

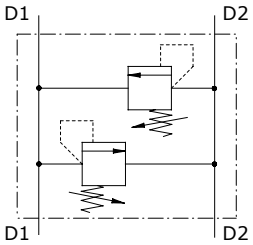
Type VADDL
pressure relief valves

- Double antishock differential acting relief valve

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

		VADDL 38	VADDL 12	VADDL 34	VADDL 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		0.5 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)* *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*	0.88 kg *(1.94 lb)*	1.17 kg *(2.58 lb)*	1.93 kg *(4.25 lb)*	2.29 kg *(5.05 lb)*
	steel	1.53 kg *(3.37 lb)*	2.04 kg *(4.50 lb)*	4.77 kg *(7.30 lb)*	4.16 kg *(9.17 lb)*

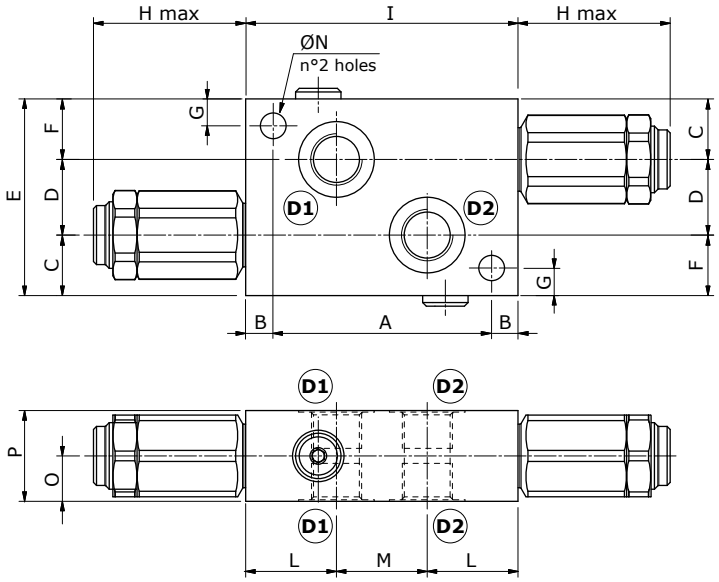
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Valve type	All ports
VADDL 38	G3/8
VADDL 12	G1/2
VADDL 34	G3/4
VADDL 100	G1

Valve type	All ports
VADDL 38/SAE	SAE8
VADDL 12/SAE	SAE10
VADDL 34/SAE	SAE12
VADDL 100/SAE	SAE16



Dimensions are in mm-*in*

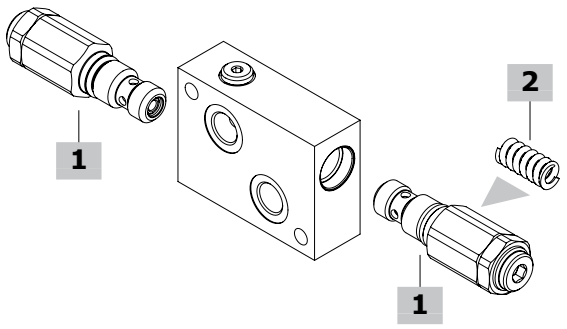
Valve type	A	B	C	D	E	F	G	H max	I	L	M	ØN	O	P
VADDL 38 VADDL 38/SAE	72-*2.83*	9-*0.35*	20-*0.79*	25-*0.98*	65-*2.56*	20-*0.79*	9-*0.35*	57.7-*2.27*	90-*3.54*	30-*1.18*	30-*1.18*	8.5-*0.33*	15-*0.59*	30-*1.18*
VADDL 12 VADDL 12/SAE	80-*3.15*	10-*0.39*	21-*0.82*	27-*1.06*	70-*2.75*	22-*0.87*	10-*0.39*	56.2-*2.21*	100-*3.94*	31-*1.22*	38-*1.50*	8.5-*0.33*	17.5-*0.69*	35-*1.38*
VADDL 34 VADDL 34/SAE	90-*3.54*	10-*0.39*	31-*1.22*	32-*1.26*	90-*3.54*	27-*1.06*	10-*0.39*	68.8-*2.71*	110-*4.33*	36-*1.42*	38-*1.50*	8.5-*0.33*	20-*0.79*	40-*1.57*
VADDL 100 VADDL 100/SAE	90-*3.54*	10-*0.39*	34-*1.34*	38-*1.50*	100-*3.94*	28-*1.10*	10-*0.39*	68.8-*2.71*	110-*4.33*	30-*1.18*	50-*1.97*	8.5-*0.33*	25-*0.98*	50-*1.97*

Ordering codes and description composition

Port size 2

VADDL 38/TS.S

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VADDL 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 38/TS.S	1150021102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL 38/TS.S/ac	1150022100	Steel body, as previous one
Configuration with G1/2 standard thread		
VADDL 12/TS.S	1150031102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL 12/TS.S/ac	1150032100	Steel body, as previous one
Configuration with G3/4 standard thread		
VADDL 34/TS.S	1150041102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL 34/TS.S/ac	1150042101	Steel body, as previous one
Configuration with G1" standard thread		
VADDL 100/TS.S	1150051102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VADDL 100/TS.S/ac	1150052100	Steel body, as previous one
Configuration with SAE8 standard thread		
VADDL 38/TS.S/SAE	1150021200	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
Configuration with SAE10 standard thread		
VADDL 12/TS.S/SAE	1150031201	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
Configuration with SAE12 standard thread		
VADDL 34/TS.S/SAE	1150041200	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
Configuration with SAE16 standard thread		
VADDL 100/TS.S/SAE	1150051200	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)

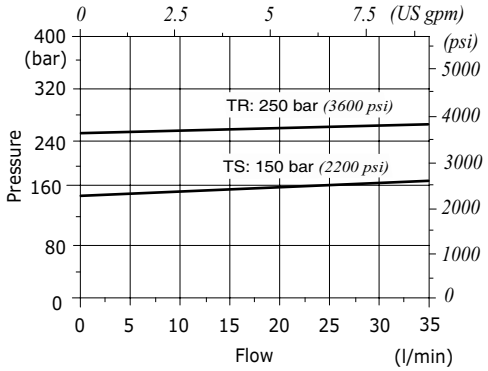
TYPE	CODE	DESCRIPTION
For G3/8 ports configuration		
VMPD 38/TS.S	1120020402	Setting range 5-210 bar *(72.5-3050 psi)*
For G1/2 ports configuration		
VMPD 12/TS.S	1120030402	Setting range 5-210 bar *(72.5-3050 psi)*
For G3/4 and G1" ports configuration		
VMPD 34/TS.S	1120040402	Setting range 5-210 bar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

2 Pressure setting spring

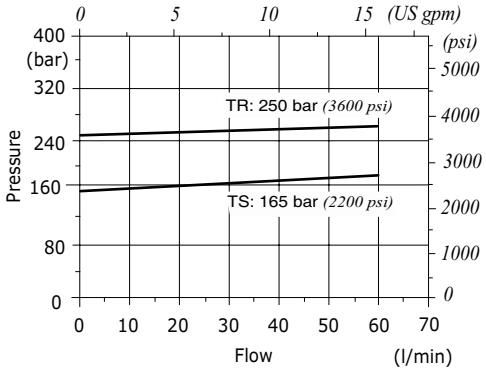
TYPE	CODE	DESCRIPTION
For VMPD 38 valve		
TS	3ML1144000	Setting range 5-210 bar *(72.5-3050 psi)*
TR	3ML1144001	Setting range 50-350 bar *(725-5100 psi)*
For VMPD 12 valve		
TS	3ML1164000	Setting range 5-210 bar *(72.5-3050 psi)*
TR	3ML1164001	Setting range 50-350 bar *(725-5100 psi)*
For VMPD 34 valve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

Rating diagrams

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



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



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

