

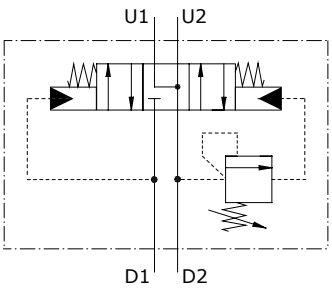
Type VRCL/KD
regenerative valves

- Regenerative

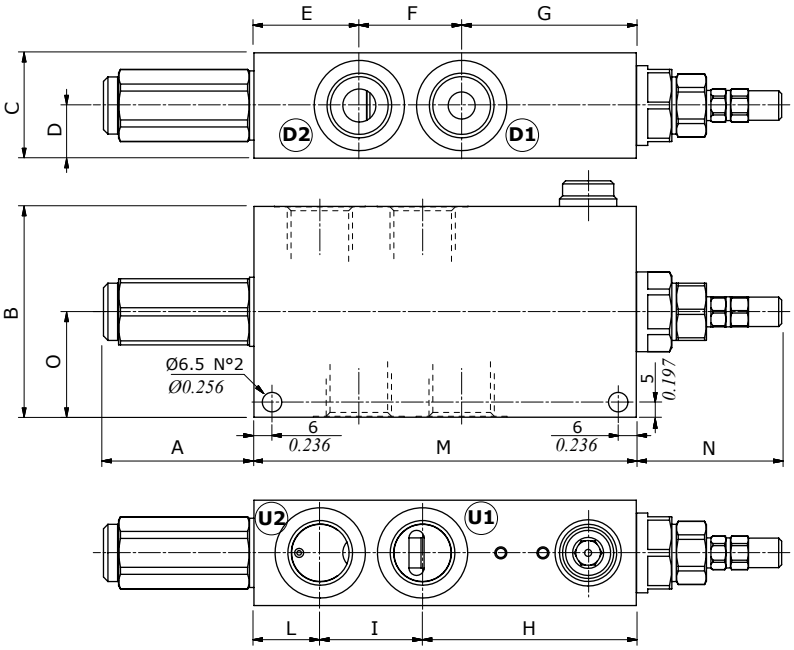
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

	VRCL/KD 38	VRCL/KD 12	VRCL/KD 34	VRCL/KD 100
Nominal flow	30 l/min *(7.9 US gpm)*	50 l/min *(13.2 US gpm)*	90 l/min *(23.8 US gpm)*	150 l/min *(39.6 US gpm)*
Max. pressure	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 *steel*	3.65 kg *(8.05 lb)*	3.55 kg *(7.83 lb)*	5.50 kg *(12.12 lb)*	10.12 kg *(22.31 lb)*

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



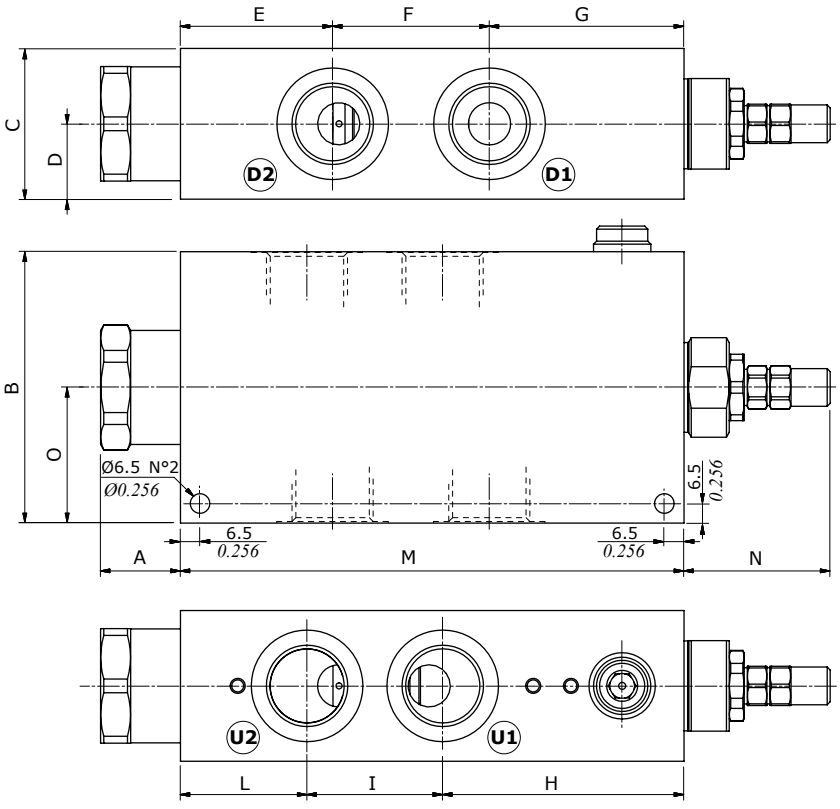
Dimensions



Valve type	All ports
VRCL/KD 38	G3/8
VRCL/KD 12	G1/2

Dimensions are in mm-*in*

Valve Type	A	B	C	D	E	F	G	H	I	L	M	N	O
VRCL/KD 38	50-*1.97*	70-*2.75*	35-*1.38*	17.5-*0.69*	35-*1.38*	34-*1.34*	58-*2.28*	71-*2.79*	34-*1.34*	22-*0.87*	127-*5*	48.5-*1.91*	35-*1.38*
VRCL/KD 12	50-*1.97*	70-*2.75*	35-*1.38*	17.5-*0.69*	35-*1.38*	34-*1.34*	58-*2.28*	71-*2.79*	34-*1.34*	22-*0.87*	127-*5*	48.5-*1.91*	35-*1.38*



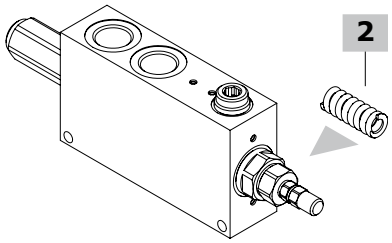
Valve type	All ports
VRCL/KD 34	G3/4
VRCL/KD 100	G1"

Dimensions are in mm-*in*

Valve Type	A	B	C	D	E	F	G	H	I	L	M	N	O
VRCL/KD 34	27-*1.06*	90-*3.54*	50-*1.97*	25-*0.98*	50.5-*1.99*	52-*2.05*	64.5-*2.54*	80-*3.15*	45-*1.77*	42-*1.65*	167-*6.57*	48.5-*1.91*	45-*1.77*
VRCL/KD 100	26-*1.02*	100-*3.94*	60-*2.36*	30-*1.18*	*77-3.03*	68-*2.68*	90-*3.54*	111.5-*4.39*	57-*2.24*	66.5-*2.62*	235-*9.25*	43-*1.69*	50-*1.97*

Ordering codes and description composition

Port size
VRCL/KD 38/TS.S
1



VRCL/KD complete valves

Cast iron body, standard setting 100 bar (1450 psi) at 10 l/min (2.64 US gpm)

TYPE	CODE	DESCRIPTION
VRCL/KD 38/TS.S/gh	1245023103	G3/8 port thread, setting range 50-220 bar *(725-3200 psi)*
VRCL/KD 12/TS.S/gh	1245033108	G1/2 port thread, setting range 50-220 bar *(725-3200 psi)*
VRCL/KD 34/TS.S/gh	1245043107	G3/4 port thread, setting range 50-220 bar *(725-3200 psi)*
VRCL/KD 100/TS.S/gh	1245053104	G1" port thread, setting range 50-220 bar *(725-3200 psi)*

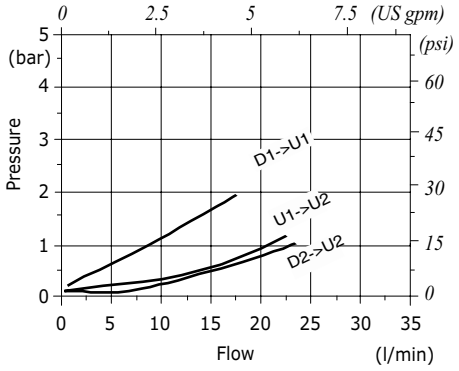
For other configurations, SAE threads and configurations with FPM (Viton) seals, please contact our Sales Dpt.

1 Pressure setting springs

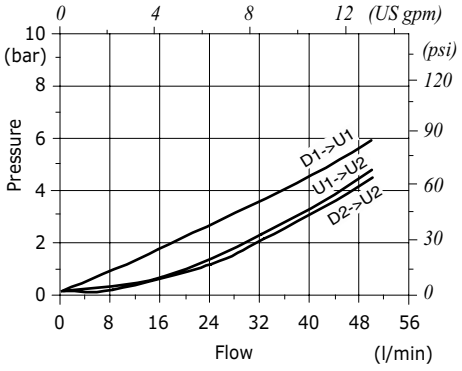
TYPE	CODE	DESCRIPTION
For VRCL/KD 38 and VRCL/KD 12 valves		
TB	3ML1081400	Setting range 5-80 bar *(72.5-725 psi)*
TS	3ML1081401	Setting range 50-220 bar *(725-3200 psi)*
TR	3ML1081402	Setting range 180-350 bar *(2600-5100 psi)*
For VRCL/KD 34 and VRCL/KD 100 valves		
TV	3ML1092500	Setting range 5-50 bar *(72.5-1150 psi)*
TS	3ML1092501	Setting range 20-220 bar *(290-3200 psi)*
TR	3ML1092502	Setting range 180-350 bar *(2600-5100 psi)*

Rating diagrams

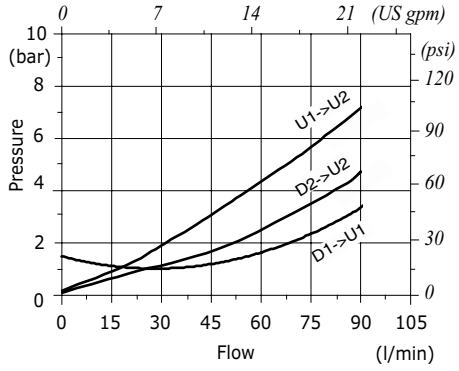
VRCL/KD 38 pressure drop vs. flow



VRCL/KD 12 pressure drop vs. flow



VRCL/KD 34 pressure drop vs. flow



VRCL/KD 100 pressure drop vs. flow

