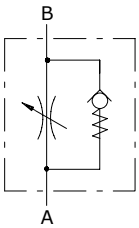
Type VSRU/C
needle valves

- Poppet type
- With check valve

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

	VSRU/C 14	VSRU/C 38	VSRU/C 12	VSRU/C 34	VSRU/C 100	VSRU/C 114	VSRU/C 112
Nominal flow from A to B	30 l/min *(7.9 US gpm)*	40 l/min *(10.6 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*	110 l/min *(29 US gpm)*	150 l/min *(39.6 US gpm)*	210 l/min *(55.5 US gpm)*
Nominal flow **C** from B to A	30 l/min *(7.9 US gpm)*	50 l/min *(13.2 US gpm)*	80 l/min *(21.1 US gpm)*	110 l/min *(29 US gpm)*	160 l/min *(42.27 US gpm)*	210 l/min *(55.5 US gpm)*	280 l/min *(74 US gpm)*
Nominal flow **S** from B to A	12 l/min *(3.17 US gpm)*	25 l/min *(6.6 US gpm)*	35 l/min *(9.25 US gpm)*	50 l/min *(13.2 US gpm)*	-	-	-
Max. pressure	350 bar *(5100 psi)*	350 bar *(5100 psi)*	350 bar *(5100 psi)*	300 bar *(4350 psi)*	250 bar *(3600 psi)*	230 bar *(3300 psi)*	230 bar *(3300 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*	0.30 kg *(0.66 lb)*	0.48 kg *(1.06 lb)*	0.59 kg *(1.3 lb)*	1.34 kg *(2.95 lb)*	2.15 kg *(4.74 lb)*	3.31 kg *(7.3 lb)*	4.76 kg *(10.49 lb)*

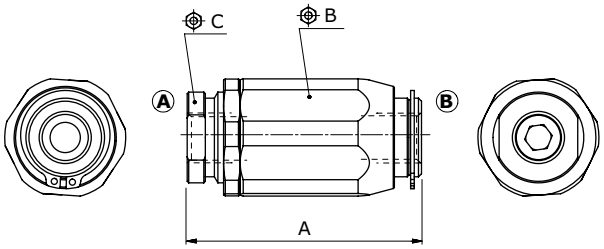
NOTE - For different conditions, please contact Walvoil Sales Dpt.



Dimensions

Dimensions are in mm-*in*

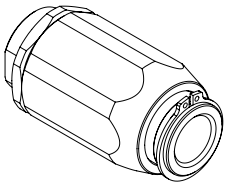
Valve type	All ports	A	⌖B	⌖c
VSRU/C 14	G 1/4	66-*2.6*	32	22
VSRU/C 38	G 3/8	77.5-*3.05*	38	26
VSRU/C 12	G 1/2	83-*3.27*	41	30
VSRU/C 34	G 3/4	104-*4.09*	55	38
VSRU/C 100	G 1″	118.5-*4.66*	65	46
VSRU/C 114	G 1″ 1/4	135-*5.31*	80	55
VSRU/C 112	G 1″ 1/2	149.5- *5.88*	90	62



Ordering codes and description composition

Port size — Opening pressure

VSRU / C 14 Pa0,5



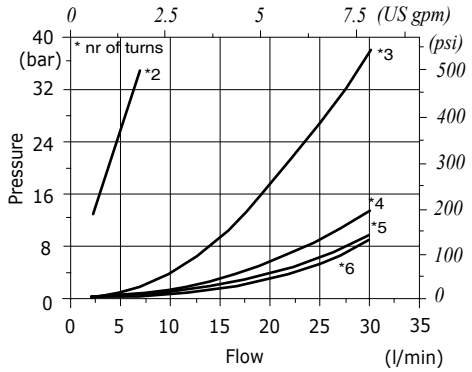
VSRU/C Complete valves

TYPE	CODE	DESCRIPTION
Poppet type, opening pressure 0.5 bar *(7.25 psi)*		
VSRU/C 14/Pa0,5	1603110100	Steel body, G1/4 ports
VSRU/C 38/Pa0,5	1603120100	Steel body, G3/8 ports
VSRU/C 12/Pa0,5	1603130100	Steel body, G1/2 ports
VSRU/C 34/Pa0,5	1603140100	Steel body, G3/4 ports
VSRU/C 100/Pa0,5	1603150100	Steel body, G1 ports
VSRU/C 114/Pa0,5	1603160100	Steel body, G 1″ 1/4 ports
VSRU/C 112/Pa0,5	1603170100	Steel body, G 1″ 1/2 ports

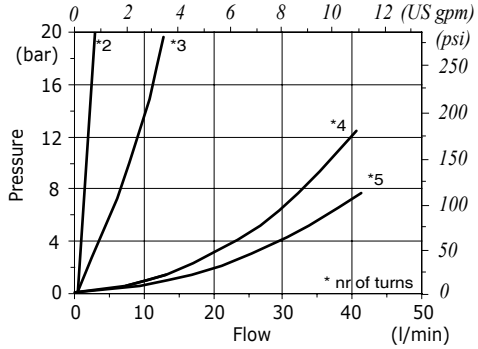
For different configurations or SAE thread please contact our Sales Dpt.

Rating diagrams

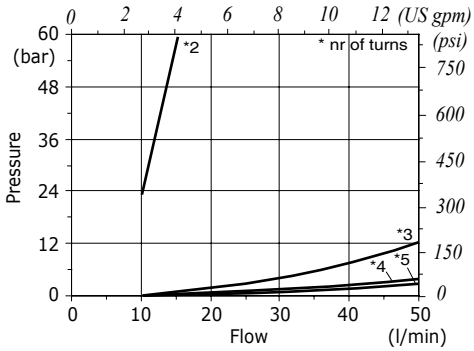
VSRU/C 14 pressure drop vs. flow (A→B)



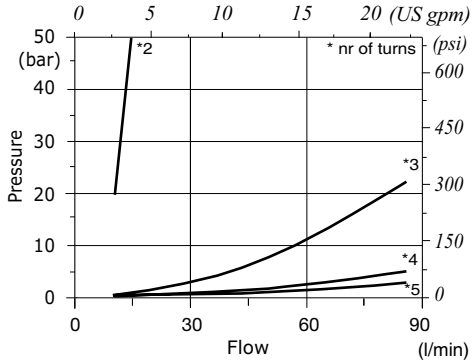
VSRU/C 38pressure drop vs. flow (A→B)



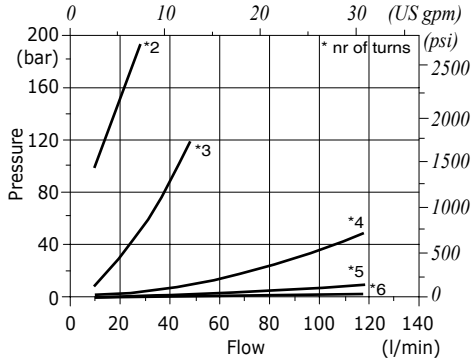
VSRU/C 12 pressure drop vs. flow (A→B)



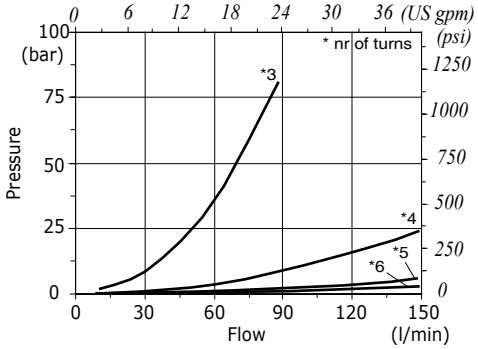
VSRU/C 34 pressure drop vs. flow (A→B)



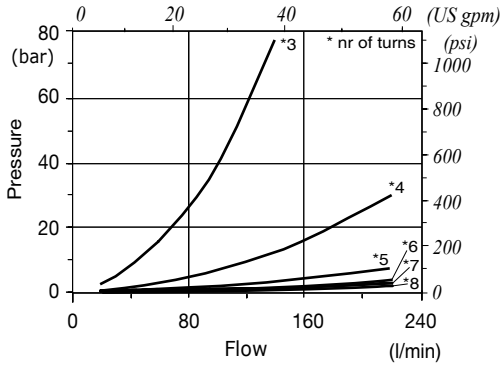
VSRU/C 100 pressure drop vs. flow (A→B)



VSRU/C 114 pressure drop vs. flow (A→B)

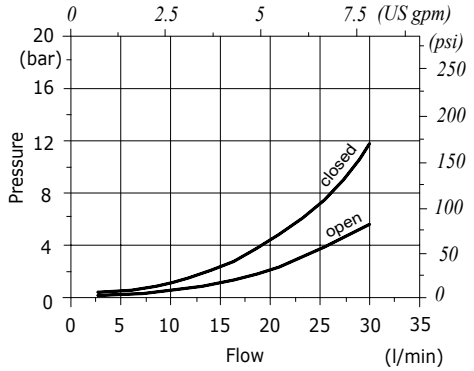


VSRU/C 112 pressure drop vs. flow (A→B)

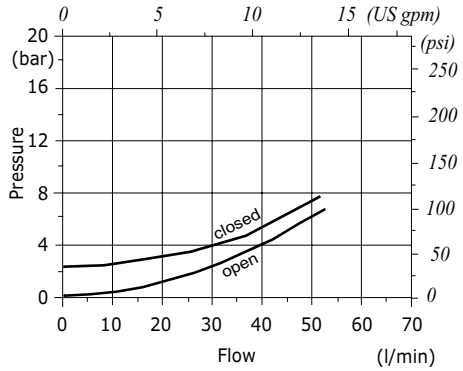


Rating diagrams

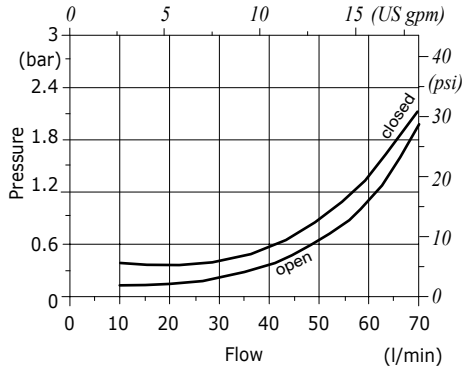
VSRU/C 14 pressure drop vs. flow (B→A)



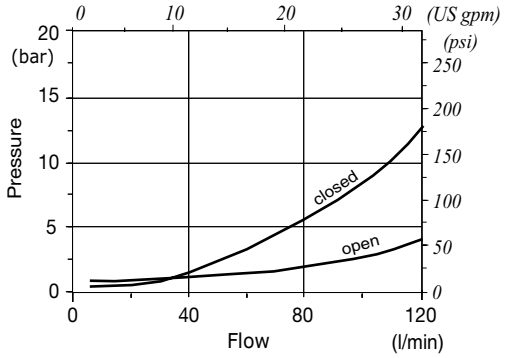
VSRU/C 38 pressure drop vs. flow (B→A)



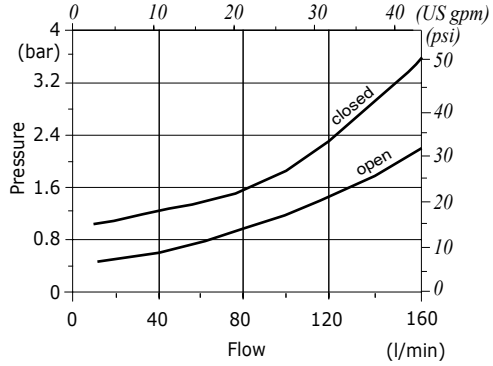
VSRU/C 12 pressure drop vs. flow (B→A)



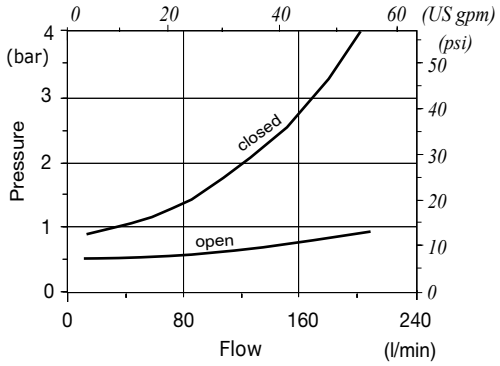
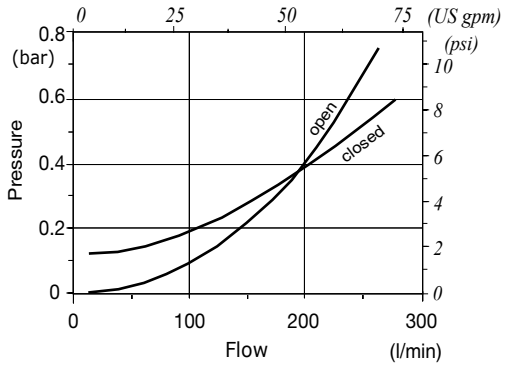
VSRU/C 34 pressure drop vs. flow (B→A)



VSRU/C 100 pressure drop vs. flow (B→A)



VSRU/C 114 pressure drop vs. flow (B→A)



VSRU/C 112 pressure drop vs. flow (B→A)