

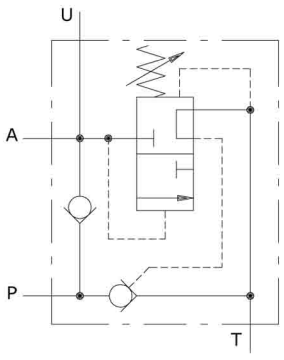
Type VDA
unloader valves

- Single acting
- Built-in check

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

		VDA 38	VDA 12	VDA 34
Nominal flow		25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	100 l/min *(26.4 US gpm)*
Max. pressure			Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*	
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 temp. for working conditions			from -40°C *(-40°F)* to 100°C *(212°F)*	
Weight	*aluminium*	2.15 kg *(4.73 lb)*	2.35 kg *(5.18 lb)*	3.24 kg *(7.14 lb)*
	steel	5.05 kg *(12.13 lb)*	5.57 kg *(12.28 lb)*	8.10 kg *(17.86 lb)*

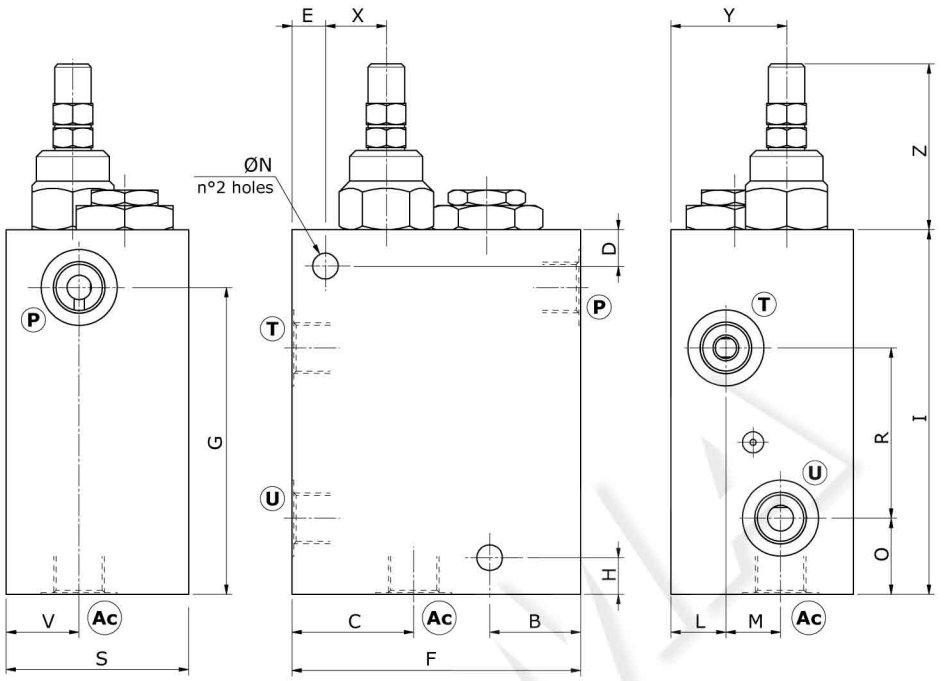
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Valve type	P T U	Ac
VDA 38	G3/8	M18x1.5
VDA 12	G1/2	G1/2

Valve type	P T U	Ac
VDA 38/SAE	SAE8	SAE8
VDA 12/SAE	SAE10	SAE10

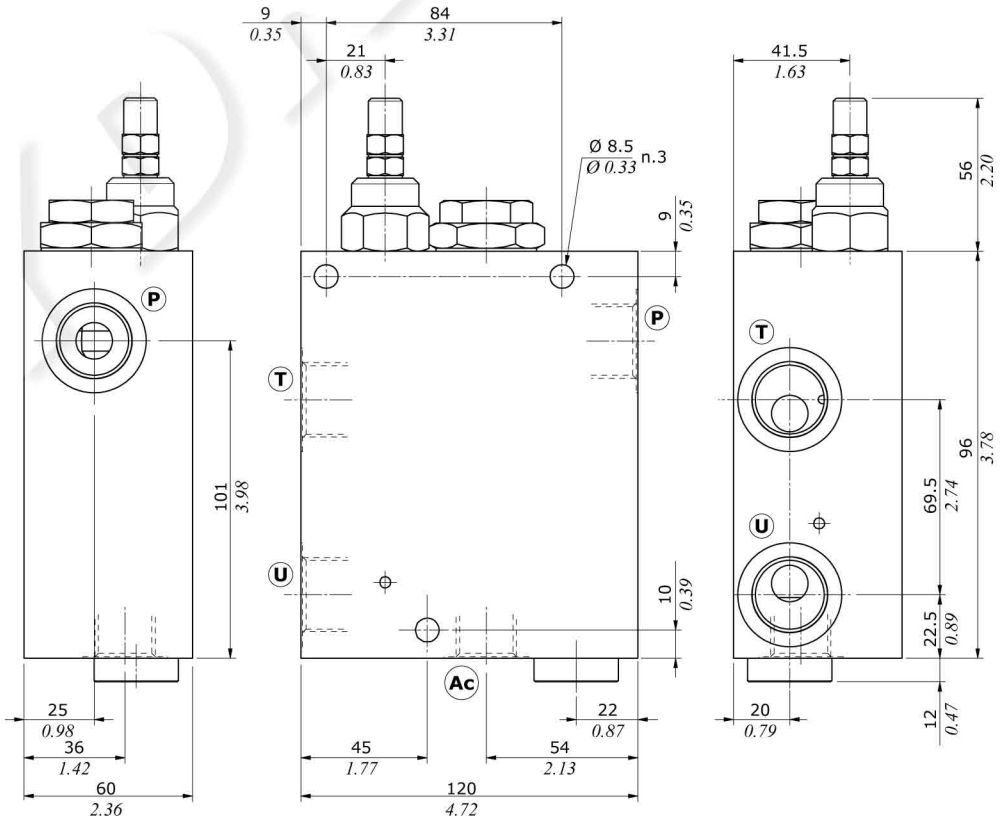


Dimensions are in mm-*in*

Valve type	B	C	D	E	F	G	H	I	L	M	ØN	O	R	S	V	X	Y	Z
VDA 38 **VDA 38/SAE**	30-*1.18*	40-*1.57*	12-*0.47*	11-*0.43*	95-*3.74*	101-*3.98*	12-*0.47*	120-*4.72*	18-*0.71*	18-*0.71*	8.5-*0.33*	25-*0.98*	56-*2.20*	60-*2.36*	24-*0.94*	20-*0.79*	38-*1.50*	56-*2.20*
VDA 12 **VDA 12/SAE**	42-*1.65*	42-*1.65*	13-*0.51*	12-*0.47*	108-*4.25*	101-*3.98*	11-*0.43*	120-*4.72*	19-*0.75*	11-*0.43*	8.5-*0.33*	25-*0.98*	56-*2.20*	60-*2.36*	23-*0.91*	22-*0.87*	38-*1.50*	56-*2.20*

Valve type	P T U	Ac
VDA 34	G3/4	G1/2

Valve type	P T U	Ac
VDA 34/SAE	SAE12	SAE10

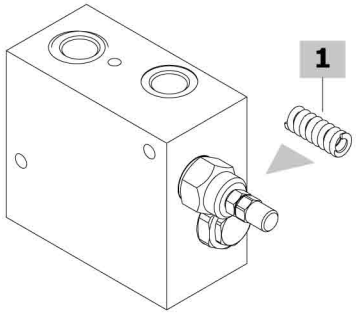


Ordering codes and description composition

Port size

VDA 38/TR.S.VRR

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VDA complete valves

Single type valve configuration
Standard setting 200 bar at 5 l/min (2900 psi at 1.32 US gpm)
Standard differential pressure 15%

TYPE	CODE	DESCRIPTION
Configuration with G3/8 standard thread		
VDA 38/TR.S.VRR	1210021101	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
VDA 38/DR/TR.S.VRR	1210021113	As previous one, with Drain port
VDA 38/TR.S.VRR/ac	1210022101	Steel body, setting range 100-250 bar *(1450-3600 psi)*
Configuration with G1/2 standard thread		
VDA 12/TR.S.VRR	1210031101	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
VDA 12/DR/TR.S.VRR	1210031104	As previous one, with Drain port
VDA 12/TR.S.VRR/ac	1210032101	Steel body, setting range 100-250 bar *(1450-3600 psi)*
Configuration with G3/4 standard thread		
VDA 34/TR.S.VRR	1210041101	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
VDA 34/DR/TR.S.VRR	1210041108	As previous one, with Drain port
VDA 34/TR.S.VRR/ac	1210042100	Steel body, setting range 100-250 bar *(1450-3600 psi)*
Configuration with SAE8 standard thread		
VDA 38/TR.S.VRR/SAE	1210021200	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
Configuration with SAE10 standard thread		
VDA 12/TR.S.VRR/SAE	1210031200	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
VDA 12/TR.S.VRR/ac/SAE	1210032102	Steel body, setting range 100-250 bar *(1450-3600 psi)*
Configuration with SAE12 standard thread		
VDA 34/TR.S.VRR/SAE	1210041200	Aluminium body, setting range 100-250 bar *(1450-3600 psi)*
VDA 34/TR.S.VRR/ac/SAE	1210042200	Steel body, setting range 100-250 bar *(1450-3600 psi)*

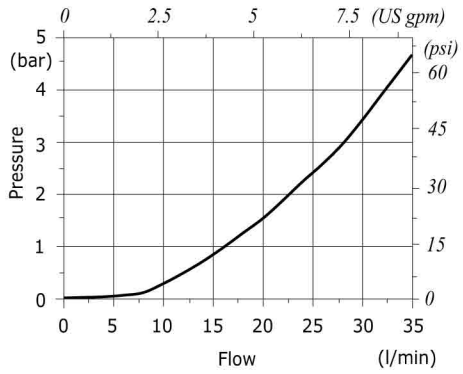
For other steel body configurations, SAE thread and configurations with FPM (Viton) seals, contact our Sales Dpt.

1 Pressure setting springs

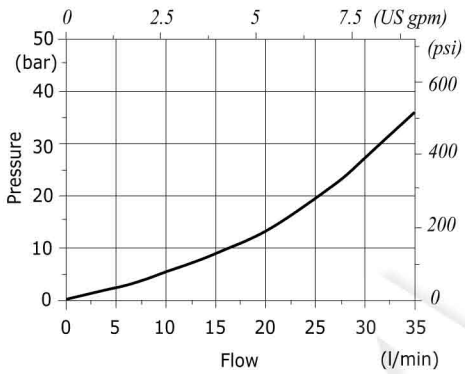
TYPE	CODE	DESCRIPTION
TV	3ML1164000	Setting range 5-110 bar *(72.5-1600 psi)*
TR	3ML1164001	Setting range 100-250 bar *(1450-3600 psi)*

Rating diagrams

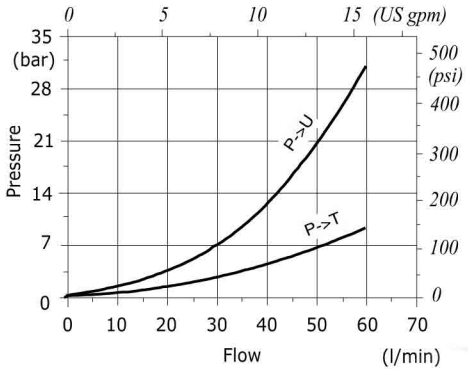
VDA 38 P→T pressure drop vs. flow



VDA 38 P→U pressure drop vs. flow



VDA 12 and VDA 12/DR pressure drop vs. flow



VDA 34 pressure drop vs. flow

