

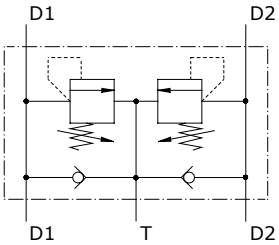
Type VAIL/VA
pressure relief valves

• Double antishock direct acting relief valve with anticavitation

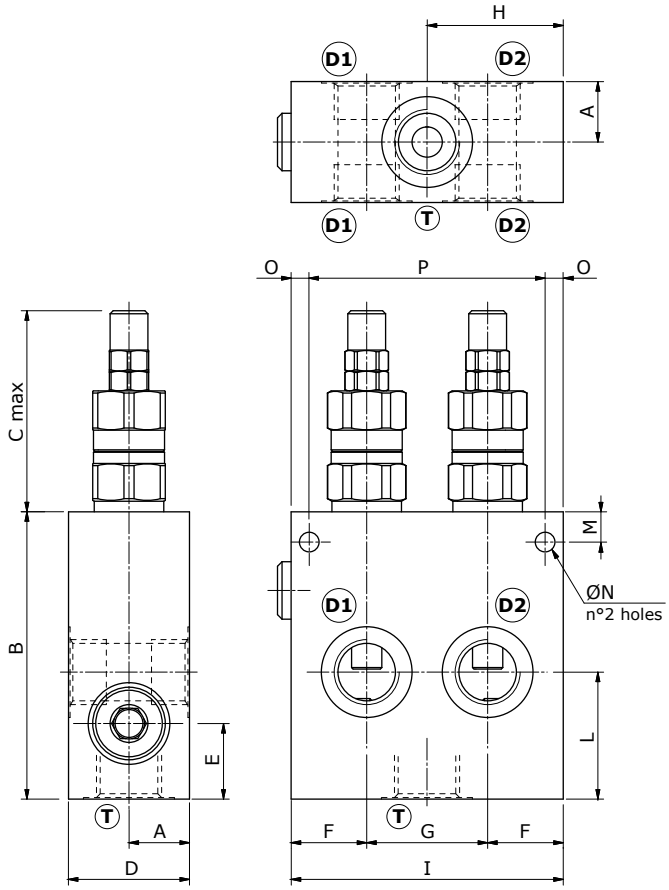
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VAIL/VA 12	VAIL/VA 34
Nominal flow		35 l/min *(9.2 US gpm)*	80 l/min *(21 US gpm)*
Max. pressure		Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*	
Oil leakage at 80% of max. setting		6 cm^3/min *(0.37 in^3/min)*	
Fluid		mineral based oil	
Viscosity		from 10 to 200 cSt	
Max. level of contamination		18/16/13 ISO4406	
Fluid temperature		*with NBR seals* from -20°C *(-4°F)* to 80°C *(176°F)* *with FPM seals* from -20°C *(-4°F)* to 100°C *(212°F)*	
Environmental temp. for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*	
Weight	*aluminium*	2.48 kg *(5.47 lb)*	2.23 kg *(4.92 lb)*
	steel	3.49 kg *(7.69 lb)*	4.47 kg *(9.85 lb)*

NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions



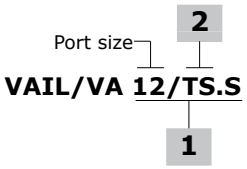
Valve type	All ports
VAIL/VA 12	G1/2
VAIL/VA 34	G3/4

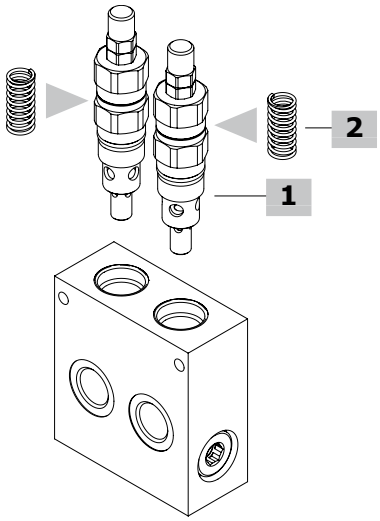
Valve type	All ports
VAIL/VA 12/SAE	SAE10
VAIL/VA 34/SAE	SAE12

Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	ØN	O	P
VAIL/VA 12 VAIL/VA 12/SAE	20-*0.79*	95-*3.74*	68-*2.68*	40-*1.57*	25-*0.98*	25-*0.98*	40-*1.57*	45-*1.77*	90-*3.54*	42-*1.65*	10-*0.39*	6.5-*0.25*	6-*0.24*	78-*3.07*
VAIL/VA 34 VAIL/VA 34/SAE	*25-0.98*	110-*4.33*	82.5-*3.25*	50-*1.97*	24-*0.94*	29-*1.14*	52-*2.05*	55-*2.05*	110-*4.33*	47-*1.85*	10-*0.39*	8.5-*0.33*	8-*0.31*	94-*3.70*

Ordering codes and description composition





VAIL/VA complete valves

Aluminium body configuration, with direct acting valves; standard setting 140 bar @ 5 l/min (2030 psi at 1.32 US gpm)

TYPE	CODE	DESCRIPTION
Configuration with G1/2 standard thread		
VAIL/VA 12/TS.S	1142031102	Range 50-200 bar *(725-2900 psi)*
VAIL/VA 12/TS.S/ac	1142032101	Range 50-200 bar *(725-2900 psi)*
Configuration with G3/4 standard thread		
VAIL/VA 34/TS.S	1142041102	Range 50-200 bar *(725-2900 psi)*
VAIL/VA 34/TS.S/ac	1142042100	Range 50-200 bar *(725-2900 psi)*
Configuration with SAE10 standard thread		
VAIL/VA 12/TS.S/SAE	1142031200	Range 50-200 bar *(725-2900 psi)*
Configuration with SAE12 standard thread		
VAIL/VA 34/TS.S/SAE	1142041200	Range 50-200 bar *(725-2900 psi)*

1 Direct acting pressure relief valves

TYPE	CODE	DESCRIPTION
For G1/2 and SAE10 ports configuration		
VMP 12/TS.S	1100030406	Setting range 50-200 bar *(725-2900 psi)*
For G3/4 and SAE12 ports configuration		
VMP 34/TS.S	1100040406	Setting range 50-200 bar *(725-2900 psi)*

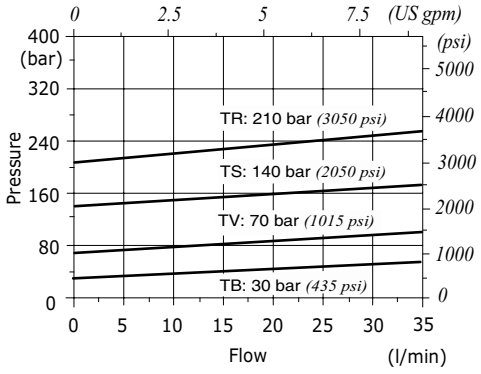
2 Pressure setting spring

TYPE	CODE	DESCRIPTION
For VAIL/VA 12 valve		
TB	3ML1144600	Setting range 5-30 bar *(72.5-435 psi)*
TV	3ML1144601	Setting range 20-100 bar *(290-1450 psi)*
TS	3ML1144602	Setting range 50-200 bar *(725-2900 psi)*
TR	3ML1144603	Setting range 100-300 bar *(1450-4350 psi)*
For VAIL/VA 34 valve		
TV	3ML1166804	Setting range 5-100 bar *(72.5- 1450 psi)*
TS	3ML1146800	Setting range 50-200 bar *(725-2900 psi)*
TR	3ML1166805	Setting range 100-300 bar *(1450-4350 psi)*

For other steel body configurations, SAE thread and configurations with FPM (Viton) seals, please contact our Sales Dpt.

Rating diagrams

VAIL/VA 12 pressure drop vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*



VAIL/VA 34 pressure drop vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*

