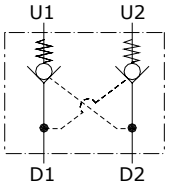
Type VBPDL/T
pilot operated check valves

- Double acting

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

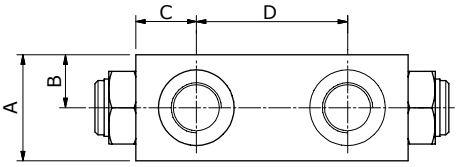
		VBPDL/T 38	VBPDL/T 12	VBPDL/T 34
Nominal flow		25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	100 l/min *(26.4 US gpm)*
Max. pressure		Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*		
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 bar *(3050 psi)*		
Fluid		mineral based 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*	0.63 kg *(1.39 lb)*	1.19 kg *(2.62 lb)*	2.46 kg *(5.42 lb)*
	steel	1.69 kg *(3.73 lb)*	2.13 kg *(4.70 lb)*	5.36 kg *(11.81 lb)*

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



Dimensions

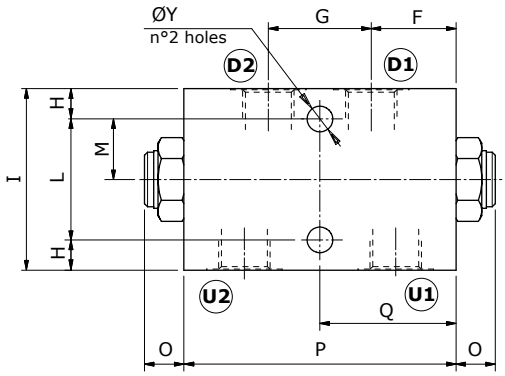
Valve type	All ports	Valve type	All ports
VBPDL/T 38	G3/8	**VBPDL/T 38/SAE**	SAE8
VBPDL/T 12	G1/2	**VBPDL/T 12/SAE**	SAE10
VBPDL/T 34	G3/4	**VBPDL/T 34/SAE**	SAE12



Dimensions are in mm-*in*

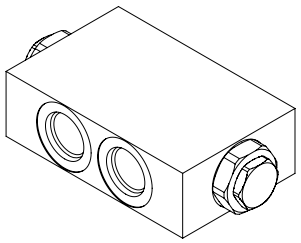
Valve type	A	B	C	D	F	G	ØY
VBPDL/T 38 **VBPDL/T 38/SAE**	35-*5.39*	17.5-*5.39*	20-*0.79*	50-*1.97*	28-*1.10*	34-*1.34*	8.5-*0.33*
VBPDL/T 12 **VBPDL/T 12/SAE**	35-*5.39*	17.5-*5.39*	21-*0.83*	68-*2.68*	38-*1.50*	34-*1.34*	8.5-*0.33*
VBPDL/T 34 **VBPDL/T 34/SAE**	50-*1.97*	25-*0.98*	30-*1.18*	105-*4.13*	57.5-*2.26*	50-*1.97*	8.5-*0.33*

Valve type	H	I	L	M	O	P	Q
VBPDL/T 38 **VBPDL/T 38/SAE**	10-*0.39*	60-*2.36*	40-*1.57*	20-*0.79*	14.5-*0.57*	90-*3.54*	45-*1.77*
VBPDL/T 12 **VBPDL/T 12/SAE**	15-*0.59*	70-*2.36*	40-*1.57*	20-*0.79*	13-*0.39*	110-*4.3*	55-*2.16*
VBPDL/T 34 **VBPDL/T 34/SAE**	15-*0.59*	90-*3.54*	60-*1.97*	30-*1.18*	16.5-*0.65*	165-*6.50*	82.5-*3.25*



Ordering codes and description composition

Port size
VBPDL/T 38/p4
Pilot ratio



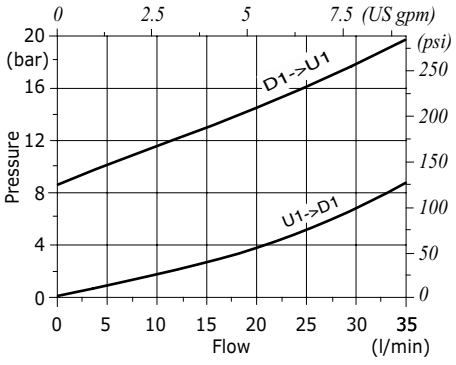
VBPDL/T complete valves

TYPE	CODE	DESCRIPTION
VBPDL/T 38/p4	1422021100	Aluminium body, pilot ratio 1:4, G3/8 ports
VBPDL/T 38/p4/ac	1422022100	Steel body, as previous one
VBPDL/T 12/p4	1422031100	Aluminium body, pilot ratio 1:4, G1/2 ports
VBPDL/T 12/p4/ac	1422032100	Steel body, as previous one
VBPDL/T 34/p4	1422041100	Aluminium body, pilot ratio 1:4, G3/4 ports
VBPDL/T 34/p4/ac	1422042100	Steel body, as previous one
VBPDL/T 38/p4/SAE	1422021200	Aluminium body, pilot ratio 1:4, SAE8 ports
VBPDL/T 38/p4/ac/SAE	1422022200	Steel body, as previous one
VBPDL/T 12/p4/SAE	1422031200	Aluminium body, pilot ratio 1:4, SAE10 ports
VBPDL/T 34/p4/SAE	1422041200	Aluminium body, pilot ratio 1:4, SAE12 ports

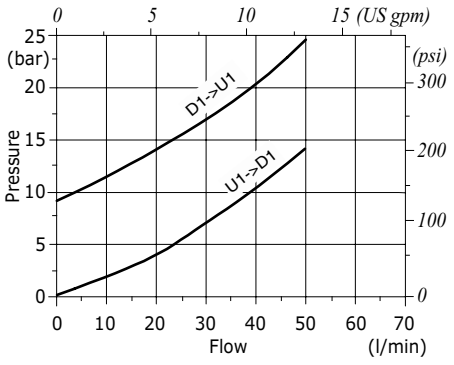
For other steel body configurations, other port sizes and configurations with FPM (Viton) seals please contact our Sales Dpt.

Rating diagram

VBPDL/T 38 pressure drop vs. flow



VBPDL/T 12 pressure drop vs. flow



VBPDL/T 34 pressure drop vs. flow