



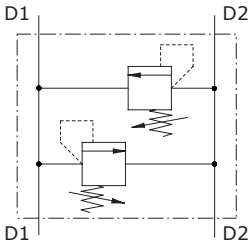
Type VADDL pressure relief valves

- 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 cm³/min (0.03 in³/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)

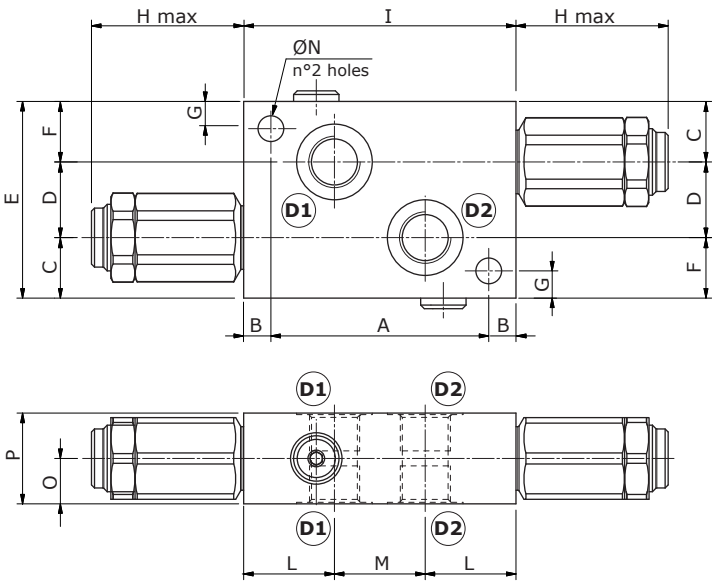
NOTE - For different conditions, please contact Walvoil Sales Dpt.



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

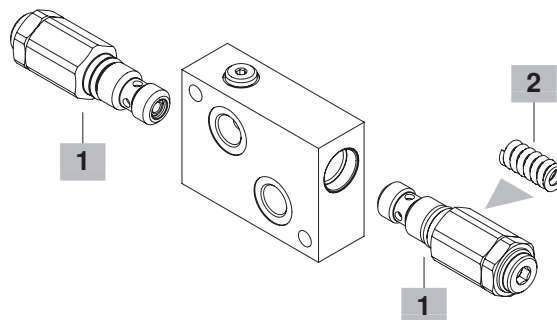


Dimensions are in mm-in

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
1



VADDL complete valves

Differential type valve configuration

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

TYPE	CODE	DESCRIPTION
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Configuration with G3/8 standard thread

VADDL 38/TS.S	1150021102	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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VADDL 38/TS.S/ac	1150022100	Steel body, as previous one
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Configuration with G1/2 standard thread

VADDL 12/TS.S	1150031102	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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VADDL 12/TS.S/ac	1150032100	Steel body, as previous one
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Configuration with G3/4 standard thread

VADDL 34/TS.S	1150041102	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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VADDL 34/TS.S/ac	1150042101	Steel body, as previous one
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Configuration with G1" standard thread

VADDL 100/TS.S	1150051102	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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VADDL 100/TS.S/ac	1150052100	Steel body, as previous one
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Configuration with SAE8 standard thread

VADDL 38/TS.S/SAE	1150021200	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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Configuration with SAE10 standard thread

VADDL 12/TS.S/SAE	1150031201	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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Configuration with SAE12 standard thread

VADDL 34/TS.S/SAE	1150041200	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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Configuration with SAE16 standard thread

VADDL 100/TS.S/SAE	1150051200	Aluminium body, setting range 5-210 bar (72.5-3045 psi)
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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
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For G3/8 ports configuration

VMPD 38/TS.S	1120020402	Setting range 5-210 bar (72.5-3050 psi)
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For G1/2 ports configuration

VMPD 12/TS.S	1120030402	Setting range 5-210 bar (72.5-3050 psi)
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For G3/4 and G1" ports configuration

VMPD 34/TS.S	1120040402	Setting range 5-210 bar (72.5-3050 psi)
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2 Pressure setting spring

TYPE	CODE	DESCRIPTION
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For VMPD 38 valve

TS	3ML1144000	Setting range 5-210 bar (72.5-3050 psi)
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TR	3ML1144001	Setting range 50-350 bar (725-5100 psi)
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For VMPD 12 valve

TS	3ML1164000	Setting range 5-210 bar (72.5-3050 psi)
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TR	3ML1164001	Setting range 50-350 bar (725-5100 psi)
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For VMPD 34 valve

TS	3ML1194500	Setting range 5-210 bar (72.5-3050 psi)
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TR	3ML1194501	Setting range 50-350 bar (725-5100 psi)
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Rating diagrams

