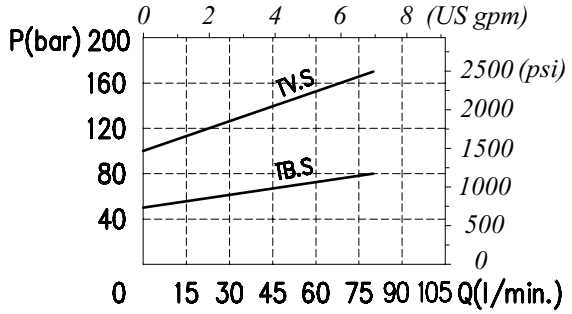
_ Aluminium
ac Steel

Dimensions and hydraulic circuit

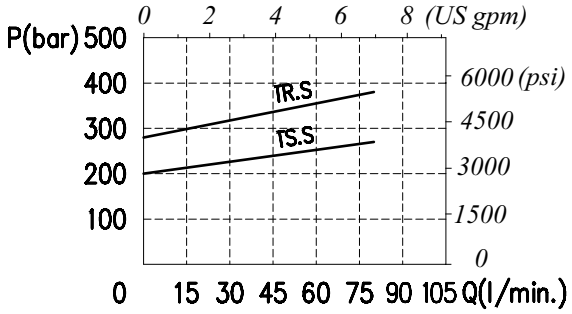


Rating diagrams

Typical pressure drop vs. flow characteristic



Typical pressure drop vs. flow characteristic



Order code

VMP /B 34 / □□ . □ / □□

Pressure settings

TB) 5÷40 bar *(72.5÷580 psi)*
TV) 20÷100 bar *(290÷1450 psi)*
TS) 50÷200 bar *(725÷2900 psi)*
TR) 100÷300 bar *(1450÷4350 psi)*

Adjustment
(see page 105)

S (screw)
V (handknob)
P (panel mount)
PV (panel mount+handknob)

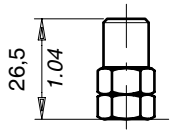
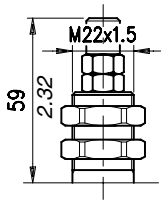
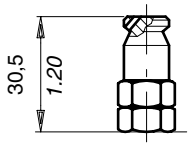
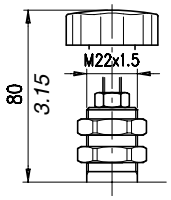
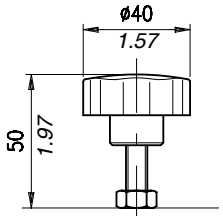
Body material

_ Aluminium
ac Steel

Description and operation

This chapter show main adjusting devices for the valves listed in this catalog.
These regulations are used to adjust flow rate between inlet and working ports.

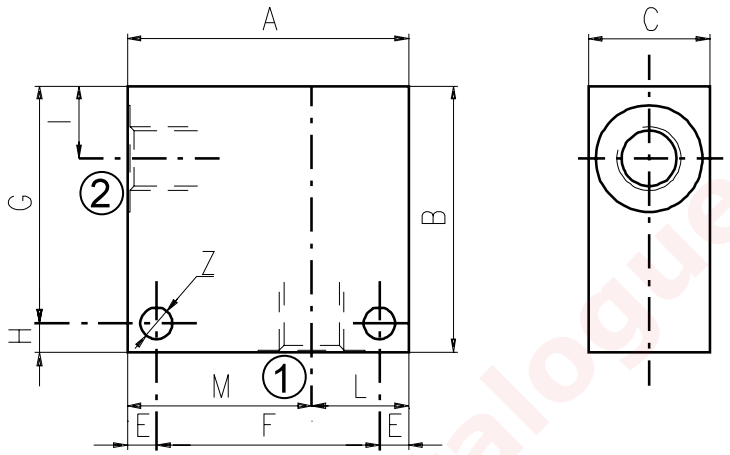
Performance

	**Screw "S"**		**Panel mount "P"**
	**Copped adjustment "W"**		**Panel mount+handknob "PV"**
	**Handknob "V"**		

2, 3 and 4 way Valves Bodies

Dimensions

Material	Max. pressure	
	bar	*psi*
Alluminium	210	*3050*
Steel	350	*5100*



Cavità	Attacchi		A	B	C	E	F	G	H	I	L	M	Z
SAE 8/2	G 1/2	**mm**	70	65	35	7	56	53	12	14,5	35	35	6,5
		in	*2.75*	*2.56*	*1.38*	*0.27*	*2.20*	*2.09*	*0.47*	*0.57*	*1.38*	*1.38*	*0.25*
	G 1/4	**mm**	50	50	30	6	38	44	6	14,8	20	30	6,5
		in	*1.97*	*1.97*	*1.18*	*0.24*	*1.50*	*1.73*	*0.24*	*0.58*	*0.79*	*1.18*	*0.25*
	G 3/8	**mm**	50	50	30	6	38	44	6	14,8	20	30	6,5
		in	*1.97*	*1.97*	*1.18*	*0.24*	*1.50*	*1.73*	*0.24*	*0.58*	*0.79*	*1.18*	*0.25*
	SAE6	**mm**	50	50	30	6	38	44	6	14,8	20	30	6,5
		in	*1.97*	*1.97*	*1.18*	*0.24*	*1.50*	*1.73*	*0.24*	*0.58*	*0.79*	*1.18*	*0.25*
SAE 10/2	G 1/4	**mm**	60	60	35	6	48	54	6	18,8	25	35	6,5
		in	*2.36*	*2.36*	*1.38*	*0.24*	*1.89*	*2.12*	*0.24*	*0.74*	*0.98*	*1.38*	*0.25*
	G 3/8	**mm**	60	60	35	6	48	54	6	18,8	25	35	6,5
		in	*2.36*	*2.36*	*1.38*	*0.24*	*1.89*	*2.12*	*0.24*	*0.74*	*0.98*	*1.38*	*0.25*
	G 1/2	**mm**	60	60	35	6	48	54	6	18,8	25	35	6,5
		in	*2.36*	*2.36*	*1.38*	*0.24*	*1.89*	*2.12*	*0.24*	*0.74*	*0.98*	*1.38*	*0.25*
	SAE8	**mm**	60	70	35	6	48	64	6	18,8	25	35	6,5
		in	*2.36*	*2.75*	*1.38*	*0.24*	*1.89*	*2.52*	*0.24*	*0.74*	*0.98*	*1.38*	*0.25*
	SAE10	**mm**	70	70	35	6	58	64	6	18,5	35	35	6,5
		in	*2.75*	*2.75*	*1.38*	*0.24*	*2.28*	*2.52*	*0.24*	*0.73*	*1.38*	*1.38*	*0.25*
	SAE12	**mm**	70	70	40	8	54	62	8	22	30	40	8,5
		in	*2.75*	*2.75*	*1.57*	*0.31*	*2.12*	*2.44*	*0.31*	*0.87*	*1.18*	*1.57*	*0.33*
SAE 12/2	G 1/2	**mm**	70	80	40	8	54	72	8	25	30	40	8,5
		in	*2.75*	*3.15*	*1.57*	*0.31*	*2.12*	*2.83*	*0.31*	*0.98*	*1.18*	*1.57*	*0.33*
	G 3/4	**mm**	70	90	40	8	54	82	8	25	30	40	8,5
		in	*2.75*	*3.54*	*1.57*	*0.31*	*2.12*	*3.23*	*0.31*	*0.98*	*1.18*	*1.57*	*0.33*
	SAE10	**mm**	70	85	40	8	54	77	8	25	30	40	8,5
		in	*2.75*	*3.35*	*1.57*	*0.31*	*2.12*	*3.03*	*0.31*	*0.98*	*1.18*	*1.57*	*0.33*
	SAE12	**mm**	70	85	40	8	54	77	8	25	30	40	8,5
		in	*2.75*	*3.35*	*1.57*	*0.31*	*2.12*	*3.03*	*0.31*	*0.98*	*1.18*	*1.57*	*0.33*

Cavity	Ports		A	B	C	E	F	G	H	I	L	M	Z
SAE 16/2	G 1/2	**mm**	80	90	50	10	60	80	10	25	35	45	10,5
		in	*3.15*	*3.54*	*1.97*	*0.39*	*2.36*	*3.15*	*0.39*	*0.98*	*1.38*	*1.77*	*0.41*
	G 3/4	**mm**	80	90	50	10	60	80	10	25	35	45	10,5
		in	*3.15*	*3.54*	*1.97*	*0.39*	*2.36*	*3.15*	*0.39*	*0.98*	*1.38*	*1.77*	*0.41*
	G 1	**mm**	85	100	60	10	65	90	10	23,5	40	45	10,5
		in	*3.35*	*3.94*	*2.36*	*0.39*	*2.56*	*3.54*	*0.39*	*0.92*	*1.57*	*1.77*	*0.41*
	SAE12	**mm**	80	90	50	10	60	80	10	25	35	45	10,5
		in	*3.15*	*3.54*	*1.97*	*0.39*	*2.36*	*3.15*	*0.39*	*0.98*	*1.38*	*1.77*	*0.41*
	SAE16	**mm**	80	100	50	10	60	90	10	25	35	45	10,5
		in	*3.15*	*3.94*	*1.97*	*0.39*	*2.36*	*3.54*	*0.39*	*0.98*	*1.38*	*1.77*	*0.41*

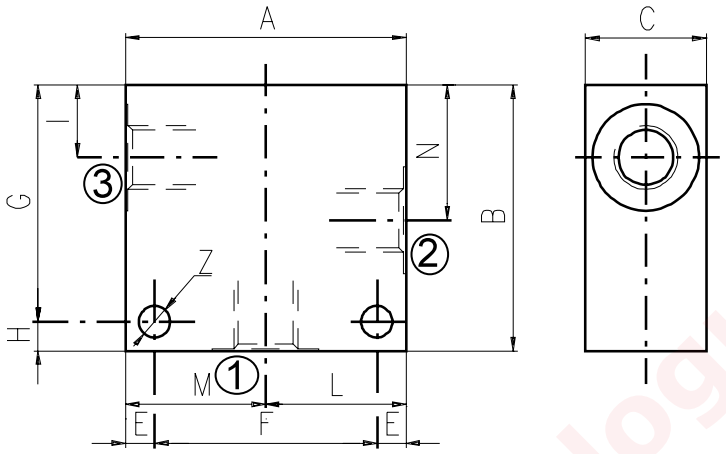
Order code

3/CC /- □ □ /20/□- □-1

Cavity	Ports	Materials
08	**B)** G 1/4	**1)** Aluminium
10	**C)** G 3/8	**2)** Steel
12	**D)** G 1/2	
16	**E)** G 3/4	
	F) G 1	

Dimensions

Material	Max. pressure	
	bar	*psi*
Alluminium	210	*3050*
Steel	350	*5100*



Cavity	Ports		A	B	C	E	F	G	H	I	L	M	N	Z
SAE 8/3	G 1/4	**mm**	60	60	30	7	46	48	12	14,8	30	30	29,1	6,5
		in	*2.36*	*2.36*	*1.18*	*0.27*	*1.81*	*1.89*	*0.47*	*0.58*	*1.18*	*1.18*	*1.14*	*0.25*
	G 3/8	**mm**	60	60	30	7	46	48	12	14,5	30	30	29,1	6,5
		in	*2.36*	*2.36*	*1.18*	*0.27*	*1.81*	*1.89*	*0.47*	*0.57*	*1.18*	*1.18*	*1.14*	*0.25*
	G 1/2	**mm**	70	65	35	7	56	53	12	14,5	35	35	29,1	6,5
		in	*2.75*	*2.56*	*1.38*	*0.27*	*2.20*	*2.09*	*0.47*	*0.57*	*1.38*	*1.38*	*1.14*	*0.25*
	SAE6	**mm**	60	60	30	7	46	48	12	14,5	30	30	29,1	6,5
		in	*2.36*	*2.36*	*1.18*	*0.27*	*1.81*	*1.89*	*0.47*	*0.57*	*1.18*	*1.18*	*1.14*	*0.25*
SAE 10/3	G 1/4	**mm**	60	65	35	6	48	59	6	18	30	30	34,5	7
		in	*2.36*	*2.56*	*1.38*	*0.24*	*1.89*	*2.32*	*0.24*	*0.70*	*1.18*	*1.18*	*1.36*	*0.27*
	G 3/8	**mm**	60	65	35	6	48	59	6	18,8	30	30	34,5	7
		in	*2.36*	*2.56*	*1.38*	*0.24*	*1.89*	*2.32*	*0.24*	*0.74*	*1.18*	*1.18*	*1.36*	*0.27*
	G 1/2	**mm**	65	70	35	6	53	64	6	18,8	32,5	32,5	34,5	7
		in	*2.56*	*2.75*	*1.38*	*0.24*	*2.09*	*2.52*	*0.24*	*0.74*	*1.28*	*1.28*	*1.36*	*0.27*
	SAE6	**mm**	65	70	35	6	53	64	6	18,8	32,5	32,5	34,5	7
		in	*2.56*	*2.75*	*1.38*	*0.24*	*2.09*	*2.52*	*0.24*	*0.74*	*1.28*	*1.28*	*1.36*	*0.27*
	SAE8	**mm**	65	70	35	6	53	64	6	18,8	32,5	32,5	34,5	7
		in	*2.56*	*2.75*	*1.38*	*0.24*	*2.09*	*2.52*	*0.24*	*0.74*	*1.28*	*1.28*	*1.36*	*0.27*
SAE 12/3	G 1/2	**mm**	70	100	40	8	54	92	8	25	35	35	53,5	8,5
		in	*2.75*	*3.94*	*1.57*	*0.31*	*2.12*	*3.6*	*0.31*	*0.98*	*1.38*	*1.38*	*2.10*	*0.33*
	G 3/4	**mm**	90	100	50	10	70	90	10	25,1	45	45	53,5	10,5
		in	*3.54*	*3.94*	*1.97*	*0.39*	*2.75*	*3.54*	*0.39*	*0.99*	*1.77*	*1.77*	*2.11*	*0.41*
	SAE10	**mm**	80	100	40	8	64	92	8	25	40	40	53,5	8,5
		in	*3.15*	*3.94*	*1.57*	*0.31*	*2.52*	*3.6*	*0.31*	*0.98*	*1.57*	*1.57*	*2.11*	*0.33*
	SAE12	**mm**	80	100	45	8	64	92	8	25	40	40	53,5	8,5
		in	*3.15*	*3.94*	*1.57*	*0.31*	*2.52*	*3.6*	*0.31*	*0.98*	*1.57*	*1.57*	*2.11*	*0.33*
SAE 16/3	G 3/4	**mm**	90	100	50	10	70	90	10	25,1	45	45	53,5	10,5
		in	*3.54*	*3.94*	*1.97*	*0.39*	*2.75*	*3.54*	*0.39*	*0.99*	*1.77*	*1.77*	*2.11*	*0.41*
	SAE12	**mm**	90	105	50	10	70	95	10	25,1	45	45	53,5	10,5
		in	*3.54*	*4.13*	*1.97*	*0.39*	*2.75*	*3.74*	*0.39*	*0.99*	*1.77*	*1.77*	*2.11*	*0.41*
	SAE16	**mm**	90	105	50	10	70	95	10	25,1	45	45	53,5	10,5
		in	*3.54*	*4.13*	*1.97*	*0.39*	*2.75*	*3.74*	*0.39*	*0.99*	*1.77*	*1.77*	*2.11*	*0.41*

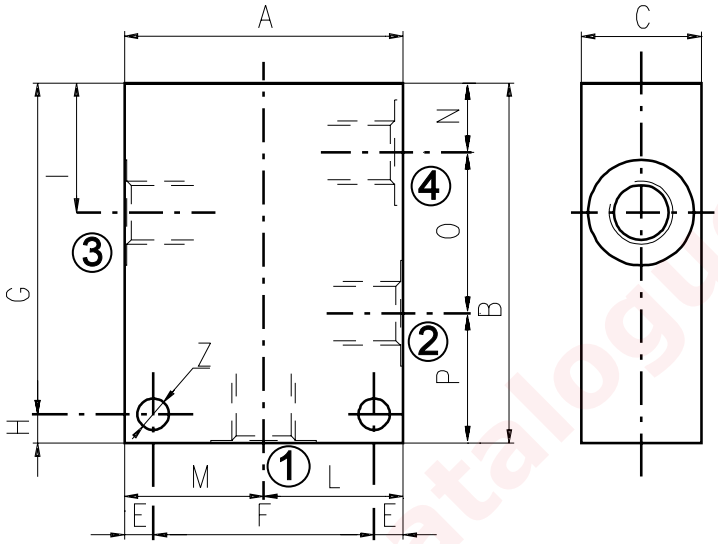
Order code

3/CC /- □ □ /30/□- □-1

Cavity	Ports	Materials
08	**B)** G 1/4	**1)** Aluminium
10	**C)** G 3/8	**2)** Steel
12	**D)** G 1/2	
16	**E)** G 3/4	

Dimensions

Material	Max. pressure	
	bar	*psi*
Alluminium	210	*3050*
Steel	350	*5100*

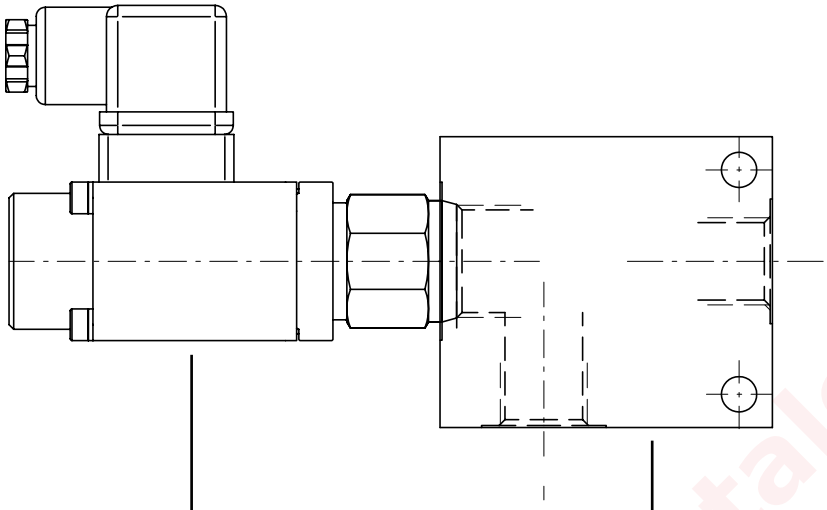


Cavity	Ports		A	B	C	E	F	G	H	I	L	M	N	O	P	Z
SAE 8/4	G 1/4	mm	60	75	30	7	46	63	12	29,1	30	30	14,8	29,1	31,1	6,5
		in	*2.36*	*2.95*	*1.18*	*0.27*	*1.81*	*2.48*	*0.47*	*1.14*	*1.18*	*1.18*	*0.58*	*1.14*	*1.22*	*0.25*
	SAE6	mm	60	75	30	7	46	63	12	29,1	30	30	14,8	29,1	31,1	6,5
		in	*2.36*	*2.95*	*1.18*	*0.27*	*1.81*	*2.48*	*0.47*	*1.14*	*1.18*	*1.18*	*0.58*	*1.14*	*1.22*	*0.25*
SAE 10/4	G 3/8	mm	60	85	35	6	48	79	6	34,5	30	30	18,8	31,7	34,5	7
		in	*2.36*	*3.35*	*1.38*	*0.24*	*1.89*	*3.11*	*0.24*	*1.36*	*1.18*	*1.18*	*0.74*	*1.25*	*1.36*	*0.27*
	G 1/2	mm	70	85	35	6	58	79	6	34,5	35	35	18,8	31,7	34,5	7
		in	*2.75*	*3.35*	*1.38*	*0.24*	*2.28*	*3.11*	*0.24*	*1.36*	*1.38*	*1.38*	*0.74*	*1.25*	*1.36*	*0.27*
	SAE6	mm	60	85	35	6	48	79	6	34,5	30	30	18,8	31,7	34,5	7
		in	*2.45*	*3.35*	*1.38*	*0.24*	*1.89*	*3.11*	*0.24*	*1.36*	*1.18*	*1.18*	*0.74*	*1.25*	*1.36*	*0.27*
	SAE8	mm	70	85	35	6	58	79	6	34,5	35	35	18,8	31,7	34,5	7
		in	*2.75*	*3.35*	*1.38*	*0.24*	*2.28*	*3.11*	*0.24*	*1.36*	*1.38*	*1.38*	*0.74*	*1.25*	*1.36*	*0.27*
SAE 12/4	G 1/2	mm	80	115	40	8	64	107	8	44	40	40	22	44,5	48,5	8,5
		in	*3.15*	*4.53*	*1.57*	*0.31*	*2.52*	*4.21*	*0.31*	*1.73*	*1.57*	*1.57*	*0.87*	*1.75*	*1.9*	*0.33*
	SAE10	mm	80	115	40	8	64	107	8	44	40	40	22	44,5	48,5	8,5
		in	*3.15*	*4.53*	*1.57*	*0.31*	*2.52*	*4.21*	*0.31*	*1.73*	*1.57*	*1.57*	*0.87*	*1.75*	*1.9*	*0.33*
SAE 16/4	G 3/4	mm	100	130	50	10	80	120	10	53,5	50	50	25,1	56,9	48	10,5
		in	*3.94*	*5.12*	*1.97*	*0.39*	*3.15*	*4.72*	*0.39*	*2.11*	*1.97*	*1.97*	*0.99*	*2.24*	*1.89*	*0.41*

3/CC /- □ □ /40/□- □-1

Cavity	Ports	Materials
08	**B)** G 1/4	**1)** Aluminium
10	**C)** G 3/8	**2)** Steel
12	**D)** G 1/2	
16	**E)** G 3/4	

How to order valves with body



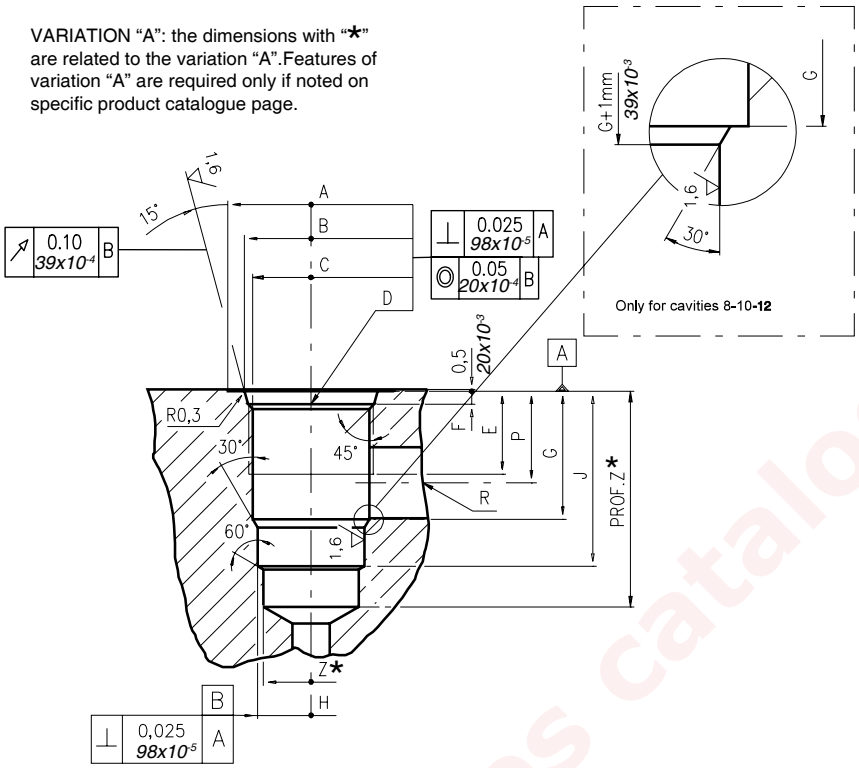
CARTRIDGE CODE **MP-10-Y/0-4-1V/**

BILLET CODE **C- 1-1**

Cavity	Ports	Materials
08	B) G 1/4	1) Aluminium
10	C) G 3/8	
12	D) G 1/2	
16	E) G 3/4	
	F) G 1	
	J) SAE 6	2) Steel
	K) SAE 8	
	L) SAE 10	
	M) SAE 12	
	N) SAE 16	

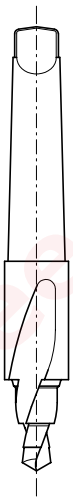
Dimensions

VARIATION “A”: the dimensions with “*” are related to the variation “A”.Features of variation “A” are required only if noted on specific product catalogue page.



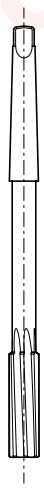
\		A	B ±0,05	C ±0,05	D	E	F	G	H ±0,02	J	K ±0,02	L	M ±0,02	N	P	R øMAX	S	T øMAX	U	V øMAX	X øMAX	Z* øMIN	Prof.Z MIN*
08/2	mm	27	20,66	17,42	3/4-16 UNF	12,50	2,50	18,20	12,72	29,50	-	-	-	-	14,00	8,00	-	-	-	-	-	12,00	39
	in	*1.06*	*0.81*	*0.68*		*0.49*	*0.10*	*0.72*	*0.50*	*1.16*					*0.55*	*0.31*						*0.47*	*1.53*
10/2	mm	30	24,00	20,62	7/8-14 UNF	16,00	2,80	24,00	15,90	33,50	-	-	-	-	18,30	11,00	-	-	-	-	-	14,50	40
	in	*1.18*	*0.94*	*0.81*		*0.63*	*0.11*	*0.94*	*0.62*	*1.32*					*0.72*	*0.43*						*0.57*	*1.57*
12/2	mm	38	29,23	24,73	1 1/16-12 UNF	19,00	3,50	34,15	22,25	46,80	-	-	-	-	24,50	19,00	-	-	-	-	-	21,50	60
	in	*1.50*	*1.15*	*0.97*		*0.75*	*0.14*	*1.34*	*0.87*	*1.84*					*0.96*	*0.75*						*0.85*	*2.36*
16/2	mm	45	35,58	31,34	1 5/16-12 UNF	22,00	3,50	34,00	28,62	47,00	-	-	-	-	24,50	19,00	-	-	-	-	-	25,50	70
	in	*1.77*	*1.40*	*1.23*		*0.87*	*0.14*	*1.34*	*1.13*	*1.85*					*0.96*	*0.75*						*1,00*	*2.75*

Rougher tool



Cavity	Code number
08/2	3UT00053190
10/2	3UT00056610
12/2	3UT00054090
16/2	3UT00054510

Finisher tool



Cavity	Code number
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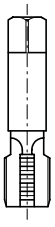
10/2	3UT00054580
12/2	3UT00054670
16/2	3UT00054520

Tap



Cavity	Code number
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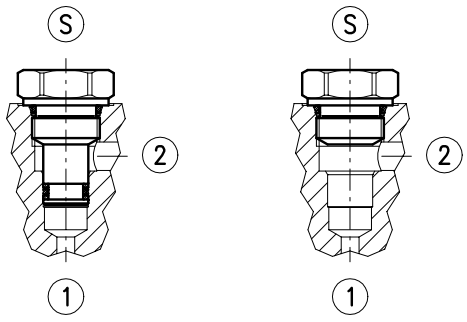
10/2	3UT07814UNF
12/2	3UT0111612UN
16/2	3UT0151612UN

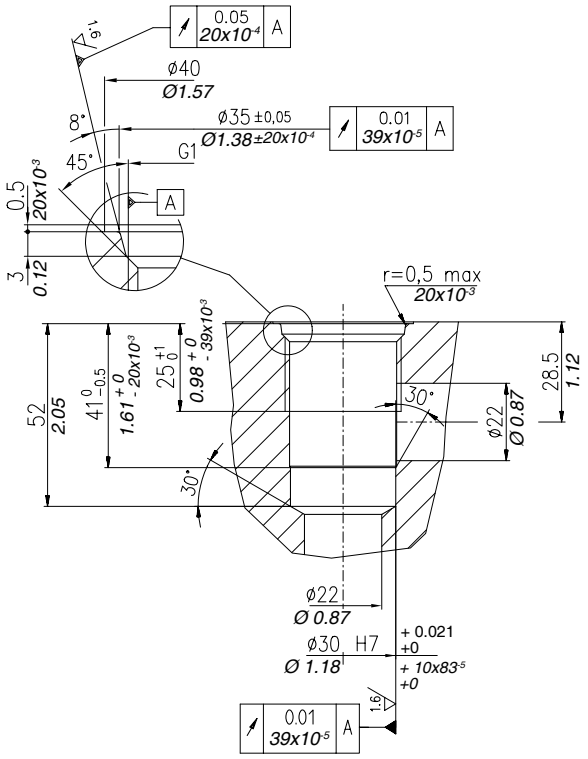
Cavity plugs



Cavity	Code number	①	②	Ⓢ
08/2	3XTP3533700	X	X	X
	4TP5531500	0	0	X
10/2	3XTP3544200	X	X	X
	3XTP1542300	0	0	X
12/2	3XTP3555400	X	X	X
	3XTP1552900	0	0	X
16/2	3XTP3575500	X	X	X
	3XTP1572900	0	0	X

X=Closed 0=Open

Dimensions



Rougher tool

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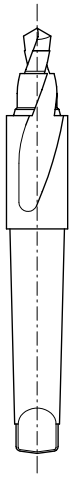
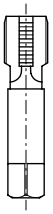


Finisher tool

Cod.3UTO6A3000N

Tap

Cod.3UT09A10F11G



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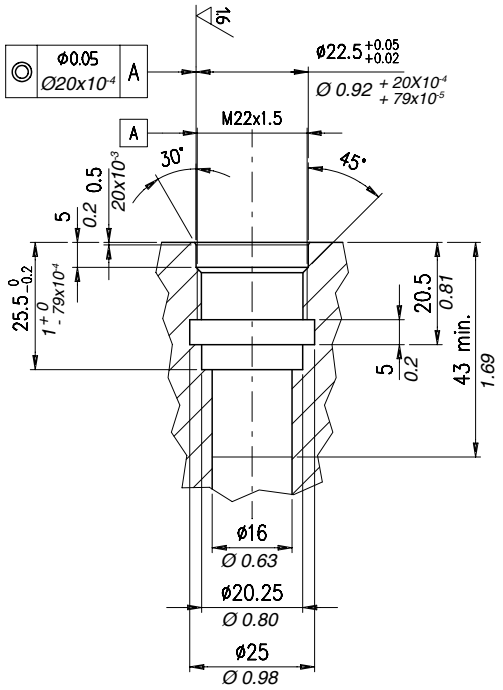

Rougher tool

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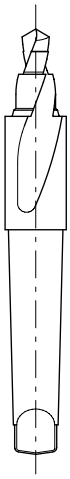

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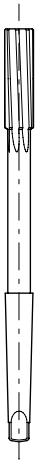
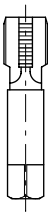


Tap

Code 3UT08A22F150



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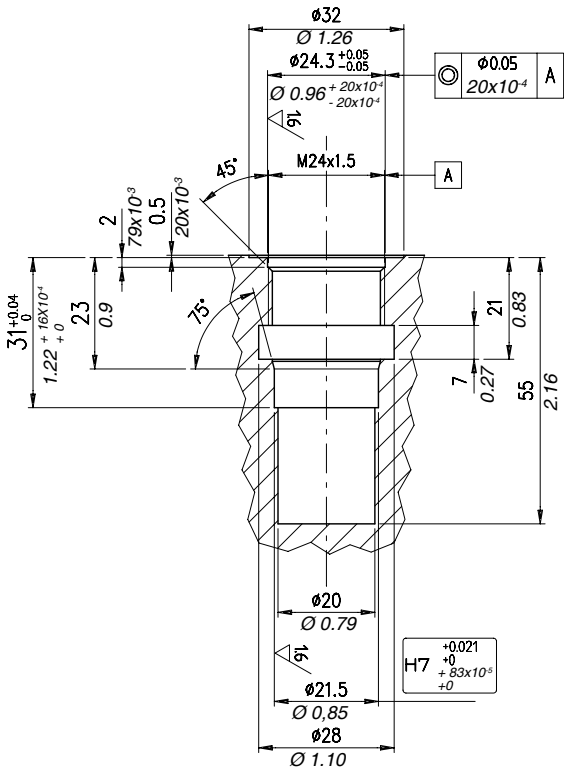

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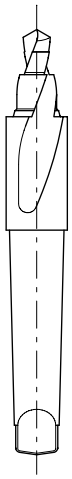

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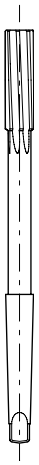
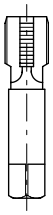
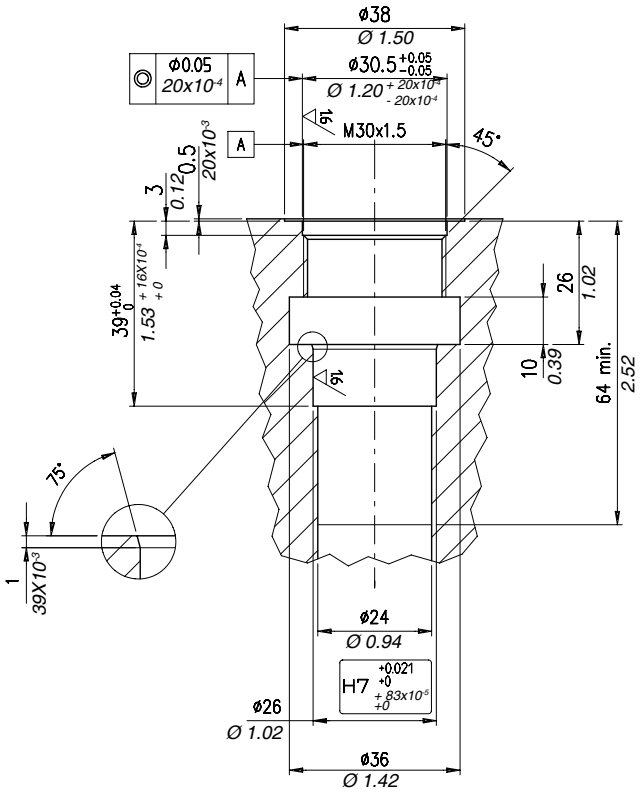


Tap

Code 3UT08A24F150



Dimensions



Rougher tool

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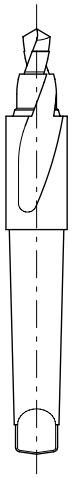
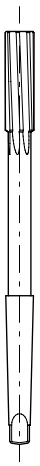


Finisher tool

Code 3UT06A2600P



Tap

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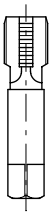

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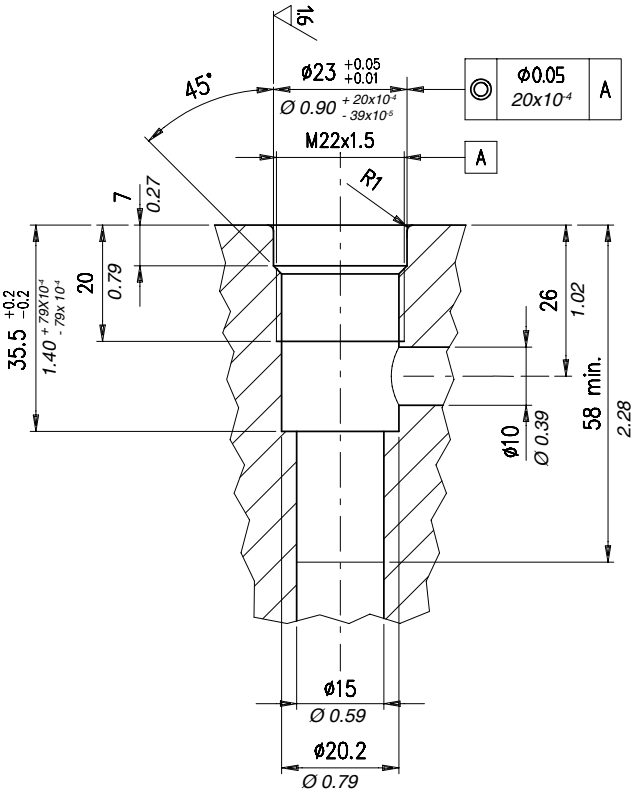

Rougher tool

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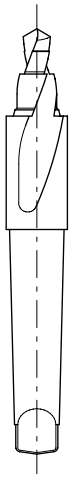

Finisher tool

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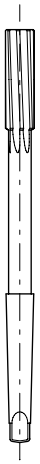

Tap

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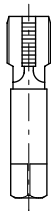

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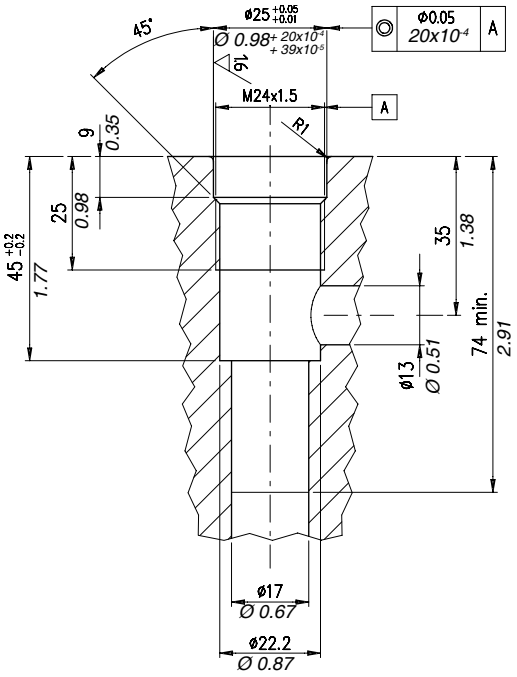

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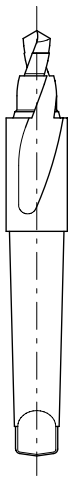

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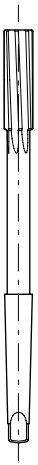
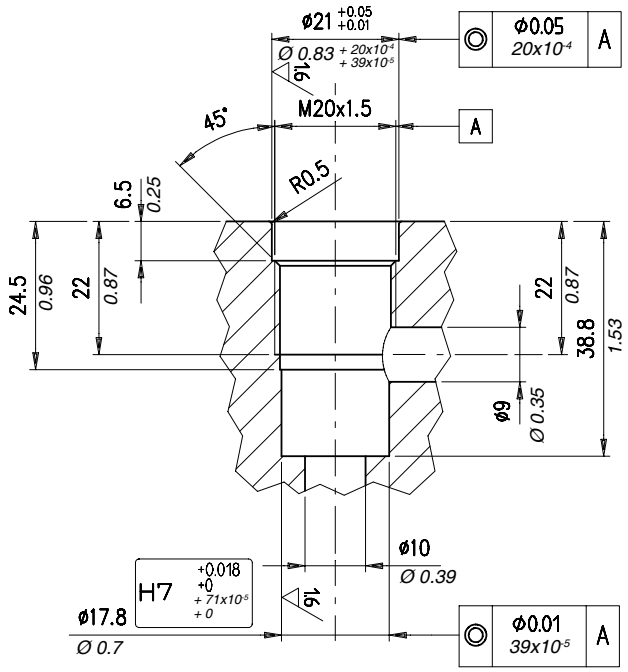


Tap

Code 3UT08A24F150

Dimensions



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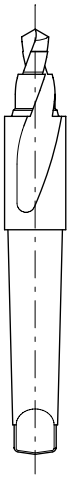

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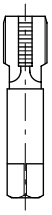

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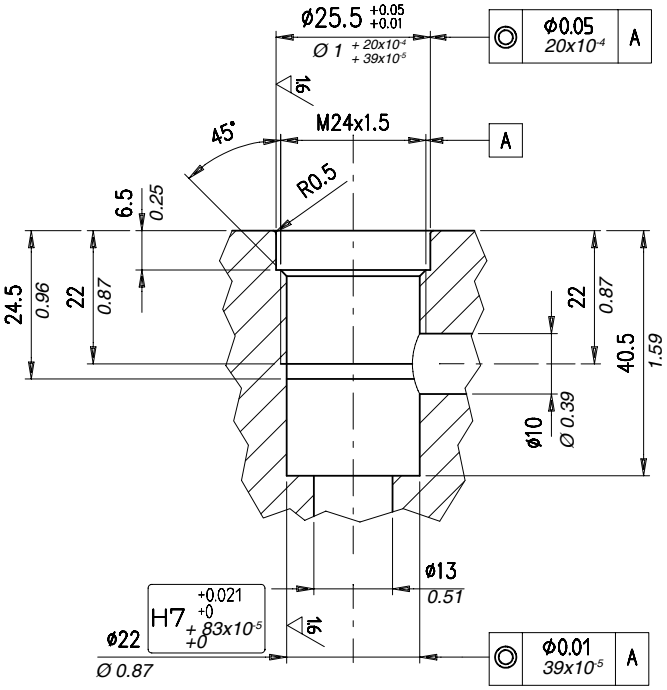

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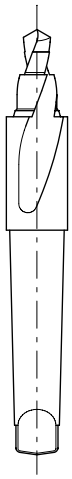

Finisher tool

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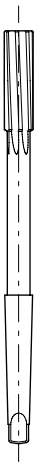

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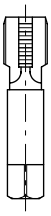

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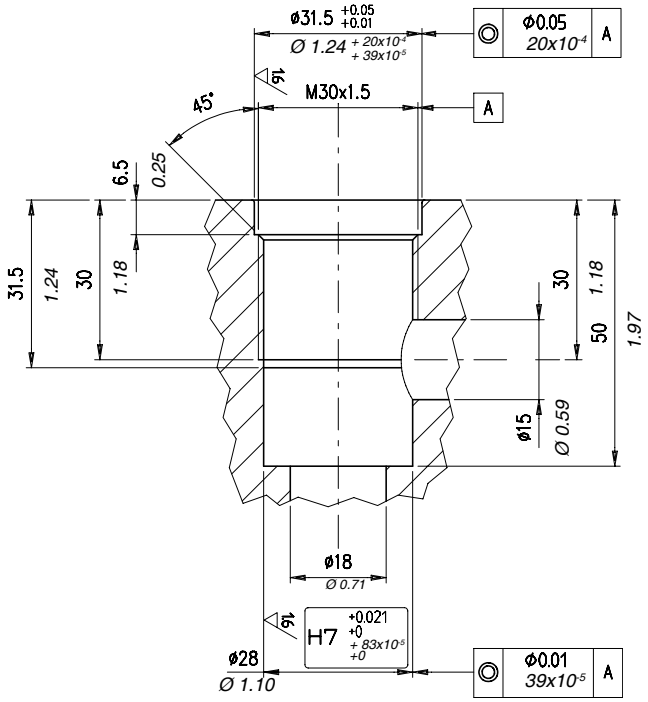

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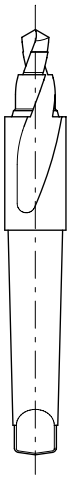

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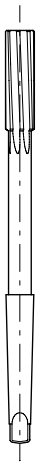

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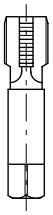

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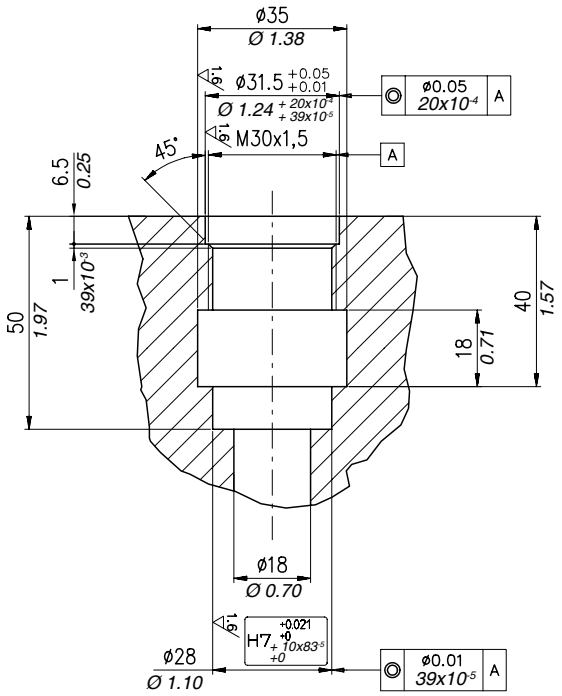

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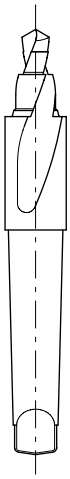

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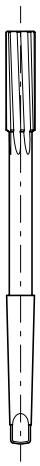

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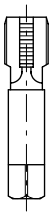

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