

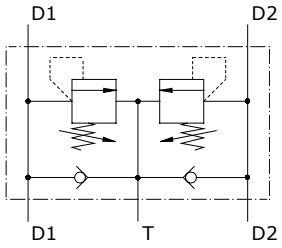
Type VADDL/VA
pressure relief valves

- Double antishock differential acting relief valve with anticavitation

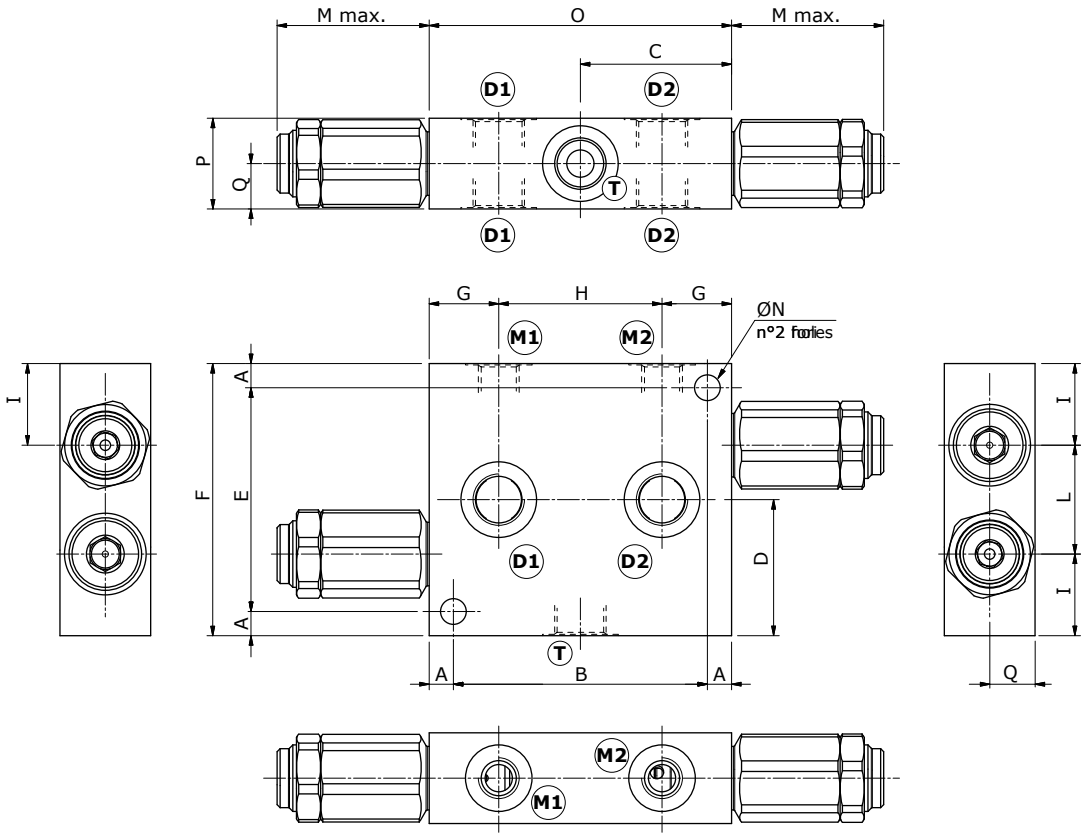
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VADDL/VA 38	VADDL/VA 12	VADDL/VA 34	VADDL/VA 100
Nominal flow		35 l/min *(9.2 US gpm)*	60 l/min *(16 US gpm)*	120 l/min *(31.7 US gpm)*	180 l/min *(47.6 US gpm)*
Max. pressure		Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*			
Oil leakage at 80% of max. setting		0.50 cm^3/min *(0.03 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)*			
Environmental temperature for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*			
Weight	*aluminium*	1.14 kg *(2.51 lb)*	1.58 kg *(3.48 lb)*	3.25 kg *(7.16 lb)*	3.57 kg *(7.87 lb)*
	steel	2.10 kg *(4.63 lb)*	3.10 kg *(6.83 lb)*	6.50 kg *(14.33 lb)*	7.78 kg *(17.15 lb)*

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



Dimensions



Valve type	D1	D2	T	M1	M2
VADDL/VA 38	G3/8			G1/4	
VADDL/VA 12	G1/2			G1/4	
VADDL/VA 34	G3/4			G1/4	
VADDL/VA 100	G1"			G1/4	

Valve type	D1	D2	T	M1	M2
VADDL/VA 38/SAE	SAE8			SAE6	
VADDL/VA 12/SAE	SAE10			SAE6	
VADDL/VA 34/SAE	SAE12			SAE6	
VADDL/VA 100/SAE	SAE16			SAE6	

Dimensions are in mm-*in*

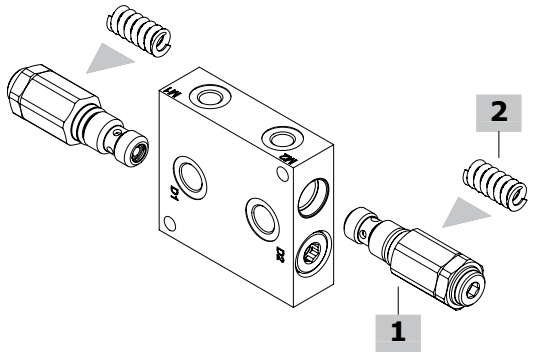
Valve type	A	B	C	D max	E	F	G	H	I	L	M	ØN	O	P	Q
VADDL/VA 38 **VADDL/VA 38/SAE**	8-*0.31*	84-*3.31*	50-*1.97*	57.7-*2.27*	74-*2.91*	90-*3.54*	23-*0.90*	54-*2.12*	27-*1.06*	36-*1.42*	52-*2.05*	8.5-*0.33*	100-*3.94*	30-*1.18*	15-*0.59*
VADDL/VA 12 **VADDL/VA 12/SAE**	8-*0.31*	84-*3.31*	46-*1.81*	56.2-*2.21*	84-*3.30*	100-*3.94*	23-*0.90*	54-*2.12*	30-*1.18*	40-*1.57*	57-*2.24*	8.5-*0.33*	100-*3.94*	40-*1.57*	20-*0.79*
VADDL/VA 34 **VADDL/VA 34/SAE**	10-*0.39*	110-*4.33*	55-*1.97*	68.8-*2.71*	100-*3.94*	120-*4.72*	28-*1.10*	64-*2.52*	37-*1.46*	46-*1.81*	66-*2.60*	10.5-*0.41*	120-*4.72*	60-*3.15*	30-*1.18*
VADDL/VA 100 **VADDL/VA 100/SAE**	10-*0.39*	110-*4.33*	70-*2.75*	68.8-*2.71*	110-*4.33*	130-*5.11*	30-*1.18*	70-*2.75*	37-*1.46*	56-*2.20*	66-*2.60*	10.5-*0.41*	130-*5.11*	70-*2.75*	35-*1.38*

Ordering codes and description composition

Port size 2

VADDL/VA 38/TS.S

1



VADDL/VA complete valves

Differential type valve configuration
Standard setting 150 bar @ 5 l/min (2100 psi at 1.32 US gpm)

TYPE	CODE	DESCRIPTION
Configuration with G3/8 standard thread		
VADDL/VA 38/TS.S	1152021102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL/VA 38/TS.S/ac	1152022100	Steel body, as previous one
Configuration with G1/2 standard thread		
VADDL/VA 12/TS.S	1152031102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL/VA 12/TS.S/ac	1152032100	Steel body, as previous one
Configuration with G3/4 standard thread		
VADDL/VA 34/TS.S	1152041102	Aluminium body, setting range 5-210 bar*(72.5-3045 psi)*
VADDL/VA 34/TS.S/ac	1152042100	Steel body, as previous one
Configuration with G1" standard thread		
VADDL/VA 100/TS.S	1152051102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL/VA 100/TS.S/ac	1152052100	Steel body, as previous one
Configuration with SAE8 standard thread		
VADDL/VA 38/TS.S/SAE	1152021200	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
Configuration with SAE10 standard thread		
VADDL/VA 12/TS.S/SAE	1152031200	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
Configuration with SAE12 standard thread		
VADDL/VA 34/TS.S/SAE	1152041200	Aluminium body, setting range 5-210 bar*(72.5-3045 psi)*
Configuration with SAE16 standard thread		
VADDL/VA 100/TS.S/SAE	1152051200	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*

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

1 Direct acting pressure relief valves

Standard setting 150 bar @ 5 l/min (2100 psi at 1.32 US gpm)

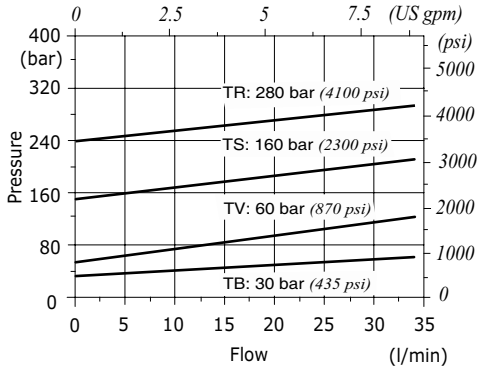
TYPE	CODE	DESCRIPTION
For G3/8 and SAE8 ports configuration		
VMPD 38/TS.S	1120020402	Setting range 5-210 bar *(72.5-3050 psi)*
For G1/2 and SAE10 ports configuration		
VMPD 12/TS.S	1120030402	Setting range 5-210 bar *(72.5-3050 psi)*
For G3/4, G1", SAE12 and SAE16 ports configuration		
VMPD 34/TS.S	1120040402	Setting range 5-210 bar *(72.5-3050 psi)*

2 Pressure setting spring

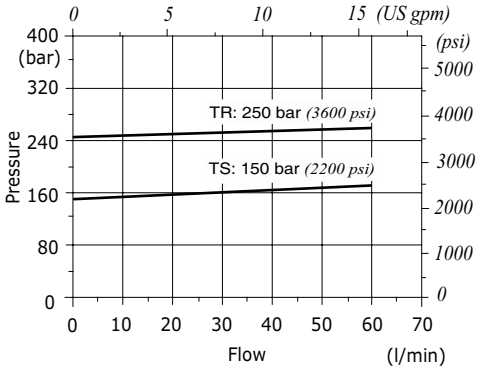
TYPE	CODE	DESCRIPTION
For VMPD 38 valve		
TS	3ML1144000	Spring for range 5-210 bar *(72.5-3050 psi)*
TR	3ML1144001	Spring for range 50-350 bar *(725-5100 psi)*
For VMPD 12 valve		
TS	3ML1164000	Spring for range 5-210 bar *(72.5-3050 psi)*
TR	3ML1164001	Spring for range 50-350 bar *(725-5100 psi)*
For VMPD 34 valve		
TS	3ML1194500	Spring for range 5-210 bar *(72.5-3050 psi)*
TR	3ML1194501	Spring for range 50-350 bar *(725-5100 psi)*

Rating diagrams

VADDL/VA 38 pressure vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*



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



VADDL/VA 34-100 pressure vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*

