Type VUPSL
pilot operated check valves

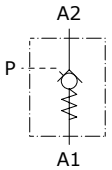
- Single acting

Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C *(122°F)* temperature.

	VUPSL 14 (1)	VUPSL 38	VUPSL 12	VUPSL 34	VUPSL 100
Nominal flow	25 l/min *(6.6 US gpm)*	40 l/min *(10.6 US gpm)*	60 l/min *(15.9 US gpm)*	90 l/min *(23.8 US gpm)*	130 l/min *(34.3 US gpm)*
Max. pressure	350 bar *(5100 psi)*	350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	260 bar *(3750 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 -28°C *(-18°F)* to 100°C *(212°F)*				
Environmental temp. for working conditions	from -40°C *(-40°F)* to 100°C *(212°F)*				
Weight *steel*	0.69 kg *(1.52 lb)*	0.93 kg *(2.05 lb)*	1.08 kg *(2.38 lb)*	2.316 kg *(5.10 lb)*	2.355 kg *(5.19 lb)*

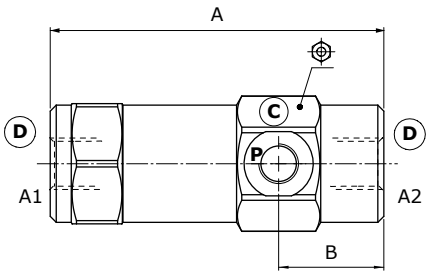
NOTE - For different conditions, please contact Walvoil Sales Dpt.

(1) VUPSL14 valve require the bonded seal cod. 440068 on port P.



Dimensions

Valve type	P	D
VUPSL 14	G1/4	G1/4
VUPSL 38	G1/4	G3/8
VUPSL 12	G1/4	G1/2
VUPSL 34	G1/4	G3/4
VUPSL 100	G1/4	G1



Dimensions are in mm-*in*

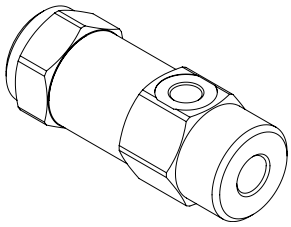
Valve type	A	B	
VUPSL 14	103-*4.05*	*32.5-1.28*	36
VUPSL 38	111-*4.37*	*35-1.38*	40
VUPSL 12	122-*4.8*	*38-1.5*	42
VUPSL 34	145.5-*5.73*	*44.5-1.75*	55
VUPSL 100	164-*6.46*	*44.5-1.75*	55

Ordering codes and description composition

Port size — Opening pressure

VUPSL 38/p6 /Pa1

Pilot ratio



VUPSL complete valves

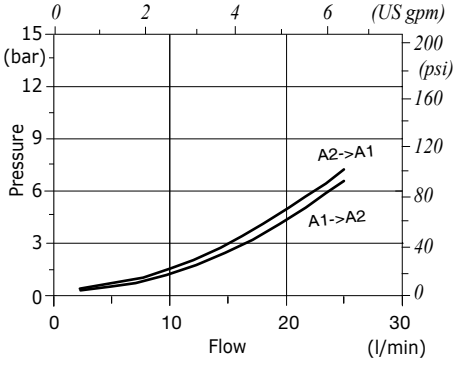
With steel body

TYPE	CODE	DESCRIPTION
VUPSL 14/p9,5/Pa1	1401010100	G1/4 port, pilot ratio 1:9.5
VUPSL 38/p6/Pa1	1401020100	G3/8 port, pilot ratio 1:6
VUPSL 12/p4,3/Pa1	1401030100	G1/2 port, pilot ratio 1:4.3
VUPSL 34/p4,4/Pa1	1401040100	G3/4 port, pilot ratio 1:4.4
VUPSL 100/p3,5/Pa1	1401050100	G1" port, pilot ratio 1:3.5

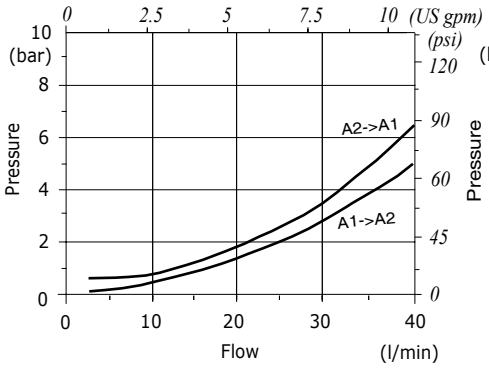
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

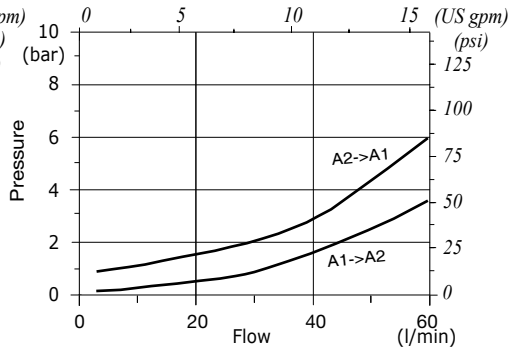
VUPSL 14 pressure drop vs. flow



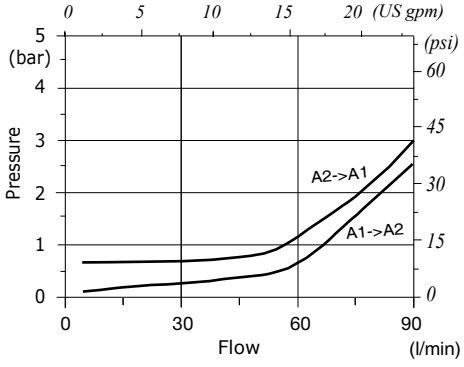
VUPSL 38 pressure drop vs. flow



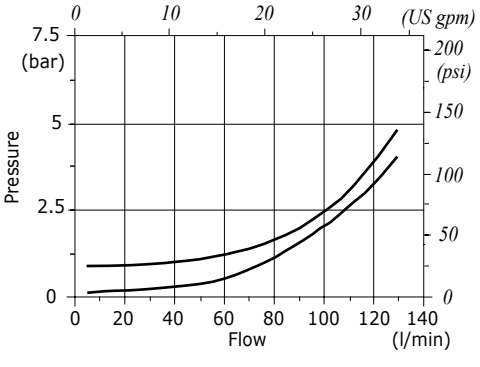
VUPSL 12 pressure drop vs. flow



VUPSL 34 pressure drop vs. flow



VUPSL 100 pressure drop vs. flow



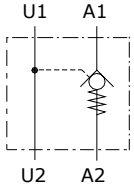
Type VBPSL
pilot operated check valves

- Single acting

Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C *(122°F)* temperature.

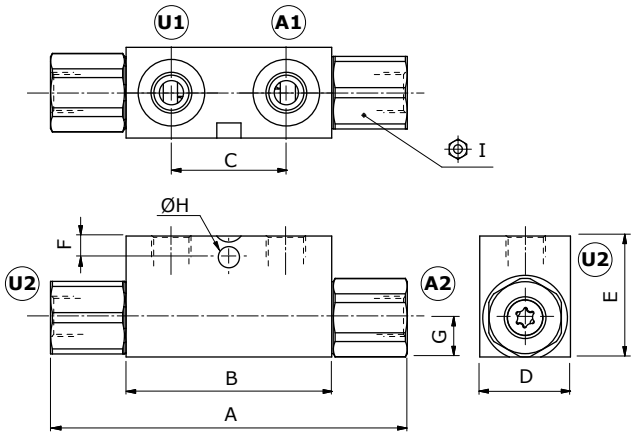
		VBPSL 14	VBPSL/VP 38	VBPSL 38	VBPSL/VP 12	VBPSL 12	VBPSL 34
Nominal flow		30 l/min *(7.9 US gpm)*	30 l/min *(7.9 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*	120 l/min *(31.7 US gpm)*
Max. pressure		350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 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		-40°C *(-40°F)* to 100°C *(212°F)*					
Weight	*steel*	0.68 kg *(1.50 lb)*	0.63 kg *(1.39 lb)*	0.97 kg *(2.14 lb)*	0.90 kg *(1.98 lb)*	1.69 kg *(3.72 lb)*	3.06 kg *(6.75 lb)*

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



Dimensions

Valve type	All ports
VBPSL 14	G1/4
VBPSL/VP 38	G3/8
VBPSL 38	G3/8
VBPSL/VP 12	G1/2
VBPSL 12	G1/2
VBPSL 34	G3/4



Dimensions are in mm-*in*

Valve type	A max.	B	C	D	E	F	G	ØH	⌖I
VBPSL 14	118-*4.64*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24
VBPSL/VP 38	118-*4.64*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24
VBPSL 38	144-*5.67*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27
VBPSL/VP 12	144-*5.67*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27
VBPSL 12	171-*6.73*	90-*3.54*	40-*1.57*	40-*1.57*	60-*2.36*	15-*0.59*	20-*0.79*	8.5-*0.33*	30
VBPSL 34	196 (1)-*7.72 (1)*	107-*4.21*	60-*2.36*	50-*1.97*	70-*2.75*	16-*0.63*	23-*0.90*	8.5-*0.33*	41

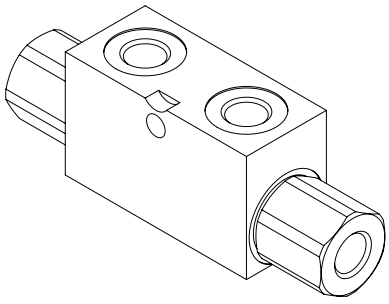
NOTE - (1) only for 04 SAE 208

Ordering codes and description composition

Port size — Opening pressure

VBPSL 14 / p4,5 / Pa4 / ac

Pilot ratio



VBPSL complete valves

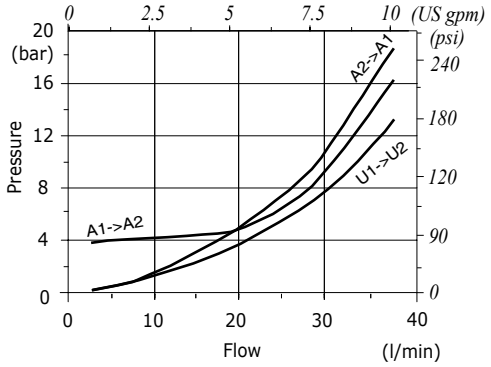
Steel body

TYPE	CODE	DESCRIPTION
VBPSL 14/p4,5/Pa4/ac	1410112100	G1/4 port, pilot ratio 1:4.5, opening press. 4 bar *(58 psi)*
VBPSL 38/p4/Pa4/ac	1410122100	G3/8 port, pilot ratio 1:4, opening press. 4 bar *(58 psi)*
VBPSL/VP 38/p4,5/Pa4/ac	1410122101	G3/8 port, pilot ratio 1:4.5, opening press. 4 bar *(58 psi)*
VBPSL 12/p4/Pa4/ac	1410132100	G1/2 port, pilot ratio 1:4, opening press. 4 bar *(58 psi)*
VBPSL/VP 12/p4/Pa4/ac	1410132101	G1/2 port , pilot ratio 1:4, opening press. 4 bar *(58 psi)*
VBPSL 34/p4/Pa4/ac	1410142100	G3/4 port, pilot ratio 1:4, opening press. 4 bar *(58 psi)*

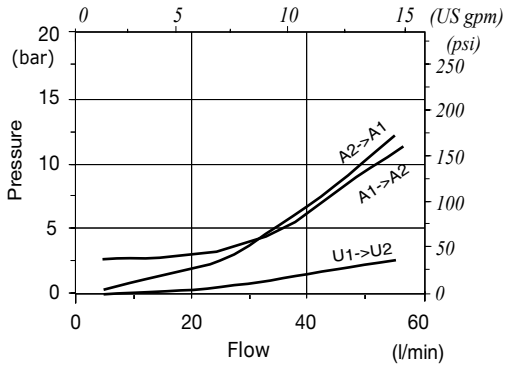
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

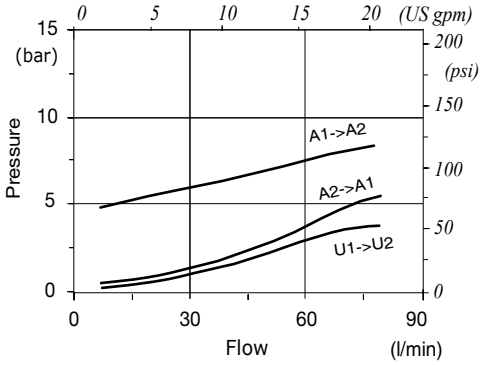
VBPSL 14 pressure drop vs. flow



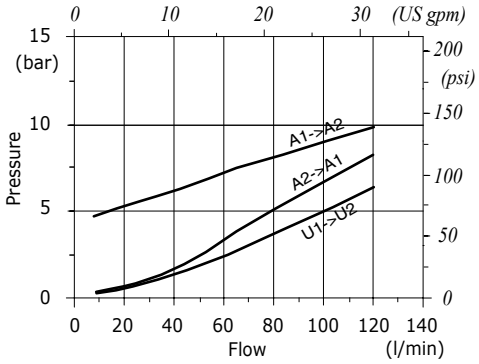
VBPSL 38 pressure drop vs. flow



VBPSL 12 pressure drop vs. flow



VBPSL 34 pressure drop vs. flow



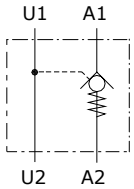
Type VRSE..A
pilot operated check valves

- Single acting
- DIN 2353

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

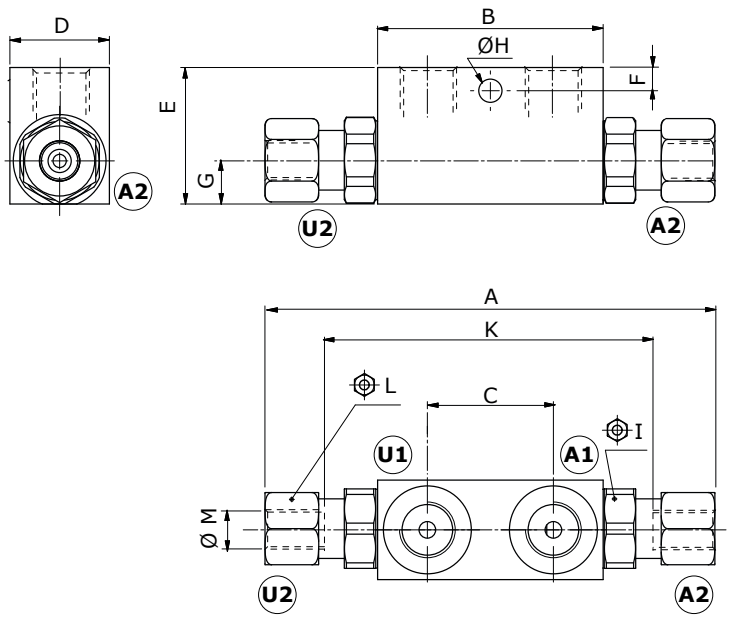
		VRSE01A	VRSE015A	VRSE02A	VRSE025A	VRSE03A
Nominal flow		30 l/min *(7.9 US gpm)*	30 l/min *(7.9 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*
Max. pressure		350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil 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	*steel*	0.67 kg *(1.48 lb)*	0.66 kg *(1.45 lb)*	0.97 kg *(2.14 lb)*	0.91 kg *(2.01 lb)*	1.67 kg *(3.68 lb)*

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



Dimensions

Valve type	A1-U1	A2-U2 (Ø M)
VRSE01A	G1/4	12-*0.47*
VRSE015A	G3/8	12-*0.47*
VRSE02A	G3/8	15-*0.59*
VRSE025A	G1/2	15-*0.59*
VRSE03A	G1/2	18-*0.71*



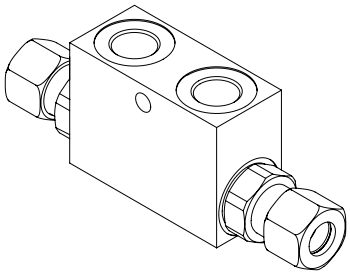
Dimensions are in mm-*in*

Valve type	A	B max.	C	D	E	F	G	ØH	⌖I	⌖L	K
VRSE01A	138-*5.43*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24	22	86-*3.38*
VRSE015A	138-*5.43*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24	22	86-*3.38*
VRSE02A	166-*6.53*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27	27	108-*4.25*
VRSE025A	166-*6.53*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27	27	108-*4.25*
VRSE03A	180-*7.09*	90-*3.54*	40-*1.57*	40-*1.57*	60-*2.36*	15-*0.59*	20-*0.79*	8.5-*0.33*	30	32	133-*5.24*

Ordering codes and description composition

Port size

VRSE 02 A



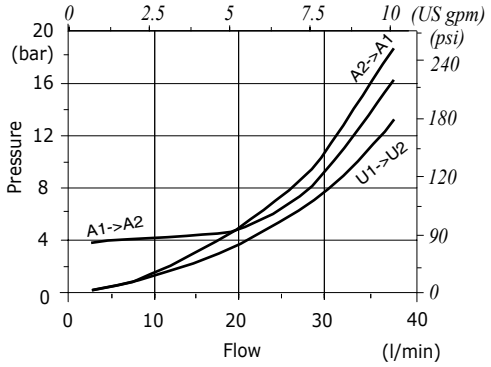
VRSE complete valves

TYPE	CODE	DESCRIPTION
VRSE01A	1410212100	Steel body, G1/4 port, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VRSE015A	1410222100	Steel body, G3/8 port, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VRSE02A	1410222101	Steel body, G3/8 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VRSE025A	1410232100	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VRSE03A	1410232101	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*

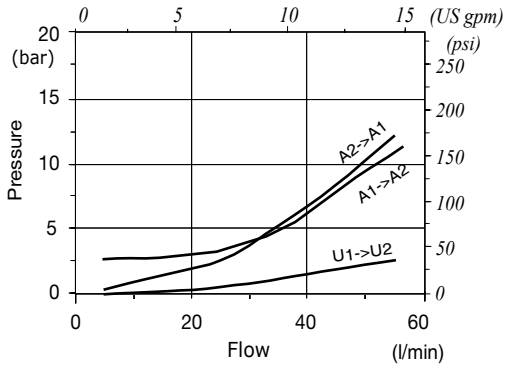
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

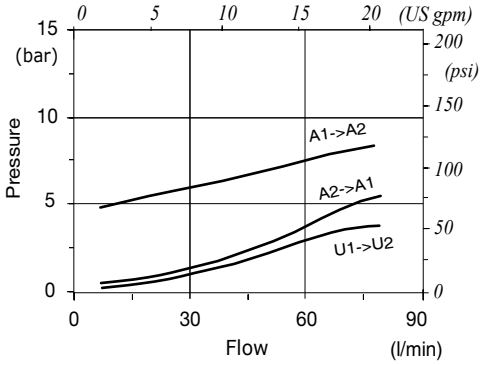
VRSE01A pressure drop vs. flow



VRSE02A pressure drop vs. flow



VRSE03A pressure drop vs. flow



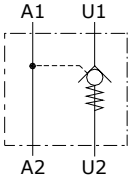
Type VRSE..CIL
pilot operated check valves

- Single acting
- Bolt connection

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

		VRSE01CIL	VRSE02CIL
Nominal flow		20 l/min *(5.3 US gpm)*	
Max. pressure		300 bar *(4350 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 temperature for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*	
Weight	*steel*	0.45 kg *(0.99 lb)*	0.65 kg *(1.43 lb)*

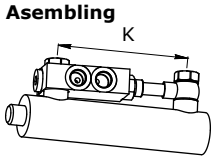
NOTE - For different conditions, please contact Walvoil Sales Dpt.



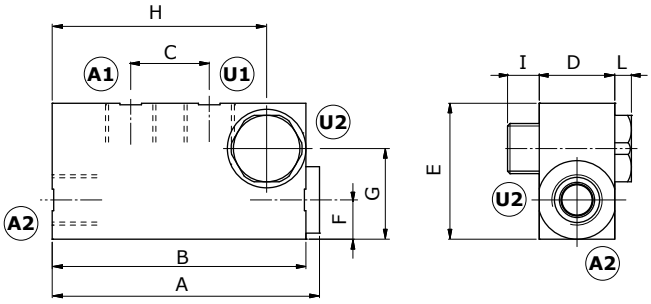
Dimensions

Valve type	All ports
VRSE01CIL	G1/4
VRSE01CIL	G3/8

Asembling



VRSE CIL valve



Dimensions are in mm-*in*

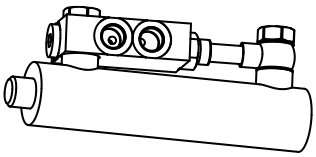
Valve type	A	B	C	D	E	F	G	H	I	L	K min
VRSE01CIL	88.5-*3.48*	84-*3.31*	24-*0.94*	20-*0.79*	40-*1.57*	10-*0.39*	27-*1.06*	68.5-*2.7*	10-*0.39*	6-*0.23*	123-*4.84*
VRSE01CIL	90.5-*3.56*	86-*3.38*	29-*1.14*	25-*0.98*	45-*1.77*	12-*0.47*	31-*1.22*	72-*2.83*	11-*0.43*	7-*0.27*	127-*5*

Ordering codes and description composition

Port size

VRSE 02 CIL

- without mounting hole
FF with mounting hole



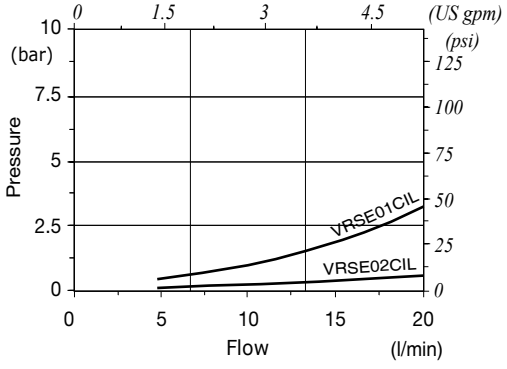
Complete valves

TYPE	CODE	DESCRIPTION
VRSE01CIL	1410312100	Steel body, G1/4 port configuration, opening pressure 1 bar *(14,5 psi)*, pilot ratio 1:4.9
VRSE02CIL	1410322100	Steel body, G3/8 port configuration, opening pressure 1 bar *(14,5 psi)*, pilot ratio 1:4.9

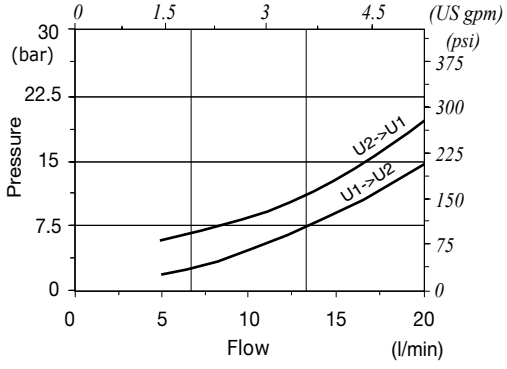
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagram

VRSE01CIL and VRSE02CIL
pressure drop vs. flow A1→A2



VRSE01CIL and VRSE02CIL
pressure drop vs. flow U1→U2 / U2→U1



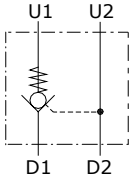
Type VBPSL/T
pilot operated check valves

- Single acting

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

		VBPSL/T 38	VBPSL/T 12	VBPSL/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 cm³/min *(0.015 in³/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*	0.48 kg *(1.06 lb)*	0.75 kg *(1.65 lb)*	1.79 kg *(3.95 lb)*
	steel	1.16 kg *(2.56 lb)*	1.63 kg *(3.59 lb)*	4.19 kg *(9.24 lb)*

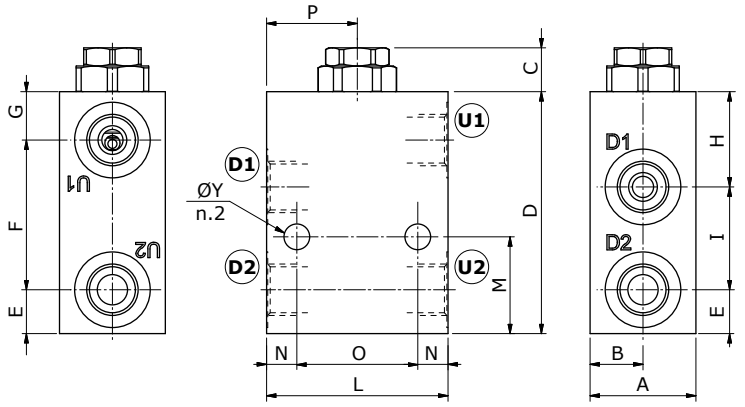
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Valve type	All ports
VBPSL/T 38	G3/8
VBPSL/T 12	G1/2
VBPSL/T 34	G3/4

Valve type	All ports
VBPSL/T 12/SAE	SAE10
VBPSL/T 34/SAE	SAE12



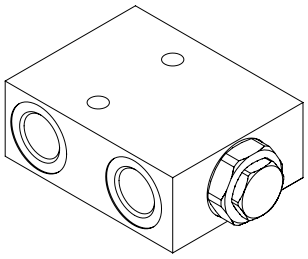
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	N	O	P	ØY
VBPSL/T 38	35 *1.38*	17.5 *0.69*	14.5 *0.57*	80 *3.15*	14.5 *0.57*	49.5 *1.95*	16 *0.63*	31.5 *1.24*	34 *1.34*	60 *2.36*	32 *1.26*	10 *0.39*	40 *1.57*	20 *0.79*	8.5 *0.33*
VBPSL/T 12 **VBPSL/T 12/SAE**	35 *1.38*	17.5 *0.69*	13 *0.51*	90 *3.54*	18 *0.71*	51 *2.01*	21 *0.83*	38 *1.50*	34 *1.34*	70 *2.75*	35 *1.38*	15 *0.59*	40 *1.57*	20 *0.79*	8.5 *0.33*
VBPSL/T 34 **VBPSL/T 34/SAE**	50 *1.97*	25 *0.98*	16.5 *0.65*	135 *5.31*	22 *0.87*	83 *3.27*	30 *1.18*	57.5 *2.26*	55.5 *2.18*	90 *3.54*	55 *2.16*	20 *0.79*	50 *1.97*	25 *0.98*	10.5 *0.41*

Ordering codes and description composition

Port size — Pilot ratio

VBPSL/T 38/p4



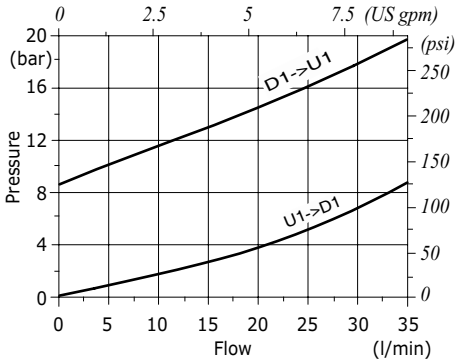
VBPSL/T complete valves

TYPE	CODE	DESCRIPTION
VBPSL/T 38/p4	1412021100	Aluminium body, pilot ratio 1:4, G3/8 ports
VBPSL/T 38/p4/ac	1412022100	Steel body, as previous one
VBPSL/T 12/p4	1412031102	Aluminium body, pilotxratio 1:4 G1/2 ports
VBPSL/T 12/p4/ac	1412032101	Steel body, as previous one
VBPSL/T 34/p4	1412041100	Aluminium body, pilot ratio 1:4 G3/4 ports
VBPSL/T 34/p4/ac	1412042101	Steel body, as previous one
VBPSL/T 12/p4/SAE	1412031201	Aluminium body, pilot ratio 1:4 SAE10 ports
VBPSL/T 34/p4/SAE	1412042200	Aluminium body, pilot ratio 1:4 SAE12 ports

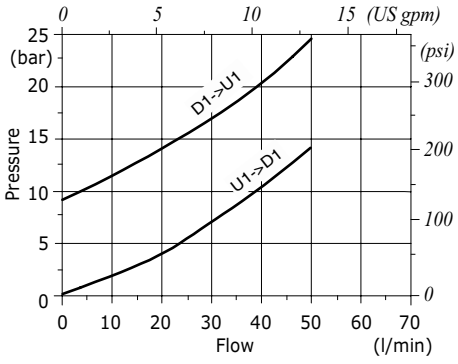
For other steel body configurations, other port sizes, SAE thread and configurations with FPM (Viton) seals, please contact our Sales Dpt.

Rating diagram

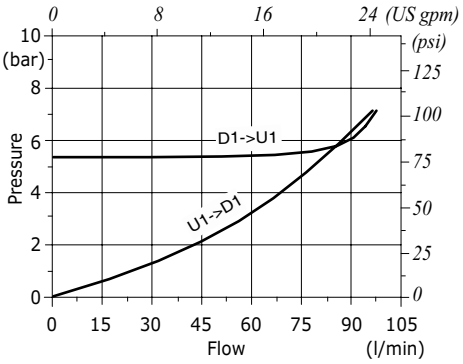
VBPSL/T 38 pressure drop vs. flow



VBPSL/T 12 pressure drop vs. flow



VBPSL/T 34 pressure drop vs. flow



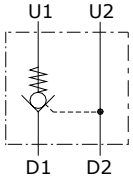
Type VBPSF
pilot operated check valves

- Single acting
- Face mounting

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

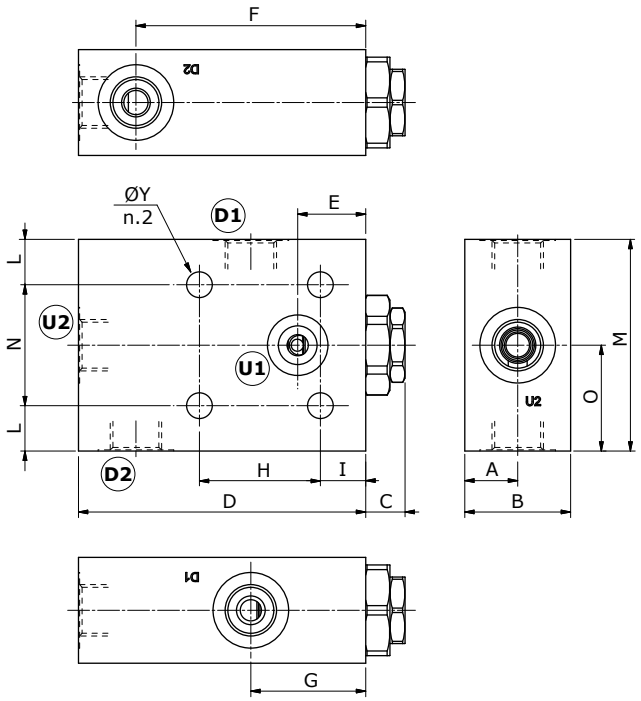
		VBPSF 14	VBPSF 38	VBPSF 12	VBPSF 34
Nominal flow		15 l/min *(4.0 US gpm)*	35 l/min *(9.2 US gpm)*	50 l/min *(13.2 US gpm)*	100 l/min *(26.4 US gpm)*
Max. pressure		Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*			
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 bar *(3050 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*	0.34 kg *(0.75 lb)*	0.81 kg *(1.79 lb)*	0.73 kg *(1.61 lb)*	1.67 kg *(3.68 lb)*
	steel		1.71 kg *(3.77 lb)*	1.65 kg *(3.63 lb)*	3.84 kg *(8.47 lb)*

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



Dimension

Valve type	All ports
VBPSF 14	G1/4
VBPSF 38	G3/8
VBPSF 12	G1/2
VBPSF 34	G3/4

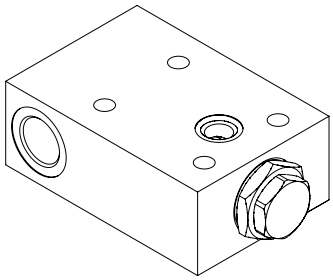


Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	N	O	ØY
VBPSF 14	15 *0.59*	30 *1.18*	14.5 *0.57*	70 *2.75*	17.5 *0.69*	67 *2.64*	30 *1.18*	35 *1.38*	8.5 *0.33*	7.5 *0.29*	50 *1.97*	35 *1.38*	25 *0.98*	6.5 *0.25*
VBPSF 38	17.5 *0.69*	35 *1.38*	13 *0.51*	95 *3.74*	22.5 *0.88*	76 *2.99*	38 *1.50*	40 *1.57*	15 *0.59*	15 *0.59*	70 *2.75*	40 *1.57*	35 *1.38*	8.5 *0.33*
VBPSF 12	17.5 *0.69*	35 *1.38*	13 *0.51*	95 *3.74*	22.5 *0.88*	76 *2.99*	38 *1.50*	40 *1.57*	15 *0.59*	15 *0.59*	70 *2.75*	40 *1.57*	35 *1.38*	8.5 *0.33*
VBPSF 34	24.5 *0.96*	49 *1.93*	16.5 *0.65*	130 *5.12*	30 *1.18*	107.5 *4.23*	58 *2.28*	67.5 *2.66*	15 *0.59*	19.5 *0.77*	89 *3.51*	50 *1.97*	44.5 *1.75*	10.5 *0.41*

Ordering codes and description composition

Port size
VBPSF 14/p4
Pilot ratio



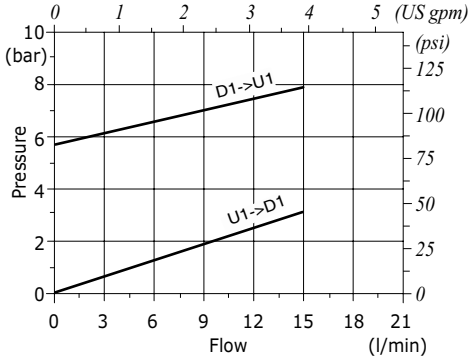
VBPSF complete valves

TYPE	CODE	DESCRIPTION
VBPSF 14/p4	1416011100	Aluminium body, pilot ratio 1:4, G1/4 ports
VBPSF 38/p4	1416021105	Aluminium body, pilot ratio 1:4, G3/8 ports
VBPSF 38/p4/ac	1416022104	Steel body, as previous one
VBPSF 12/p4	1416031102	Aluminium body, pilot ratio 1:4, G1/2 ports
VBPSF 12/p4/ac	1416032104	Steel body, as previous one
VBPSF 34/p4	1416041100	Aluminium body, pilot ratio 1:4, G3/4 ports
VBPSF 34/p4/ac	1416042100	Steel body, as previous one

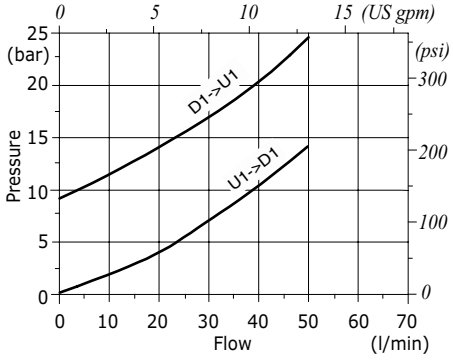
For other steel body configurations, SAE thread and configurations with FPM (Viton) seals, please contact our Sales Dpt.

Rating diagrams

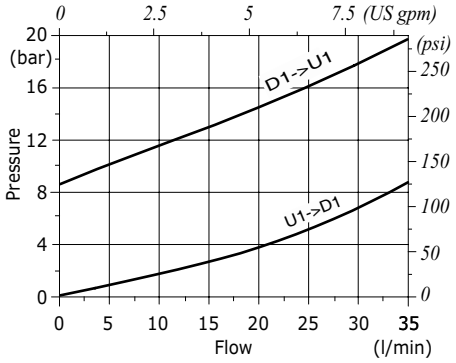
VBPSF 14 pressure drop vs. flow



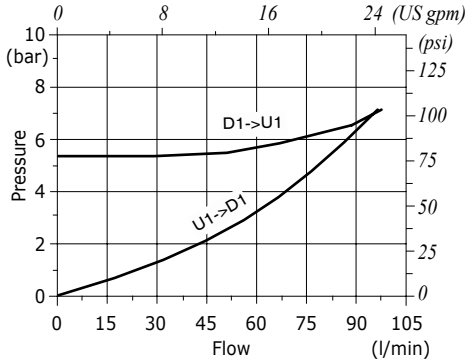
VBPSF 12 pressure drop vs. flow



VBPSF 38 pressure drop vs. flow



VBPSF 34 pressure drop vs. flow



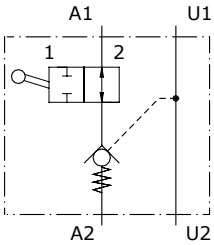
Type VBPSL/R
pilot operated check valves

- Single acting
- Shut-off

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

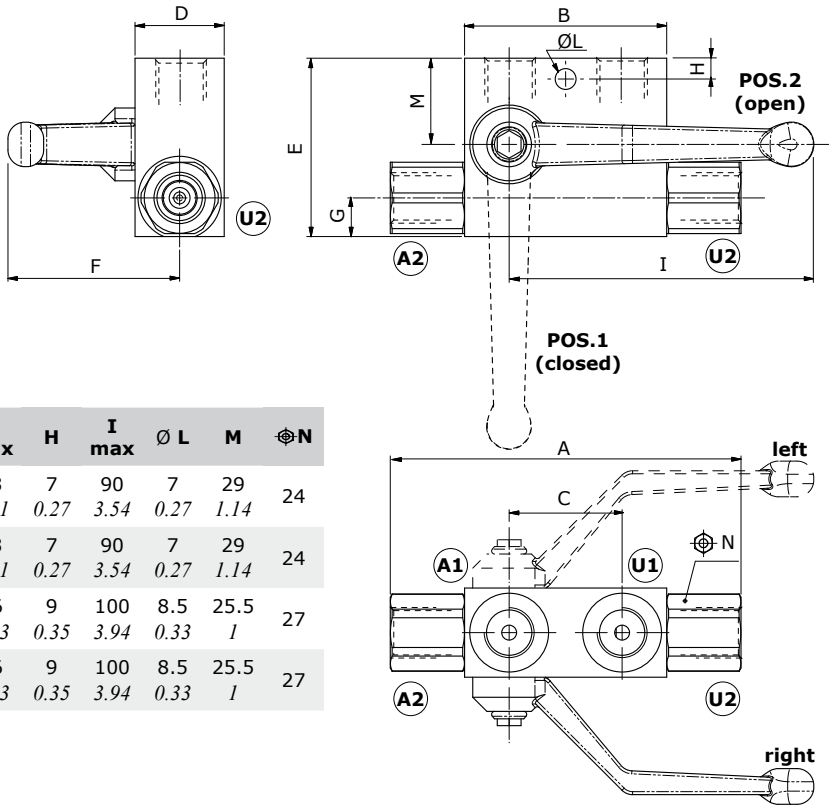
	VBPSL/R..14	VBPSL/VP/R..38	VBPSL/R..38	VBPSL/VP/R..12
Nominal flow	25 l/min *(6.6 US gpm)*	25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*
Max. pressure	350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage	0.25 cm^3/min *(0.015 in^3/min)* 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 *steel*	0.95 kg *(2.09 lb)*	0.95 kg *(2.09 lb)*	1.12 kg *(2.47 lb)*	1.12 kg *(2.47 lb)*

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



Dimension

Valve type	All ports
VBPSL/R..14	G1/4
VBPSL/VP/R..38	G3/8
VBPSL/R..38	G3/8
VBPSL/VP/R..12	G1/2



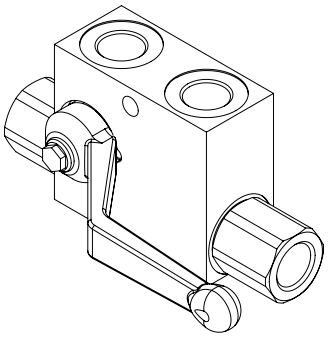
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	N
VBPSL/R..14	118 *4.64*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24
VBPSL/VP/R..38	118 *4.64*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24
VBPSL/R..38	143 *5.63*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27
VBPSL/VP/R..12	143 *5.63*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27

Ordering codes and description composition

D - right
S - left
Port size

VBPSL/R D 14



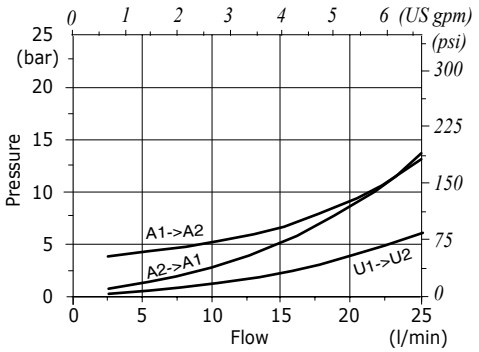
VBPSLR complete valves

TYPE	CODE	DESCRIPTION
VBPSL/R/S 14/p4,5/Pa4/ac	1415312100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G1/4 ports, left lever
VBPSL/R/D 14/p4,5/Pa4/ac	1415312101	As prevoius with right lever
VBPSL/R/S 38/p4/Pa4/ac	1415322100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, left lever
VBPSL/R/D 38/p4/Pa4/ac	1415322101	As prevoius with right lever
VBPSL/VP/R/S 38/p4,5/Pa4/ac	1415322102	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G3/8 ports, left lever
VBPSL/VP/R/D 38/p4,5/Pa4/ac	1415322103	As prevoius with right lever
VBPSL/VP/R/S 12/p4/Pa4/ac	1415332100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, left lever
VBPSL/VP/R/D 12/p4/Pa4/ac	1415332101	As prevoius with right lever

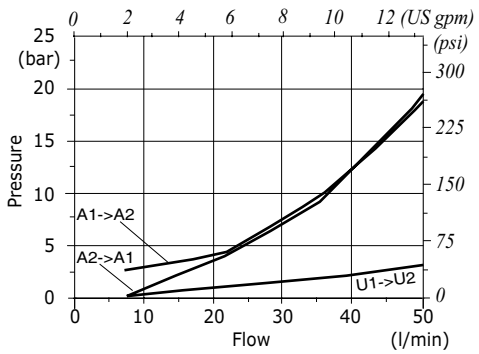
For different configurations or SAE threads please contact our Sales Dpt.

Rating diagram

VBPSL/R..14 pressure drop vs. flow



VBPSL/R..38 pressure drop vs. flow



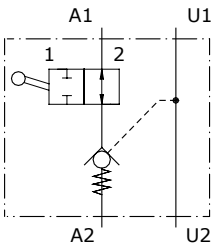
Type VRPSE..A..
pilot operated check valves

- Single acting
- Shut-off
- DIN 2353

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

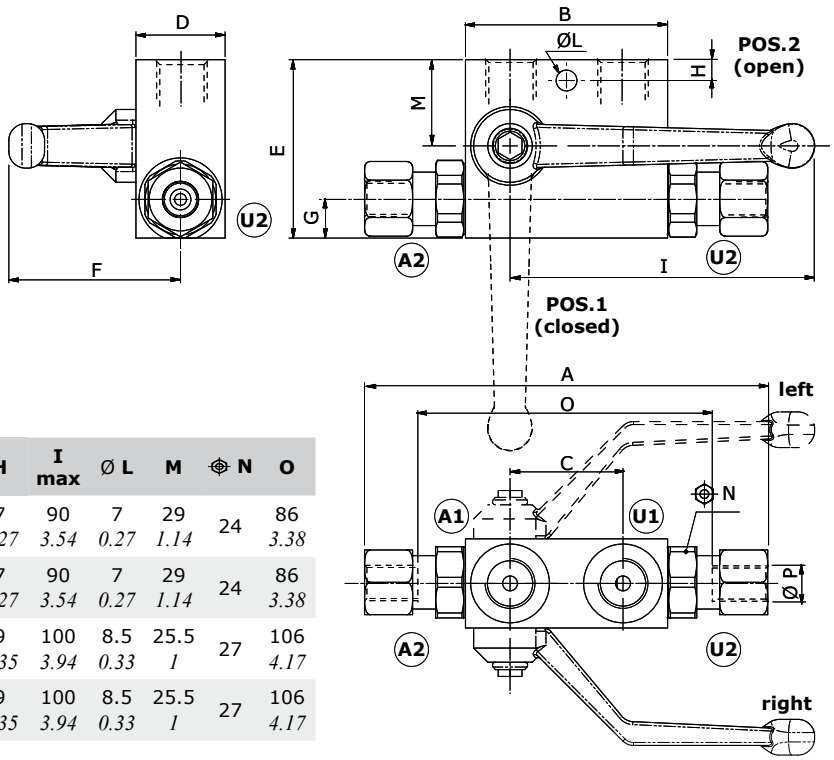
	VRPSE01A..	VRPSE015A..	VRPSE02A..	VRPSE025A..
Nominal flow	25 l/min *(6.6 US gpm)*	25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*
Max. pressure	350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage	0.25 cm^3/min *(0.015 in^3/min)* at 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 *steel*	0.95 kg *(2.09 lb)*	0.95 kg *(2.09 lb)*	1.12 kg *(2.47 lb)*	1.12 kg *(2.47 lb)*

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



Dimension

Valve type	A1-U1	A2-U2 (Ø P)
VRPSE01A..	G1/4	12 *0.27*
VRPSE015A..	G3/8	12 *0.27*
VRPSE02A..	G3/8	15 *0.59*
VRPSE025A..	G1/2	15 *0.59*



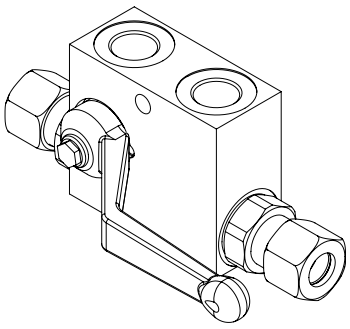
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	⌖ N	O
VRPSE01A..	138 *5.43*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24	86 *3.38*
VRPSE015A..	138 *5.43*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24	86 *3.38*
VRPSE02A..	140 *5.51*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27	106 *4.17*
VRPSE025A..	140 *5.51*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27	106 *4.17*

Ordering codes and description composition

Port size — **R** - right / **L** - left

VRPSE 01 A R



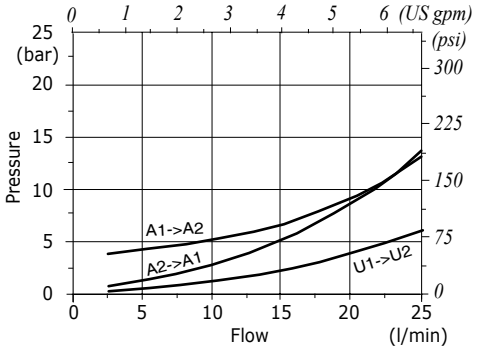
VRPSE complete valves

TYPE	CODE	DESCRIPTION
VRPSE01AL	1415412100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G1/4 ports, left lever
VRPSE01AR	1415412101	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G1/4 ports, right lever
VRPSE02AL	1415422100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, left lever
VRPSE02AR	1415422101	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, right lever
VRPSE015AL	1415422102	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G3/8 ports, left lever
VRPSE015AR	1415422103	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4.5, G3/8 ports, right lever
VRPSE025AL	1415432100	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, left lever
VRPSE025AR	1415432101	Steel body, opening pressure 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, right lever

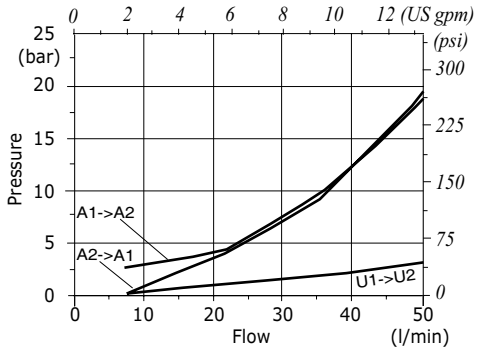
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagram

VBPSE01A pressure drop vs. flow



VRPSE02A pressure drop vs. flow



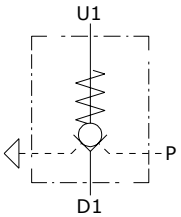
Type VBPSL/PS
pilot operated check valves

- External pilot operated type

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

		VBPSL/PS 38	VBPSL/PS 12
Nominal flow		25 l/min *(6.6 US gpm)*	35 l/min *(9.2 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 temperature for working conditions		from -40°C *(-40°F)* to 100°C *(212°F)*	
Weight	*aluminium*	0.53 kg *(1.17 lb)*	0.65 kg *(1.43 lb)*
	steel	1.07 kg *(2.36 lb)*	1.22 kg *(2.69 lb)*

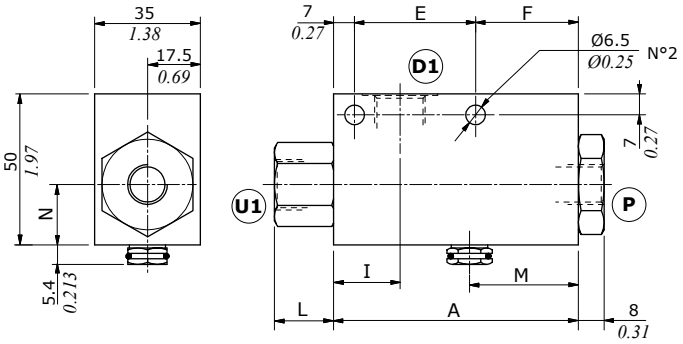
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Valve type	U1 - D1	P
VBPSL/PS 38	G3/8	G1/4
VBPSL/PS 12	G1/2	G1/4

Valve type	U1 - D1	P
VBPSL/PS 38/SAE	SAE8	SAE6
VBPSL/PS 12/SAE	SAE10	SAE6

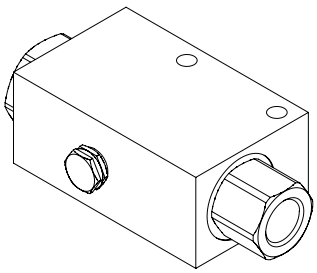


Dimensions are in mm-*in*

Valve type	A	E	F	I	L	M	N
VBPSL/PS 38 VBPSL/PS 38/SAE	81-*3.19*	40-*1.57*	34-*1.34*	22-*0.87*	19.5-*0.77*	36-*1.42*	20-*0.79*
VBPSL/PS 12 VBPSL/PS 12/SAE	90-*3.54*	50-*1.97*	33-*1.30*	32-*1.26*	33-*1.30*	35-*1.38*	30-*1.18*

Ordering codes and description composition

Port size
VBPSL/PS 38/p10
Pilot ratio



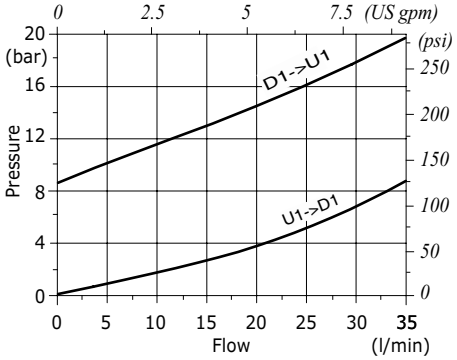
VBPSL/PS complete valves

TYPE	CODE	DESCRIPTION
VBPSL/PS 38/p10	1413021100	Aluminium body, pilot ratio 1:10, G3/8 ports
VBPSL/PS 38/p10/ac	1413022100	Steel body, as previous one
VBPSL/PS 12/p6	1413031100	Aluminium body, pilot ratio 1:6, G1/2 ports
VBPSL/PS 12/p6/ac	1413032100	Steel body, as previous one
VBPSL/PS 38/p10/SAE	1413021200	Aluminium body, pilot ratio 1:10, SAE8 ports
VBPSL/PS 12/p6/SAE	1413031200	Aluminium body, pilot ratio 1:6, SAE10 ports

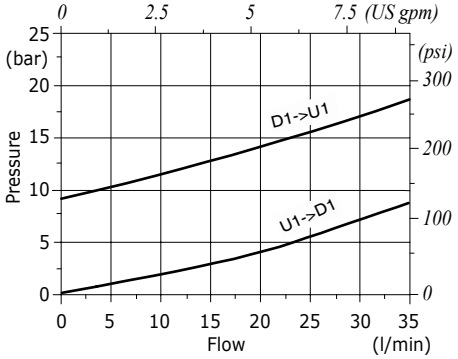
For other steel body configurations, SAE thread and configurations with FPM (Viton) seals, please contact our Sales Dpt.

Rating diagram

VBPSL/PS 38 pressure drop vs. flow



VBPSL/PS 12 pressure drop vs. flow



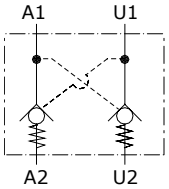
Type VBPDL
pilot operated check valves

- Double acting

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

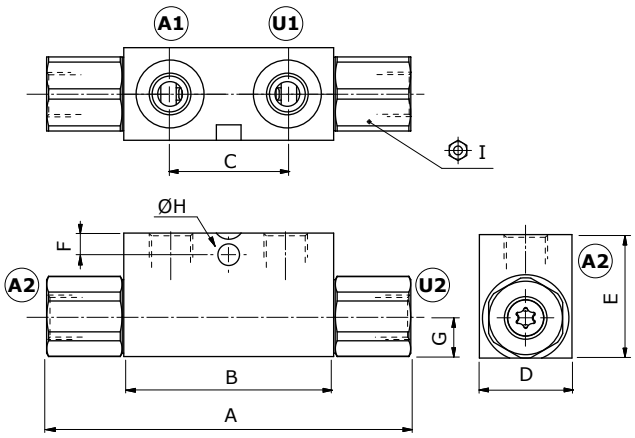
		VBPDL 14	VBPDL VP 38	VBPDL 38	VBPDL VP 12	VBPDL 12	VBPDL 34
Nominal flow		30 l/min *(7.9 US gpm)*	30 l/min *(7.9 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*	120 l/min *(31.7 US gpm)*
Max. pressure		350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 bar *(3050 psi)*					
Fluid		mineral based oil					
Viscosity		10-200 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	*Steel*	0.68 kg *(1.5 lb)*	0.63 kg *(1.39 lb)*	0.97 kg *(2.14 lb)*	0.9 kg *(1.98 lb)*	1.69 kg *(3.72 lb)*	3.06 kg *(6.75 lb)*

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



Dimensions

Valve type	All ports
VBPDL 14	G1/4
VBPDL VP 38	G3/8
VBPDL 38	G3/8
VBPDL VP 12	G1/2
VBPDL 12	G1/2
VBPDL 34	G3/4



Dimensions are in mm-*in*

Valve type	A max.	B	C	D	E	F	G	ØH	⌖I
VBPDL 14	118-*4.64*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24
VBPDL VP 38	118-*4.64*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24
VBPDL 38	144-*5.67*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27
VBPDL VP 12	144-*5.67*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27
VBPDL 12	171-*6.73*	90-*3.54*	40-*1.57*	40-*1.57*	60-*2.36*	15-*0.59*	20-*0.79*	8.5-*0.33*	30
VBPDL 34	196 (1)-*7.72 (1)*	107-*4.21*	60-*2.36*	50-*1.97*	70-*2.75*	16-*0.63*	23-*0.90*	8.5-*0.33*	41

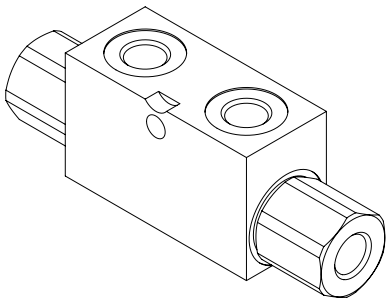
NOTE - (1) Only for 04 SAE 208

Ordering codes and description composition

Port size — Opening pressure

VBPDL 14 / p4,5 / Pa4 / ac

Pilot ratio



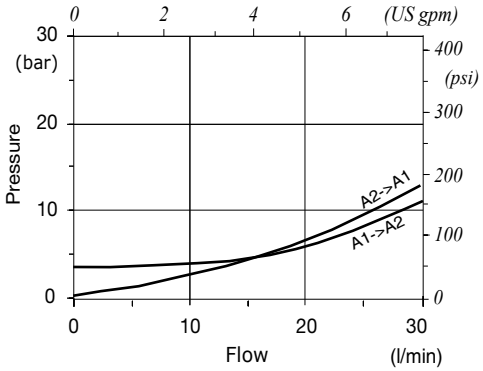
VBPDL Complete valves

TYPE	CODE	DESCRIPTION
VBPDL 14/p4,5/Pa4/ac	1420112100	Steel body, G1/4 port configuration, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VBPDL 38/p4/Pa4/ac	1420122100	Steel body, G3/8 port configuration, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VBPDL VP 38/p4/Pa4/ac	1420122101	Steel body, G3/8 port configuration, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VBPDL 12/p4/Pa4/ac	1420132100	Steel body, G1/2 port configuration, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VBPDL VP 12/p4/Pa4/ac	1420132101	Steel body, G1/2 port configuration, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VBPDL 34/p4/Pa4/ac	1420142100	Steel body, G3/4 port configuration, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*

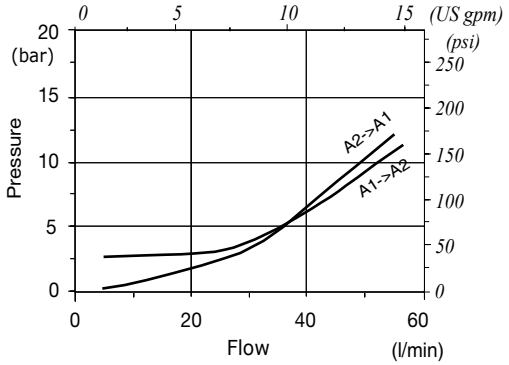
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

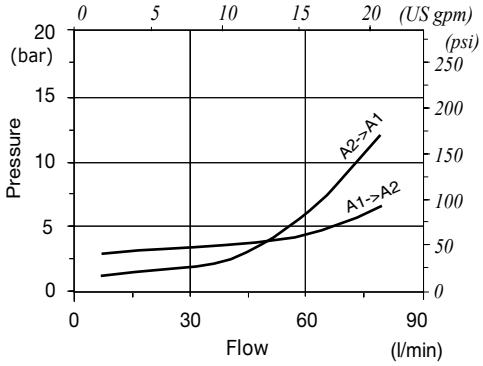
VBPDL 14 pressure drop vs. flow



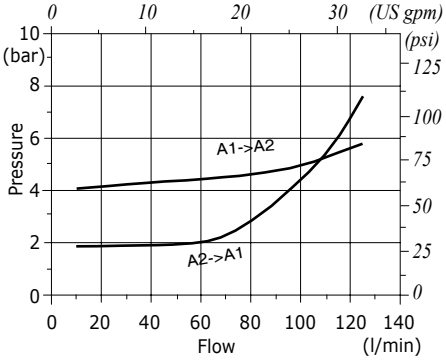
VBPDL 38 pressure drop vs. flow



VBPDL 12 pressure drop vs. flow



VBPDL 34 pressure drop vs. flow



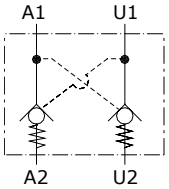
Type VRDE..A
pilot operated check valves

- Double acting
- DIN 2353

Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C *(122°F)* temperature.

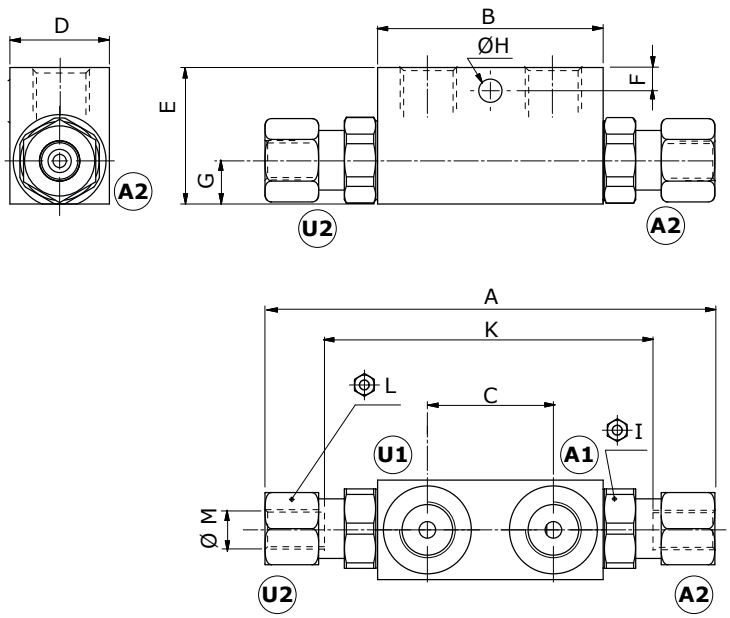
		VRDE01A	VRDE015A	VRDE02A	VRDE025A	VRDE03A
Nominal flow		30 l/min *(7.92 US gpm)*	30 l/min *(7.92 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*
Max. pressure		350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 bar *(3050 psi)*				
Fluid		mineral based oil				
Viscosity		10-200 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		-40°C *(-40°F)* to 100°C *(212°F)*				
Weight	*steel*	0.67 kg *(1.48 lb)*	0.66 kg *(1.45 lb)*	0.97 kg *(2.14 lb)*	0.91 kg *(2.01 lb)*	1.67 kg *(3.68 lb)*

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



Dimension

Valve type	A1-U1	A2-U2 (Ø M)
VRDE01A	G1/4	12-*0.47*
VRDE015A	G3/8	12-*0.47*
VRDE02A	G3/8	15-*0.59*
VRDE025A	G1/2	15-*0.59*
VRDE03A	G1/2	18-*0.71*



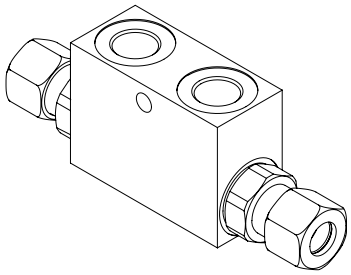
Dimensions are in mm-*in*

Valve type	A	B max.	C	D	E	F	G	ØH	I	L	K
VRDE01A	138-*5.43*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24	22	86-*3.38*
VRDE 015A	138-*5.43*	68-*2.68*	38-*1.50*	30-*1.18*	40-*1.57*	7-*0.27*	13-*0.51*	8-*0.31*	24	22	86-*3.38*
VRDE02A	166-*6.53*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27	27	108-*4.25*
VRDE025A	166-*6.53*	80-*3.15*	40-*1.57*	30-*1.18*	50-*1.97*	15-*0.59*	16-*0.63*	8.5-*0.33*	27	27	108-*4.25*
VRDE03A	180-*7.09*	90-*3.54*	40-*1.57*	40-*1.57*	60-*2.36*	15-*0.59*	20-*0.79*	8.5-*0.33*	30	32	133-*5.24*

Ordering codes and description composition

Port size

VRDE 02 A



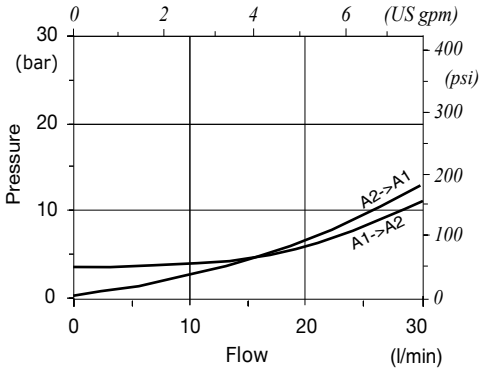
VRDE A complete valves

TYPE	CODE	DESCRIPTION
VRDE01A	1420212100	Steel body, G1/4 port, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VRDE015A	1420222100	Steel body, G3/8 port, pilot ratio 1:4.5, opening pressure 4 bar *(58 psi)*
VRDE02A	1420222101	Steel body, G3/8 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VRDE025A	1420232100	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*
VRDE03A	1420232101	Steel body, G1/2 port, pilot ratio 1:4, opening pressure 4 bar *(58 psi)*

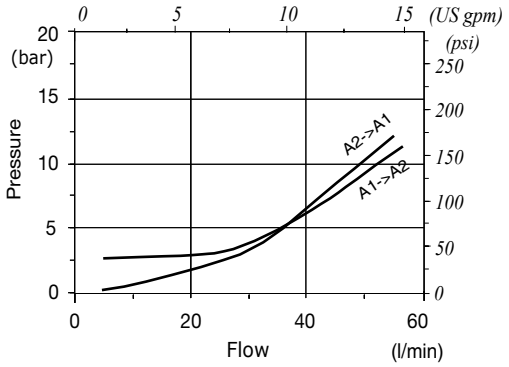
For different configurations or SAE threads please contact our Sales Dpt.

Rating diagrams

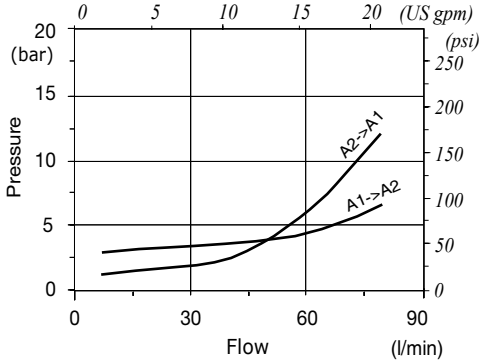
VRDE01A pressure drop vs. flow



VRDE02A pressure drop vs. flow



VRDE03A pressure drop vs. flow



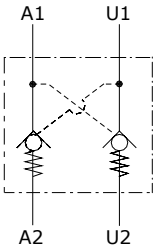
Type VRDE..CIL
pilot operated check valves

- Double acting
- With bolt connection

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

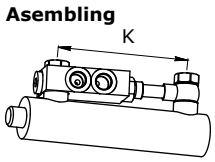
		VRDE01CIL	VRDE02CIL
Nominal flow		20 l/min *(5.3 US gpm)*	
Max. pressure		300 bar *(4350 psi)*	
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 bar *(3050 psi)*	
Fluid		mineral based oil	
Viscosity		from 10 to 200 cSt	
Max. level of contamination		18/16/13 ISO4406	
Fluid temperature		*with NBR seals* 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	*Steel*	0.45 kg *(0.99 lb)*	0.65 kg *(1.43 lb)*

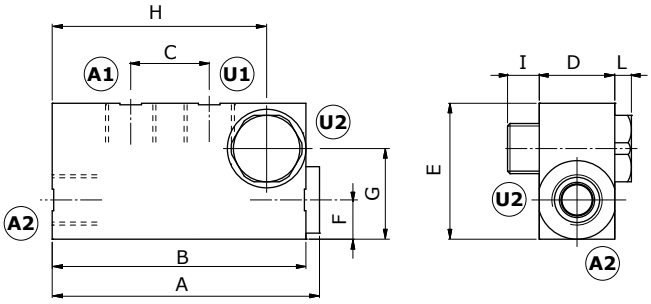
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Valve type	All ports
VRDE01CIL	G1/4
VRDE02CIL	G3/8





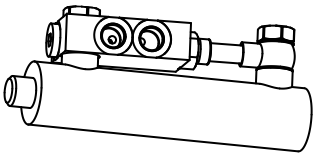
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	K min
VRDE01CIL	88.5-*3.48*	84-*3.31*	24-*0.94*	20-*0.79*	40-*1.57*	10-*0.39*	27-*1.06*	68.5-*2.7*	10-*0.39*	6-*0.23*	123-*4.84*
VRDE02CIL	90.5-*3.56*	86-*3.38*	26-1.02	25-*0.98*	45-*1.77*	12-*0.47*	31-*1.22*	72-*2.83*	11-*0.43*	*7-0.27*	127-*5*

Ordering codes and description composition

Port size

VRDE 02 CIL



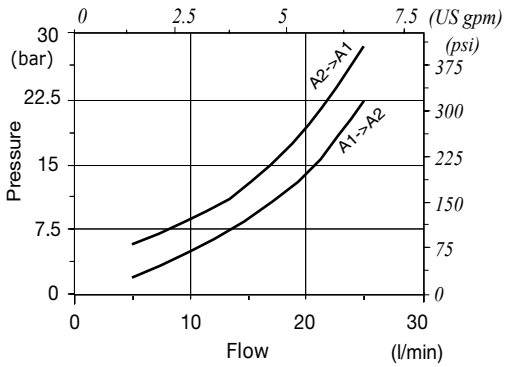
VRDECIL complete valves

TYPE	CODE	DESCRIPTION
VRDE01CIL	1420312100	Steel body, G1/4 port, opening pressure 1 bar *(14,5 psi)*, pilot ratio 1:4.9
VRDE02CIL	1420322100	Steel body, G3/8 port, opening pressure 1 bar *(14,5 psi)*, pilot ratio 1:4.9

For different configurations or SAE threads please contact our Sales Dpt.

Rating diagram

VRDE01CIL and VRDE02CIL
pressure drop vs. flow



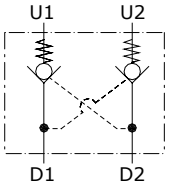
Type VBPDL/T
pilot operated check valves

- 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.



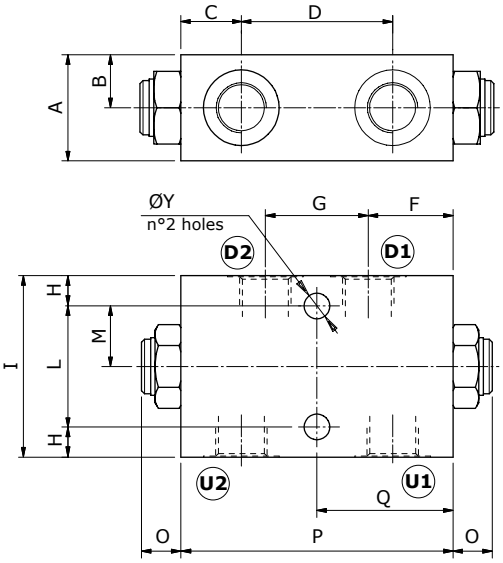
Dimensions

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*

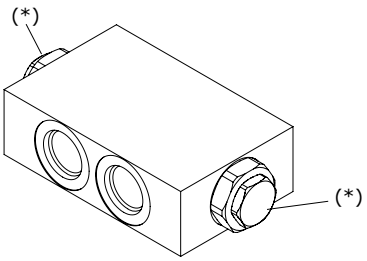
Valve type	A	B	C	D	F	G	ØY
VBPDL/T 38 VBPDL/T 38/SAE	35-*5.39*	17.5-*5.39*	20-*0.79*	50-*1.97*	28-*1.10*	34-*1.34*	8.5-*0.33*
VBPDL/T 12 VBPDL/T 12/SAE	35-*5.39*	17.5-*5.39*	21-*0.83*	68-*2.68*	38-*1.50*	34-*1.34*	8.5-*0.33*
VBPDL/T 34 VBPDL/T 34/SAE	50-*1.97*	25-*0.98*	30-*1.18*	105-*4.13*	57.5-*2.26*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



(*) Opening pressure	
VBPDL/T 38-VBPDL/T 38/SAE	5 bar-*72.5 psi*
VBPDL/T 12-VBPDL/T 12/SAE	12 bar-*174 bar*
VBPDL/T 34-VBPDL/T 34/SAE	5 bar-*72.5 psi*

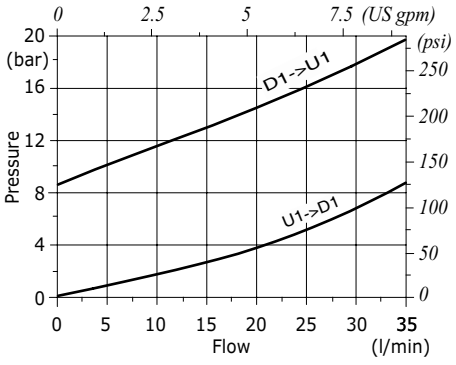
VBPDL/T complete valves

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	1422031103	Aluminium body, pilot ratio 1:4, G1/2 ports
VBPDL/T 12/p4/ac	1422032101	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	1422031203	Aluminium body, pilot ratio 1:4, SAE10 ports
VBPDL/T 34/p4/SAE	1422041200	Aluminium body, pilot ratio 1:4, SAE12 ports

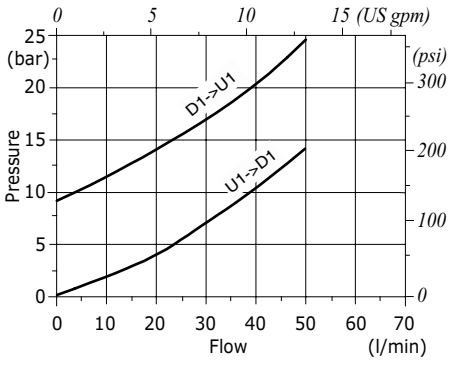
For other steel body configurations, other port sizes and configurations with FPM (Viton) seals please contact our Sales Dpt.

Rating diagram

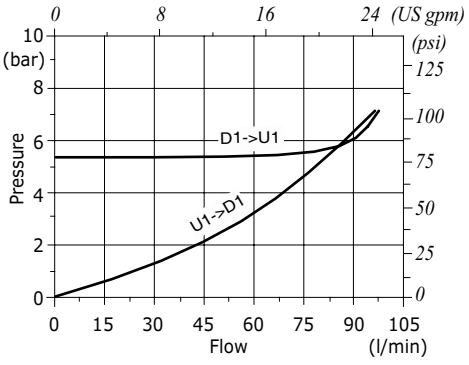
VBPDL/T 38 pressure drop vs. flow



VBPDL/T 12 pressure drop vs. flow



VBPDL/T 34 pressure drop vs. flow



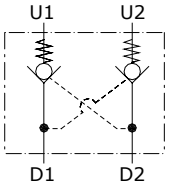
Type VBPDF
pilot operated check valves

- Double acting
- Face mounting

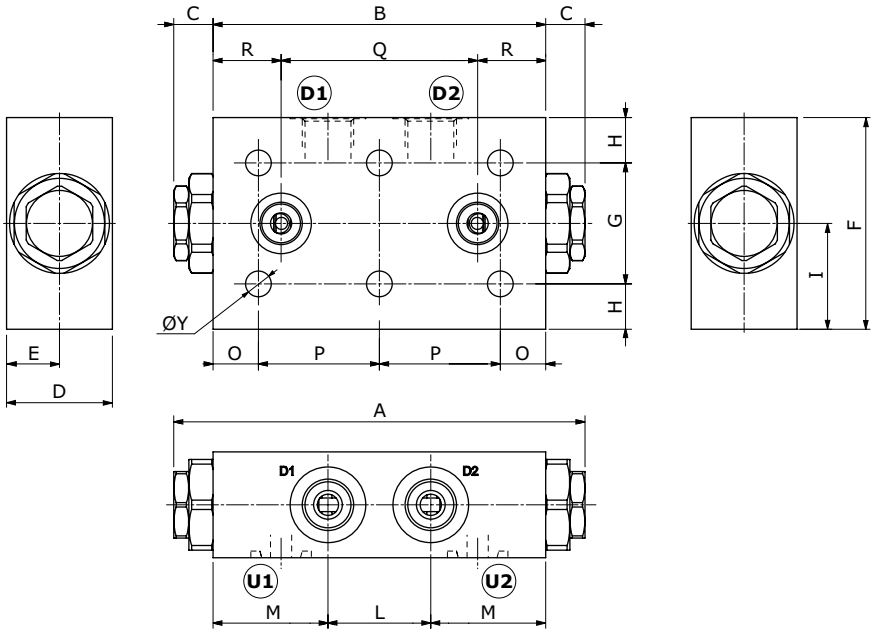
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

		VBPDF 14	VBPDF 38	VBPDF 12	VBPDF 34
Nominal flow		15 l/min *(4.0 US gpm)*	35 l/min *(9.2 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*	0.47 kg *(1.04 lb)*	1.17 kg *(2.58 lb)*	1.15 kg *(2.54 lb)*	2.52 kg *(5.56 lb)*
	steel	0.95 kg *(2.09 lb)*	2.13 kg *(4.70 lb)*	2.05 kg *(4.52 lb)*	5.23 kg *(11.53 lb)*

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



Dimensions



Valve type	D1 - D2	U1 - U2
VBPDF 14	G1/4	Ø 5 *Ø 0.20*
VBPDF 38	G3/8	Ø 7 *Ø 0.27*
VBPDF 12	G1/2	Ø 7 *Ø 0.27*
VBPDF 34	G3/4	Ø 14 *Ø 0.55*

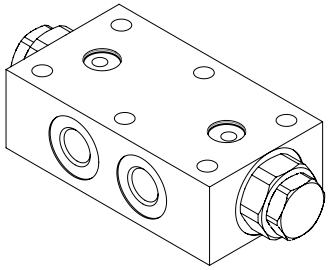
Valve type	D1 - D2	U1 - U2
VBPDF 12/SAE	SAE10	Ø 7 *Ø 0.27*

Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	O	P	Q	R	ØY
VBPDF 14	119 *4.69*	90 *3.54*	14.5 *0.57*	30 *1.18*	15 *0.59*	50 *1.97*	35 *1.38*	7.5 *0.29*	23.5 *0.92*	30 *1.18*	30 *1.18*	8.5 *0.33*	36.5 *1.44*	55 *2.16*	17.5 *0.69*	6.5 *0.25*
VBPDF 38	136 *5.35*	110 *4.33*	13 *0.51*	35 *1.38*	17.5 *0.69*	70 *2.75*	40 *1.57*	15 *0.59*	35 *1.38*	34 *1.34*	38 *1.50*	15 *0.59*	40 *1.57*	65 *2.56*	22.5 *0.88*	8.5 *0.33*
VBPDF 12 **VBPDF 12/SAE**	136 *5.35*	110 *4.33*	13 *0.51*	35 *1.38*	17.5 *0.69*	70 *2.75*	40 *1.57*	15 *0.59*	35 *1.38*	34 *1.34*	38 *1.50*	15 *0.59*	40 *1.57*	65 *2.56*	22.5 *0.88*	8.5 *0.33*
VBPDF 34	198 *7.80*	165 *6.50*	16.5 *0.71*	49 *1.93*	24.5 *0.96*	90 *3.54*	50 *1.97*	20 *0.79*	45 *1.77*	50 *1.97*	57.5 *2.26*	15 *0.59*	67.5 *2.65*	105 *4.13*	30 *1.18*	10.5 *0.41*

Ordering codes and description composition

Port size
VBPDF 14/p4
Pilot ratio



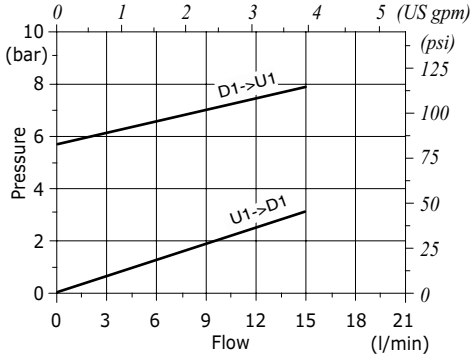
VBPDF complete valves

TYPE	CODE	DESCRIPTION
VBPDF 14/p4	1426011100	Aluminium body, pilot ratio 1:4, G1/4 ports
VBPDF 14/p4/ac	1426012100	Steel body, as prevuous one
VBPDF 38/p4	1426021103	Aluminium body, pilot ratio 1:4, G3/8 ports
VBPDF 38/p4/ac	1426022105	Steel body, as prevuous one
VBPDF 12/p4	1426031104	Aluminium body, pilot ratio 1:4, G1/2 ports
VBPDF 12/p4/ac	1426032105	Steel body, as prevuous one
VBPDF 34/p4	1426041100	Aluminium body, pilot ratio 1:4, G3/4 ports
VBPDF 34/p4/ac	1426042100	Steel body, as prevuous one
VBPDF 12/p4/SAE	1426031201	Aluminium body, pilot ratio 1:4, SAE10 ports
VBPDF 12/p4/ac/SAE	1426032201	Steel body, as prevuous one

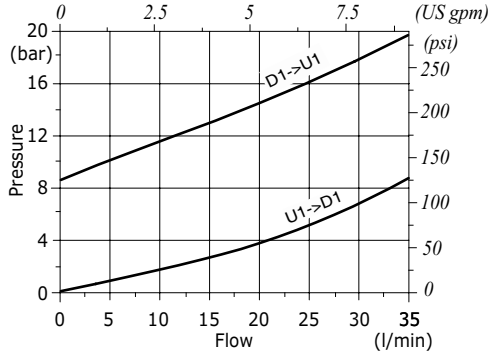
For other steel body configurations, SAE threads and configurations with FPM (Viton) seals, please contact our Sales Dpt.

Rating diagrams

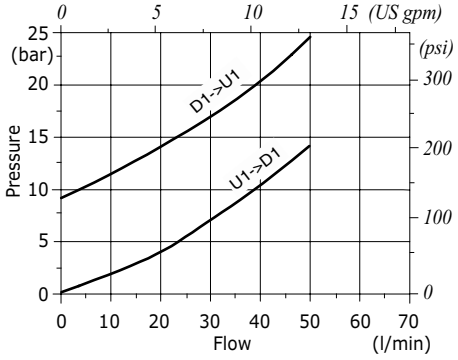
VBPDF 14 pressure drop vs. flow



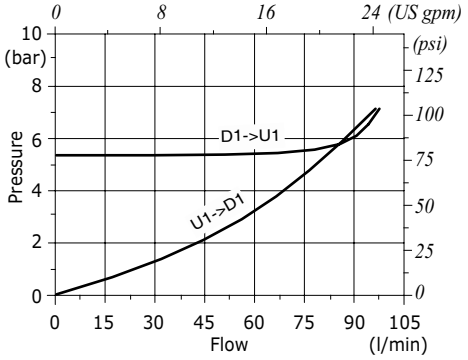
VBPDF 38 pressure drop vs. flow



VBPDF 12 pressure drop vs. flow



VBPDF 34 pressure drop vs. flow



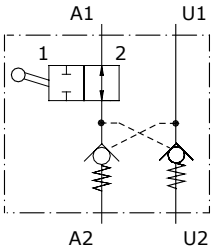
Type VBPDL/R
pilot operated check valves

- Double acting
- Check valve by pass type

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

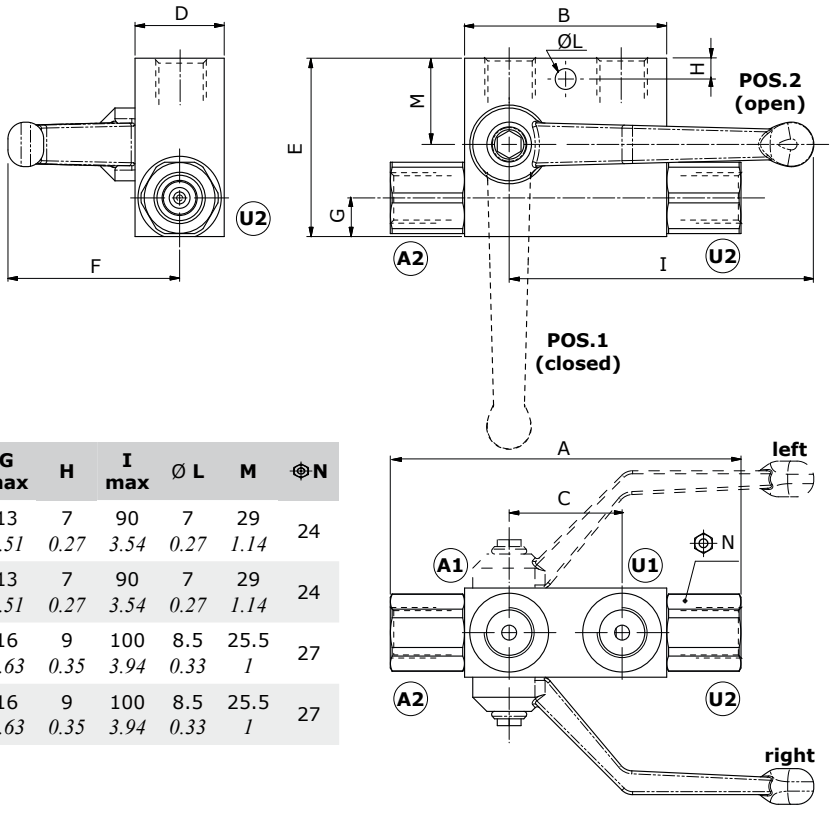
	VBPDL/R/..14	VBPDL/VP/R/..38	VBPDL/R/..38	VBPDL/VP/R/..12
Nominal flow	25 l/min *(6.6 US gpm)*	25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*
Max. pressure	350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage	0.25 cm^3/min *(0.015 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 *steel*	0.95 kg *(2.09 lb)*	0.95 kg *(2.09 lb)*	1.12 kg *(2.47 lb)*	1.12 kg *(2.47 lb)*

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



Dimension

Valve type	All ports
VBPDL/R/..14	G1/4
VBPDL/VP/R/..38	G3/8
VBPDL/R /..38	G3/8
VBPDL/VP/R/..12	G1/2



Dimensions are in mm-*in*

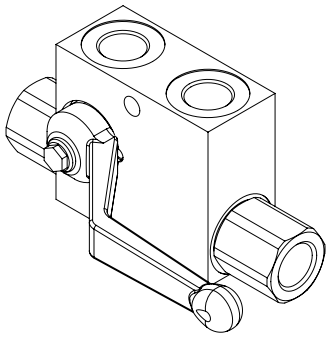
Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	N
VBPDL/R/..14	118 *4.64*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24
VBPDL/VP/R/..38	118 *4.64*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24
VBPDL/R/..38	143 *5.63*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27
VBPDL/VP/R/..12	143 *5.63*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27

Ordering codes and description composition

D - right
S - left

Port size

VBPDL/R/ D 14



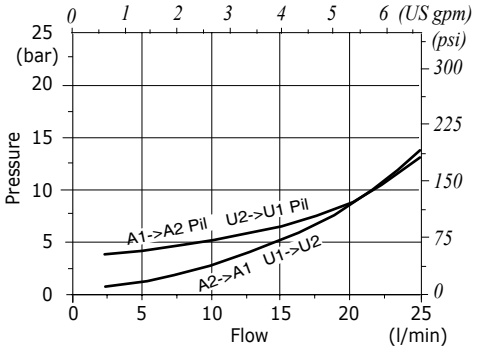
VBPDLR complete valves

TYPE	CODE	DESCRIPTION
VBPDL/R/S 14/p4,5/Pa4/ac	1425312100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4.5, G1/4 ports, left lever
VBPDL/R/D 14/p4,5/Pa4/ac	1425312101	As prevoius with right lever
VBPDL/R/S 38/p4/Pa4/ac	1425322100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, left lever
VBPDL/R/D 38/p4/Pa4/ac	1425322101	As prevoius with right lever
VBPDL/VP/R/S 38/p4,5/Pa4/ac	1425322102	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, left lever
VBPDL/VP/R/D 38/p4,5/Pa4/ac	1425322103	As prevoius with right lever
VBPDL/VP/R/S 12/p4/Pa4/ac	1425332100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, left lever
VBPDL/VP/R/D 12/p4/Pa4/ac	1425332101	As prevoius with right lever

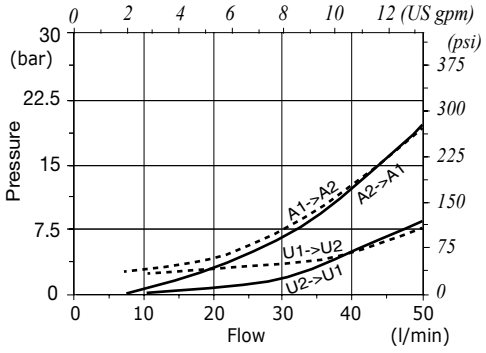
For different configurations or SAE threads please contact our Sales Dpt.

Rating diagram

VBPDL/R/..14 pressure drop vs. flow



VBPDL/R/..38 pressure drop vs. flow



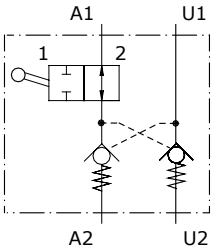
Type VRPDE..A
pilot operated check valves

- Double acting
- Check valve DIN 2353 by pass type
- Shut-off

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

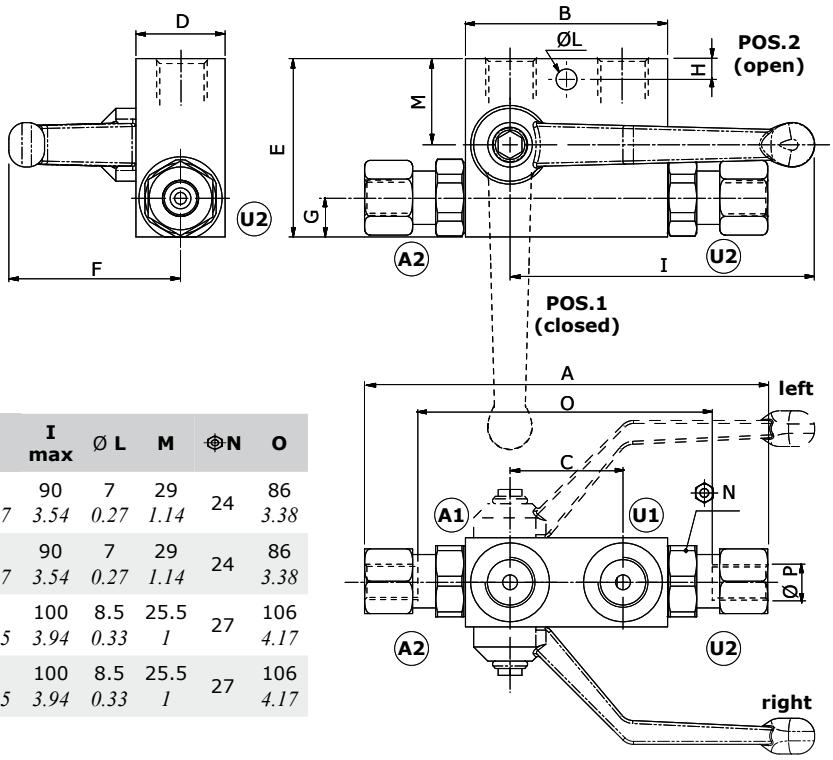
		VRPDE01A	VRPDE015A	VRPDE02A	VRPDE025A
Nominal flow		25 l/min *(6.6 US gpm)*	25 l/min *(6.6 US gpm)*	50 l/min *(13.2 US gpm)*	50 l/min *(13.2 US gpm)*
Max. pressure		350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	300 bar *(4350 psi)*
Oil leakage		0.25 cm^3/min *(0.015 in^3/min)* at 210 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	*steel*	0.95 kg *(2.09 lb)*	0.95 kg *(2.09 lb)*	1.12 kg *(2.47 lb)*	1.12 kg *(2.47 lb)*

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



Dimension

Valve type	A1-U1	A2-U2 (Ø P)
VRPDE01A	G1/4	12 *0.27*
VRPDE015A	G3/8	12 *0.27*
VRPDE02A	G3/8	15 *0.59*
VRPDE025A	G1/2	15 *0.59*



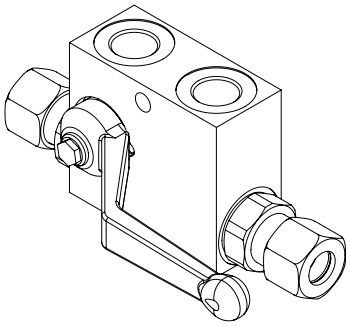
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F max	G max	H	I max	Ø L	M	⌖N	O
VRPDE01A	138 *5.43*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24	86 *3.38*
VRPDE015A	138 *5.43*	68 *2.68*	38 *1.50*	30 *1.18*	60 *2.36*	65 *2.56*	13 *0.51*	7 *0.27*	90 *3.54*	7 *0.27*	29 *1.14*	24	86 *3.38*
VRPDE02A	140 *5.51*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27	106 *4.17*
VRPDE025A	140 *5.51*	80 *3.15*	40 *1.57*	30 *1.18*	60 *2.36*	60 *2.36*	16 *0.63*	9 *0.35*	100 *3.94*	8.5 *0.33*	25.5 *1*	27	106 *4.17*

Ordering codes and description composition

Port size — **R** - right, **L** - left

VRPDE 01 A R



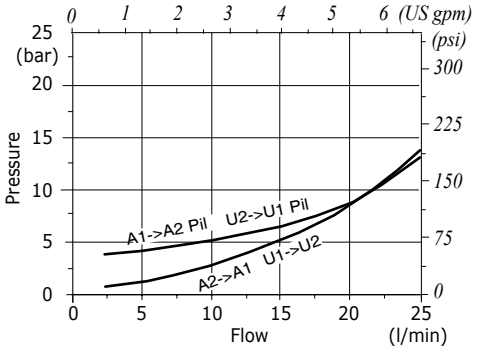
VRPDE complete valves

TYPE	CODE	DESCRIPTION
VRPDE01AR	1425412100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4.5, G1/4 ports, right lever
VRPDE015AL	1425422102	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4.5, G3/8 ports, left lever
VRPDE015AR	1425422103	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4.5, G3/8 ports, right lever
VRPDE02AL	1425422100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, left lever
VRPDE02AR	1425422101	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G3/8 ports, right lever
VRPDE025AL	1425432100	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, left lever
VRPDE025AR	1425432101	Steel body, opening press. 4 bar *(58 psi)*, pilot ratio 1:4, G1/2 ports, right lever

For different configurations or SAE thread please contact our Sales Dpt.

Rating diagram

VRPDE 01 A pressure drop vs. flow



VRPDE 02 A pressure drop vs. flow