

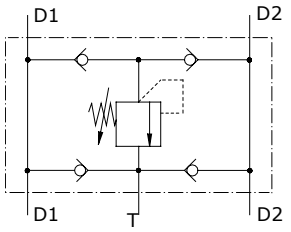
Type VAA/RU/DL
pressure relief valves

- Antishock direct acting relief valve with anticavitation, with single adjustment

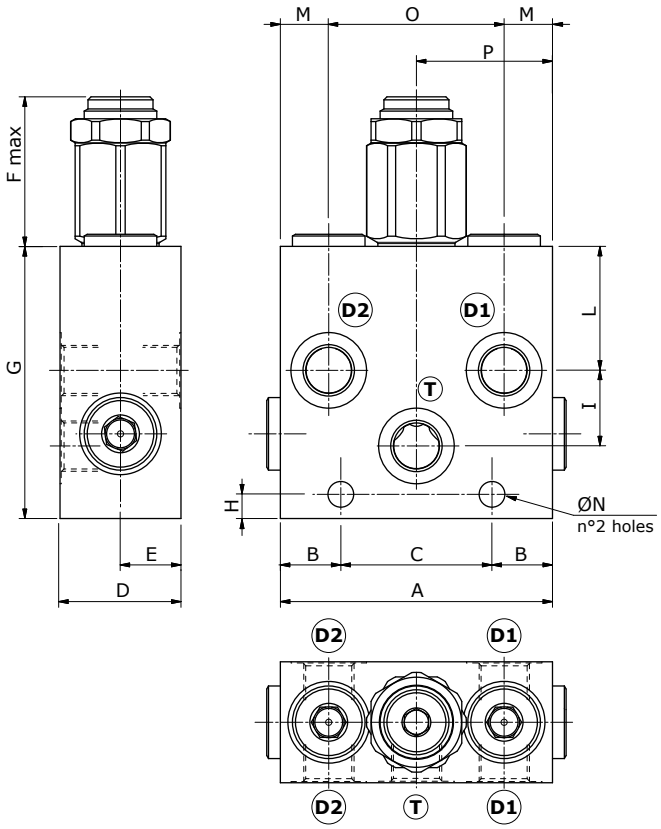
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

	VAA/RU/DL 38	VAA/RU/DL 12	VAA/RU/DL 34	VAA/RU/DL 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	0.75 cm^3/min *(0.04 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*	1.18 kg *(2.60 lb)*	1.15 kg *(2.53 lb)*	2.32 kg *(5.11 lb)*	3.95 kg *(8.71 lb)*
Weight *steel*	2.44 kg *(5.38 lb)*	2.38 kg *(5.25 lb)*	4.73 kg *(10.43 lb)*	8.12 kg *(17.90 lb)*

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



Dimensions



Valve type	All ports
VAA/RU/DL 38	G3/8
VAA/RU/DL 12	G1/2
VAA/RU/DL 34	G3/4
VAA/RU/DL 100	G1"

Dimensions are in mm-*in*

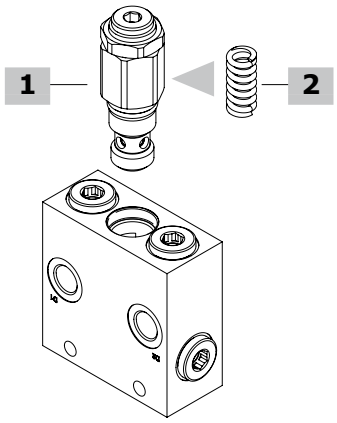
Valve type	A	B	C	D	E	F	G	H	I	L	M	ØN	O	P
VAA/RU/DL 38	90-*3.54*	20-*0.79*	50-*1.97*	40-*1.57*	20-*0.79*	57.7-*2.27*	90-*3.54*	8-*0.31*	25-*0.98*	41-*1.61*	16-*0.39*	8.5-*0.33*	58-*2.28*	45-*1.77*
VAA/RU/DL 12	90-*3.54*	20-*0.79*	50-*1.97*	40-*1.57*	20-*0.79*	56.2-*2.21*	90-*3.54*	8-*0.31*	25-*0.98*	41-*1.61*	16-*0.39*	8.5-*0.33*	58-*2.28*	45-*1.77*
VAA/RU/DL 34	110-*4.33*	24-*0.94*	62-*2.44*	55-*2.16*	27.5-*1.08*	68.8-*2.71*	110-*4.33*	8-*0.31*	31-*1.22*	53-*2.08*	24-*0.94*	8.5-*0.33*	62-*2.44*	56-*2.20*
VAA/RU/DL 100	140-*5.51*	32-*1.26*	76-*2.99*	60-*2.36*	30-*1.18*	68.8-*2.72*	140-*5.51*	11-*0.43*	37-*1.46*	65-*2.56*	27-*1.06*	10.5-*0.41*	86-*3.38*	70-*2.75*

Ordering codes and description composition

Port size 2

VAA/RU/DL 38/TS.S

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VAA/RU/DL complete valves

Direct acting 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		
VAA/RU/DL 38/TS.S	1160021102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VAA/RU/DL 38/TS.S/ac	1160022100	Steel body, as previous one
Configuration with G1/2 standard thread		
VAA/RU/DL 12/TS.S	1160031102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VAA/RU/DL 12/TS.S/ac	1160032100	Steel body, as previous one
Configuration with G3/4 standard thread		
VAA/RU/DL 34/TS.S	1160041102	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VAA/RU/DL 34/TS.S/ac	1160042100	Steel body, as previous one
Configuration with G1" standard thread		
VAA/RU/DL 100/TS.S	1160051100	Aluminium body, setting range 5-210 bar *(72.5-3045 psi)*
VAA/RU/DL 100/TS.S/ac	1160052101	Steel body, as previous one

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)

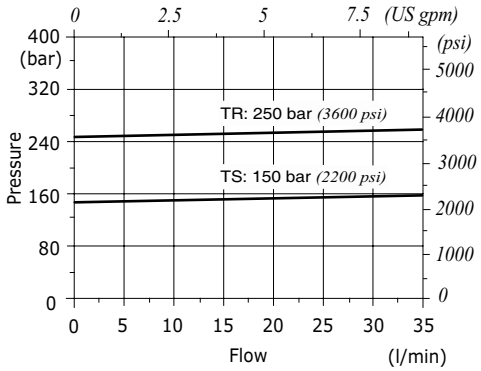
TYPE	CODE	DESCRIPTION
For G3/8 qnd G1/2 ports configuration		
VMPD 12/TS.S	1120030402	Setting range 5-210 bar *(72.5-3050 psi)*
For G3/4 ports configuration		
VMPD 34/TS.S	1120040402	Setting range 5-210 bar *(72.5-3050 psi)*
For G1" ports configuration		
VMPD 100/TS.S	1120050402	Setting range 5-210 bar *(72.5-3050 psi)*

2 Pressure setting spring

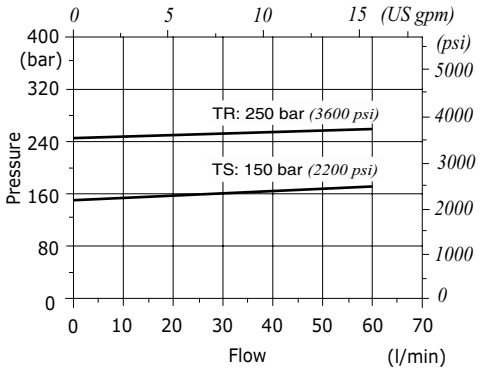
TYPE	CODE	DESCRIPTION
For VAA/RU/DL 38, 12 and 100 valves		
TS	3ML1164000	Spring for range 5-210 bar *(72.5-3050 psi)*
TR	3ML1164001	Spring for range 50-350 bar *(725-5100 psi)*
For VAA/RU/DL 34 valve		
TS	3ML1194500	Spring for range 5-210 bar *(72.5-3050 psi)*
TR	3ML1194501	Spring for range 50-350 bar *(725-5100 psi)*

Rating diagrams

VAA/RU/DL 38 pressure vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*



VAA/RU/DL 12 pressure dop vs. flow
Std. setting @ 5 l/min *(1.32 US gpm)*



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

