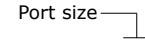


## Type VOSL/R1116... counterbalance valves

- Single acting
- Load Sensitive (type N)
- Relief compensated (type R)
- Vented (type V)
- Configuration with F1 and F2 flange

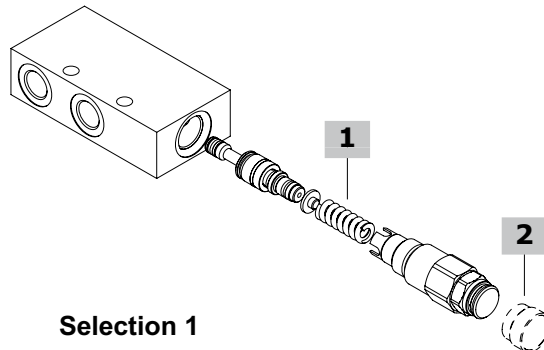
Port size  **VOSL/R1116/38/G3.p4/ac**

Type	Selection 1	Selection 2	Selection 3	Nominal flow	Max. pressure	ports	weight
				l/min(US gpm)	bar(psi)		Kg(lb)
VOSL/R1116/38	3/5	G/Z	p0/p4/p8	60(15.9)	210(3050)	All G3/8	0.64(1.41)
VOSL/R1116/38 ac				60(15.9)	350(5100)	All G3/8	1.34(2.95)
VOSL/R1116/38F1				60(15.9)	210(3050)	G3/8 G1/4 Ø8.5Ø0.335	0.64(1.41)
VOSL/R1116/38F1 ac				60(15.9)	350(5100)	G3/8 G1/4 Ø8.5Ø0.335	1.34(2.95)
VOSL/R1116/38F2				60(15.9)	210(3050)	G3/8 G1/4 Ø8.5Ø0.335	0.64(1.41)
VOSL/R1116/38F2 ac				60(15.9)	350(5100)	G3/8 G1/4 Ø8.5Ø0.335	1.34(2.95)
VOSL/R1116/12				60(15.9)	210(3050)	All G1/2	0.82(1.81)
VOSL/R1116/12 ac				60(15.9)	350(5100)	All G1/2	1.73(3.81)
VOSL/R1116/12F1				60(15.9)	210(3050)	G1/2 G1/4 Ø8.5Ø0.335	0.82(1.81)
VOSL/R1116/12F1 ac				60(15.9)	350(5100)	G1/2 G1/4 Ø8.5Ø0.335	1.73(3.81)
VOSL/R1116/12F2				60(15.9)	210(3050)	G1/2 G1/4 Ø8.5Ø0.335	0.82(1.81)
VOSL/R1116/12F2 ac				60(15.9)	350(5100)	G1/2 G1/4 Ø8.5Ø0.335	1.73(3.81)
VOSL/R1116/S8				60(15.9)	210(3050)	SAE8	0.64(1.41)
VOSL/R1116/S8 ac				60(15.9)	350(5100)	SAE8	1.34(2.95)
VOSL/R1116/S8F1				60(15.9)	210(3050)	SAE8 G1/4 Ø8.5Ø0.335	0.64(1.41)
VOSL/R1116/S8F1 ac				60(15.9)	350(5100)	SAE8 G1/4 Ø8.5Ø0.335	1.34(2.95)
VOSL/R1116/S8F2				60(15.9)	210(3050)	SAE8 G1/4 Ø8.5Ø0.335	0.64(1.41)
VOSL/R1116/S8F2 ac				60(15.9)	350(5100)	SAE8 G1/4 Ø8.5Ø0.335	1.34(2.95)
VOSL/R1116/S10				60(15.9)	210(3050)	SAE10	0.82(1.81)
VOSL/R1116/S10 ac				60(15.9)	350(5100)	SAE10	1.73(3.81)
VOSL/R1116/S10F1	60(15.9)	210(3050)	SAE10 G1/4 Ø8.5Ø0.335	0.82(1.81)			
VOSL/R1116/S10F1 ac	60(15.9)	350(5100)	SAE10 G1/4 Ø8.5Ø0.335	1.73(3.81)			
VOSL/R1116/S10F2	60(15.9)	210(3050)	SAE10 G1/4 Ø8.5Ø0.335	0.82(1.81)			
VOSL/R1116/S10F2 ac	60(15.9)	350(5100)	SAE10 G1/4 Ø8.5Ø0.335	1.73(3.81)			

Type	Execution	Operation/ Features	Max. flow up to		Max.press. up to	
			l/min	US gpm	bar	psi
<b>VOSL/R1116</b>	single acting	relief compensated	60	15.9	210 alum. body 350 steel body	3050 alum. body 5100 steel body
<b>Hydraulic diagram</b>						
<b>VOSL/R1116</b>		<b>VOSL/R1116/F1</b>		<b>VOSL/R1116/F2</b>		

**Ordering codes and description**

Port size  
**VOSL/R1116/38/G3.p4/ac**  
2 1


**Selection 2**

TYPE	DESCRIPTION
G	Screw setting
Z	Antitampering cap

**Selection 1**

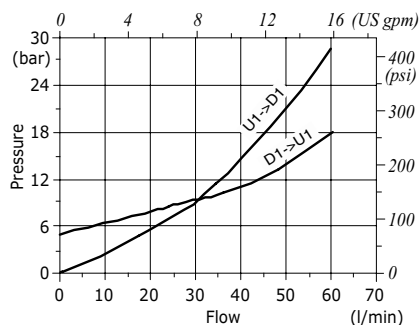
TYPE	DESCRIPTION
<b>For 1:4 and zero differential pilot ratio</b>	
3	For range 50-210 bar (725-3050 psi)
5	For range 150-350 bar (2175-5075 psi)
<b>For 1:8 pilot ratio</b>	
5	For range 180-350 bar (2610-5075 psi)

**Selection 3**

TYPE	DESCRIPTION
p0	pilot ratio 0
p4	pilot ratio 1:4
p8	pilot ratio 1:8

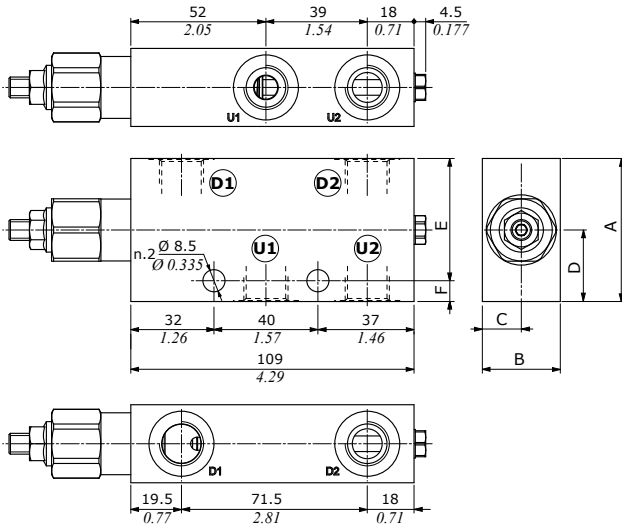
**Dimensions**

**VOSL/(N-R-V) 1116 (38-12) pressure drop vs. flow  
from D1->U1 and U1->D1**

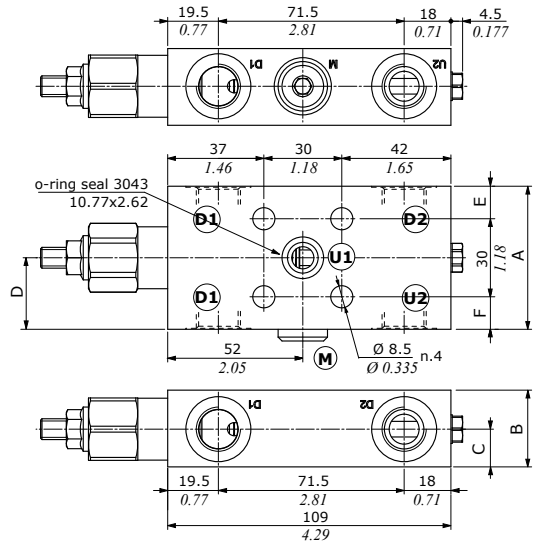


Dimensions

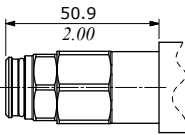
VOSL/...1116/38 - VOSL/...1116/12



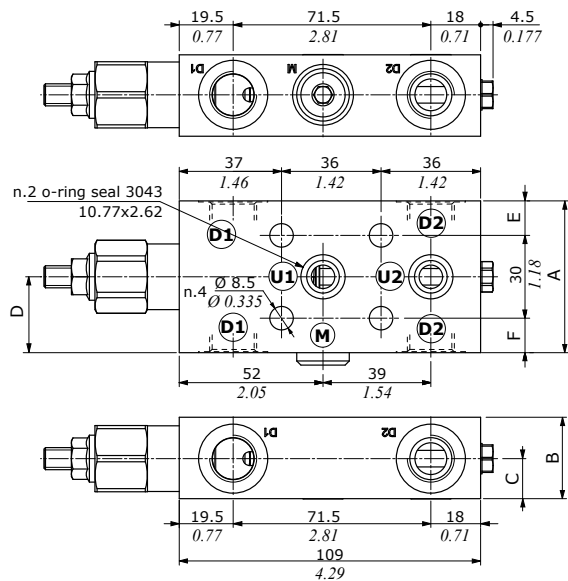
VOSL/...1116/38F1 - VOSL/...1116/12F1



VOSL/R configuration



VOSL/...1116/38F2 - VOSL/...1116/12F2



Valve type	D1	D2	U1	U2	M
VOSL/...1116/38	G3/8	G3/8	G3/8	G3/8	-
VOSL/...1116/12	G1/2	G1/2	G1/2	G1/2	-
VOSL/...1116/38F1	G3/8	G3/8	Ø8.5 Ø0.335	G3/8	G1/4
VOSL/...1116/12F1	G1/2	G1/2	Ø8.5 Ø0.335	G1/2	G1/4
VOSL/...1116/38F2	G3/8	G3/8	Ø8.5 Ø0.335	Ø8.5 Ø0.335	G1/4
VOSL/...1116/12F2	G1/2	G1/2	Ø8.5 Ø0.335	Ø8.5 Ø0.335	G1/4

Valve type	D1	D2	U1	U2	M
VOSL/...1116/S8	SAE8	SAE8	SAE8	SAE8	-
VOSL/...1116/S10	SAE10	SAE10	SAE10	SAE10	-
VOSL/...1116/S8F1	SAE8	SAE8	Ø8.5 Ø0.335	SAE8	G1/4
VOSL/...1116/S10F1	SAE10	SAE10	Ø8.5 Ø0.335	SAE10	G1/4
VOSL/...1116/S8F2	SAE8	SAE8	Ø8.5 Ø0.335	Ø8.5 Ø0.335	G1/4
VOSL/...1116/S10F2	SAE10	SAE10	Ø8.5 Ø0.335	Ø8.5 Ø0.335	G1/4

Dimensions are in mm-in

Valve type	A	B	C	D	E	F
VOSL/...1116/38	55	30	15	27.5	47	8
VOSL/...1116/S8	2.17	1.18	0.59	1.08	1.85	0.315
VOSL/...1116/12	65	35	17.5	32.5	57	8
VOSL/...1116/S10	2.26	1.38	0.69	1.28	2.24	0.315
VOSL/...1116/38F1	55	29.5	14.5	27.5	12.5	12.5
VOSL/...1116/S8F1	2.17	1.16	0.57	1.08	0.49	0.49
VOSL/...1116/12F1	65	34.5	17	32.5	17.5	17.5
VOSL/...1116/S10F1	2.26	1.36	0.67	1.28	0.69	0.69
VOSL/...1116/38F2	55	29.5	14.5	27.5	12.5	12.5
VOSL/...1116/S8F2	2.17	1.16	0.57	1.08	0.49	0.49
VOSL/...1116/12F2	65	34.5	17	32.5	17.5	17.5
VOSL/...1116/S10F2	2.26	1.36	0.67	1.28	0.69	0.69