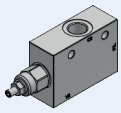
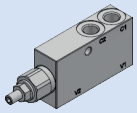
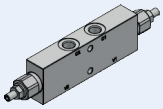
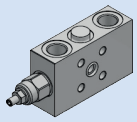
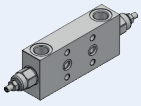
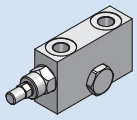
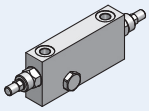
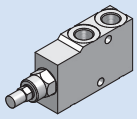
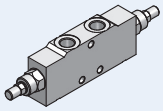
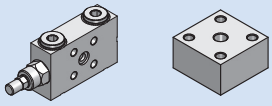
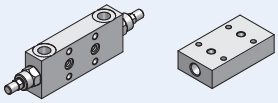
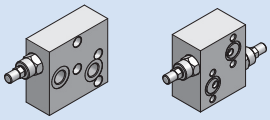
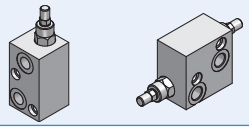
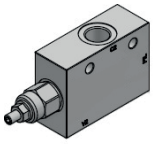
VALVES D'EQUILIBRAGES
OVERCENTER VALVES

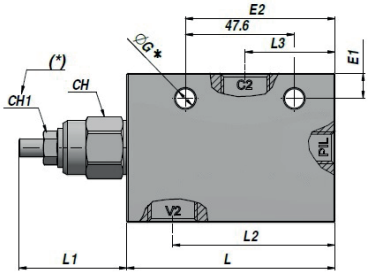
	Description - *Description*	Type	Page
	VALVE D'EQUILIBRAGE 3 VOIES *3 WAY OVERCENTER VALVE*	VOSLP-N	236
	VALVE D'EQUILIBRAGE *OVERCENTER VALVE*	VOSL-N	236-237
	VALVE D'EQUILIBRAGE *OVERCENTER VALVE*	VODL-N	238-239
	VALVE D'EQUILIBRAGE FLASQUABLE *OVERCENTER VALVE FACE MOUNTING*	SUR DEMANDE / *ON REQUEST* VOSL/N F	240
	VALVE D'EQUILIBRAGE FLASQUABLE *OVERCENTER VALVE FACE MOUNTING*	SUR DEMANDE / *ON REQUEST* VODL-N F	241
	VALVE D'EQUILIBRAGE MONTAGE SUR VERIN *OVERCENTER VALVE CYLINDER MOUNTING*	VBCD/A SE-FLV	242
	VALVE D'EQUILIBRAGE MONTAGE SUR VERIN *OVERCENTER VALVE CYLINDER MOUNTING*	VBCD/A DE-FLV	242
	VALVE D'EQUILIBRAGE *OVERCENTER VALVE*	VBCD/A SE	243
	VALVE D'EQUILIBRAGE *OVERCENTER VALVE*	VBCD/A DE	243
	VALVE D'EQUILIBRAGE *OVERCENTER VALVE*	VBCD SE VBCD DE	244
	VALVE D'EQUILIBRAGE POUR CENTRE FERME *OVERCENTER VALVE FOR CLOSED CENTER*	VBCD SE CC VBCD DE CC	245
	VALVE D'EQUILIBRAGE FLASQUABLE *OVERCENTER VALVE FACE MOUNTING*	VBCD/FL SE	246
	VALVE D'EQUILIBRAGE FLASQUABLE *OVERCENTER VALVE FACE MOUNTING*	VBCD/FL DE	246
	VALVE D'EQUILIBRAGE POUR MOTEURS "MPP-MPR-MCP-MCR" *OVERCENTER VALVE FOR "MPP-MPR-MCP-MCR" MOTORS*	VBCDF SE (MP-MR) VBCDF DE (MP-MR)	247
	VALVE D'EQUILIBRAGE POUR MOTEURS "MPS-MCS" *OVERCENTER VALVE FOR "MPS-MCS" MOTORS*	VBCDF SE (MS) VBCDF DE (MS)	248

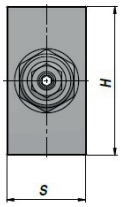
VOSLP-N

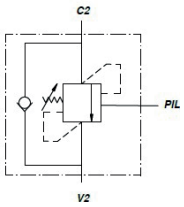
SIMPLE EFFET
SINGLE ACTING

VALVE D'EQUILIBRAGE 3 VOIES
3 WAY OVERCENTER VALVE









Code *Code*	V2 BSP	C2 BSP	PIL BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	E1	E2	ØG	CH	CH1	H	S	kg
VSG411.2042B0	3/8"	3/8"	1/4"	60	350	1:4	VOSLP/N1116	90	55.5	71	39	7.0	64.4	8.5	24	13	55	30	1,13
VSG411.3042B0	1/2"	1/2"	1/4"	60	350	1:4	VOSLP/N1116	90	55.5	71	39	11.0	64.4	8.5	24	13	65	35	1,53

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 150-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 50-210 bar (Réglage standard - Standard setting 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

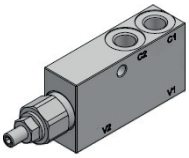
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

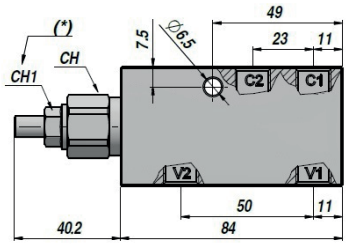
MONTAGE EN LIGNE
LINE MOUNTING

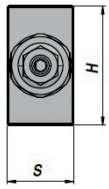
VOSL-N78

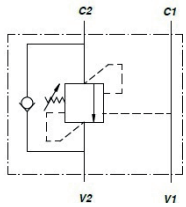
SIMPLE EFFET
SINGLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE









Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG410.1041B0	1/4"	1/4"	-	40	350	1:4	VOSL/N78	22	13	45	25	0,72

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 100-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 60-220 bar (Réglage standard - *Standard setting* 150 bar)

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

Disponibilités & Tarifs en ligne sur **www.unidro-contarini.com/fr/disponibilites-tarifs**
*Availability & Rates online on **www.unidro-contarini.com/fr/disponibilites-tarifs/***

La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

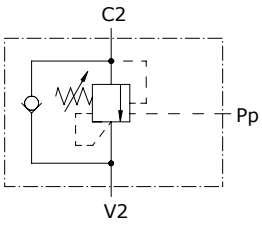
Type VOSLP/N78/....
counterbalance valves

- Single acting
- External pilot

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

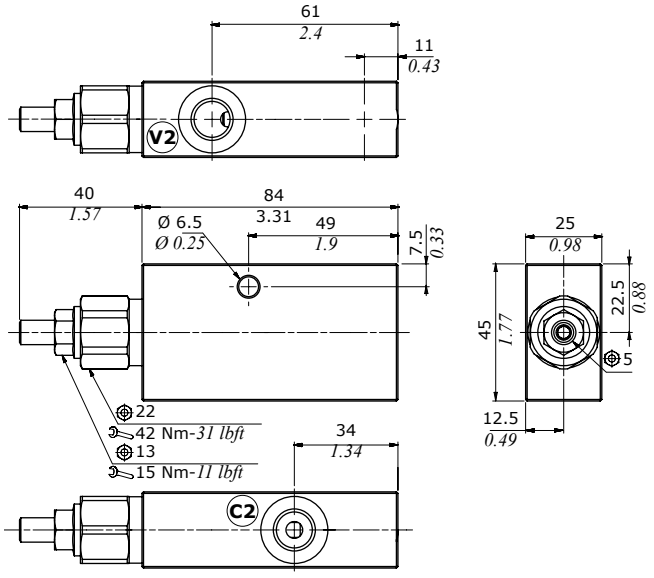
	VOSLP/N78 - VOSLP/N78/..PB
Nominal flow	40 l/min *(10.57 US gpm)*
Max. pressure	Steel body = 350 bar *(5100 psi)*
Oil leakage	0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 80% of pressure setting
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. level of contamination	18/16/13 ISO4406
Fluid 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)*
steel	0.723 kg *(1.59 lb)*

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

VOSLP/N78/14

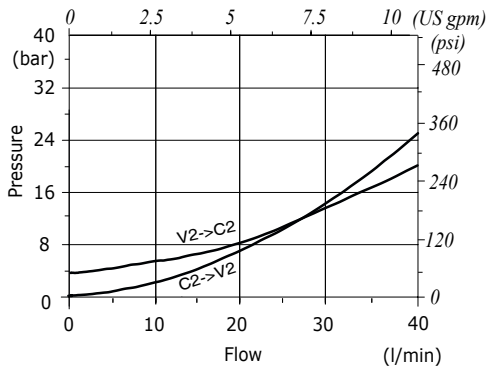


Valve type	V1	V2	C1	C2
VOSLP/N78/14	G1/4		G1/4	

Valve type	V1	V2	C1	C2
VOSLP/N78/S6	SAE6		SAE6	

Rating diagrams

Pressure drop vs. flow from C2->V2 and V2->C2



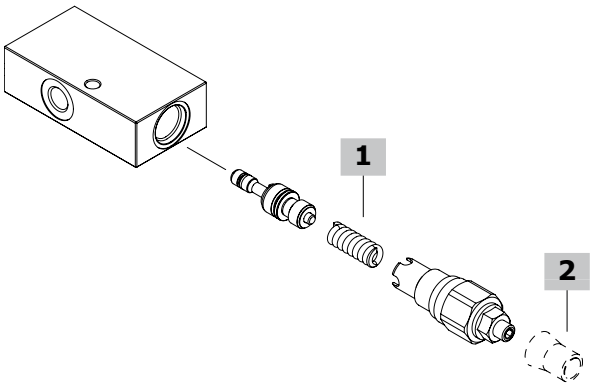
Ordering codes and description composition

Port size

VOSLP/N78/14/G3.p4/ac

2 **1**

VOSLP/N78



VOSLP/N78 complete valves

TYPE: **VOSLP/N78/14/G5.p4/ac** CODE: 1533612100
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N78/14/G3.p4/ac** CODE: 1533612101
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N78/S6/G5.p4/ac** CODE: 1533612200
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N78/S6/G3.p4/ac** CODE: 1533612201
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*

1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 pilot ratio		
3	3MOL310282	For range 60-220 bar *(870-3190 psi)* standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
5	380113	For range 100-350 bar *(1450-5075 psi)* standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

2 Setting type

TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Type VOSLP/N1116 - VOSLP/R1116 counterbalance valves

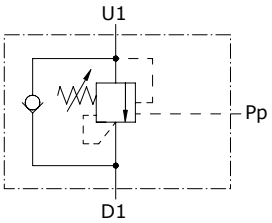
- Single acting
- External pilot
- Load Sensitive (type N)
- Relief Compensated (type R)

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

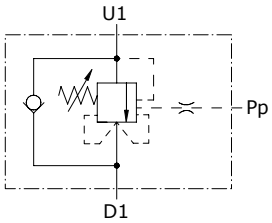
		VOSLP/N1116 (38-12) - VOSLP/R1116 (38-12)
Nominal flow		60 l/min *(15.9 US gpm)*
Max. pressure		Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*
Oil leakage		0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 210 bar - *3050 psi*
Fluid		mineral based oil
Viscosity		from 10 to 200 cSt
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*	**VOSLP/N1116/38:** 0.51kg *(1.12 lb)* - **VOSLP/N1116/12:** 0.65 kg *(1.43 lb)*
	steel	**VOSLP/N1116/38:** 1.13 kg *(2.49 lb)* - **VOSLP/N1116/12:** 1.51 kg *(3.33 lb)* **VOSLP/R1116/38:** 1.20 kg *(2.64 lb)* - **VOSLP/R1116/12:** 1.58 kg *(3.48 lb)*

NOTE - For different conditions, please contact Sales Dpt.

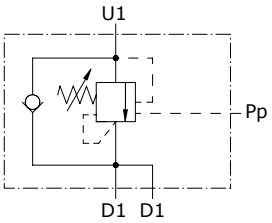
VOSLP/N1116



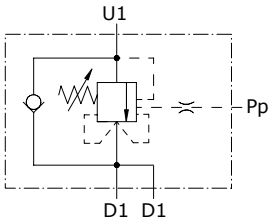
VOSLP/R1116



VOSLP/N1116/F1

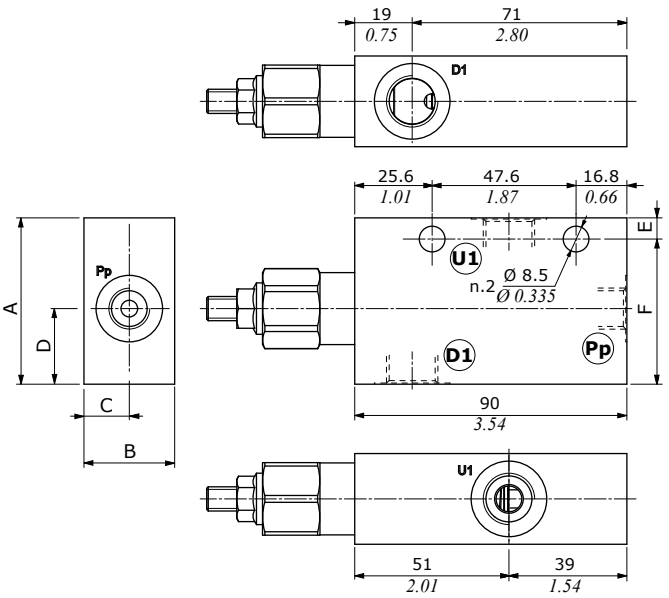


VOSLP/R1116/F1

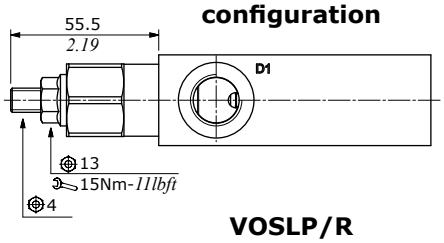


Dimensions

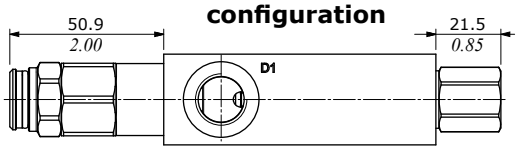
VOSLP/...1116/38 - VOSLP/...1116/12



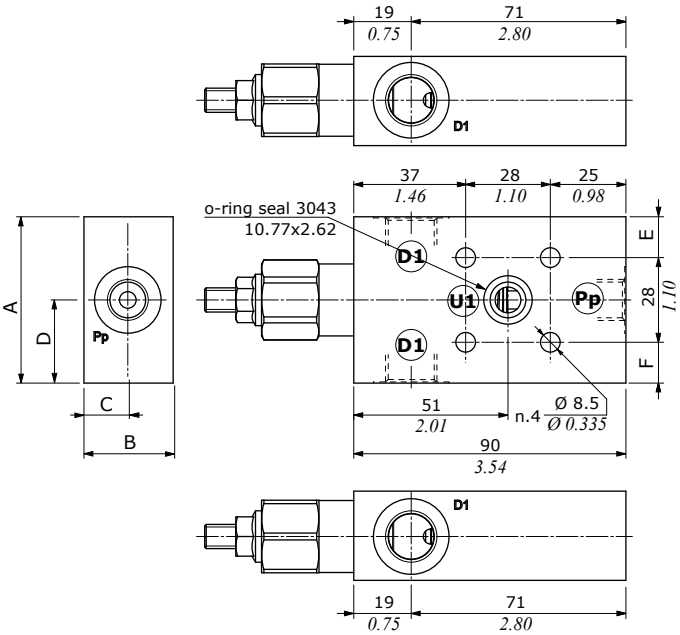
VOSLP/N configuration



VOSLP/R configuration



VOSLP/...1116/38F1 - VOSLP/...1116/12F1



Valve type	D1	U1	Pp
VOSLP/...1116/38	G3/8	G3/8	G1/4
VOSLP/...1116/12	G1/2	G1/2	G1/4
VOSLP/...1116/38F1	G3/8	Ø8.5 *Ø0.335*	G1/4
VOSLP/...1116/12F1	G1/2	Ø8.5 *Ø0.335*	G1/4

Valve type	D1	U1	Pp
VOSLP/...1116/S8	SAE8	SAE8	SAE6
VOSLP/...1116/S10	SAE10	SAE10	SAE6
VOSLP/...1116/S8F1	SAE8	Ø8.5 *Ø0.335*	SAE6
VOSLP/...1116/S10F1	SAE10	Ø8.5 *Ø0.335*	SAE6

Dimensions are in mm-*in*

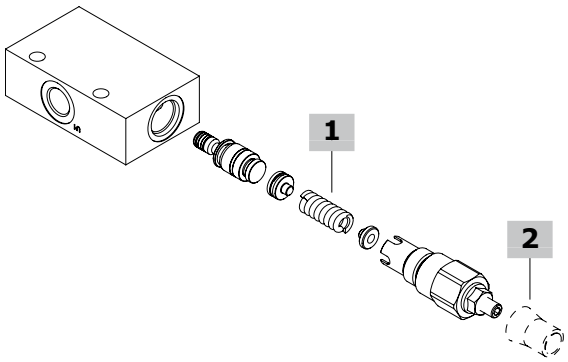
Valve type	A	B	C	D	E	F
VOSLP/...1116/38 **VOSLP/...1116/S8**	55 *2.17*	30 *1.18*	15 *0.59*	25 *0.98*	48 *1.89*	7 *0.276*
VOSLP/...1116/12 **VOSLP/...1116/S10**	65 *2.26*	35 *1.38*	17.5 *0.69*	32.5 *1.28*	54 *2.13*	11 *0.433*
VOSLP/...1116/38F1 **VOSLP/...1116/S8F1**	55 *2.17*	29.5 *1.16*	14.5 *0.57*	27.5 *1.08*	13.5 *053*	13.5 *053*
VOSLP/...1116/12F1 **VOSLP/...1116/S10F1**	65 *2.26*	34.5 *1.36*	17 *0.67*	32.5 *1.28*	18.5 *0.73*	18.5 *0.73*

Ordering codes and description composition

Port size

VOSLP/N1116/38/G3.p4/ac

2 **1**



VOSLP/N1116 complete valves

Load sensitive (N) configuration with G3/8 thread

Pilot ratio 1:4

TYPE: **VOSLP/N1116/38/G3.p4/ac** CODE: 1534322101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/38/G5.p4/ac** CODE: 1534322100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*. std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/38/G5.p4** CODE: 1534321100
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSLP/N1116/38/G5.p8/ac** CODE: 1534322104
DESCRIPTION: Steel body, range 180-350 bar *(2160-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSLP/N1116/38/G3.p0/ac** CODE: 1534322106
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/38/G5.p0/ac** CODE: 1534322107
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/8 thread and F1 flange

TYPE: **VOSLP/N1116/38F1/G5.p4/ac** CODE: 1535522100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/38F1/G5.p8/ac** CODE: 1535522101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/38F1/G5.p0/ac** CODE: 1535522102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

VOSLP/N1116 complete valves

Load sensitive (N) configuration with SAE8 thread

Pilot ratio 1:4

TYPE: **VOSLP/N1116/S8/G3.p4/ac** CODE: 1534322200
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/S8/G5.p4/ac** CODE: 1534322201
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/S8/G5.p4** CODE: 1534321200
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSLP/N1116/S8/G5.p8/ac** CODE: 1534322204
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSLP/N1116/S8/G3.p0/ac** CODE: 1534322206
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/S8/G5.p0/ac** CODE: 1534322207
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE8 thread and F1 flange

TYPE: **VOSLP/N1116/S8F1/G5.p4/ac** CODE: 1535522200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/S8F1/G5.p8/ac** CODE: 1535522201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSLP/N1116/S8F1/G5.p0/ac** CODE: 1535222202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

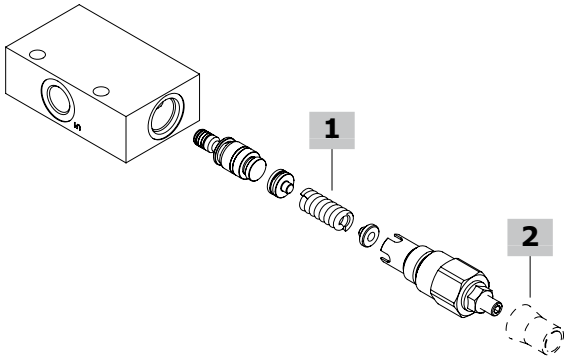
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Dimensions

Port size

VOSLP/N1116/12/G3.p4/ac

2 **1**



VOSLP/N1116 complete valves

Load sensitive (N) configuration with G1/2 thread

TYPE: **VOSLP/N1116/12/G5.p4/ac** CODE: 1534332100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/12/G5.p8/ac** CODE: 1534332101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/12/G5.p0/ac** CODE: 1534332102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/12/G5.p4** CODE: 1534331100
DESCRIPTION: Aluminium body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F1 flange

TYPE: **VOSLP/N1116/12F1/G5.p4/ac** CODE: 1535532100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/12F1/G5.p8/ac** CODE: 1535532101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/12F1/G5.p0/ac** CODE: 1535532102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*.
For other configurations please contact our Sales Dpt.

VOSLP/N1116 complete valves

Load sensitive (N) configuration with SAE10 thread

TYPE: **VOSLP/N1116/S10/G5.p4/ac** CODE: 1534332200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/S10/G5.p8/ac** CODE: 1534332201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/S10/G5.p0/ac** CODE: 1534332202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/S10/G5.p4** CODE: 1534331200
DESCRIPTION: Aluminium body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F1 flange

TYPE: **VOSLP/N1116/S10F1/G5.p4/ac** CODE: 1535532200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/S10F1/G5.p8/ac** CODE: 1535532201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSLP/N1116/S10F1/G5.p0/ac** CODE: 1535532202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

1 Pressure setting spring

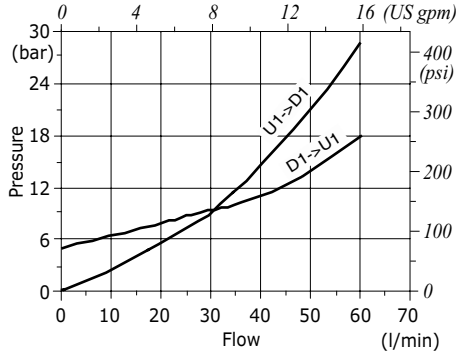
TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Rating diagrams

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



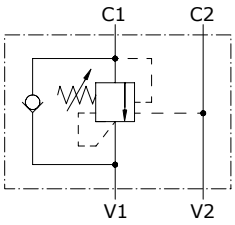
Type VOSL/N78/....
counterbalance valves

- Single acting
- Load sensitive

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

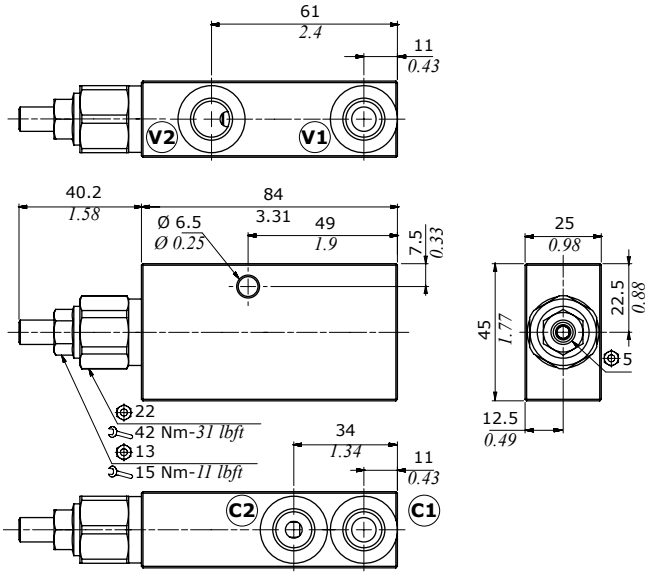
	VOSL/N78 - VOSL/N78/..PB
Nominal flow	40 l/min *(10.57 US gpm)*
Max. pressure	Steel body = 350 bar *(5100 psi)*
Oil leakage	0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 80% of pressure setting
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. level of contamination	18/16/13 ISO4406
Fluid temperature	*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)*
steel	0.723 kg *(1.59 lb)*

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

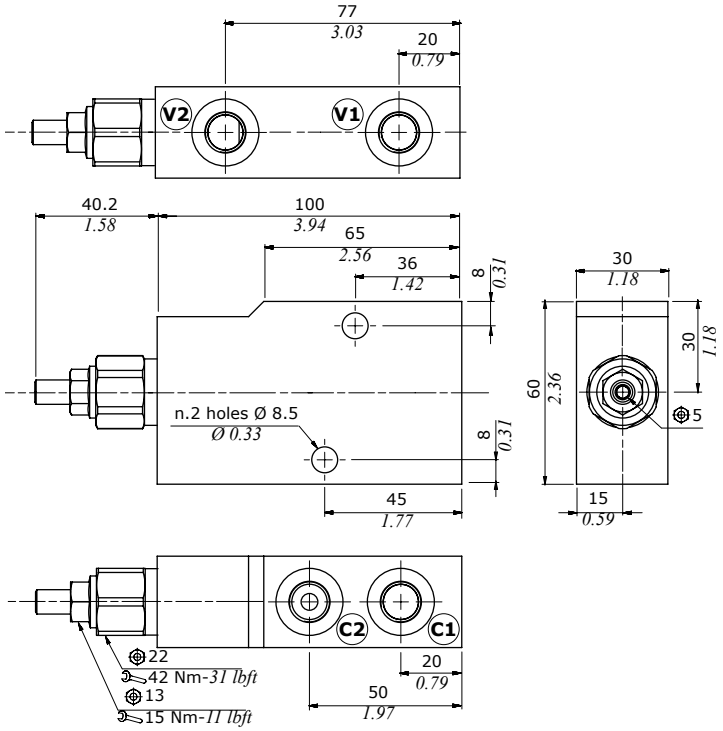
VOSL/N78/14



Valve type	V1 V2	C1 C2
VOSL/N78/14	G1/4	G1/4
VOSL/N78/14PB	G1/4	G1/4

Valve type	V1 V2	C1 C2
VOSL/N78/S6	SAE6	SAE6

VOSL/N78/14PB

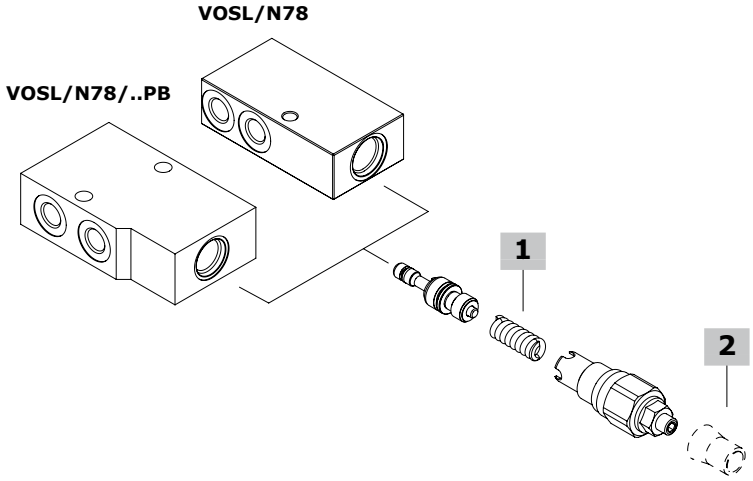


Ordering codes and description composition

Port size

VOSL/N78/14/G3.p4/ac

2 **1**



VOSL/N78 complete valves

TYPE: **VOSL/N78/14/G5.p4/ac** CODE: 1513512100
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N78/14/G3.p4/ac** CODE: 1513512101
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N78/S6/G5.p4/ac** CODE: 1513512200
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N78/S6/G3.p4/ac** CODE: 1513512201
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*

VOSL/N78....PB complete valves

TYPE: **VOSL/N78/14PB/G5.p4/ac** CODE: 1513612100
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N78/14PB/G3.p4/ac** CODE: 1513612101
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*

1 Pressure setting spring

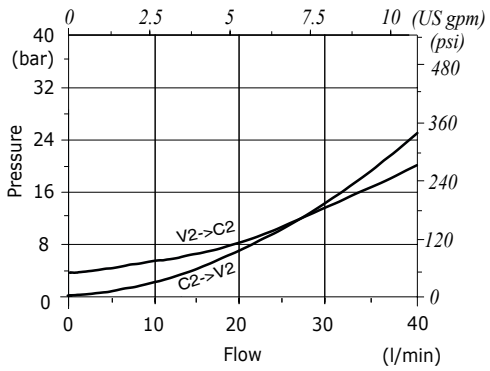
TYPE	CODE	DESCRIPTION
For 1:4 pilot ratio		
3	3MOL310282	For range 60-220 bar *(870-3190 psi)* standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
5	380113	For range 100-350 bar *(1450-5075 psi)* standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

2 Setting type

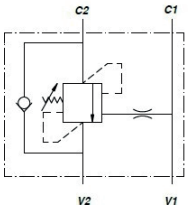
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

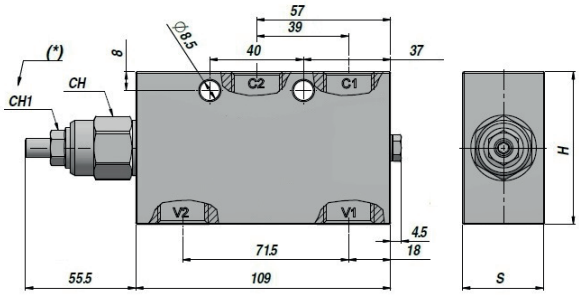
Rating diagrams

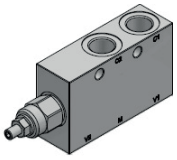
Pressure drop vs. flow from C2->V2 and V2->C2



VALVE D'EQUILIBRAGE *OVERCENTER VALVE* — SIMPLE EFFET *SINGLE ACTING* — VOSL-N1116







Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG410.2042B0	3/8"	3/8"	-	60	350	1:4	VOSL/N1116/38	24	13	55	30	1.31
VSG410.3042B0	1/2"	1/2"	1/4"	60	350	1:4	VOSL/N1116/12	24	13	65	35	1.74

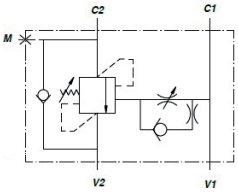
(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

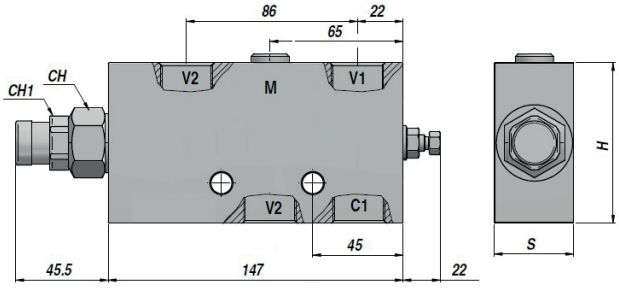
RESSORT - *SPRING* : Type "5" 150-350 bar (Réglage standard - *Standard setting* 280 bar)

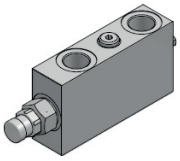
SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 50-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER — MONTAGE EN LIGNE
BODY MATERIAL : STEEL — *LINE MOUNTING*

VALVE D'EQUILIBRAGE *OVERCENTER VALVE* — SIMPLE EFFET *SINGLE ACTING* — VOSL-N1516







Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG410.4040B0	3/4"	3/4"	1/4"	160	350	1:4	VOSL/N1516/34	27	24	80	40	3.3

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 150-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 100-210 bar (Réglage standard - *Standard setting* 150 bar)
RESSORT - *SPRING* : Type "7" 200-400 bar (Réglage standard - *Standard setting* 350 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER — MONTAGE EN LIGNE
BODY MATERIAL : STEEL — *LINE MOUNTING*

Type VOSL/N1116 - VOSL/R1116 - VOSL/V1116
counterbalance valves

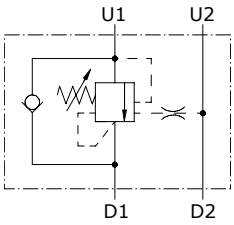
- Single acting
- Load Sensitive (type N)
- Relief compensated (type R)
- Vented (type V)
- Configuration with F1 and F2 flange

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

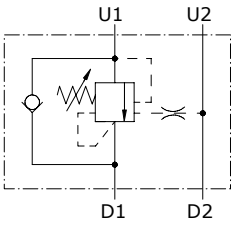
	VOSL/N1116 (38-12) - VOSL/R1116 (38-12) - VOSL/V1116 (38-12)
Nominal flow	60 l/min *(15.9 US gpm)*
Max. pressure	Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*
Oil leakage	0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 210 bar - *3050 psi*
Fluid	mineral based oil
Viscosity	from 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*	**VOSL/N1116/38:** 0.59 kg *(1.30 lb)* - **VOSL/N1116/12:** 0.75 kg *(1.65 lb)* **VOSL/R1116/38:** 0.64 kg *(1.41 lb)* - **VOSL/R1116/12:** 0.82 kg *(1.81 lb)* **VOSL/V1116/38:** 0.66 kg *(1.46 lb)* - **VOSL/V1116/12:** 0.83 kg *(1.83 lb)*
Weight *steel*	**VOSL/N1116/38:** 1.31 kg *(2.88 lb)* - **VOSL/N1116/12:** 1.74 kg *(3.84 lb)* **VOSL/N1116/38PB:** - **VOSL/N1116/12PB:** **VOSL/R1116/38:** 1.34 kg *(2.95 lb)* - **VOSL/R1116/12:** 1.73 kg *(3.81 lb)* **VOSL/V1116/38:** 1.36 kg *(2.88 lb)* - **VOSL/V1116/12:** 1.78 kg *(3.92 lb)*

NOTE - For different conditions, please contact Sales Dpt.

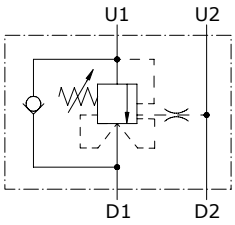
VOSL/N1116



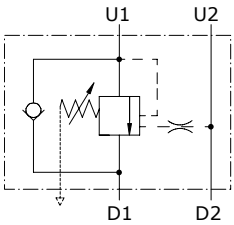
VOSL/N1116/PB



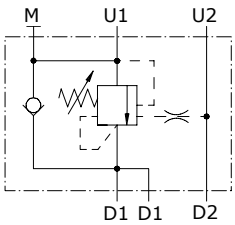
VOSL/R1116



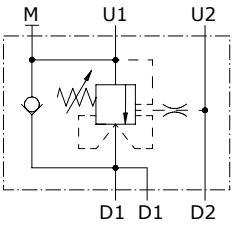
VOSL/V1116



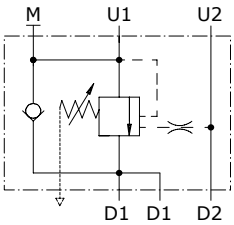
VOSL/N1116/F1



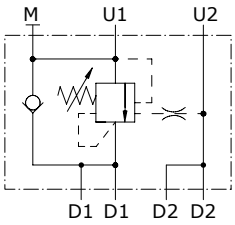
VOSL/R1116/F1



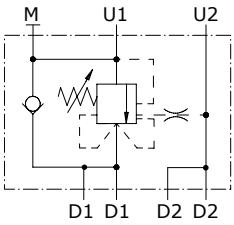
VOSL/V1116/F1



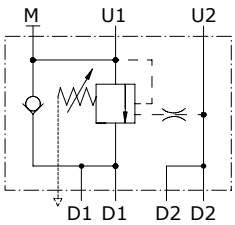
VOSL/N1116/F2



VOSL/R1116/F2

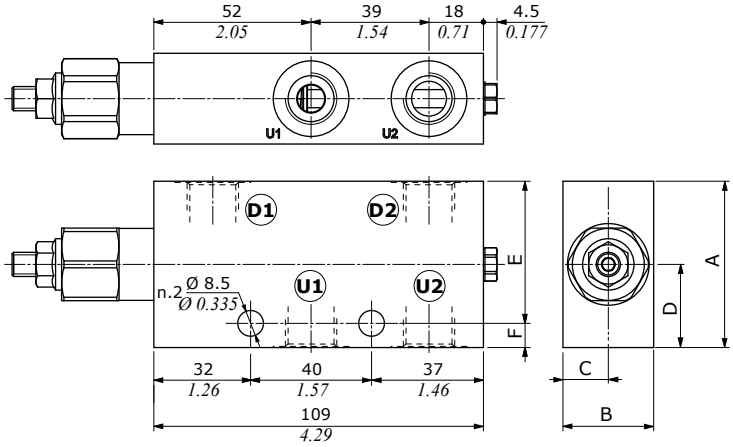


VOSL/V1116/F2

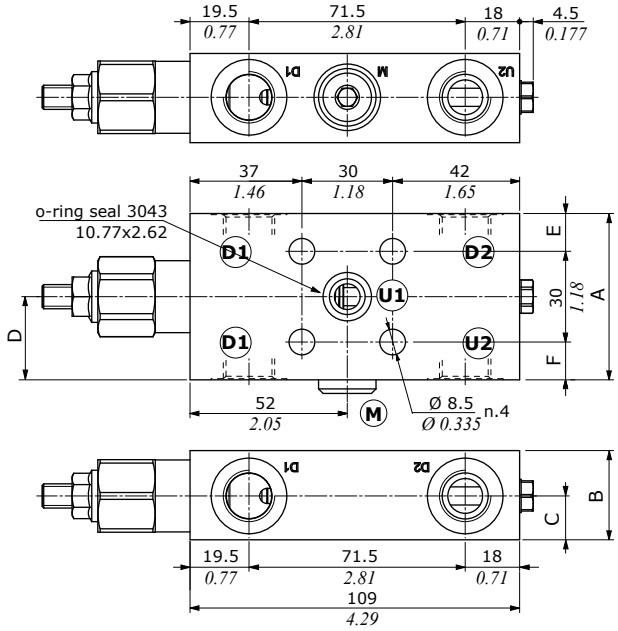


Dimensions

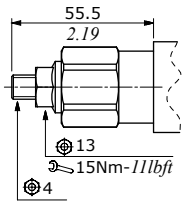
VOSL/...1116/38 - VOSL/...1116/12



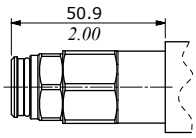
VOSL/...1116/38F1 - VOSL/...1116/12F1



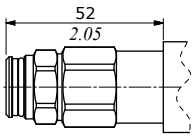
VOSL/N configuration



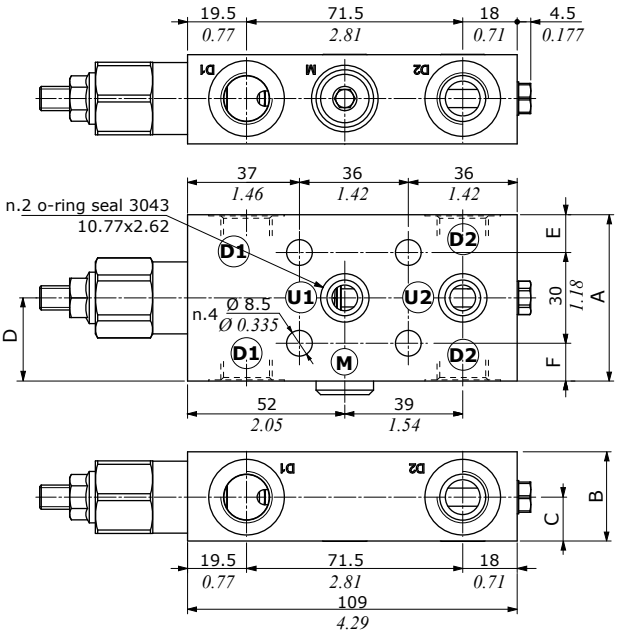
VOSL/R configuration



VOSL/V 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

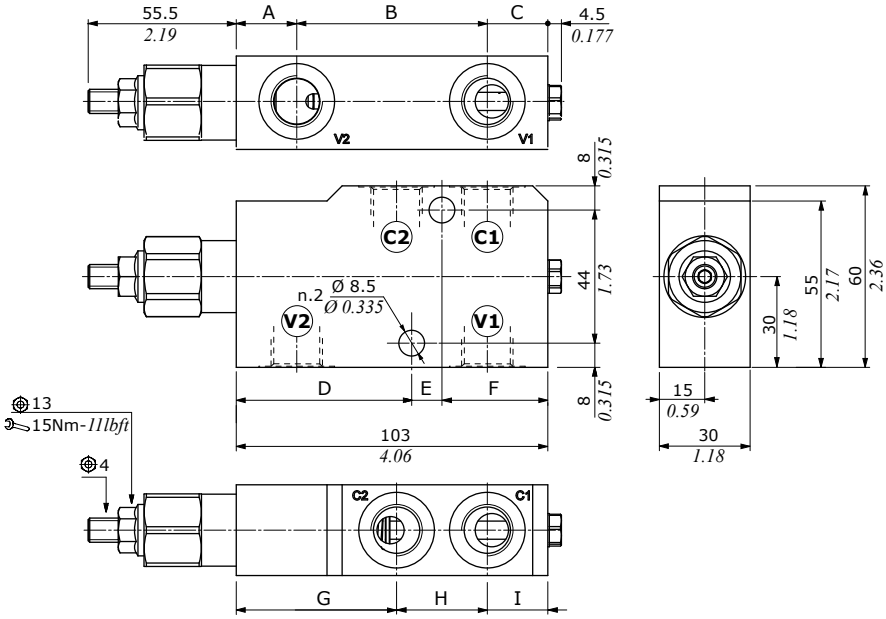
Dimensions are in mm-*in*

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

Ordering codes and description composition

Valve type	All ports
VOSL/N1116/38PB	G3/8
VOSL/N1116/12PB	G1/2

VOSL/N1116/38PB - VOSL/N1116/12PB



Dimensions are in mm-*in*

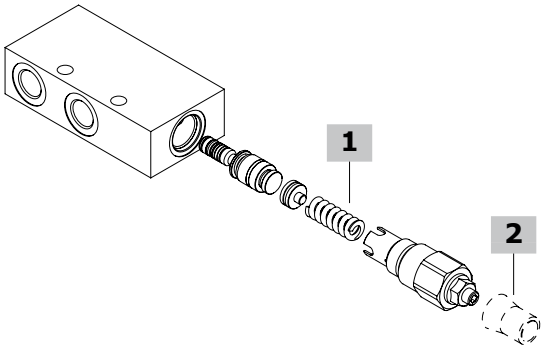
Valve type	A	B	C	D	E	F	G	H	I
VOSL/N1116/38PB	20-*0.79*	63-*2.48*	20-*0.79*	58-*2.28*	10-*0.394*	35-*1.38*	53-*2.09*	30-*1.18*	20-*0.79*
VOSL/N1116/12PB	20-*0.79*	69-*2.72*	14-*0.55*	60.5-*2.38*	10-*0.394*	32.5-*1.28*	53-*2.09*	36-*1.42*	14-*0.55*

Ordering codes and description composition

Port size

VOSL/N1116/38/G3.p4/ac

2 **1**



VOSL/N1116 complete valves

Load sensitive (N) configuration with G3/8 thread

Pilot ratio 1:4

TYPE: **VOSL/N1116/38/G3.p4/ac** CODE: 1514322101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi),* std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38/G5.p4/ac** CODE: 1514322100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38/G5.p4** CODE: 1514321100
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1116/38/G5.p8/ac** CODE:1514322104
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSL/N1116/38/G3.p0/ac** CODE: 1514322106
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi).* Std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38/G5.p0/ac** CODE: 1514322107
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/8 thread and F1 flange

TYPE: **VOSL/N1116/38F1/G5.p4/ac** CODE: 1515022100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38F1/G5.p8/ac** CODE: 1515022101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38F1/G5.p0/ac** CODE: 1515022102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/8 thread and F2 flange

TYPE: **VOSL/N1116/38F2/G5.p4/ac** CODE: 1515022103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38F2/G5.p8/ac** CODE: 1515022104
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38F2/G5.p0/ac** CODE: 1515022105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

VOSL/N1116 complete valves (continua)

Load sensitive (N) configuration with SAE8 thread

Pilot ratio 1:4

TYPE: **VOSL/N1116/S8/G3.p4/ac** CODE: 1514322200
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi),* std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8/G5.p4/ac** CODE: 1514322201
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8/G5.p4** CODE: 1514321200
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1116/S8/G5.p8/ac** CODE:1514322204
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSL/N1116/S8/G3.p0/ac** CODE: 1514322206
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi).* Std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8/G5.p0/ac** CODE: 1514322207
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE8 thread and F1 flange

TYPE: **VOSL/N1116/S8F1/G5.p4/ac** CODE: 1515022200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8F1/G5.p8/ac** CODE: 1515022201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8F1/G5.p0/ac** CODE: 1515022202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE8 thread and F2 flange

TYPE: **VOSL/N1116/S8F2/G5.p4/ac** CODE: 1515022203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8F2/G5.p8/ac** CODE: 1515022204
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/S8F2/G5.p0/ac** CODE: 1515022205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi),* std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Ordering codes and description composition

VOSL/N1116 complete valves

Load sensitive (N) configuration with G1/2 thread

TYPE: **VOSL/N1116/12/G5.p4/ac** CODE: 1514332100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12/G5.p8/ac** CODE: 1514332101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12/G5.p0/ac** CODE: 1514332102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12/G5.p4** CODE: 1514331100
DESCRIPTION: Aluminium body, pilot ratio 1:4 range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F1 flange

TYPE: **VOSL/N1116/12F1/G5.p4/ac** CODE: 1515032100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12F1/G5.p8/ac** CODE: 1515032101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12F1/G5.p0/ac** CODE: 1515032102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F1 flange

TYPE: **VOSL/N1116/12F2/G5.p4/ac** CODE: 1515032103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12F2/G5.p8/ac** CODE: 1515032104
DESCRIPTION: Steel body, pilot ratio 1:8. Range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/12F2/G5.p0/ac** CODE: 1515032105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

VOSL/N1116 complete valves

Load sensitive (N) configuration with SAE10 thread

TYPE: **VOSL/N1116/S10/G5.p4/ac** CODE: 1514332200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10/G5.p8/ac** CODE: 1514332201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10/G5.p0/ac** CODE: 1514332202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F1 flange

TYPE: **VOSL/N1116/S10F1/G5.p4/ac** CODE: 1515032200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10F1/G5.p8/ac** CODE: 1515032201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10F1/G5.p0/ac** CODE: 1515032202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F2 flange

TYPE: **VOSL/N1116/S10F2/G5.p4/ac** CODE: 1515032203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10F2/G5.p8/ac** CODE: 1515032204
DESCRIPTION: Steel body, pilot ratio 1:8. Range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1116/S10F2/G5.p0/ac** CODE: 1515032205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

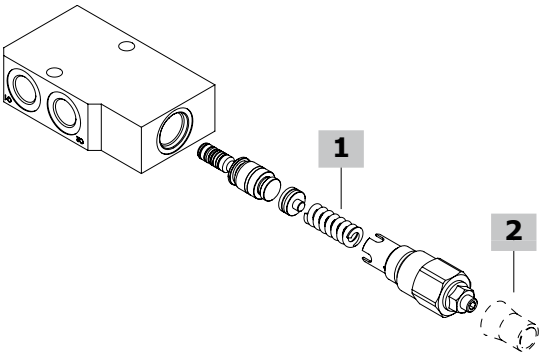
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Ordering codes and description composition

Port size

VOSL/N1116/38PB/G3.p4/ac

2 **1**



1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP130200	Antitampering cap

VOSL/N1116/PB complete valves

Load sensitive (N) configuration with G3/8 thread

Pilot ratio 1:4

TYPE: **VOSL/N1116/38PB/G3.p4/ac** CODE: 1554222101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/38PB/G5.p4/ac** CODE: 1514222100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1116/38PB/G5.p8/ac** CODE:1514222102
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSL/N1116/38PB/G5.p0/ac** CODE: 1514222103
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread

Pilot ratio 1:4

TYPE: **VOSL/N1116/12PB/G3.p4/ac** CODE: 1514232101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1116/12PB/G5.p4/ac** CODE: 1514232100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1116/12PB/G5.p8/ac** CODE:1514232102
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

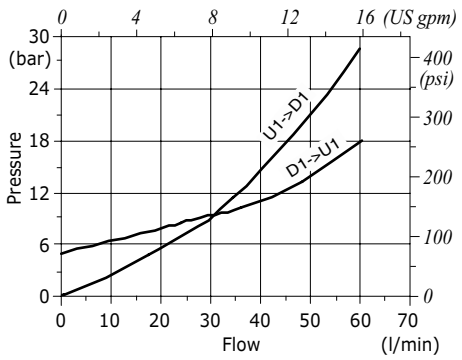
Zero differential pilot ratio

TYPE: **VOSL/N1116/12PB/G5.p0/ac** CODE: 1514232103
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

For other configurations please contact our Sales Dpt.

Ordering codes and description composition

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



Type VOSL/N1516 - VOSL/V1516 counterbalance valves

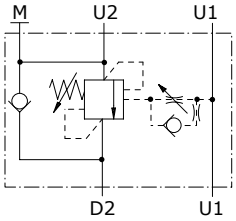
- Single acting
- Load Sensitive (type N)
- Vented (type V)
- Configuration with F1 and F2 flange

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

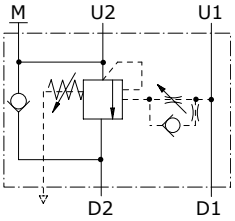
	VOSL/N1516 (12-34) - VOSL/V1516 (12-34)
Nominal flow	160 l/min *(42.3 US gpm)*
Max. pressure	350 bar[1] *(5100 psi)* - 400 bar[2] *(5800 psi)*
Oil leakage	0.5 cm^3/min *(0.030 in^3/min)* - 10 drops/min at 80% of pressure setting
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. level of contamination	18/16/13 ISO4406
Fluid temperature	*with NBR seals* from -20°C *(-4°F)* to 90°C *(194°F)*
Environmental temp. for working conditions	from -20°C *(-4°F)* to 50°C *(122°F)*
Weight	**VOSL/N1516/12:** 2.50 kg *(5.51 lb)* - **VOSL/N1516/34:** 3.30 kg *(7.27 lb)* **VOSL/V1516/12:** 2.50 kg *(5.51 lb)* - **VOSL/V1516/34:** 3.30 kg *(7.27 lb)*

NOTE - For different conditions, please contact Sales Dpt. - [1]According to NFPA T 2.6.1., fatigue rating verified for 1 million cycles on 6 sample valves with test Pressure = 1.23 x Max. pressure indicated - [2]Intermittent pressure at max. 100,000 cycles with specific internal testing.

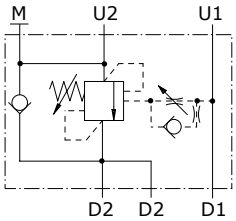
VOSL/N1516



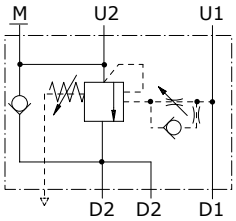
VOSL/V1516



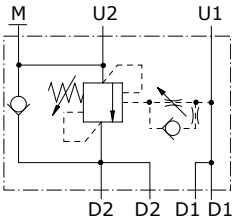
VOSL/N1516/F1



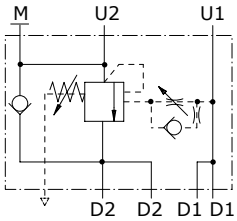
VOSL/V1516/F1



VOSL/N1516/F2

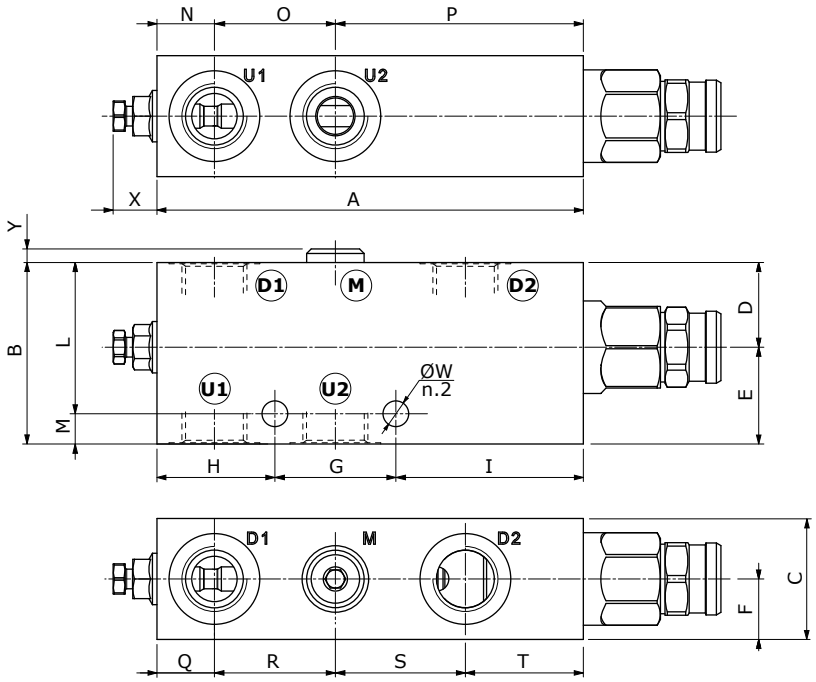


VOSL/V1516/F2

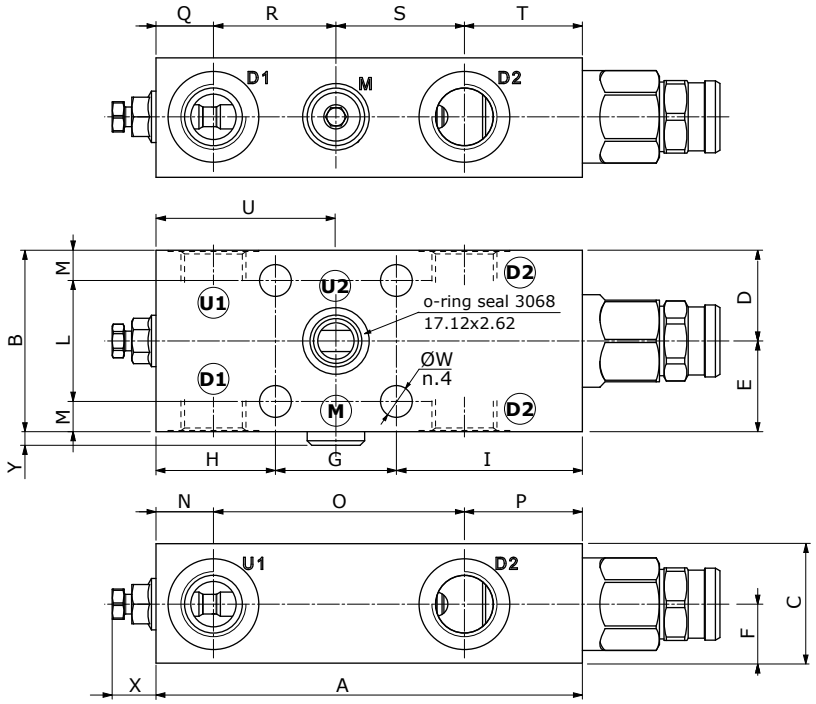


Dimensions

VOSL/...1516/12 - VOSL/...1516/34

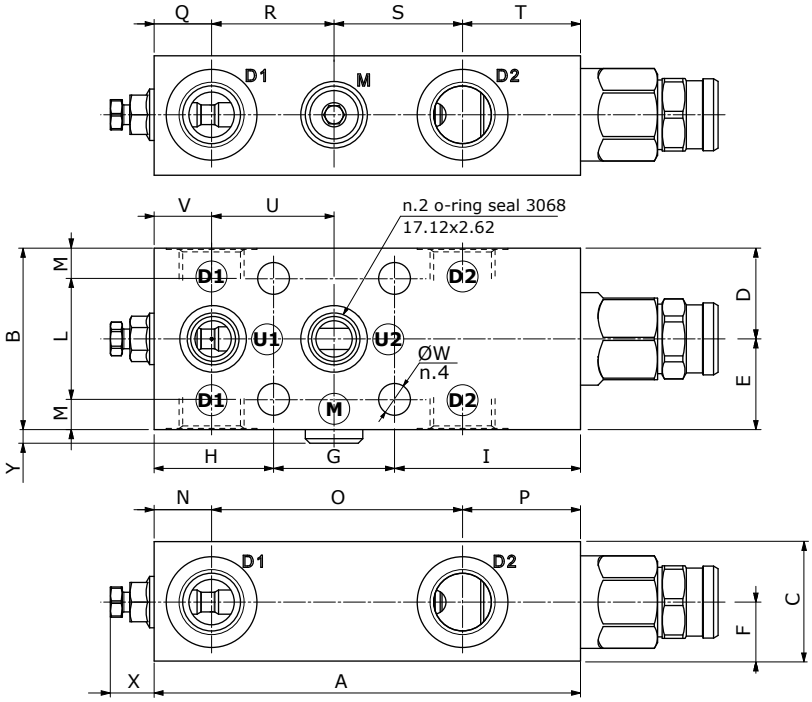


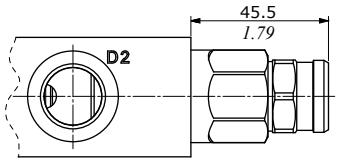
VOSL/...1516/12F1 - VOSL/...1516/34F1



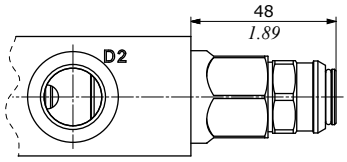
Dimensions

VOSL/...1516/12F2 - VOSL/...1516/34F2





VOSL/N configuration



VOSL/V configuration

Valve type	D1	D2	U1	U2	M
VOSL/...1516/12	G1/2	G1/2	G1/2	G1/2	G1/4
VOSL/...1516/34	G3/4	G3/4	G3/4	G3/4	G1/4
VOSL/...1516/12F1	G1/2	G1/2	G1/2	Ø12-*Ø0.472*	G1/4
VOSL/...1516/34F1	G3/4	G3/4	G3/4	Ø12-*Ø0.472*	G1/4
VOSL/...1516/12F2	G1/2	G1/2	Ø12-*Ø0.472*	Ø12-*Ø0.472*	G1/4
VOSL/...1516/34F2	G3/4	G3/4	Ø12-*Ø0.472*	Ø12-*Ø0.472*	G1/4

Valve type	D1	D2	U1	U2	M
VOSL/...1516/S10	SAE10	SAE10	SAE10	SAE10	G1/4
VOSL/...1516/S12	SAE12	SAE12	SAE12	SAE12	G1/4
VOSL/...1516/S10F1	SAE10	SAE10	SAE10	Ø12-*Ø0.472*	G1/4
VOSL/...1516/S12F1	SAE12	SAE12	SAE12	Ø12-*Ø0.472*	G1/4
VOSL/...1516/S10F2	SAE10	SAE10	Ø12-*Ø0.472*	Ø12-*Ø0.472*	G1/4
VOSL/...1516/S12F2	SAE12	SAE12	Ø12-*Ø0.472*	Ø12-*Ø0.472*	G1/4

Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G	H	I	L	M	N
VOSL/...1516/12 **VOSL/...1516/S10**	141-*5.55*	60-*2.36*	40-*1.57*	28-*1.10*	32-*1.26*	20-*0.79*	40-*1.57*	39-*1.54*	62-*2.44*	50-*1.97*	10-*0.394*	19-*0.75*
VOSL/...1516/34 **VOSL/...1516/S12**	147-*5.79*	80-*3.15*	40-*1.57*	39-*1.54*	41-*1.61*	20-*0.79*	40-*1.57*	45-*1.77*	62-*2.44*	60-*2.36*	20-*0.79*	22-*0.87*
VOSL/...1516/12F1 **VOSL/...1516/S10F1**	141-*5.55*	60-*2.36*	39.5-*1.56*	30-*118*	30-*118*	19.5-*0.77*	40-*1.57*	39.5-*1.56*	61.5-*2.42*	40-*1.57*	10-*0.394*	19-*0.75*
VOSL/...1516/34F1 **VOSL/...1516/S12F1**	147-*5.79*	80-*3.15*	39.5-*1.56*	40-*1.57*	40-*1.57*	19.5-*0.77*	40-*1.57*	45-*1.77*	62-*2.44*	40-*1.57*	20-*0.79*	22-*0.87*
VOSL/...1516/12F2 **VOSL/...1516/S10F2**	141-*5.55*	60-*2.36*	39.5-*1.56*	30-*1.18*	30-*1.18*	19.5-*0.77*	40-*1.57*	39.5-*1.56*	61.5-*2.42*	40-*1.57*	10-*0.394*	19-*0.75*
VOSL/...1516/34F2 **VOSL/...1516/S12F2**	147-*5.79*	80-*3.15*	39.5-*1.56*	40-*1.57*	40-*1.57*	19.5-*0.77*	40-*1.57*	45-*1.77*	62-*2.44*	40-*1.57*	20-*0.79*	22-*0.87*

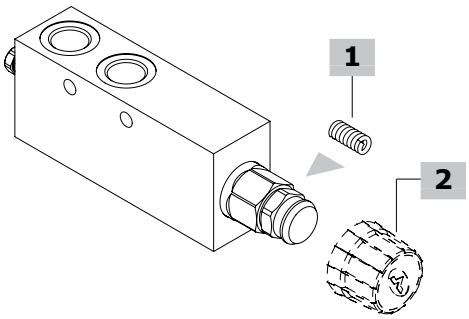
Valve type	O	P	Q	R	S	T	U	V	ØW	X(max)	Y
VOSL/...1516/12 **VOSL/...1516/S10**	40-*1.57*	82-*3.23*	19-*0.75*	40-*1.57*	43-*1.69*	39-*1.54*	-	-	8.5-*0.335*	22-*0.87*	4.5-*0.177*
VOSL/...1516/34 **VOSL/...1516/S12**	43-*1.69*	65-*2.56*	22-*0.87*	43-*1.69*	43-*1.69*	39-*1.54*	-	-	10.5-*0.413*	22-*0.87*	4.5-*0.177*
VOSL/...1516/12F1 **VOSL/...1516/S10**	83-*3.27*	39-*1.54*	19-*0.75*	40.5-*1.59*	42.5-*1.67*	39-*1.54*	59.5-*2.34*	-	10.5-*0.413*	22-*0.87*	4.5-*0.177*
VOSL/...1516/34F1 **VOSL/...1516/S12F1**	86-*3.39*	39-*1.54*	22-*0.87*	43-*1.69*	43-*1.69*	39-*1.54*	65-*2.56*	-	10.5-*0.413*	22-*0.87*	4.5-*0.177*
VOSL/...1516/12F2 **VOSL/...1516/S10F2**	83-*3.27*	39-*1.54*	19-*0.75*	40.5-*1.59*	42.5-*1.67*	39-*1.54*	40-*1.57*	19.5-*0.77*	10.5-*0.413*	22-*0.87*	4.5-*0.177*
VOSL/...1516/34F2 **VOSL/...1516/S12F2**	86-*3.39*	39-*1.54*	22-*0.87*	43-*1.69*	43-*1.69*	39-*1.54*	43-*1.69*	22-*0.87*	10.5-*0.413*	22-*0.87*	4.5-*0.177*

Ordering codes and description composition

Port size

VOSL/N1516/12/G3.p4.PR/ac

2 1



VOSL/N1516 Complete valves

Load sensitive (N) configuration with G1/2 thread

Pilot ratio 1:4

TYPE: **VOSL/N1516/12/G3.p4.PR/ac** CODE: 1514632100
DESCRIPTION: Steel body, range 100-210 bar *(1450-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12/G5.p4.PR/ac** CODE: 1514632101
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12/G7.p4.PR/ac** CODE: 1514632102
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1516/12/G5.p8.PR/ac** CODE: 1514632104
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12/G7.p8.PR/ac** CODE: 1514632105
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSL/N1516/12/G3.p0.PR/ac** CODE: 1514632106
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12/G5.p0.PR/ac** CODE: 1514632107
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12/G7.p0.PR/ac** CODE: 1514632108
DESCRIPTION: Steel body, range 150-400 bar *(2175-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F1 flange

TYPE: **VOSL/N1516/12F1/G5.p4.PR/ac** CODE: 1515632100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12F1/G5.p8.PR/ac** CODE: 1515632101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12F1/G5.p0.PR/ac** CODE: 1515632102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F2 flange

TYPE: **VOSL/N1516/12F2/G5.p4.PR/ac** CODE: 1515632103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12F2/G5.p8.PR/ac** CODE: 1515632104
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/12F2/G5.p0.PR/ac** CODE: 1515632105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* 5 l/min *(1.32 US gpm)*

VOSL/N1516 Complete valves

Load sensitive (N) configuration with SAE10 thread

Pilot ratio 1:4

TYPE: **VOSL/N1516/S10/G3.p4.PR/ac** CODE: 1514632200
DESCRIPTION: Steel body, range 100-210 bar *(1450-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10/G5.p4.PR/ac** CODE: 1514632201
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10/G7.p4.PR/ac** CODE: 1514632202
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VOSL/N1516/S10/G5.p8.PR/ac** CODE: 1514632204
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10/G7.p8.PR/ac** CODE: 1514632205
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VOSL/N1516/S10/G3.p0.PR/ac** CODE: 1514632206
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10/G5.p0.PR/ac** CODE: 1514632207
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10/G7.p0.PR/ac** CODE: 1514632208
DESCRIPTION: Steel body, range 150-400 bar *(2175-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F1 flange

TYPE: **VOSL/N1516/S10F1/G5.p4.PR/ac** CODE: 1515632200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10F1/G5.p8.PR/ac** CODE: 1515632201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10F1/G5.p0.PR/ac** CODE: 1515632202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F2 flange

TYPE: **VOSL/N1516/S10F2/G5.p4.PR/ac** CODE: 1515632203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10F2/G5.p8.PR/ac** CODE: 1515632204
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VOSL/N1516/S10F2/G5.p0.PR/ac** CODE: 1515632205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* 5 l/min *(1.32 US gpm)*

Ordering codes and description composition

VOSL/N1516 Complete valves

Load sensitive (N) configuration with G3/4 thread

TYPE: **VOSL/N1516/34/G5.p4.PR/ac** CODE: 1514642100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34/G5.p8.PR/ac** CODE: 1514642101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34/G5.p0.PR/ac** CODE: 1514642102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/4 thread and F1 flange

TYPE: **VOSL/N1516/34F1/G5.p4.PR/ac** CODE: 1515642100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34F1/G5.p8.PR/ac** CODE: 1515642101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34F1/G5.p0.PR/ac** CODE: 1515642102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/4 thread and F2 flange

TYPE: **VOSL/N1516/34F2/G5.p4.PR/ac** CODE: 1515642103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34F2/G5.p8.PR/ac** CODE: 1515642104
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/34F2/G5.p0.PR/ac** CODE: 1515642105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

VOSL/N1516 Complete valves

Load sensitive (N) configuration with SAE12 thread

TYPE: **VOSL/N1516/S12/G5.p4.PR/ac** CODE: 1514642200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12/G5.p8.PR/ac** CODE: 1514642201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12/G5.p0.PR/ac** CODE: 1514642202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE12 thread and F1 flange

TYPE: **VOSL/N1516/S12F1/G5.p4.PR/ac** CODE: 1515642200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12F1/G5.p8.PR/ac** CODE: 1515642201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12F1/G5.p0.PR/ac** CODE: 1515642202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE12 thread and F2 flange

TYPE: **VOSL/N1516/S12F2/G5.p4.PR/ac** CODE: 1515642203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12F2/G5.p8.PR/ac** CODE: 1515642204
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VOSL/N1516/S12F2/G5.p0.PR/ac** CODE: 1515642205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

1 Pressure setting spring

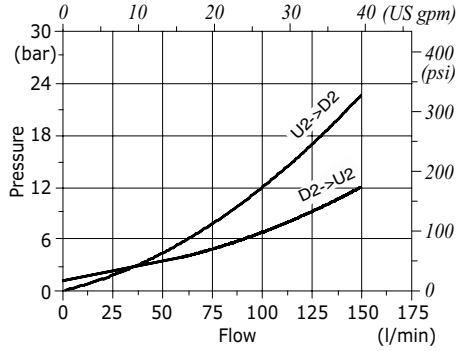
TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3MOL316450	For range 100-210 bar *(1450-3050 psi)*
5	3MOL316430	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316411	For range 200-400 bar *(2900-5800 psi)*
For 1:8 pilot ratio		
5	3MOL316450	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316430	For range 200-400 bar *(2900-5800 psi)*

2 Antitampering cap

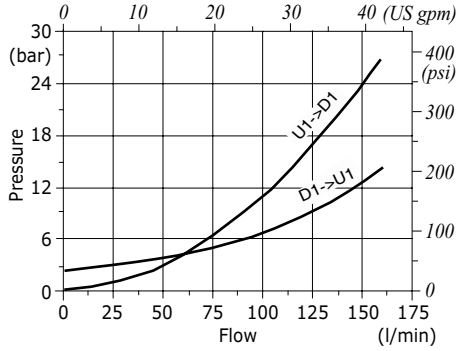
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP140311	Antitampering cap

Rating diagrams

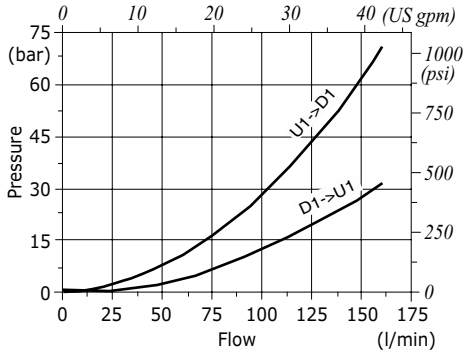
VOSL/(N-V) 1516 (12-34) pressure drop vs. flow from D2->U2 and U2->D2



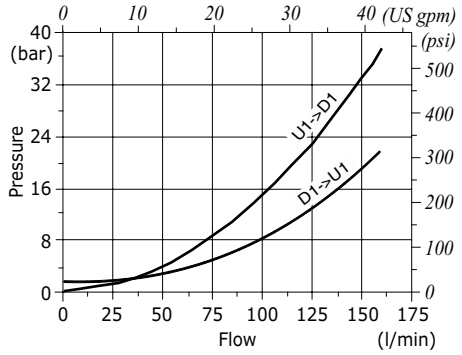
VOSL/(N-V) 1516 (12-34) pressure drop vs. flow from D1->U1 and U1->D1 pilot ratio 1:4



VOSL/(N-V) 1516 (12-34) pressure drop vs. flow from D1->U1 and U1->D1 pilot ratio 1:8



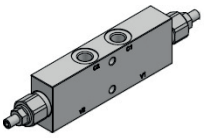
VOSL/(N-V) 1516 (12-34) pressure drop vs. flow from D1->U1 and U1->D1 zero differential pilot ratio

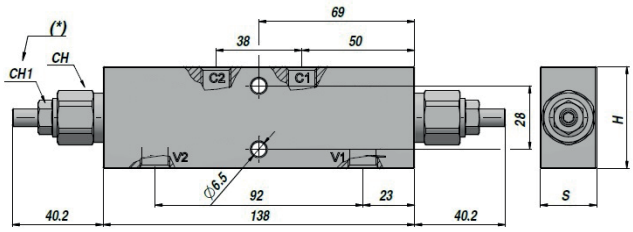


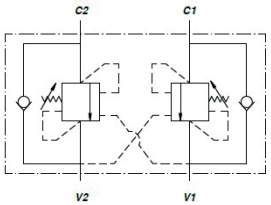
VODL-N78

DOUBLE EFFET
DOUBLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE







Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG412.1042B0	1/4"	1/4"	-	40	350	1:4	VODL/N78	22	13	45	25	1,25

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 100-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 60-220 bar (Réglage standard - *Standard setting* 150 bar)

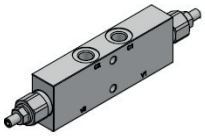
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

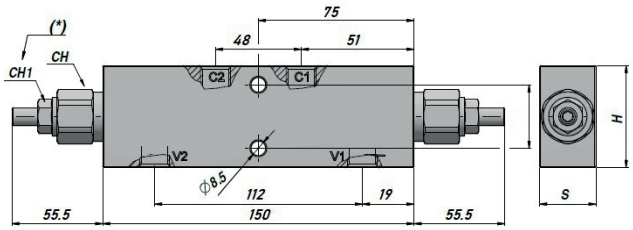
MONTAGE EN LIGNE
LINE MOUNTING

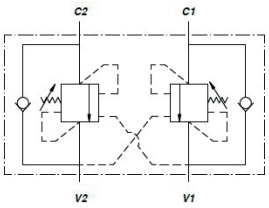
VODL-N1116

DOUBLE EFFET
DOUBLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE







Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG412.2042B0	3/8"	3/8"	-	60	350	1:4	VODL/N1116/38	24	13	55	30	1.91
VSG412.3042B0	1/2"	1/2"	-	60	350	1:4	VODL/N1116/12	24	13	65	35	2.55

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 150-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 50-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

Disponibilités & Tarifs en ligne sur **www.unidro-contarini.com/fr/disponibilites-tarifs**
*Availability & Rates online on **www.unidro-contarini.com/fr/disponibilites-tarifs/***

La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

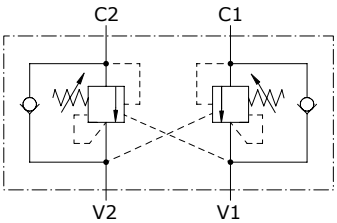
Type VODL/N78 /....
counterbalance valves

- Double acting
- Load sensitive

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

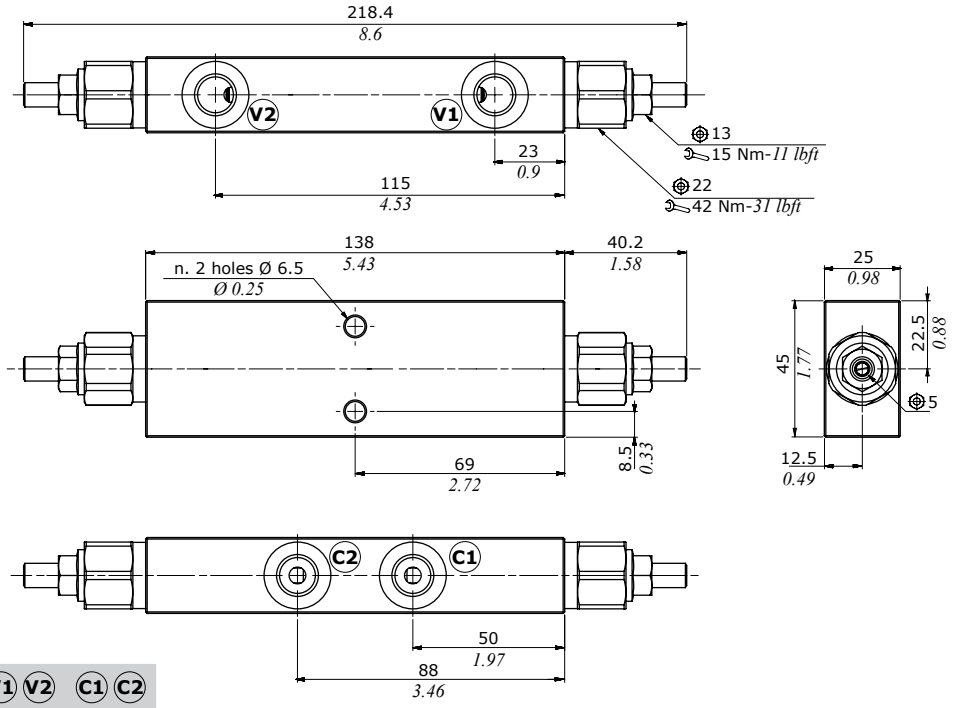
	VODL/N78 - VODL/N78/..PB
Nominal flow	40 l/min *(10.57 US gpm)*
Max. pressure	Steel body = 350 bar *(5100 psi)*
Oil leakage	0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 80% of pressure setting
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. level of contamination	18/16/13 ISO4406
Fluid temperature	*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)*
steel	1.25 kg *(2.75 lb)*

NOTE - For different conditions, please contact Sales Dpt.



Dimensions

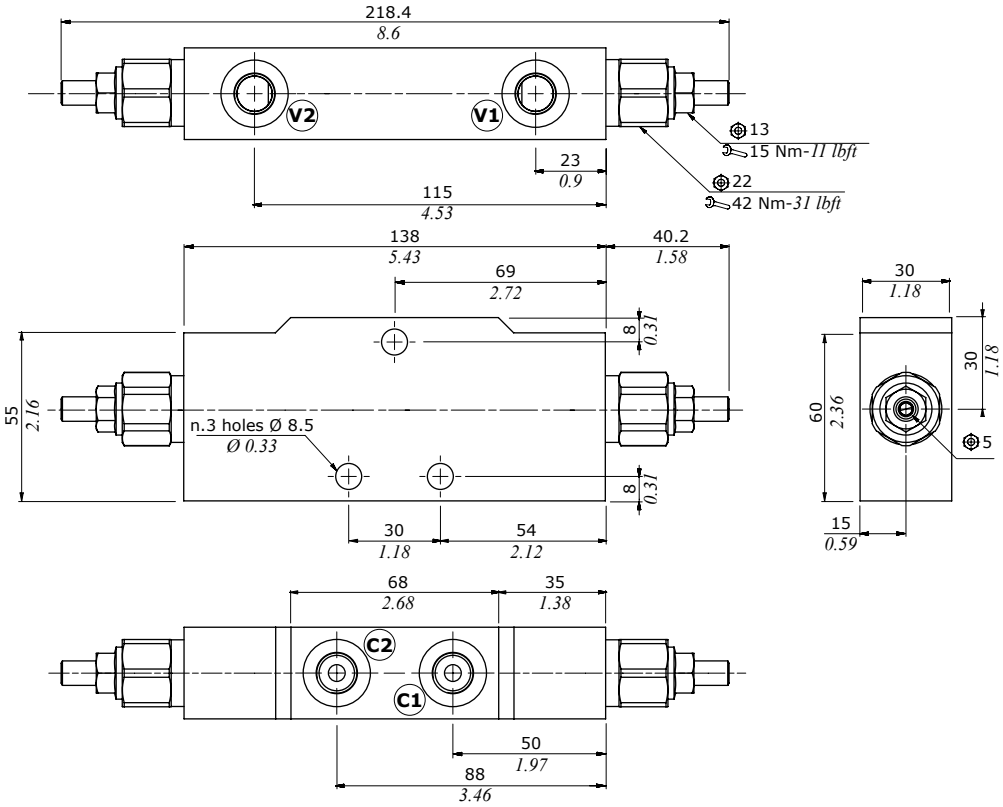
VODL/N78/14



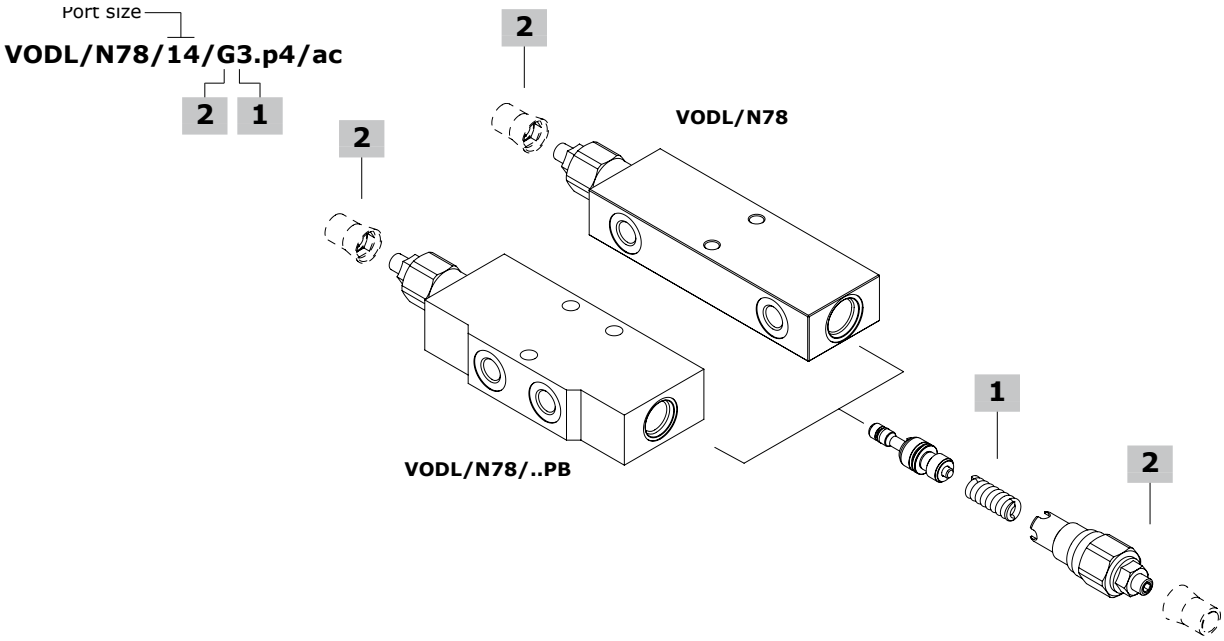
Tipo valvola	V1	V2	C1	C2
VODL/N78/14	G1/4		G1/4	
VODL/N78/14PB	G1/4		G1/4	

Tipo valvola	V1	V2	C1	C2
VODL/N78/S6	SAE6		SAE6	

VODL/N78/14PB



Ordering codes and description composition



VODL/N78 complete valves

TYPE: **VODL/N78/14/G5.p4/ac** CODE: 1553612100
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N78/14/G3.p4/ac** CODE: 1553612101
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N78/S6/G5.p4/ac** CODE: 1553612200
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N78/S6/G3.p4/ac** CODE: 1553612201
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*

VODL/N78....PB complete valves

TYPE: **VODL/N78/14PB/G5.p4/ac** CODE: 1553712100
DESCRIPTION: Steel body, pilot ratio 1:4, range 100-350 bar *(1450-5075 psi)*, standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N78/14PB/G3.p4/ac** CODE: 1553712101
DESCRIPTION: Steel body, pilot ratio 1:4, range 60-220 bar *(870-3190 psi)*, standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*

1 Pressure setting spring

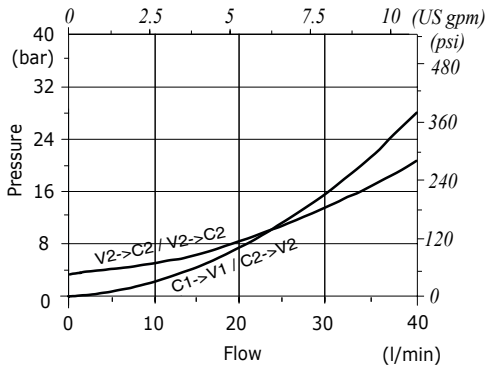
TYPE	CODE	DESCRIPTION
For 1:4 pilot ratio		
3	3MOL310282	For range 60-220 bar *(870-3190 psi)* standard setting 150 bar *(2170 psi)* @ 5 l/min *(1.32 US gpm)*
5	380113	For range 100-350 bar *(1450-5075 psi)* standard setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

2 Setting type

TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Rating diagrams

Pressure drop vs. flow from C2->V2 and V2->C2



Type VODL/N1116 - VODL/R1116 counterbalance valves

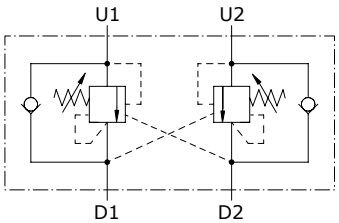
- Double acting
- Load Sensitive (type N)
- Relief Compensated (type R)

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

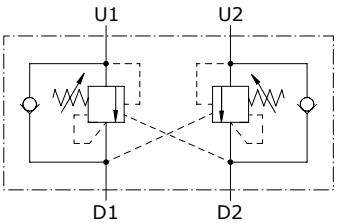
	VODL/N1116 (38-12) - VODL/R1116 (38-12)
Nominal flow	60 l/min *(15.9 US gpm)*
Max. pressure	Aluminium body = 210 bar *(3050 psi)* Steel body = 350 bar *(5100 psi)*
Oil leakage	0.25 cm^3/min - *0.015 in^3/min.* (5 drops) at 210 bar - *3050 psi*
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. 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*	**VODL/N1116/38:** 0.91 kg *(2.01 lb)* - **VODL/N1116/12:** 1.13 kg *(2.49 lb)* **VODL/R1116/38:** 1.06 kg *(2.34 lb)* - **VODL/R1116/12:** 1.29 kg *(2.84 lb)*
Weight *steel*	**VODL/N1116/38:** 1.91 kg *(4.21 lb)* - **VODL/N1116/12:** 2.55 kg *(5.62 lb)* **VODL/N1116/38PB:** - **VODL/N1116/12PB:** **VODL/R1116/38:** 2.06 kg *(4.54 lb)* - **VODL/R1116/12:** 2.69 kg *(5.93 lb)*

NOTE - For different conditions, please contact Sales Dpt.

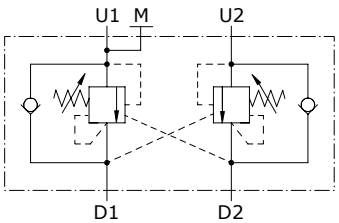
VODL/N1116
VODL/N1116/F2



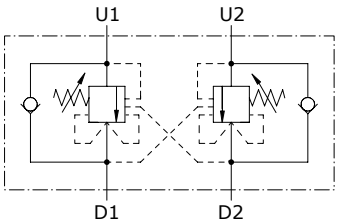
VODL/N1116/PB



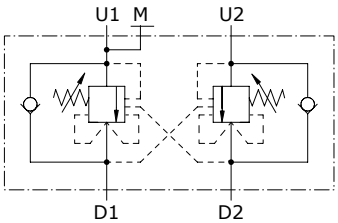
VODL/N1116/F1



VODL/R1116
VODL/R1116/F2

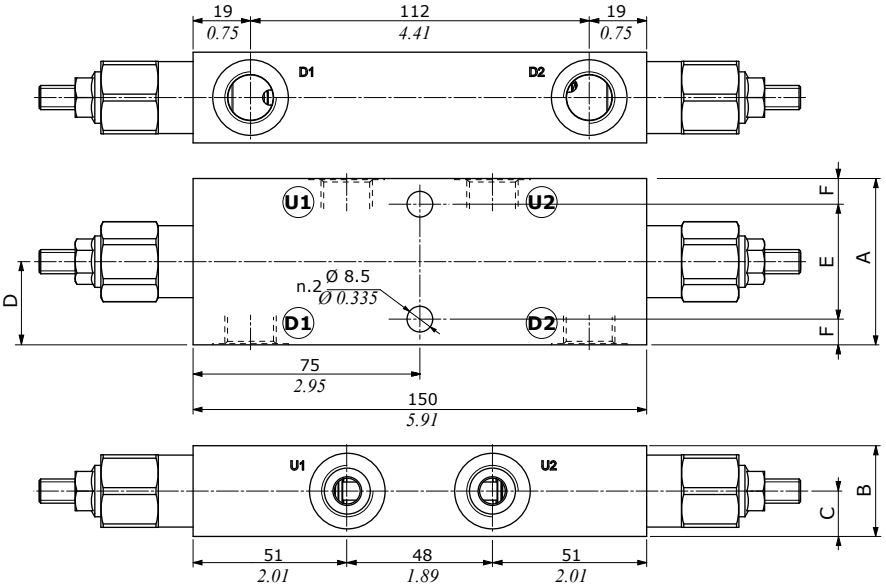


VODL/R1116/F1

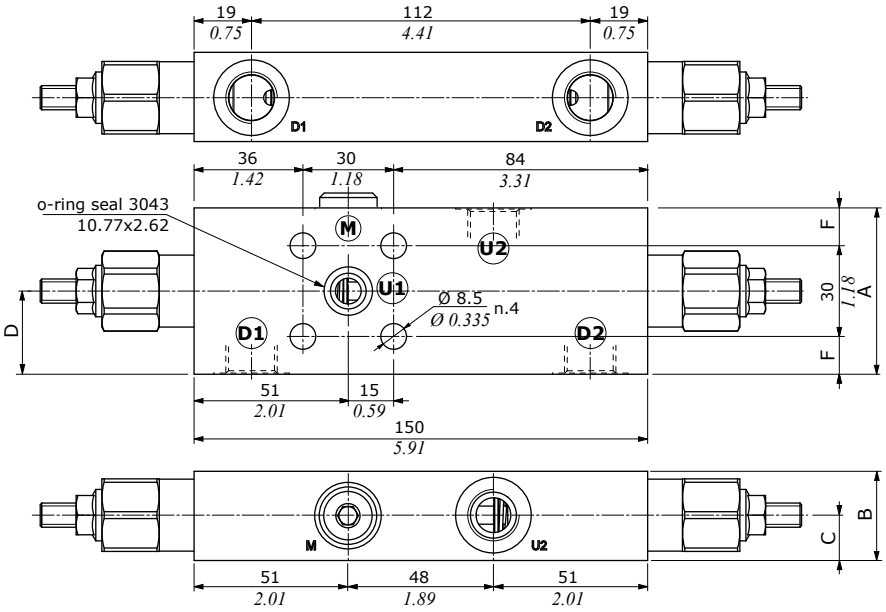


Dimensions

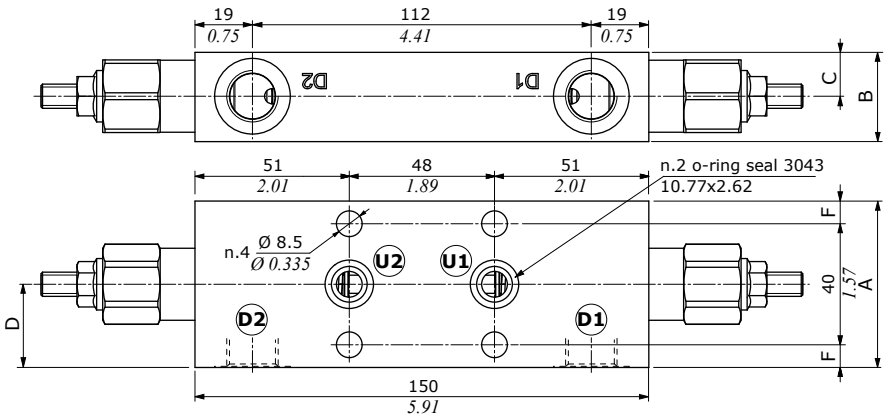
VODL/...1116/38 - VODL/...1116/12



VODL/...1116/38F1 - VODL/...1116/12F1

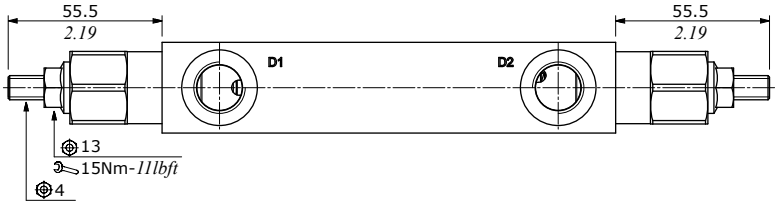


VODL/...1116/38F2 - VODL/...1116/12F2

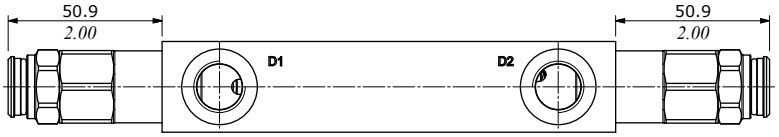


Dimensions

VODL/N configuration



VODL/R configuration



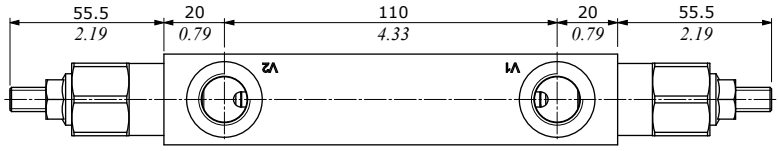
Valve type	D1	D2	U1	U2	M
VODL/...1116/38	G3/8	G3/8	G3/8	G3/8	-
VODL/...1116/12	G1/2	G1/2	G1/2	G1/2	-
VODL/...1116/38F1	G3/8	G3/8	Ø8.5 - *Ø0.335*	G3/8	G1/4
VODL/...1116/12F1	G1/2	G1/2	Ø8.5 - *Ø0.335*	G1/2	G1/4
VODL/...1116/38F2	G3/8	G3/8	Ø8.5 - *Ø0.335*	Ø8.5 - *Ø0.335*	-
VODL/...1116/12F2	G1/2	G1/2	Ø8.5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

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

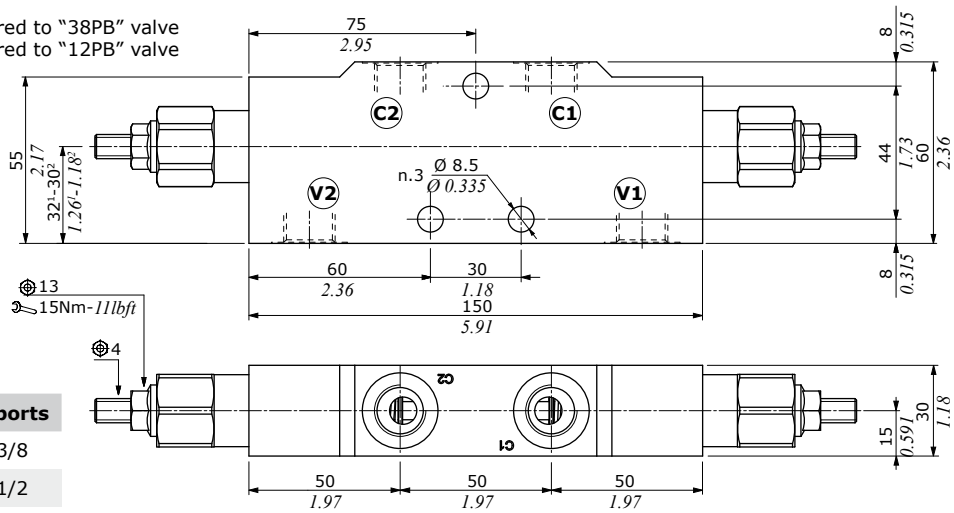
Dimensions are in mm-*in*

Valve type	A	B	C	D	E	F	G
VODL/...1116/38 **VODL/...1116/S8**	55 *2.17*	30 *1.18*	15 *0.59*	27.5 *1.08*	38 *1.50*	8.5 *0.334*	8.5 *0.334*
VODL/...1116/12 **VODL/...1116/S10**	65 *2.26*	35 *1.38*	17.5 *0.69*	32.5 *1.28*	43 *1.69*	11 *0.433*	11 *0.433*
VODL/...1116/38F1 **VODL/...1116/s8F1**	55 *2.17*	29.5 *1.16*	15 *0.59*	27.5 *1.08*	30 *1.18*	7.5 *0.295*	7.5 *0.295*
VODL/...1116/12F1 **VODL/...1116/S10F1**	65 *2.26*	34.5 *1.36*	17 *0.67*	32.5 *1.28*	30 *1.18*	17.5 *0.69*	17.5 *0.69*
VODL/...1116/38F2 **VODL/...1116/S8F2**	55 *2.17*	29.5 *1.16*	14.5 *0.57*	27.5 *1.08*	40 *1.57*	7.5 *0.295*	7.5 *0.295*
VODL/...1116/12F2 **VODL/...1116/S10F2**	65 *2.26*	34.5 *1.36*	17 *0.67*	32.5 *1.28*	40 *1.57*	12.5 *0.49*	12.5 *0.49*

VODL/N1116/38PB - VODL/N1116/12PB



NOTES
(¹): dimension referred to "38PB" valve
(²): dimension referred to "12PB" valve



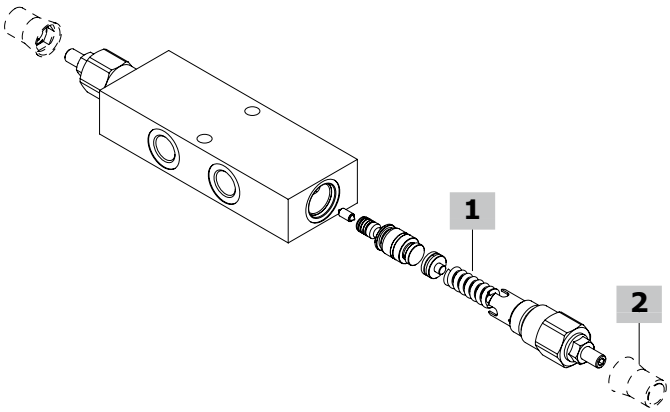
Valve type	All ports
VODL/N1116/38PB	G3/8
VODL/N1116/12PB	G1/2

Ordering codes and description composition

Port size

VODL/N1116/38/G3.p4/ac

2 **1**



VODL/N1116 complete valves

Load sensitive (N) configuration with G3/8 thread

Pilot ratio 1:4

TYPE: **VODL/N1116/38/G3.p4/ac** CODE: 1554322103
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38/G5.p4/ac** CODE: 1554322100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38/G5.p4** CODE: 1554321100
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VODL/N1116/38/G5.p8/ac** CODE: 1554322106
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VODL/N1116/38/G3.p0/ac** CODE: 1554322108
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38/G5.p0/ac** CODE: 1554322109
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/8 thread and F1 flange

TYPE: **VODL/N1116/38F1/G5.p4/ac** CODE: 1555122100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38F1/G5.p8/ac** CODE: 1555122101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38F1/G5.p0/ac** CODE: 1555122102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/8 thread and F2 flange

TYPE: **VODL/N1116/38F2/G5.p4/ac** CODE: 1555122103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38F2/G5.p8/ac** CODE: 1555122104
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38F2/G5.p0/ac** CODE: 1555122105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

VODL/N1116 complete valves

Load sensitive (N) configuration with SAE8 thread

Pilot ratio 1:4

TYPE: **VODL/N1116/S8/G3.p4/ac** CODE: 1554322200
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8/G5.p4/ac** CODE: 1554322201
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8/G5.p4** CODE: 1554321200
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VODL/N1116/S8/G5.p8/ac** CODE: 1554322204
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VODL/N1116/S8/G3.p0/ac** CODE: 1554322206
DESCRIPTION: Steel body, range 5-210 bar *(72.5-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8/G5.p0/ac** CODE: 1554322207
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE8 thread and F1 flange

TYPE: **VODL/N1116/S8F1/G5.p4/ac** CODE: 1555122200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8F1/G5.p8/ac** CODE: 1555122201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8F1/G5.p0/ac** CODE: 1555122202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE8 thread and F2 flange

TYPE: **VODL/N1116/S8F2/G5.p4/ac** CODE: 1555122203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8F2/G5.p8/ac** CODE: 1555122204
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/S8F2/G5.p0/ac** CODE: 1555122205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Dimensions

VODL/N1116 complete valves

Load sensitive (N) configuration with G1/2 thread

TYPE: **VODL/N1116/12/G5.p4/ac** CODE: 1554332100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12/G5.p8/ac** CODE: 1554332101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12/G5.p0/ac** CODE: 1554332102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12/G5.p4** CODE: 1554331100
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F1 flange

TYPE: **VODL/N1116/12F1/G5.p4/ac** CODE: 1555132100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12F1/G5.p8/ac** CODE: 1555132101
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12F1/G5.p0/ac** CODE: 1555132102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F2 flange

TYPE: **VODL/N1116/12F2/G5.p4/ac** CODE: 1555132103
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12F2/G5.p8/ac** CODE: 1555132104
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/12F2/G5.p0/ac** CODE: 1555132105
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

VODL/N1116 complete valves

Load sensitive (N) configuration with SAE10 thread

TYPE: **VODL/N1116/S10/G5.p4/ac** CODE: 1554332200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10/G5.p8/ac** CODE: 1554332201
DESCRIPTION: Steel body, pilot ratio 1:8, range 5-350 bar *(72.5-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10/G5.p0/ac** CODE: 1554332202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10/G5.p4** CODE: 1554331201
DESCRIPTION: Aluminium body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F1 flange

TYPE: **VODL/N1116/S10F1/G5.p4/ac** CODE: 1555132200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10F1/G5.p8/ac** CODE: 1555132201
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10F1/G5.p0/ac** CODE: 1555132202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F2 flange

TYPE: **VODL/N1116/S10F2/G5.p4/ac** CODE: 1555132203
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10F2/G5.p8/ac** CODE: 1555132204
DESCRIPTION: Steel body, pilot ratio 1:8, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1116/S10F2/G5.p0/ac** CODE: 1555132205
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

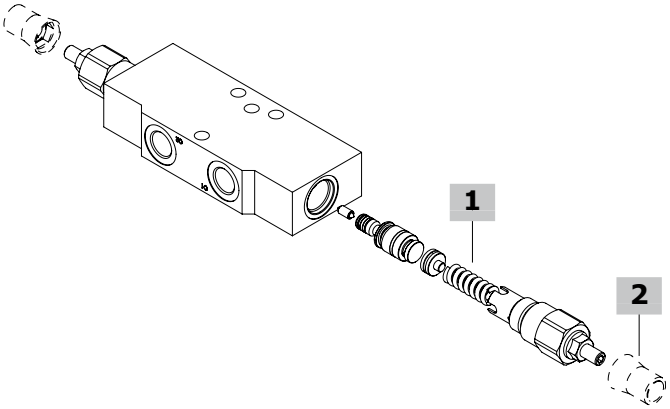
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

Rating diagrams

Port size

VODL/N1116/38PB/G3.p4/ac

2 **1**



1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3ML1133201	For range 50-210 bar *(725-3050 psi)*
5	3ML1133200	For range 150-350 bar *(2175-5075 psi)*
For 1:8 pilot ratio		
5	3ML1133201	For range 180-350 bar *(2610-5075 psi)*

2 Setting type

TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP120420	Antitampering cap

VODL/N1116/PB complete valves

Load sensitive (N) configuration with G3/8 thread

Pilot ratio 1:4

TYPE: **VODL/N1116/38PB/G3.p4/ac** CODE: 1555422101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/38PB/G5.p4/ac** CODE: 1555422100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VODL/N1116/38PB/G5.p8/ac** CODE: 1555422102
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VODL/N1116/38PB/G5.p0/ac** CODE: 1555422103
DESCRIPTION: Steel body, range 5-350 bar *(72.5-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread

Pilot ratio 1:4

TYPE: **VODL/N1116/12PB/G3.p4/ac** CODE: 1555432101
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1116/2PB/G5.p4/ac** CODE: 1555432100
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VODL/N1116/12PB/G5.p8/ac** CODE: 1555432102
DESCRIPTION: Steel body, range 180-350 bar *(2610-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

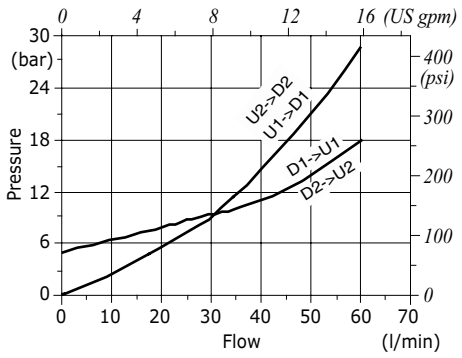
Zero differential pilot ratio

TYPE: **VODL/N1116/12PB/G5.p0/ac** CODE: 1555432103
DESCRIPTION: Steel body, range 5-350 bar *(72.5-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

For other configurations please contact our Sales Dpt.

Rating diagrams

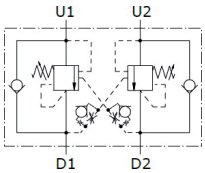
VODL/(N-R) 1116 (38-12) pressure drop vs. flow from D1->U1 and U1->D1 (D2->U2 and U2->D2)

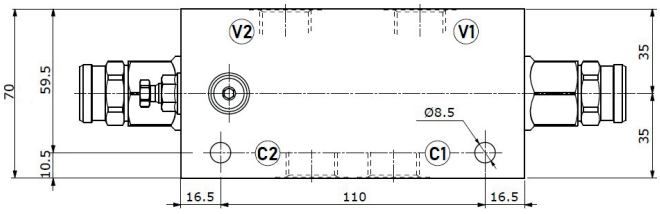


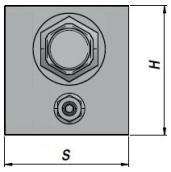
VALVE D'EQUILIBRAGE
OVERCENTER VALVE

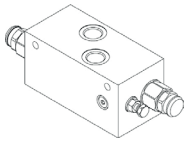
DOUBLE EFFET
DOUBLE ACTING

VODL-N1516-CS









Code *Code*	V1-V2 BSP	C1-C2 BSP	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
VSG412.4040B0	3/4"	3/4"	-	160	350	1:4	VODL/N1516/CS	27	24	70	70	5.3

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "5" 150-350 bar (Réglage standard - *Standard setting* 280 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "3" 100-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

Type VODL/N1516/CS - VODL/V1516/CS counterbalance valves

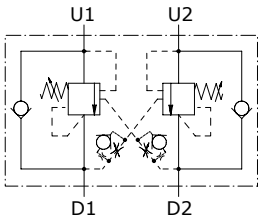
- Double acting
- Load Sensitive (type N)
- Vented (type V)

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

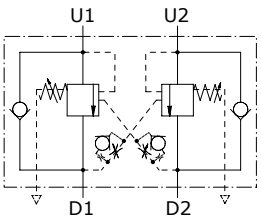
	VODL/N1516/CS (12-34) - VODL/V1516/CS (12-34)
Nominal flow	160 l/min *(42.3 US gpm)*
Max. pressure	350 bar[1] *(5100 psi)* - 400 bar[2] *(5800 psi)*
Oil leakage	0.5 cm^3/min *(0.030 in^3/min)* - 10 drops/min at 80% of pressure setting
Fluid	mineral based oil
Viscosity	from 10 to 200 cSt
Max. level of contamination	18/16/13 ISO4406
Fluid temperature	*with NBR seals* from -20°C *(-4°F)* to 90°C *(194°F)*
Environmental temp. for working conditions	from -20°C *(-4°F)* to 50°C *(122°F)*
Weight	**VODL/N1516/CS/12:** 5.40 kg *(11.90 lb)* - **VODL/N1516/CS/34:** 5.30 kg *(11.68 lb)* **VODL/V1516/CS/12:** 5.40 kg *(11.90 lb)* - **VODL/V1516/CS/34:** 5.30 kg *(11.68 lb)*

NOTE - For different conditions, please contact Sales Dpt. - [1]According to NFPA T 2.6.1., fatigue rating verified for 1 million cycles on 6 sample valves with test Pressure = 1.23 x Max. pressure indicated - [2]Intermittent pressure at max. 100,000 cycles with specific internal testing.

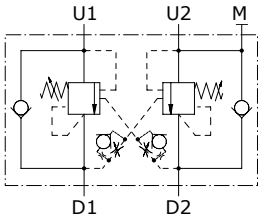
VODL/N1516/CS



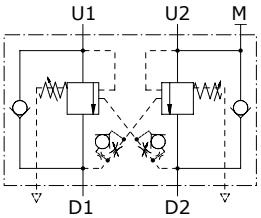
VODL/V1516/CS



VODL/N1516/CS/F2

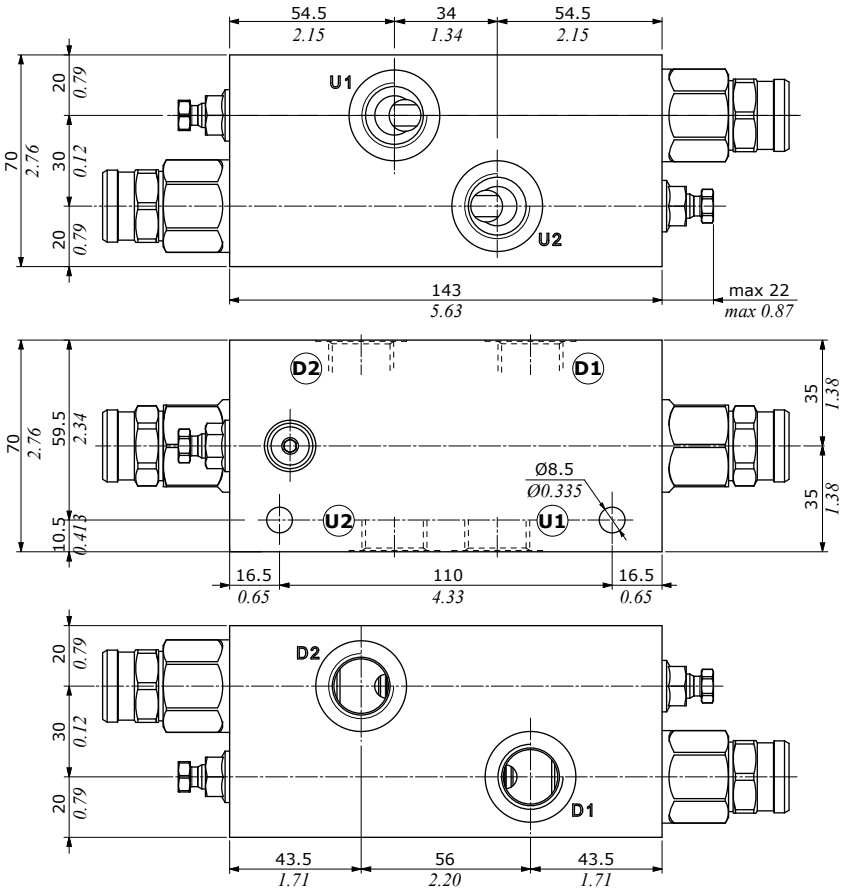


VODL/V1516/CS/F2



Dimensions

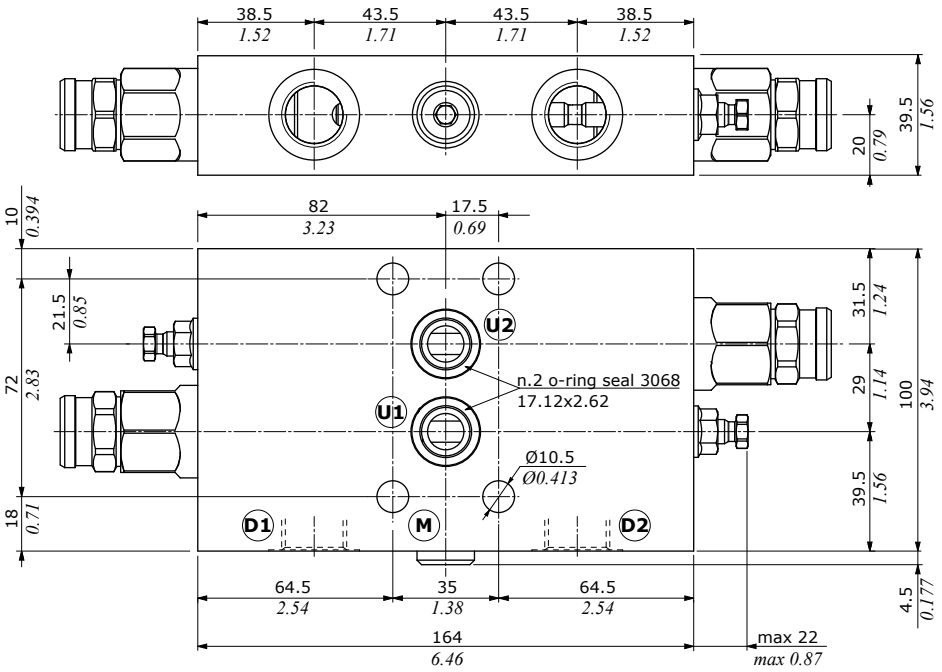
VODL/...1516/CS/12 - VODL/...1516/CS/34



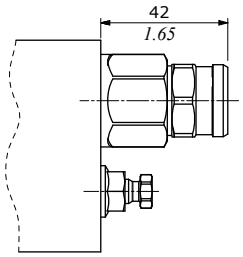
Valve type	D1 D2	U1 U2	M
VODL/...1516/CS/12	G1/2	G1/2	-
VODL/...1516/CS/34	G3/4	G3/4	-
VODL/...1516/CS/12F2	G1/2	Ø12 *Ø0.472*	G1/4
VODL/...1516/CS/34F2	G3/4	Ø12 *Ø0.472*	G1/4

Valve type	D1 D2	U1 U2	M
VODL/...1516/CS/S10	SAE10	SAE10	-
VODL/...1516/CS/S12	SAE12	SAE12	-
VODL/...1516/CS/S10F2	SAE10	Ø12 *Ø0.472*	G1/4
VODL/...1516/CS/S12F2	SAE12	Ø12 *Ø0.472*	G1/4

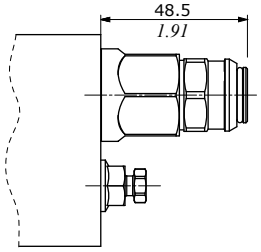
VODL/...1516/CS/12F2 - VODL/...1516/CS/34F2



VODL/N configuration



VODL/V configuration

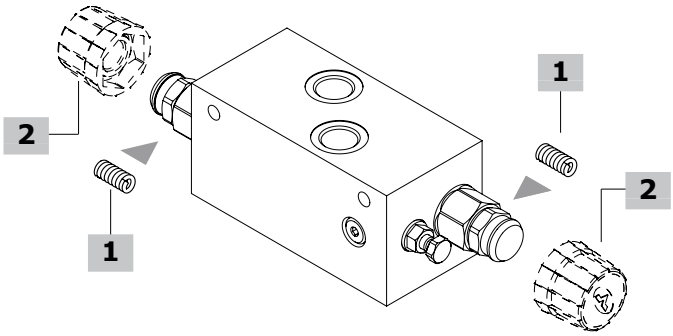


Ordering codes and description composition

Port size

VODL/N1516/CS/12/G3.p4.PR/ac

2 **1**



VODL/N1516 Complete valves

Load sensitive (N) configuration with G1/2 thread

Pilot ratio 1:4

TYPE: **VODL/N1516/CS/12/G3.p4.PR/ac** CODE: 1556532100
DESCRIPTION: Steel body, range 100-210 bar *(1450-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12/G5.p4.PR/ac** CODE: 1556532101
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12/G7.p4.PR/ac** CODE: 1556532102
DESCRIPTION: range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Pilot ratio 1:8

TYPE: **VODL/N1516/CS/12/G5.p8.PR/ac** CODE: 1556532104
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12/G7.p8.PR/ac** CODE: 1556532105
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VODL/N1516/CS/12/G3.p0.PR/ac** CODE: 1556532106
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12/G5.p0.PR/ac** CODE: 1556532107
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12/G7.p0.PR/ac** CODE: 1556532108
DESCRIPTION: Steel body, range 150-400 bar *(2175-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min*(1.32 US gpm)*

Load sensitive (N) configuration with G1/2 thread and F2 flange

TYPE: **VODL/N1516/CS/12F2/G5.p4.PR/ac** CODE: 1557032100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12F2/G5.p8.PR/ac** CODE: 1557032101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/12F2/G5.p0.PR/ac** CODE: 1557032102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread

Pilot ratio 1:4

TYPE: **VODL/N1516/CS/S10/G3.p4.PR/ac** CODE: 1556532200
DESCRIPTION: Steel body, range 100-210 bar *(1450-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10/G5.p4.PR/ac** CODE: 1556532201
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10/G7.p4.PR/ac** CODE: 1556532202
DESCRIPTION: range 300-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

VODL/N1516 Complete valves (continue)

Load sensitive (N) configuration with SAE10 thread

Pilot ratio 1:8

TYPE: **VODL/N1516/CS/S10/G5.p8.PR/ac** CODE: 1556532204
DESCRIPTION: Steel body, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10/G7.p8.PR/ac** CODE: 1556532205
DESCRIPTION: Steel body, range 200-400 bar *(2900-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min *(1.32 US gpm)*

Zero differential pilot ratio

TYPE: **VODL/N1516/CS/S10/G3.p0.PR/ac** CODE: 1556532206
DESCRIPTION: Steel body, range 50-210 bar *(725-3050 psi)*, std setting 150 bar *(2175 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10/G5.p0.PR/ac** CODE: 1556532207
DESCRIPTION: Steel body, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10/G7.p0.PR/ac** CODE: 1556532208
DESCRIPTION: Steel body, range 150-400 bar *(2175-5800 psi)*, std setting 350 bar *(5075 psi)* @ 5 l/min*(1.32 US gpm)*

Load sensitive (N) configuration with SAE10 thread and F2 flange

TYPE: **VODL/N1516/CS/S10F2/G5.p4.PR/ac** CODE: 1557032200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10F2/G5.p8.PR/ac** CODE: 1557032201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

TYPE: **VODL/N1516/CS/S10F2/G5.p0.PR/ac** CODE: 1557032202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*

1 Pressure setting spring

TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3MOL316450	For range 100-210 bar *(725-3050 psi)*
5	3MOL316430	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316411	For range 200-400 bar *(2900-5800 psi)*
For 1:8 pilot ratio		
5	3MOL316450	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316430	For range 200-400 bar *(2900-5800 psi)*

2 Antitampering cap

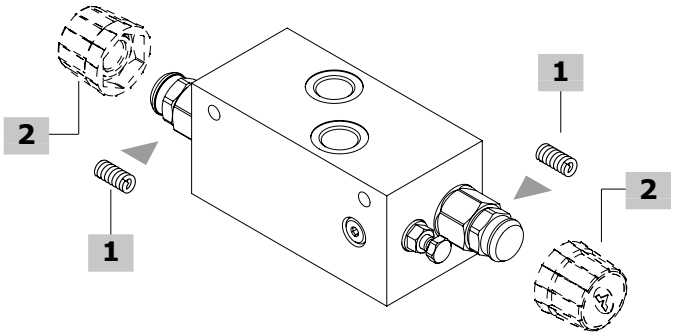
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP140311	Antitampering cap

Ordering codes and description composition

Port size

VODL/N1516/CS/34/G3.p4.PR/ac

2 **1**



VODL/N1516 Complete valves

Load sensitive (N) configuration with G3/4 thread

TYPE: **VODL/N1516/CS/34/G5.p4.PR/ac** CODE: 1556542100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/34/G5.p8.PR/ac** CODE: 1556542101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/34/G5.p0.PR/ac** CODE:1556542102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with G3/4 thread and F2 flange

TYPE: **VODL/N1516/CS/34F2/G5.p4.PR/ac** CODE: 1557042100
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/34F2/G5.p8.PR/ac** CODE: 1557042101
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/34F2/G5.p0.PR/ac** CODE: 1557042102
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

VODL/N1516 Complete valves

Load sensitive (N) configuration with SAE12 thread

TYPE: **VODL/N1516/CS/S12/G5.p4.PR/ac** CODE: 1556542200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/S12/G5.p8.PR/ac** CODE: 1556542201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/S12/G5.p0.PR/ac** CODE: 1556542202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* 5 l/min *(1.32 US gpm)*

Load sensitive (N) configuration with SAE12 thread and F2 flange

TYPE: **VODL/N1516/CS/S12F2/G5.p4.PR/ac** CODE: 1557042200
DESCRIPTION: Steel body, pilot ratio 1:4, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/S12F2/G5.p8.PR/ac** CODE: 1557042201
DESCRIPTION: Steel body, pilot ratio 1:8, range 150-350 bar *(2175-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
TYPE: **VODL/N1516/CS/S12F2/G5.p0.PR/ac** CODE: 1557042202
DESCRIPTION: Steel body, zero differential pilot ratio, range 50-350 bar *(725-5075 psi)*, std setting 280 bar *(4060 psi)* @ 5 l/min *(1.32 US gpm)*
For other configurations please contact our Sales Dpt.

1 Pressure setting spring

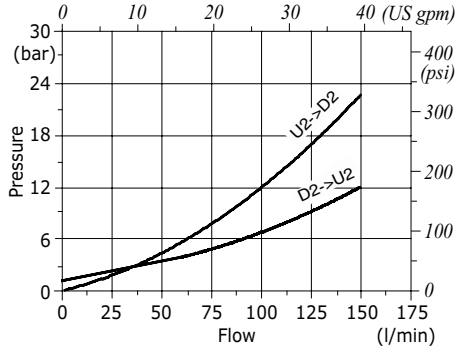
TYPE	CODE	DESCRIPTION
For 1:4 and zero differential pilot ratio		
3	3MOL316450	For range 100-210 bar *(1450-3050 psi)*
5	3MOL316430	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316411	For range 200-400 bar *(2900-5800 psi)*
For 1:8 pilot ratio		
5	3MOL316450	For range 150-350 bar *(2175-5075 psi)*
7	3MOL316430	For range 200-400 bar *(2900-5800 psi)*

2 Antitampering cap

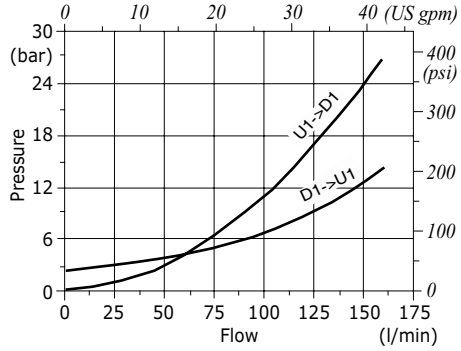
TYPE	CODE	DESCRIPTION
G	-	Screw setting
Z	4COP140311	Antitampering cap

Rating diagrams

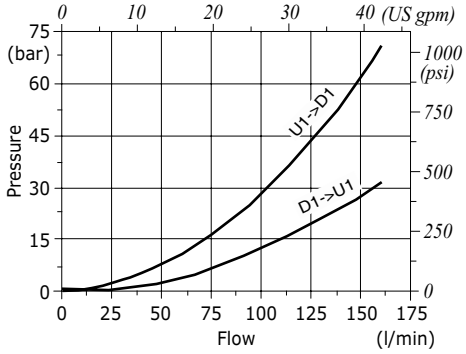
VODL/(N-V) 1516/CS (12-34) pressure drop vs. flow from D2->U2 and U2->D2



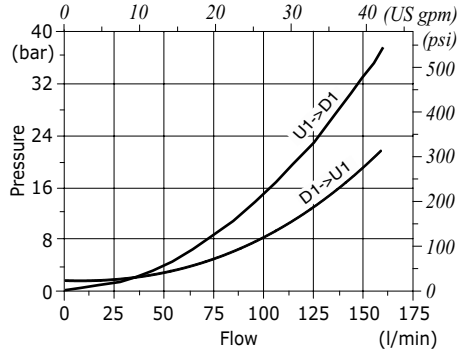
VODL/(N-V) 1516/CS (12-34) pressure drop vs. flow from D1->U1 and U1->D1 pilot ratio 1:4



VODL/(N-V) 1516/CS (12-34) pressure drop vs. flow from D1->U1 and U1->D1 pilot ratio 1:8



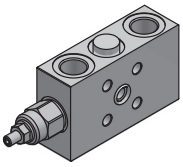
VODL/(N-V) 1516/CS (12-34) pressure drop vs. flow from D1->U1 and U1->D1 zero differential pilot ratio

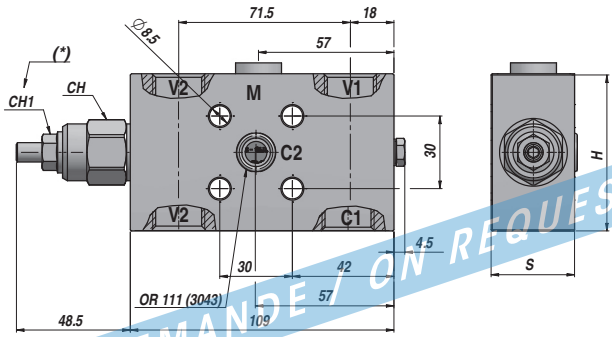


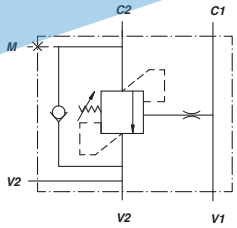
VOSL-N1116

SIMPLE EFFET
SINGLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE







Code *Code*	V1-V2 BSP	C1 BSP	C2	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
V515022106	3/8"	3/8"	ø8.5	1/4"	60	350	1:4	VOSL/N1116/38F1/G5.p4/ac	24	13	55	29.5	1,30
V515032106	1/2"	1/2"	ø8.5	1/4"	60	350	1:4	VOSL/N1116/12F1/G5.p4/ac	24	13	65	34.5	1,75

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "G5" 50-350 bar (Réglage standard - *Standard setting* 350 bar)

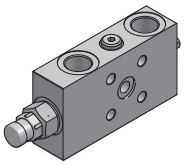
SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "G3" 5-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

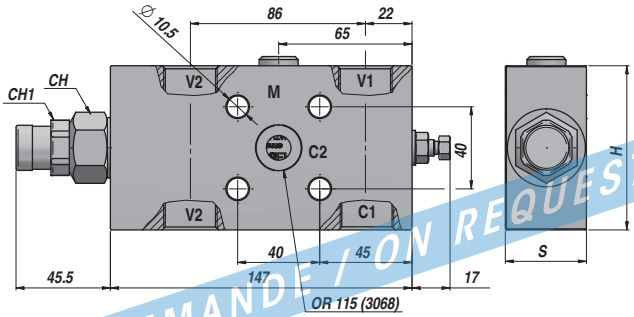
MATERIEL CORPS : ACIER — FLASQUABLE
BODY MATERIAL : STEEL — *FACE MOUNTING*

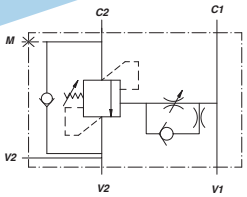
VOSL-N1516

SIMPLE EFFET
SINGLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE







Code *Code*	V1-V2 BSP	C1 BSP	C2	M BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	CH	CH1	H	S	kg
V515642106	3/4"	3/4"	ø14.8	1/4"	150	400	1:4	VOSL/N1516/34F1/G7.p4.PR/ac	27	24	80	39.5	3,00

RESSORT - *SPRING* : Type "G7" 150-400 bar (Réglage standard - *Standard setting* 350 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "G3" 5-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

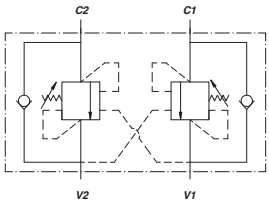
MATERIEL CORPS : ACIER — FLASQUABLE
BODY MATERIAL : STEEL — *FACE MOUNTING*

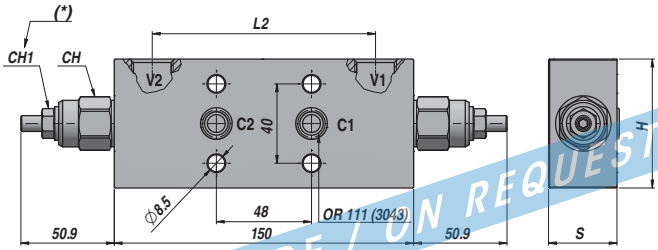
SUR DEMANDE / ON REQUEST

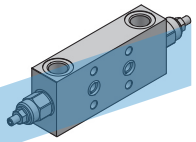
VALVE D'EQUILIBRAGE
OVERCENTER VALVE

DOUBLE EFFET
DOUBLE ACTING

VODL-N1116







SUR DEMANDE / ON REQUEST

Code *Code*	V1-V2 BSP	C1-C2	M	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L2	CH	CH1	H	S	kg
V555122106	3/8"	Ø8.5	-	60	350	1:4	VODL/N1116/38F2/G5.p4/ac	112	24	13	55.0	29.5	1,80
V555132107	1/2"	Ø8.5	-	60	350	1:4	VODL/N1116/12F2/G5.p4/ac	112	24	13	65.0	34.5	2,40

(*)= CH1 : Couple de serrage - *Tightening torque* : Max 15 Nm

RESSORT - *SPRING* : Type "G5" 50-350 bar (Réglage standard - *Standard setting* 350 bar)

SUR DEMANDE - *ON REQUEST* :
RESSORT - *SPRING* : Type "G3" 5-210 bar (Réglage standard - *Standard setting* 150 bar)
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

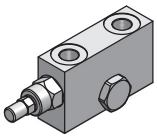
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

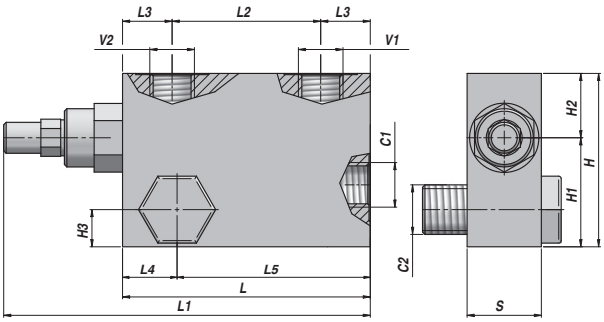
FLASQUABLE
FACE MOUNTING

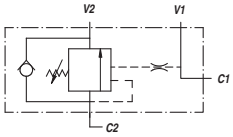
VBCD/A SE-FLV

SIMPLE EFFET *SINGLE ACTING*

VALVE D'EQUILIBRAGE *OVERCENTER VALVE*







Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	H1	H2	H3	H	S	kg
V2190.0392FLV	3/8"	3/8"	40	350	1:4.5	VBCD/A SE-FLV 3/8"	100	150	60	20	22	78	40	30	15	70	30	1,35
V2190.0412FLV	1/2"	1/2"	60	350	1:4.5	VBCD/A SE-FLV 1/2"	100	150	60	20	24	76	40	30	15	70	30	1,31

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

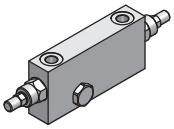
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

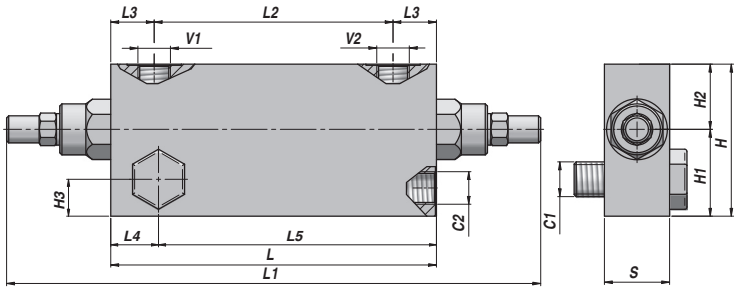
MONTAGE SUR VERIN
CYLINDER MOUNTING

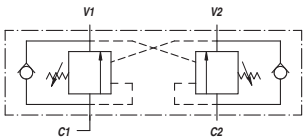
VBCD/A DE-FLV

DOUBLE EFFET *DOUBLE ACTING*

VALVE D'EQUILIBRAGE *OVERCENTER VALVE*







Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	H1	H2	H3	H	S	kg
V2290.0422FLV	3/8"	3/8"	40	350	1:4.5	VBCD/A DE-FLV 3/8"	150	250	110	20	22	128	44	26	17	70	30	2,41
V2290.0432FLV	1/2"	1/2"	60	350	1:4.5	VBCD/A DE-FLV 1/2"	150	250	110	20	24	126	50	30	19	80	30	2,70

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE SUR VERIN
CYLINDER MOUNTING

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*Availability & Rates online on **www.unidro-contarini.com/fr/disponibilites-tarifs/***

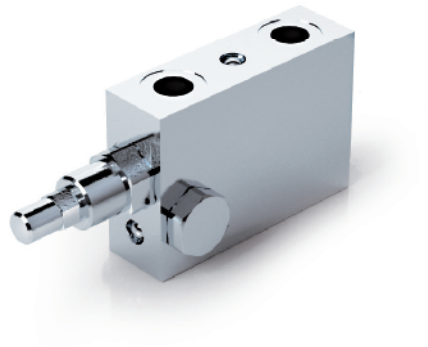
La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO TIPO A CON FISSAGGIO A VITE

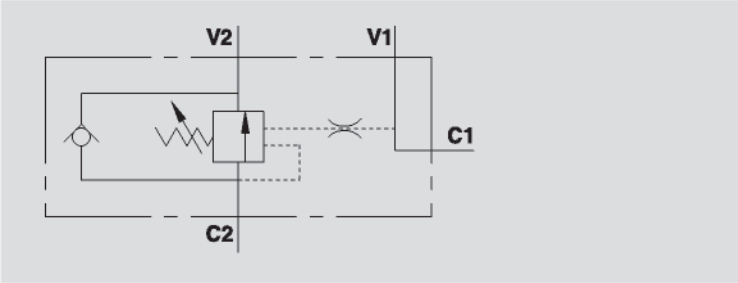
SINGLE OVERCENTRE VALVES FIXING BY SCREW

TIPO / TYPE

VBCD SE A FLV



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Lo speciale attacco a vite, fornita con la valvola, consente il montaggio della valvola direttamente sull'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore con flusso libero e flangiare C2 al lato dell'attuatore dove si desidera la tenuta tramite l'apposita vite.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent anycavitation of the actuator. The special connection by screw, supplied with the valve, enables direct mounting of the valve onto the actuator.

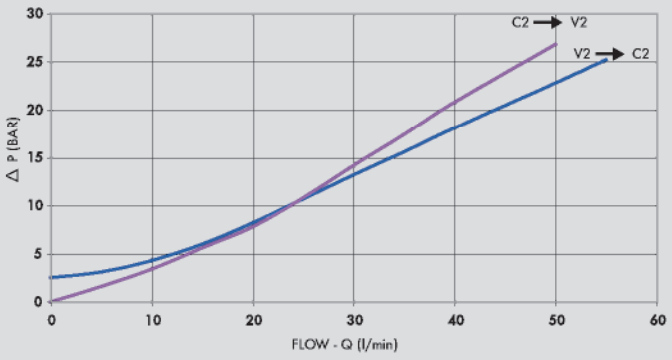
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and using the bolt connect the flange C2 directly to the actuator side you want the flow to be blocked.

ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

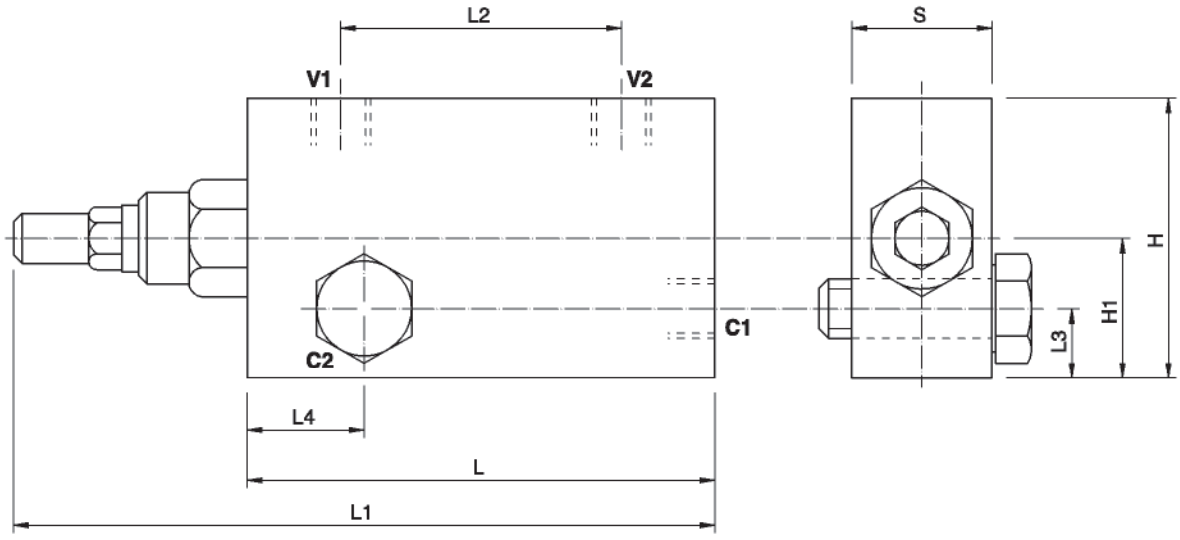
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt



CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0392/FLV	VBCD 3/8" SE A FLV	1:4,5	40	350
V0412/FLV	VBCD 1/2" SE A FLV	1:4,5	60	350

3



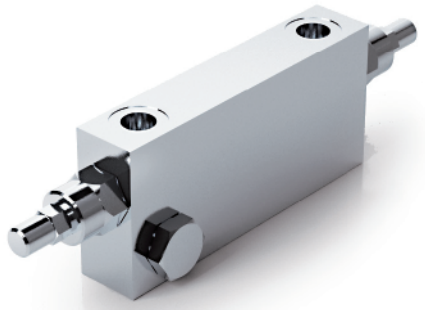
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	H mm	H1 mm	S mm	PESO WEIGHT kg
V0392/FLV	VBCD 3/8" SE A FLV	G 3/8"	100	150	60	15	22	70	40	30	1,350
V0412/FLV	VBCD 1/2" SE A FLV	G 1/2"	100	150	60	15	24	70	40	30	1,310

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO TIPO A CON FISSAGGIO A VITE

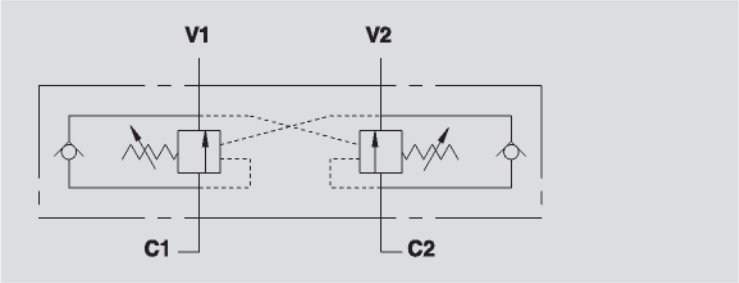
DOUBLE OVERCENTRE VALVES FIXING BY SCREW

TIPO / TYPE

VBCD DE A FLV



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore entrambe le direzioni realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Lo speciale attacco a vite, fornita con la valvola, consente il montaggio della valvola direttamente sull'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e flangiare C1 e C2 direttamente sull'attuatore tramite l'apposita vite.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block it in both directions. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. The special connection by mounting bolt, supplied with the valve, enables direct mounting of the valve onto the actuator.

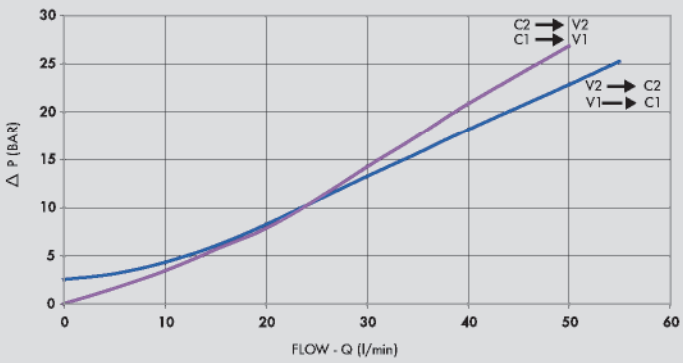
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply and flange C1 and C2 directly to the actuator using the provided bolt.

ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

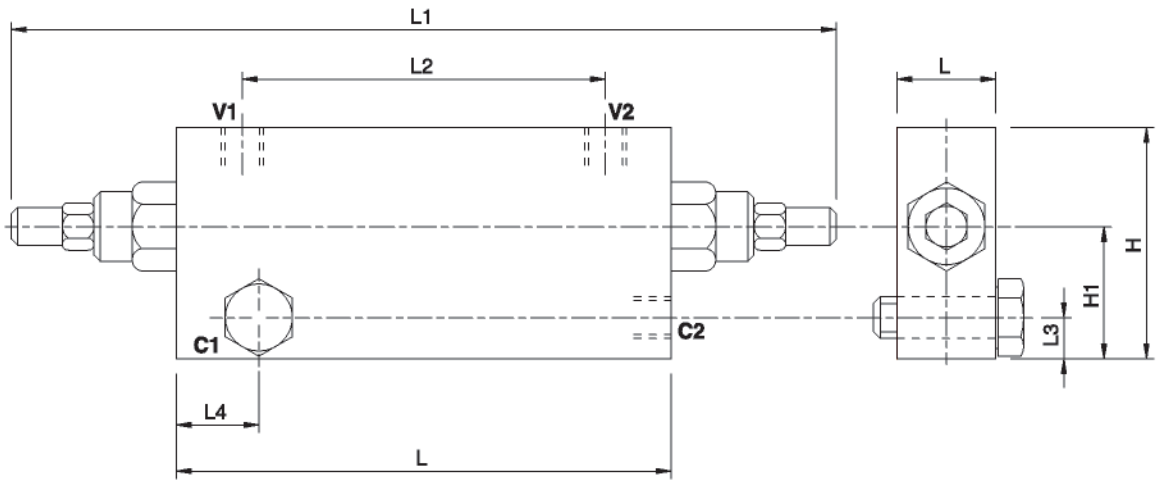
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt



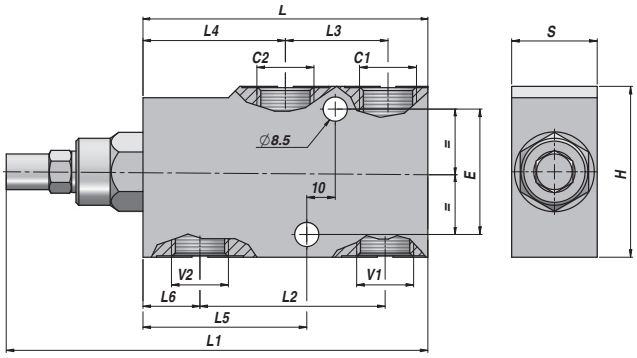
CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0422/FLV	VBCD 3/8" DE A FLV	1:4,5	40	350
V0432/FLV	VBCD 1/2" DE A FLV	1:4,5	60	350

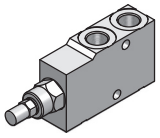
3

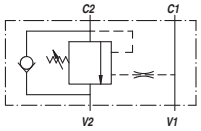


CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	H mm	H1 mm	S mm	PESO WEIGHT kg
V0422/FLV	VBCD 3/8" DE A FLV	G 3/8"	150	250	110	17	22	70	44	30	2,414
V0432/FLV	VBCD1/2" DE A FLV	G 1/2"	150	250	110	19	24	80	50	30	2,700

VALVE D'EQUILIBRAGE / *OVERCENTER VALVE* — SIMPLE EFFET / *SINGLE ACTING* — VBCD/A SE





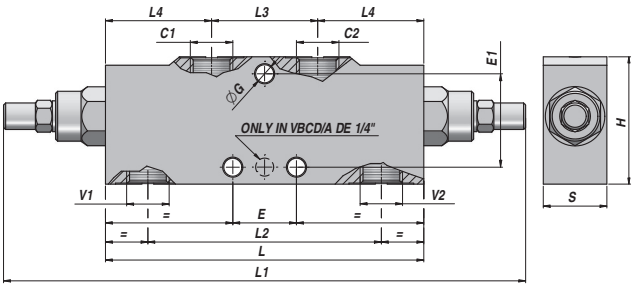


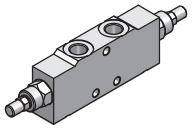
Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	L6	E	H	S	kg
V2190.A400	1/4"	1/4"	20	350	1:4.5	VBCD/A SE 1/4"	76	132	49.0	25	39.0	41.5	20.0	28	55	30	0,97
V2190.A600	3/8"	3/8"	40	350	1:4.5	VBCD/A SE 3/8"	100	149	60.0	30	50.0	55.0	20.0	44	60	30	1,26
V2190.A800	1/2"	1/2"	60	350	1:4.5	VBCD/A SE 1/2"	100	149	65.0	36	50.0	57.5	20.0	44	60	30	1,20
V2190.A120	3/4"	3/4"	95	350	1:5.5	VBCD/A SE 3/4"	127	187	85.0	46	62.5	75.0	23.5	44	80	35	2,37
V2190.A160	1"	1"	160	350	1:5.5	VBCD/A SE 1"	156	213	109.5	70	63.0	75.0	23.5	70	90	50	5,52

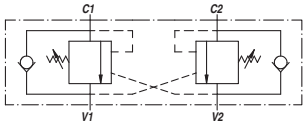
Réglage standard - *Standard setting* : 320 bar — Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER — MONTAGE EN LIGNE
BODY MATERIAL : STEEL — *LINE MOUNTING*

VALVE D'EQUILIBRAGE / *OVERCENTER VALVE* — DOUBLE EFFET / *DOUBLE ACTING* — VBCD/A DE







Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	ØG	E	E1	H	S	kg
V2290.A400	1/4"	1/4"	20	350	1:4.5	VBCD/A DE 1/4"	125	237	94	38	43.5	6.5	-	28	55	30	1,07
V2290.A600	3/8"	3/8"	40	350	1:4.5	VBCD/A DE 3/8"	150	248	110	50	50.0	8.5	30	44	60	30	1,94
V2290.A800	1/2"	1/2"	60	350	1:4.5	VBCD/A DE 1/2"	150	248	110	50	50.0	8.5	30	44	60	30	1,89
V2290.A120	3/4"	3/4"	95	350	1:5.5	VBCD/A DE 3/4"	190	304	143	65	62.5	8.5	44	64	80	35	3,82
V2290.A160	1"	1"	160	350	1:5.5	VBCD/A DE 1"	210	319	158	66	72.0	8.5	190	-	90	50	7,12

Réglage standard - *Standard setting* : 320 bar — Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER — MONTAGE EN LIGNE
BODY MATERIAL : STEEL — *LINE MOUNTING*

La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

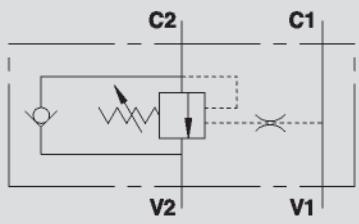
VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO – TIPO A

SINGLE OVERCENTRE VALVES – TYPE A

TIPO / TYPE

VBCD SE A

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Il tipo "A" si differenzia dal tipo "non A" per la posizione degli attacchi e per il rapporto di pilotaggio.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore di flusso libero e C2 al lato dell'attuatore dove si desidera la tenuta. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Type "A" is different due to the connection positions and the pilot ratio.

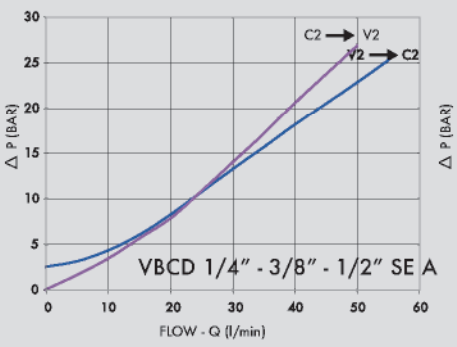
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

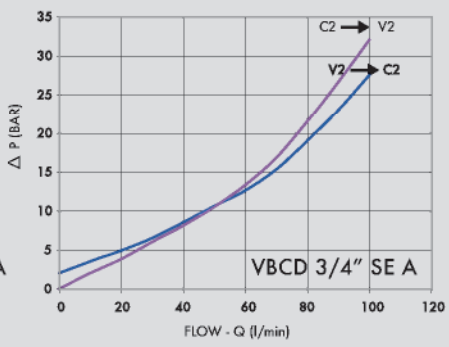
CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and C2 to the actuator's side you want the flow to be blocked. In-line mounting.

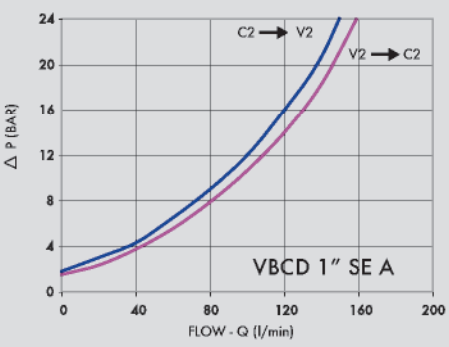
ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

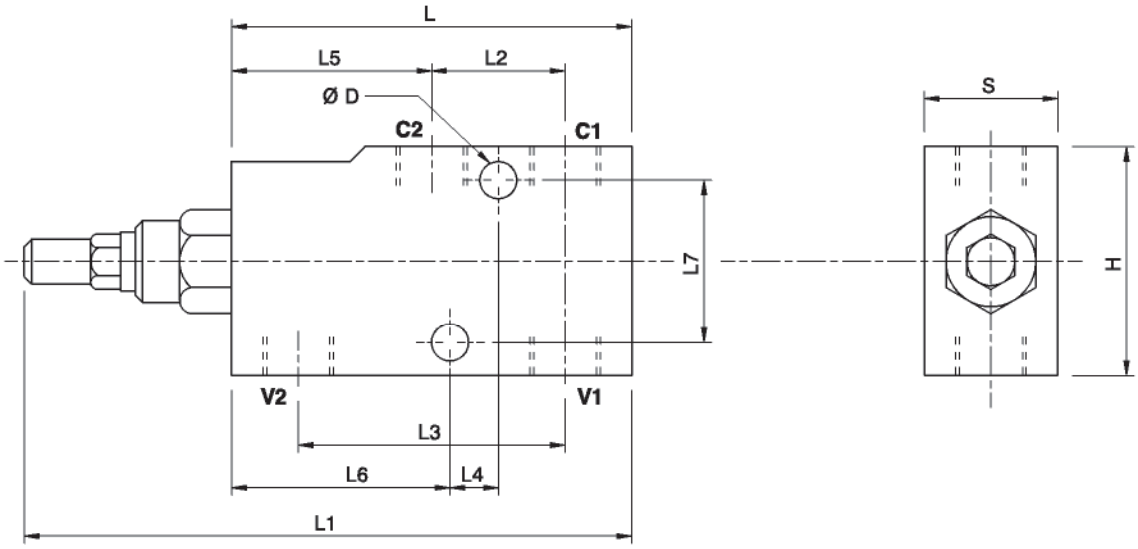
Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt







CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0382	VBCD 1/4" SE A	1:4,5	25	350
V0392	VBCD 3/8" SE A	1:4,5	40	350
V0412	VBCD 1/2" SE A	1:4,5	60	350
V0419	VBCD 3/4" SE A	1:5,5	100	350
V0417	VBCD 1" SE A	1:5,5	150	350



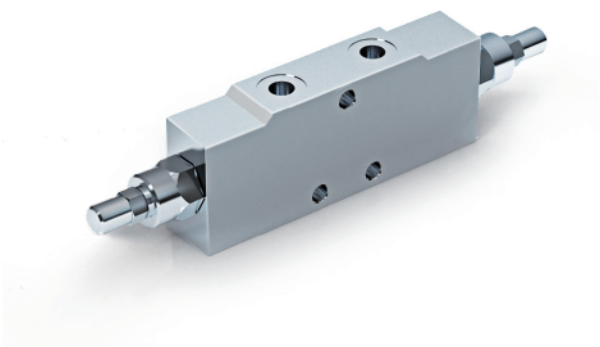
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	D mm	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	L7 mm	H mm	S mm	PESO WEIGHT kg
V0382	VBCD 1/4" SE A	G 1/4"	6,5	76	132	25	49	10	39	41,5	28	55	30	0,970
V0392	VBCD 3/8" SE A	G 3/8"	8,5	100	149	30	60	10	50	55	44	60	30	1,256
V0412	VBCD 1/2" SE A	G 1/2"	8,5	100	149	36	65	10	50	57,5	44	60	30	1,196
V0419	VBCD 3/4" SE A	G 3/4"	8,5	127	187	46	85	10	62,5	75	44	80	35	2,372
V0417	VBCD 1" SE A	G 1"	10,5	156	213	70	109,5	23	63	75	70	90	50	4,635

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO – TIPO A

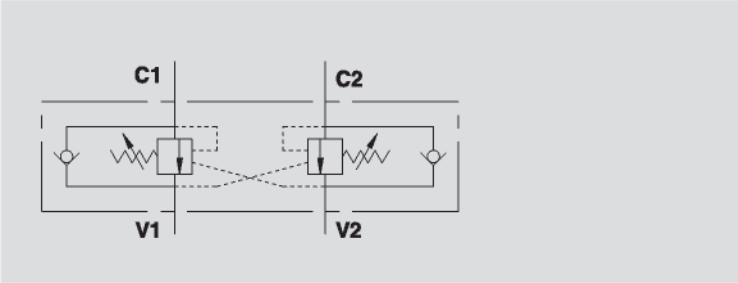
DOUBLE OVERCENTRE VALVES – TYPE A

TIPO / TYPE

VBCD DE A



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in entrambe le direzioni realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Il tipo "A" si differenzia dal tipo " non A" per la posizione degli attacchi e per il rapporto di pilotaggio.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificati.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore da controllare. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) o predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block it in both directions. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Type "A" is different due to the connection positions and the pilot ratio.

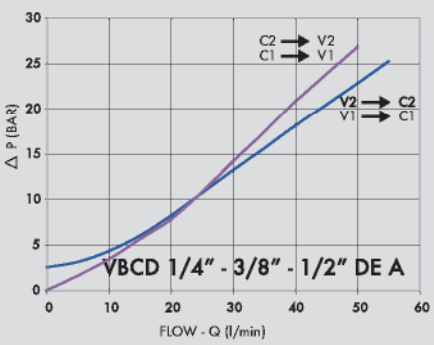
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1,3 times more than load pressure in order to enable the valve to close even when undergone to maximum load pressure

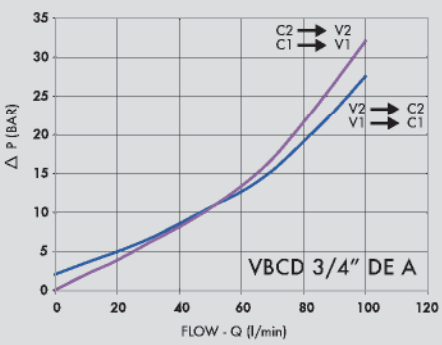
CONNECTIONS:
Connect V1 and V2 to the supply, C1 and C2 to the actuator to be controlled. In-line mounting.

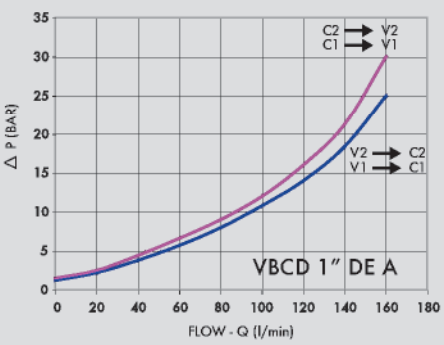
ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt

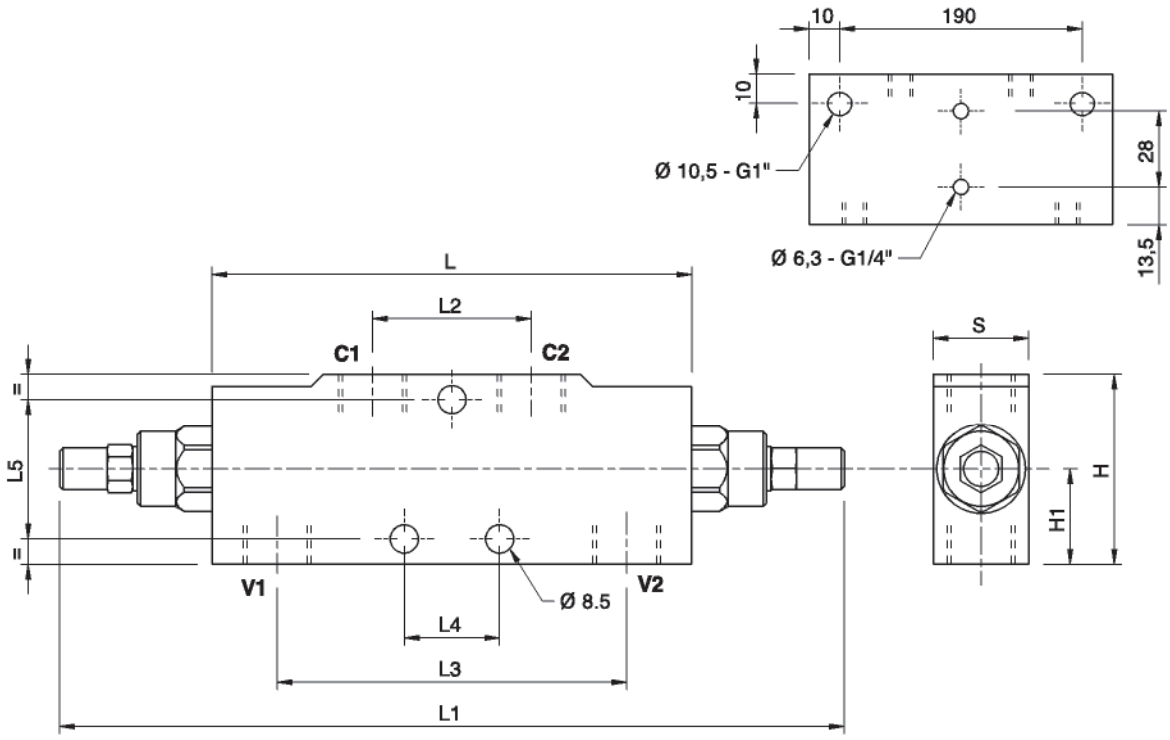






CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0418	VBCD 1/4" DE A	1:4,5	25	350
V0422	VBCD 3/8" DE A	1:4,5	40	350
V0432	VBCD 1/2" DE A	1:4,5	60	350
V0435	VBCD 3/4" DE A	1:5,5	100	350
V0436	VBCD 1" DE A	1:5,5	150	350

3

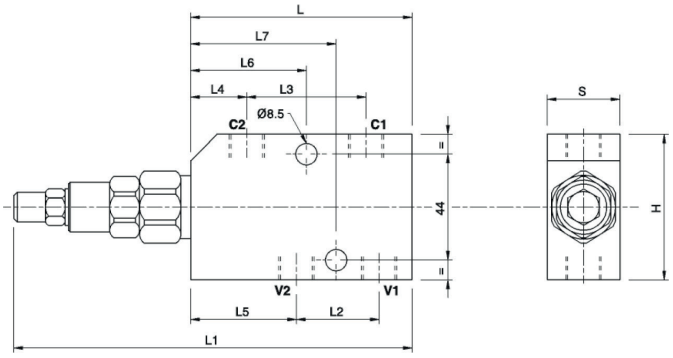


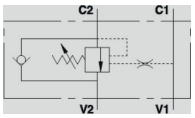
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	H mm	H1 mm	S mm	PESO WEIGHT kg
V0418	VBCD 1/4" DE A	G 1/4"	125	255	38	94	/	28	55	28	30	1,686
V0422	VBCD 3/8" DE A	G 3/8"	150	248	50	110	30	44	60	32	30	1,970
V0432	VBCD 1/2" DE A	G 1/2"	150	248	50	110	30	44	60	32	30	1,916
V0435	VBCD 3/4" DE A	G 3/4"	190	304	65	143	44	64	80	40	35	3,800
V0436	VBCD 1" DE A	G 1"	210	319	66	158	190	/	90	45	50	6,680

VBCD SE

SIMPLE EFFET
SINGLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE





Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	L6	L7	H	S	kg
V2190.0600	3/8"	3/8"	35	350	1:3.1	VBCD SE 3/8"	90	162	32	48	23	42	48	58	60	30	1.19
V2190.0800	1/2"	1/2"	50	350	1:3.1	VBCD SE 1/2"	90	162	35	48	23	40.5	48	58	60	30	1.13
V2190.1200	3/4"	3/4"	105	350	1:5.5	VBCD SE 3/4"	118	190	47	71	23	47	72.5	72.5	80	35	2.15

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

SUR DEMANDE - *ON REQUEST* :
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

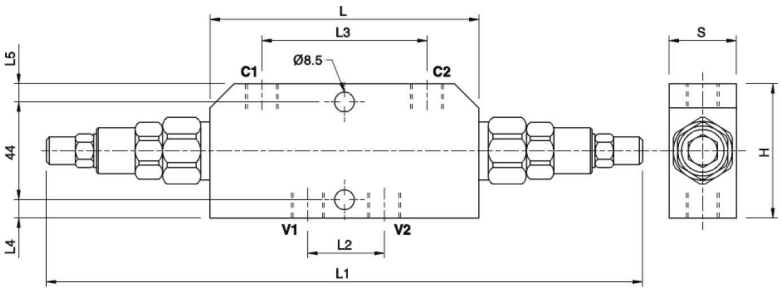
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

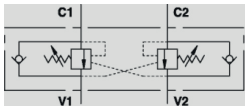
MONTAGE EN LIGNE
LINE MOUNTING

VBCD DE

DOUBLE EFFET
DOUBLE ACTING

VALVE D'EQUILIBRAGE
OVERCENTER VALVE





Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	H	S	kg
V2290.0600	3/8"	3/8"	35	350	1:3.1	VBCD DE 3/8"	120	264	34	73	8	8	60	30	1.72
V2290.0800	1/2"	1/2"	50	350	1:3.1	VBCD DE 1/2"	120	264	36	73	8	8	60	30	1.69
V2290.1200	3/4"	3/4"	105	350	1:5.5	VBCD DE 3/4"	152	296	58	106	15	21	80	35	3

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

SUR DEMANDE - *ON REQUEST* :
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

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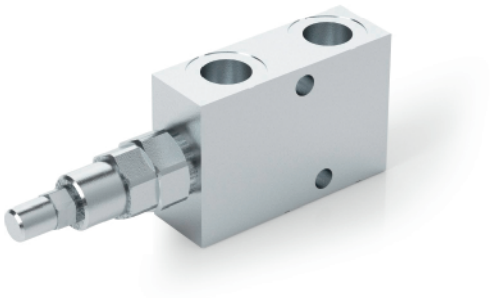
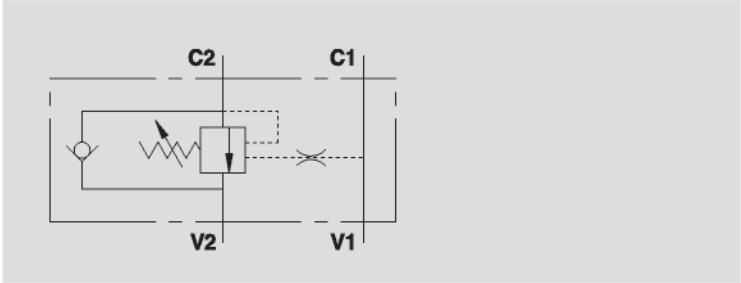
La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO
SINGLE OVERCENTRE VALVES

TIPO / TYPE
VBCD SE



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore di flusso libero e C2 al lato dell'attuatore dove si desidera la tenuta. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP)

USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator.

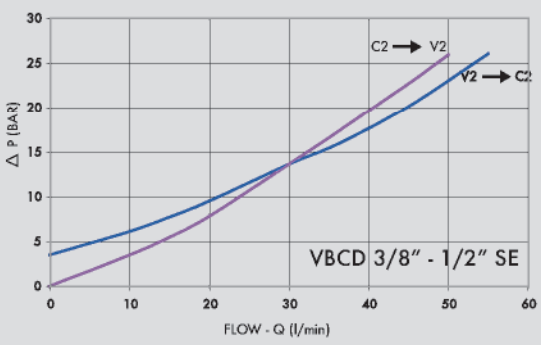
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

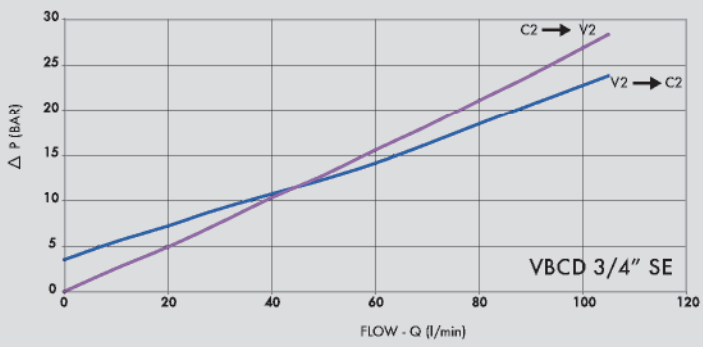
CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and C2 to the actuator side you want the flow to be blocked. In-line mounting.

ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

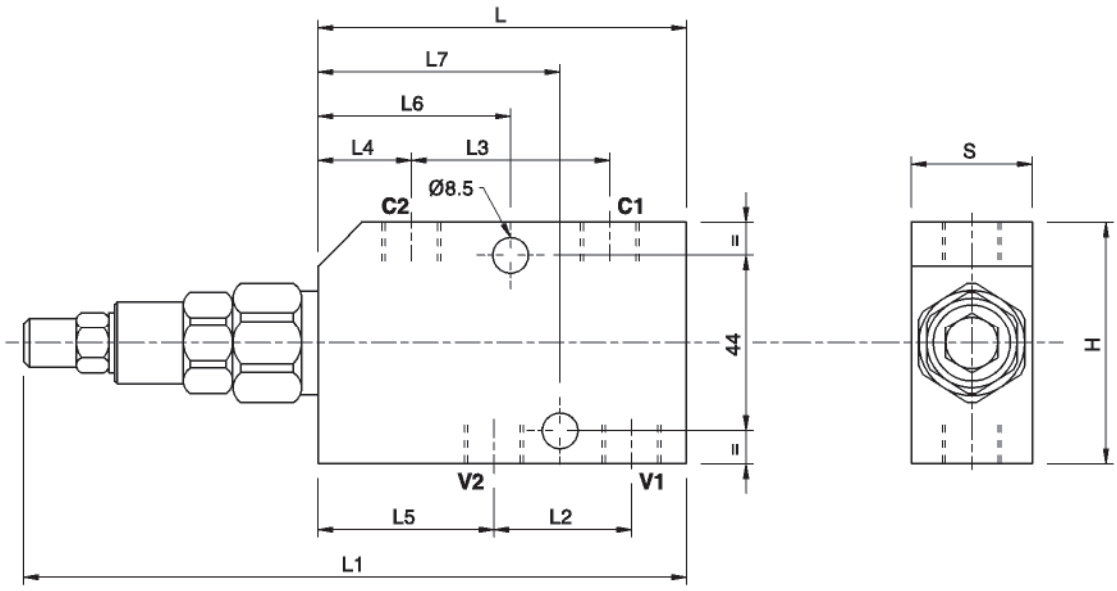
Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt





CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0390	VBCD 3/8" SE	1:3,1	35	350
V0390/RP18	VBCD 3/8" SE RP 1:8	1:8	35	350
V0410	VBCD 1/2" SE	1:3,1	50	350
V0410/RP18	VBCD 1/2" SE RP 1:8	1:8	50	350
V0411	VBCD 3/4" SE	1:5,5	105	350
V0411/RP18	VBCD 3/4" SE RP 1:8	1:8	105	350

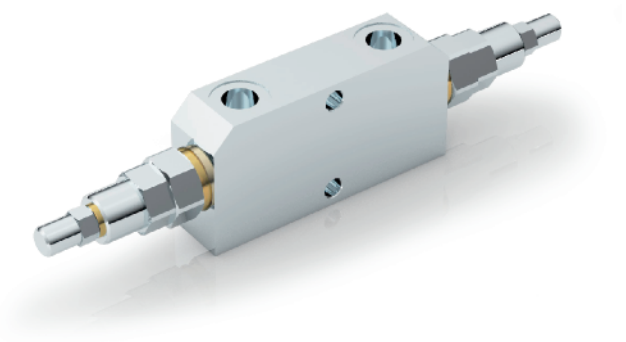
3



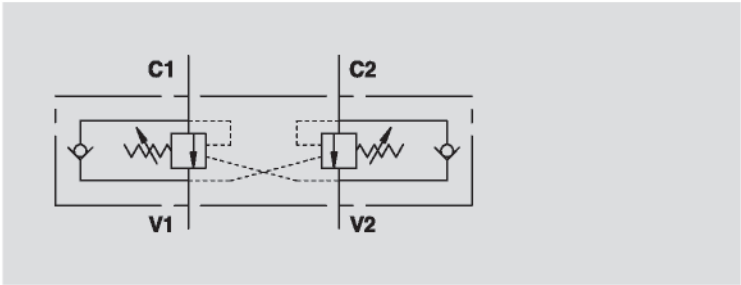
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	L7 mm	H mm	S mm	PESO WEIGHT kg
V0390	VBCD 3/8" SE	G 3/8"	90	162	32	48	23	42	48	58	60	30	1,194
V0390/RP18	VBCD 3/8" SE RP 1:8	G 3/8"	90	162	32	48	23	42	48	58	60	30	1,194
V0410	VBCD 1/2" SE	G 1/2"	90	162	35	48	23	40,5	48	58	60	30	1,130
V0410/RP18	VBCD 1/2" SE RP 1:8	G 1/2"	90	162	35	48	23	40,5	48	58	60	30	1,130
V0411	VBCD 3/4" SE	G 3/4"	118	190	47	71	23	47	72,5	72,5	80	35	2,150
V0411/RP18	VBCD 3/4" SE RP 1:8	G 3/4"	118	190	47	71	23	47	72,5	72,5	80	35	2,150

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO
DOUBLE OVERCENTRE VALVES

TIPO / TYPE
VBCD DE



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in entrambe le direzioni realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore da controllare. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP)

USE AND OPERATION:
These valves are used to control the actuator movements and block it in both directions. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator.

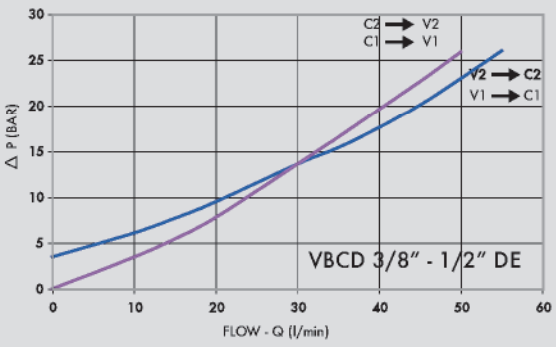
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

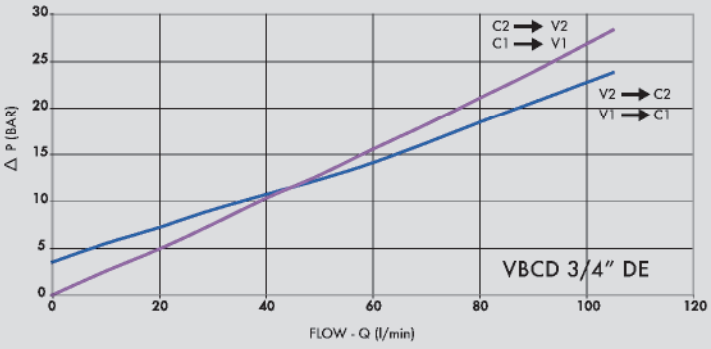
CONNECTIONS:
Connect V1 and V2 to the supply, C1 and C2 to the actuator to be controlled. In-line mounting.

ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

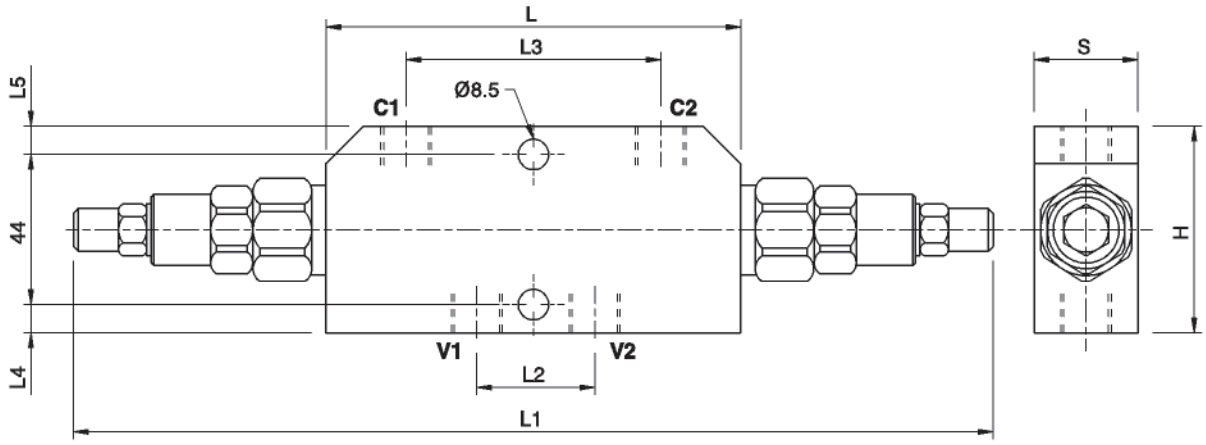
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt





CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0420	VBCD 3/8" DE	1:3,1	35	350
V0420/RP18	VBCD 3/8" DE RP 1:8	1:8	35	350
V0430	VBCD 1/2" DE	1:3,1	50	350
V0430/RP18	VBCD 1/2" DE RP 1:8	1:8	50	350
V0431	VBCD 3/4" DE	1:5,5	105	350
V0431/RP18	VBCD 3/4" DE RP 1:8	1:8	105	350

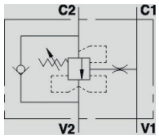


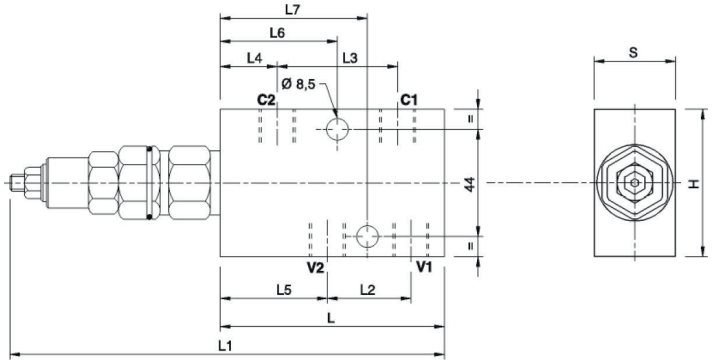
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	H mm	S mm	PESO WEIGHT kg
V0420	VBCD 3/8" DE	G 3/8"	120	264	34	73	8	8	60	30	1,724
V0420/RP18	VBCD 3/8" DE RP 1:8	G 3/8"	120	264	34	73	8	8	60	30	1,724
V0430	VBCD 1/2" DE	G 1/2"	120	264	36	73	8	8	60	30	1,688
V0430/RP18	VBCD 1/2" DE RP 1:8	G 1/2"	120	264	36	73	8	8	60	30	1,688
V0431	VBCD 3/4" DE	G 3/4"	152	296	58	106	15	21	80	35	3,000
V0431/RP18	VBCD 3/4" DE RP 1:8	G 3/4"	152	296	58	106	15	21	80	35	3,000

VALVE D'EQUILIBRAGE POUR CENTRE FERME
OVERCENTER VALVE FOR CLOSED CENTER

SIMPLE EFFET
SINGLE ACTING

VBCD SE CC





Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	L6	L7	H	S	kg
V2190.C600	3/8″	3/8″	35	350	1:3.1	VBCD SE CC 3/8″	90	174	32	48	23	42	48	58	60	30	1.23
V2190.C800	1/2″	1/2″	50	350	1:3.1	VBCD SE CC 1/2″	90	174	35	48	23	40.5	48	58	60	30	1.23
V2190.C120	3/4″	3/4″	105	350	1:5.5	VBCD SE CC 3/4″	118	202	47	71	23	47	72.5	72.5	80	35	2.27

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

SUR DEMANDE - *ON REQUEST* :
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

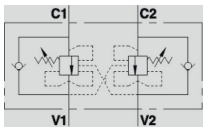
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

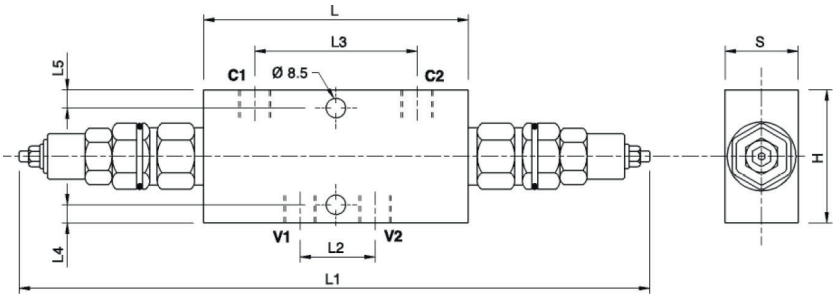
MONTAGE EN LIGNE
LINE MOUNTING

VALVE D'EQUILIBRAGE POUR CENTRE FERME
OVERCENTER VALVE FOR CLOSED CENTER

DOUBLE EFFET
DOUBLE ACTING

VBCD DE CC





Code *Code*	V1 - V2 BSP	C1 - C2 BSP	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	L3	L4	L5	H	S	kg
V2290.C600	3/8″	3/8″	35	350	1:3.1	VBCD DE CC 3/8″	120	288	34	73	8	8	60	30	1.9
V2290.C800	1/2″	1/2″	50	350	1:3.1	VBCD DE CC 1/2″	120	288	36	73	8	8	60	30	1.85
V2290.C120	3/4″	3/4″	105	350	1:5.5	VBCD DE CC 3/4″	152	320	58	106	15	21	80	35	3.1

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

SUR DEMANDE - *ON REQUEST* :
RAPPORT DE PILOTAGE - *PILOT RATIO* : 1:8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

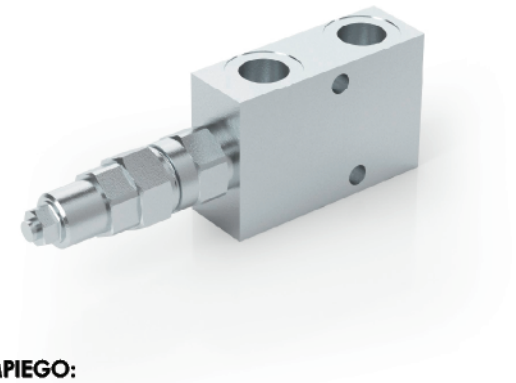
La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO PER CENTRO CHIUSO

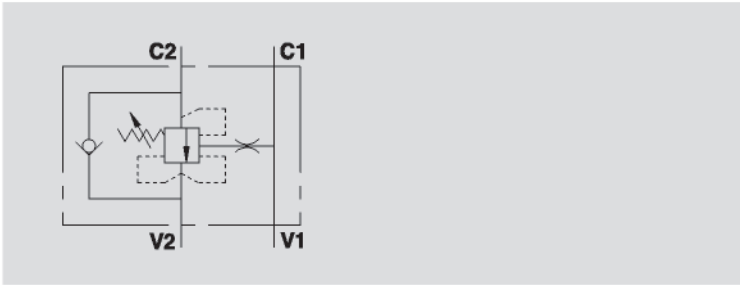
SINGLE OVERCENTRE VALVES FOR CLOSED CENTRE

TIPO / TYPE

VBCD SE CC



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. È insensibile alle contropressioni e trova quindi impiego dove le normali overcentre non funzionano correttamente al controllo del carico, consente di utilizzare la pressione impostata dall'impianto per azionare più attuatori in serie.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore di flusso libero e C2 al lato dell'attuatore dove si desidera la tenuta. Il montaggio è in linea.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP)

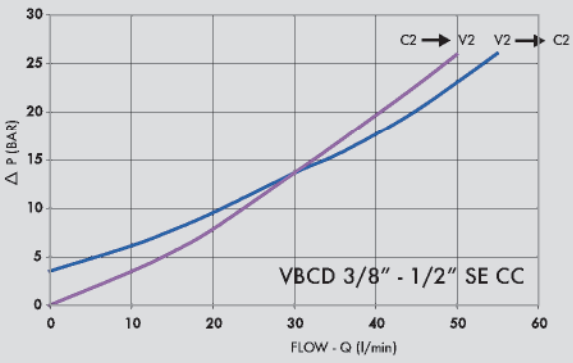
USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. This valve is ideal when normal overcentre valves doesn't work properly as it's not sensitive to back pressure. They also allow the system pressure to move multiple actuators in series.

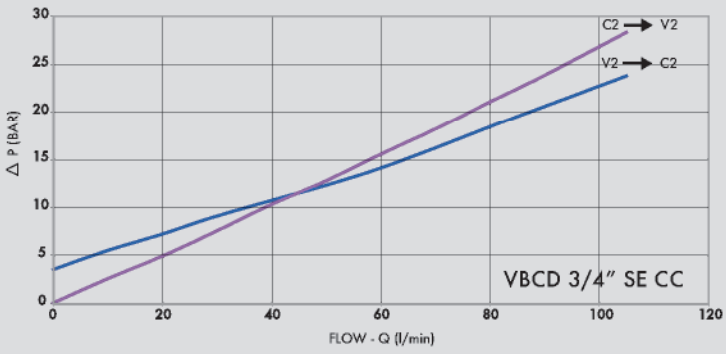
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and C2 to the actuator's side you want the flow to be blocked. In-line mounting.

ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

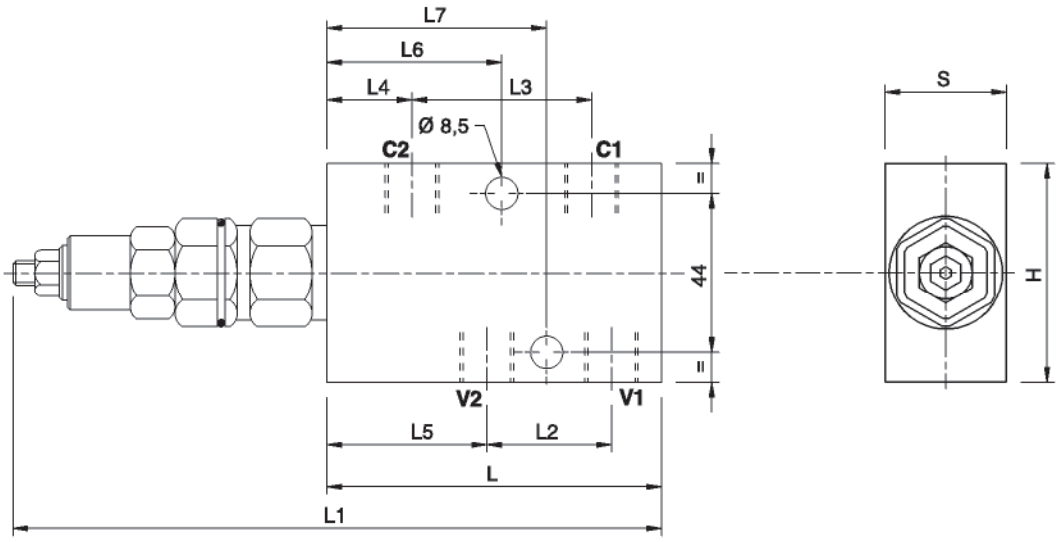
PERDITE DI CARICO
PRESSURE DROP CURVE





Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt

CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0407	VBCD 3/8" SE CC	1:3,1	35	350
V0407/RP18	VBCD 3/8" SE CC RP 1:8	1:8	35	350
V0408	VBCD 1/2" SE CC	1:3,1	50	350
V0408/RP18	VBCD 1/2" SE CC RP 1:8	1:8	50	350
V0409	VBCD 3/4" SE CC	1:5,5	105	350
V0409/RP18	VBCD 3/4" SE CC RP 1:8	1:8	105	350



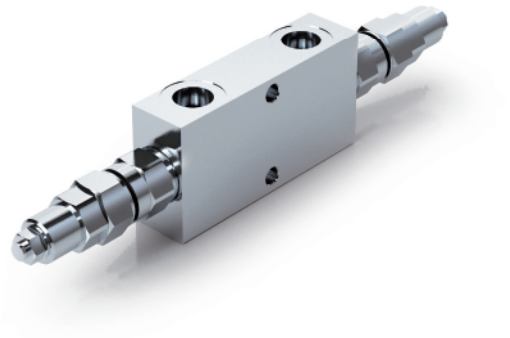
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	L7 mm	H mm	S mm	PESO WEIGHT kg
V0407	VBCD 3/8" SE CC	G 3/8"	90	174	32	48	23	42	48	58	60	30	1,228
V0407/RP18	VBCD 3/8" SE CC RP 1:8	G 3/8"	90	174	32	48	23	42	48	58	60	30	1,228
V0408	VBCD 1/2" SE CC	G 1/2"	90	174	35	48	23	40,5	48	58	60	30	1,228
V0408/RP18	VBCD 1/2" SE CC RP 1:8	G 1/2"	90	174	35	48	23	40,5	48	58	60	30	1,228
V0409	VBCD 3/4" SE CC	G 3/4"	118	202	47	71	23	47	72,5	72,5	80	35	2,266
V0409/RP18	VBCD 3/4" SE CC RP 1:8	G 3/4"	118	202	47	71	23	47	72,5	72,5	80	35	2,266

VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO PER CENTRO CHIUSO

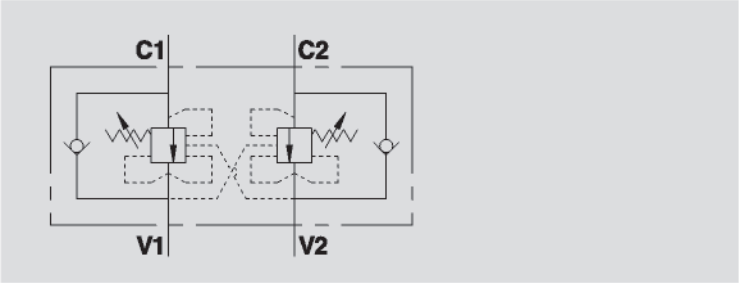
DOUBLE OVERCENTRE VALVES FOR CLOSED CENTRE

TIPO / TYPE

VBCD DE CC



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in entrambe le direzioni realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. È insensibile alle contropressioni e trova quindi impiego dove le normali overcentre non funzionano correttamente al controllo del carico, consente di utilizzare la pressione impostata dall'impianto per azionare più attuatori in serie.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e C1 e C2 all'attuatore da controllare.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block it in both directions. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. This valve is ideal when normal overcentre valves doesn't work properly as it's not sensitive to back pressure. They also allow the system pressure to move multiple actuators in series.

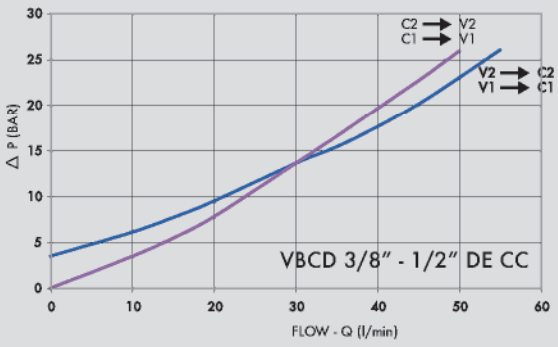
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

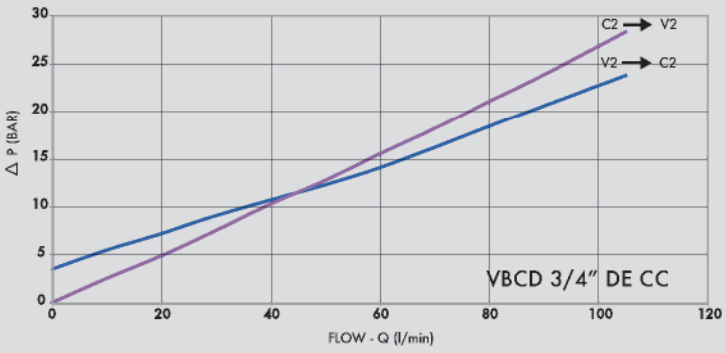
CONNECTIONS:
Connect V1 and V2 to the supply, C1 and C2 to the actuator to be controlled.

ON REQUEST
- other pressure settings are available
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

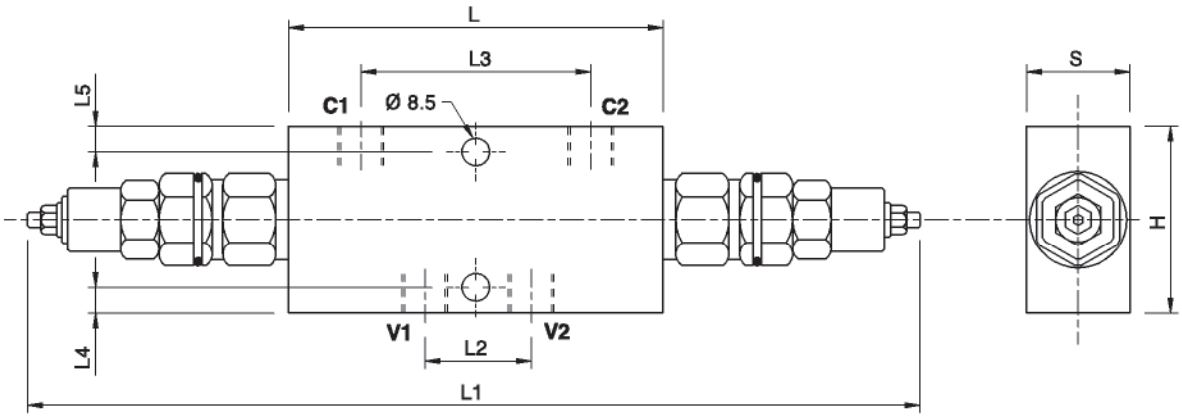
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt





CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0441	VBCD 3/8" DE CC	1:3,1	35	350
V0441/RP18	VBCD 3/8" DE CC RP 1:8	1:8	35	350
V0442	VBCD 1/2" DE CC	1:3,1	50	350
V0442/RP18	VBCD 1/2" DE CC RP 1:8	1:8	50	350
V0443	VBCD 3/4" DE CC	1:5,5	105	350
V0443/RP18	VBCD 3/4" DE CC RP 1:8	1:8	105	350

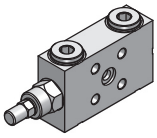


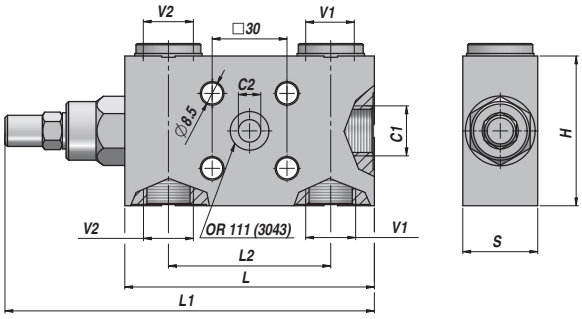
CODICE CODE	SIGLA TYPE	V1 - V2 C1 - C2 GAS	L mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	H mm	S mm	PESO WEIGHT kg
V0441	VBCD 3/8" DE CC	G 3/8"	120	288	34	73	8	8	60	30	1,902
V0441/RP18	VBCD 3/8" DE CC RP 1:8	G 3/8"	120	288	34	73	8	8	60	30	1,902
V0442	VBCD 1/2" DE CC	G 1/2"	120	288	36	73	8	8	60	30	1,854
V0442/RP18	VBCD 1/2" DE CC RP 1:8	G 1/2"	120	288	36	73	8	8	60	30	1,854
V0443	VBCD 3/4" DE CC	G 3/4"	152	320	58	106	15	21	80	35	3,100
V0443/RP18	VBCD 3/4" DE CC RP 1:8	G 3/4"	152	320	58	106	15	21	80	35	3,100

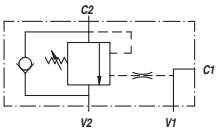
VBCD/FL SE

SIMPLE EFFET *SINGLE ACTING*

VALVE D'EQUILIBRAGE *OVERCENTER VALVE*





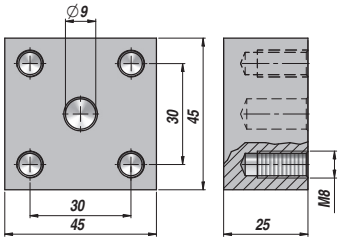


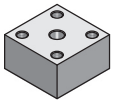
Code *Code*	V1 - V2 BSP	C1 BSP	C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	H	S	kg
V2190.B600	3/8"	3/8"	Ø9	40	350	1:4.5	VBCD/FL SE 3/8"	100	149	60	60	30	1,25
V2190.B800	1/2"	1/2"	Ø9	60	350	1:4.5	VBCD/FL SE 1/2"	100	149	65	60	30	1,21

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

Embase pour VBCD...FL/SE - *Sub-plate for VBCD...FL/SE*





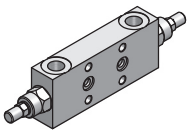
Code *Code*	Type *Type*
V9990.8000	B8000 - 45x45x25

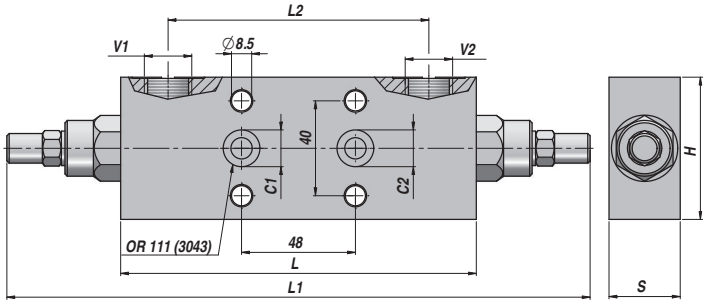
MATERIEL - *MATERIAL* : ACIER - *STEEL*

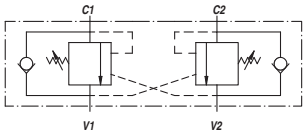
VBCD/FL DE

DOUBLE EFFET *DOUBLE ACTING*

VALVE D'EQUILIBRAGE *OVERCENTER VALVE*





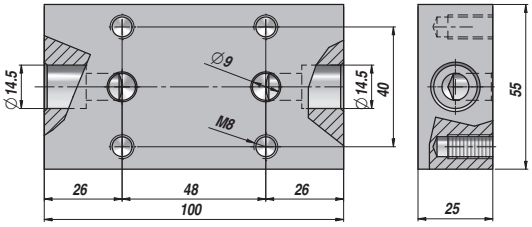


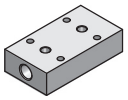
Code *Code*	V1 - V2 BSP	C1 - C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	L	L1	L2	H	S	kg
V2290.B600	3/8"	Ø9	40	350	1:4.5	VBCD/FL DE 3/8"	150	248	110	60	30	2,01
V2290.B800	1/2"	Ø9	60	350	1:4.5	VBCD/FL DE 1/2"	150	248	110	60	30	1,98

Réglage standard - *Standard setting* : 320 bar Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

Embase pour VBCD...FL/DE - *Sub-plate for VBCD...FL/DE*





Code *Code*	Type *Type*
V9990.8500	B8500 - 100x55x25

MATERIEL - *MATERIAL* : ACIER - *STEEL*

Disponibilités & Tarifs en ligne sur **www.unidro-contarini.com/fr/disponibilites-tarifs**
*Availability & Rates online on **www.unidro-contarini.com/fr/disponibilites-tarifs/***

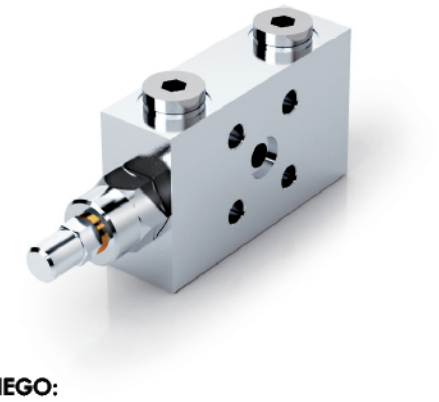
La société peut apporter toute modification au produit sans avis préalable.
The company reserves the right to modify the product at any time without prior notice.

VALVOLE DI BLOCCO E CONTROLLO DISCESA A SEMPLICE EFFETTO A FLANGIA

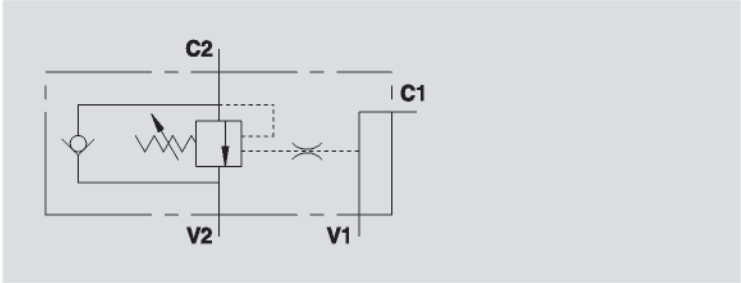
SINGLE OVERCENTRE VALVES FLANGEABLE

TIPO / TYPE

VBCD SE FL



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in una sola direzione realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Gli attacchi a flangia consentono il montaggio diretto della valvola sull'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore con flusso libero e flangiare C2 al lato dell'attuatore dove si desidera la tenuta. Gli attacchi V1 e V2 sono reversibili.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block in one direction. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Flange ports enable direct mounting of the valve onto the actuator.

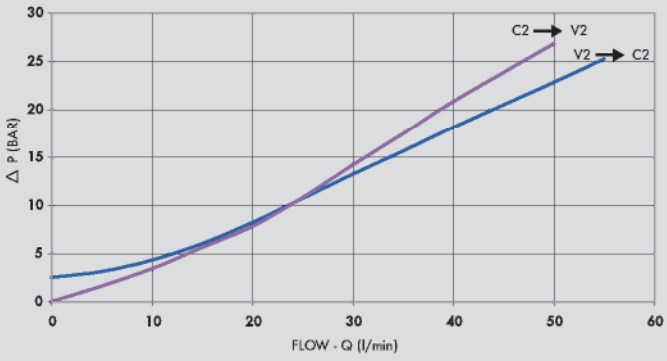
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the actuator and flange C2 to the actuator side you want the flow to be blocked. V1 and V2 ports are reversible.

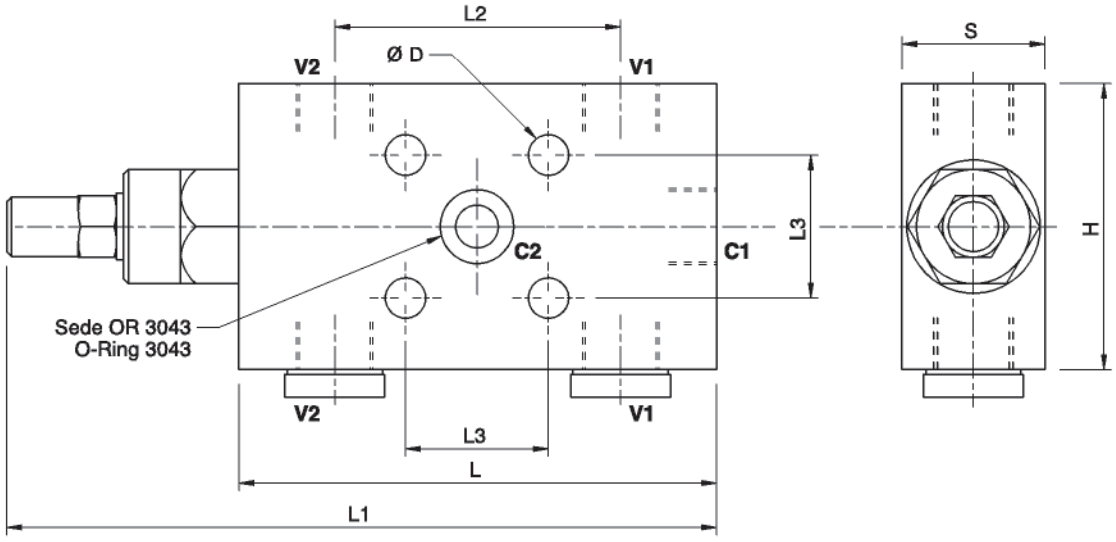
ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt

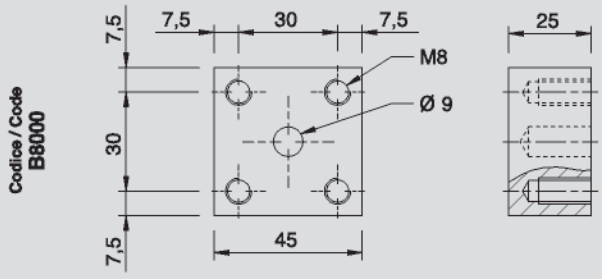


CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0400	VBCD 3/8" SE FL	1:4,5	40	350
V0401	VBCD 3/8" SE FCB4	1:4,5	40	350
V0402	VBCD 1/2" SE FL	1:4,5	60	350



CODICE CODE	SIGLA TYPE	V1 - V2 C1 GAS	C2 mm	L mm	L1 mm	L2 mm	L3 mm	H mm	S mm	D mm	PESO WEIGHT kg
V0400	VBCD 3/8" SE FL	G 3/8"	Ø9	100	149	60	30	60	30	Ø8,5	1,248
V0401	VBCD 3/8" SE FCB4	G 3/8"	Ø9	90	139	/	28	55	30	Ø6,25	1,080
V0402	VBCD 1/2" SE FL	G 1/2"	Ø9	100	149	65	30	60	30	Ø8,5	1,212

BASE PER VALVOLA / VALVE'S FLANGE:

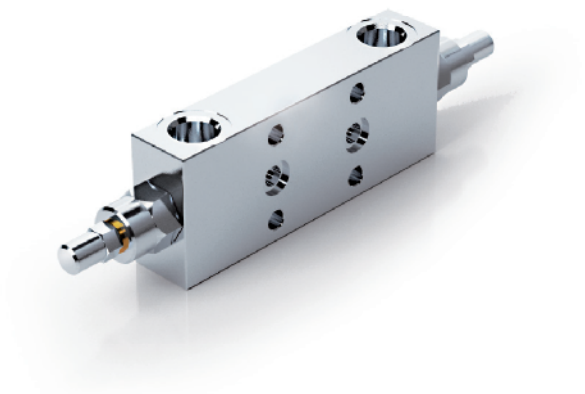


VALVOLE DI BLOCCO E CONTROLLO DISCESA A DOPPIO EFFETTO A FLANGIA

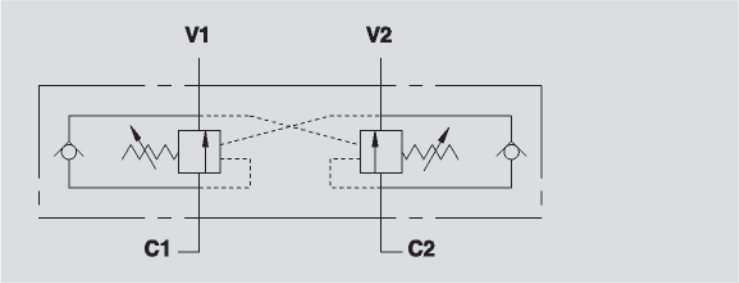
DOUBLE OVERCENTRE VALVES FLANGEABLE

TIPO / TYPE

VBCD DE FL



SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco dell'attuatore in entrambe le direzioni realizzando la discesa controllata del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione dell'attuatore. Gli attacchi a flangia consentono il montaggio diretto della valvola sull'attuatore.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e flangiare C1 e C2 direttamente sull'attuatore.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the actuator movements and block it in both directions. In order to have the descent of a load under control and avoid the load's weight being carried away the valve will prevent any cavitation of the actuator. Flange ports enable direct mounting of the valve onto the actuator.

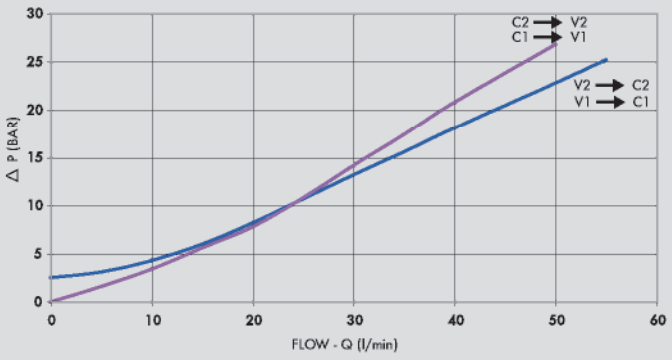
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply and and flange C1 and C2 directly to the actuator.

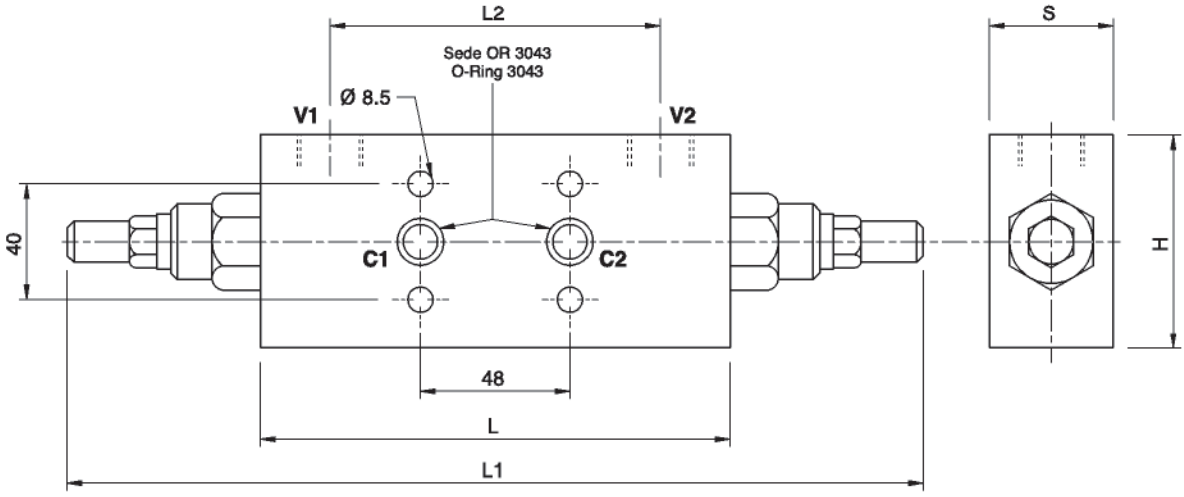
ON REQUEST
- non standard pressure settings
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt

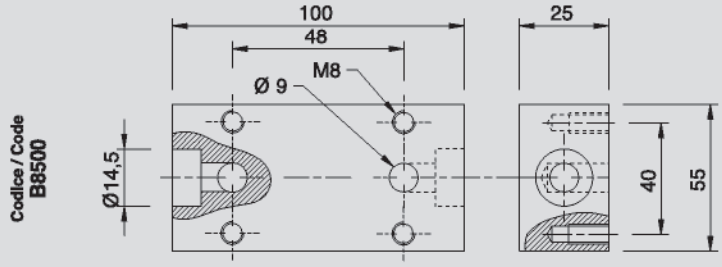


CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0424	VBCD 3/8" DE FL	1:4,5	40	350
V0434	VBCD 1/2" DE FL	1:4,5	60	350



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	C1 - C2 mm	L mm	L1 mm	L2 mm	H mm	S mm	PESO WEIGHT kg
V0424	VBCD 3/8" DE FL	G 3/8"	Ø9	150	248	110	60	30	2,012
V0434	VBCD 1/2" DE FL	G 1/2"	Ø9	150	248	110	60	30	1,980

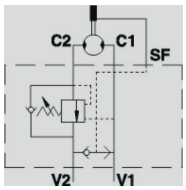
BASE PER VALVOLA / VALVE'S FLANGE:

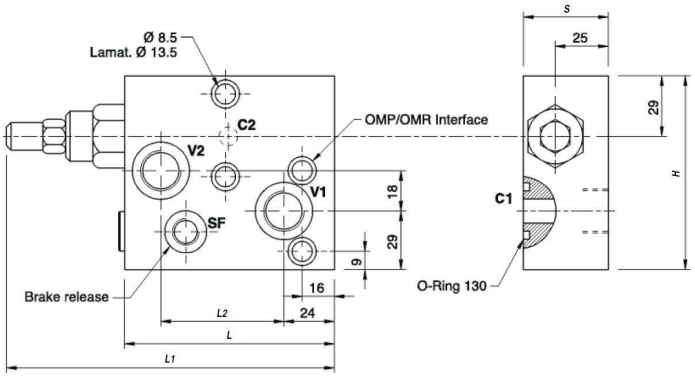


VALVE D'EQUILIBRAGE POUR MOTEURS MPP-MPR-MCP-MCR
OVERCENTER VALVE FOR "MPP-MRP-MCP-MCR" MOTORS

SIMPLE EFFET
SINGLE ACTING

VBCDF-SE (MP-MR)





Code *Code*	V1 - V2 BSP	C1 - C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	SF BSP	L	L1	L2	H	S	kg
V2190.F008	1/2"	Ø9	50	350	1:4.5	VBCDF-SE 1/2"-PR	-	100	149	57	94	40	2,69

VBCDF/SF-SE ...AVEC DEBLOCAGE FREIN - *WITH BRAKE RELEASE PORT*

V2190.SF08	1/2"	Ø9	50	350	1:4.5	VBCDF-SE 1/2"-PR SF	1/4"	100	149	57	94	40	2.69

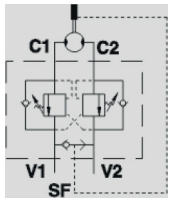
Réglage standard - *Standard setting* : 300~ bar Réglage Minimum - *Minimum setting* : 200 bar

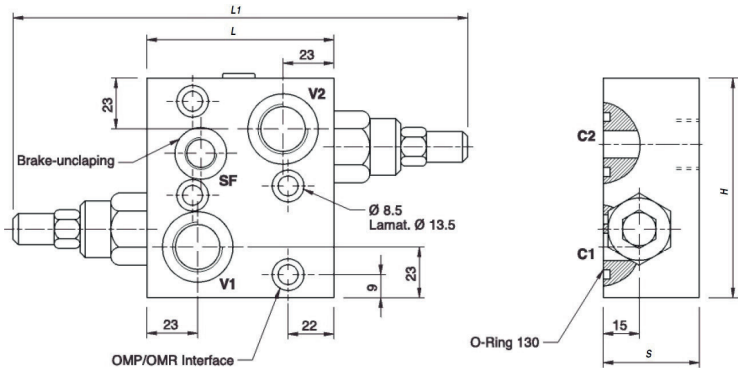
MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

VALVE D'EQUILIBRAGE POUR MOTEURS MPP-MPR-MCP-MCR
OVERCENTER VALVE FOR "MPP-MRP-MCP-MCR" MOTORS

DOUBLE EFFET
DOUBLE ACTING

VBCDF-DE (MP-MR)





Code *Code*	V1 - V2 BSP	C1 - C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	SF BSP	L	L1	L2	H	S	kg
V2290.F008	1/2"	Ø9	50	350	1:4.5	VBCDF-DE 1/2"-PR	-	80	172	-	94	50	2.71

VBCDF/SF-DE ...AVEC DEBLOCAGE FREIN - *WITH BRAKE RELEASE PORT*

V2290.SF08	1/2"	Ø9	50	350	1:4.5	VBCDF-DE 1/2"-PR SF	1/4"	80	172	-	94	40	2.71

Réglage standard - *Standard setting* : 300~ bar Réglage Minimum - *Minimum setting* : 200 bar

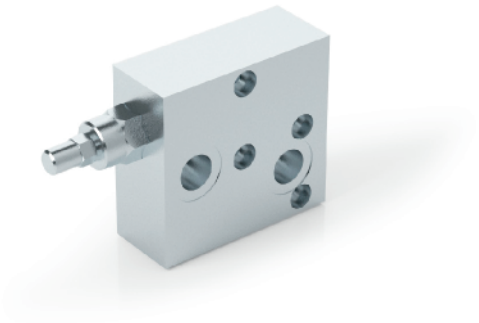
MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

VALVOLE DI BLOCCO E CONTROLLO MOVIMENTO FLANGIABILI SU MOTORI DANFOSS SERIE OMP-OMR SEMPLICE EFFETTO

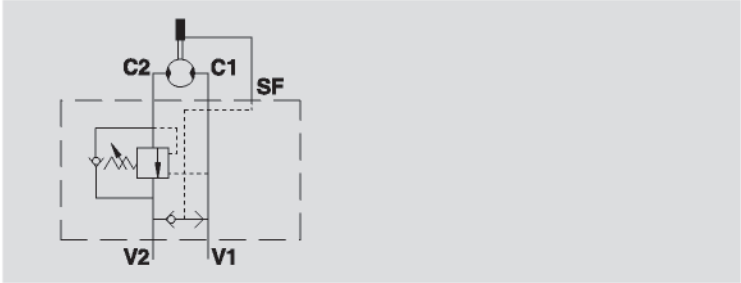
SILGLE OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMP/OMR

TIPO / TYPE

VBCDF SE OMP/OMR



SCHEMA IDRAULICO (con sbloccafreno - SF)
HYDRAULIC DIAGRAM (with brake release - SF)



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco del motore in una sola direzione (SE) realizzando il movimento controllato del carico che non sfugge trascinato dalla propria inerzia, in quanto la valvola non consente alcuna cavitazione del motore. La flangiatura diretta, adatta per motori Danfoss della serie OMP-OMR, garantisce la massima sicurezza, minime perdite di carico e compattezza d'installazione.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore con flusso libero e flangiare C2 al lato del motore dove si desidera la tenuta.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P000) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the motor rotation and block it in one direction. In order to have the load under control and avoid its inertia being carried away the valve will prevent any cavitation. Direct flange is ideal for Danfoss type OMP-OMR motors and provides maximum safety, very low pressure drops and robust installation.

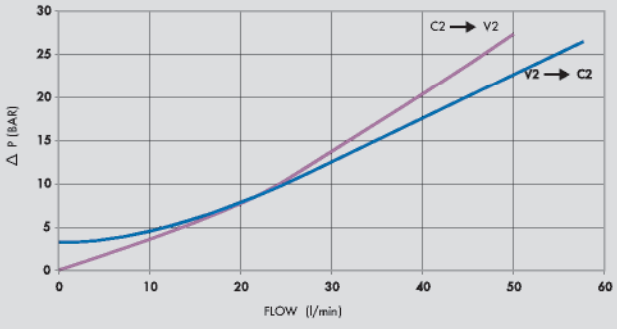
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the motor and C2 to the motor's side you want the flow to be blocked.

ON REQUEST
- other pressure settings are available
- sealing cap (CODE/P000) and arrangement for sealing cap (CODE/PP)

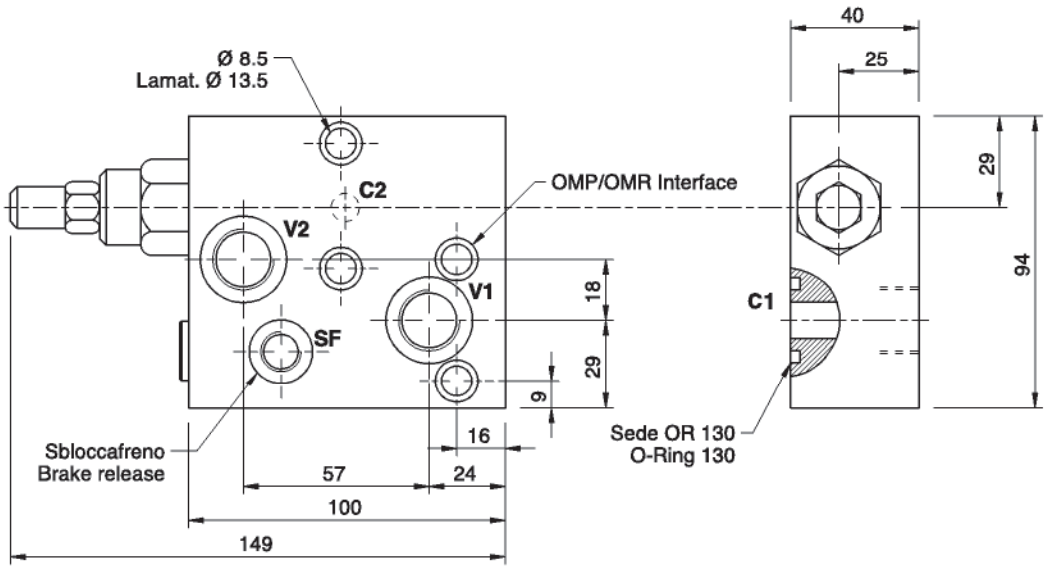
Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt

PERDITE DI CARICO
PRESSURE DROP CURVE



CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0415	VBCDF 1/2" SE OMP-OMR	1: 4,5	50	350
V0415/SF	VBCDF 1/2" SE OMP-OMR SF	1: 4,5	50	350

3



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	SF GAS	C1-C2 mm	PESO/ WEIGHT Kg
V0415	VBCDF 1/2" SE OMP-OMR	G 1/2"	-	Ø9	2,686
V0415/SF	VBCDF 1/2" SE OMP-OMR SF	G 1/2"	G 1/4"	Ø9	2,686

VALVOLE DI BLOCCO E CONTROLLO MOVIMENTO FLANGIABILI SU MOTORI DANFOSS SERIE OMP-OMR DOPPIO EFFETTO

DOUBLE OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMP/OMR

TIPO / TYPE

VBCDF DE OMP/OMR

SCHEMA IDRAULICO (con sbloccafreno - SF)
HYDRAULIC DIAGRAM (with brake release - SF)

IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco del motore in entrambe le direzione (DE) realizzando il movimento controllato del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione del motore.
La flangiatura diretta, adatta per motori Danfoss della serie OMP-OMR, garantisce la massima sicurezza, minime perdite di carico e compattezza d'installazione.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e flangiare C1 e C2 direttamente al motore.

A RICHIESTA
- pressione di taratura diversa da quella standard.
- piombatura (CODICE/P000) e predisposizione alla piombatura (CODICE/PP).

USE AND OPERATION:
These valves are used to control the motor rotation and block it in both directions. In order to have the load under control and avoid its inertia being carried away the valve will prevent any cavitation.
Direct flange is ideal for Danfoss type OMP-OMR motors and provides maximum safety, very low pressure drops and robust installation.

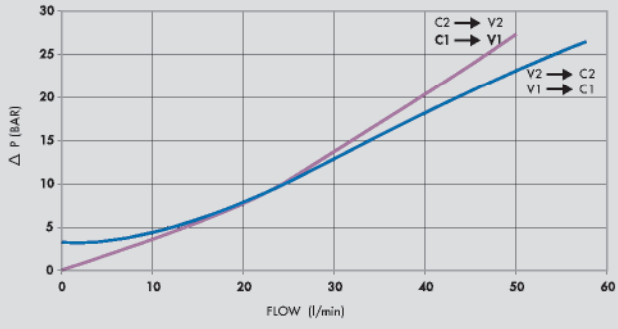
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply and flange C1 and C2 directly to the engine.

ON REQUEST
- other pressure settings are available
- sealing cap (CODE/P000) and arrangement for sealing cap (CODE/PP)

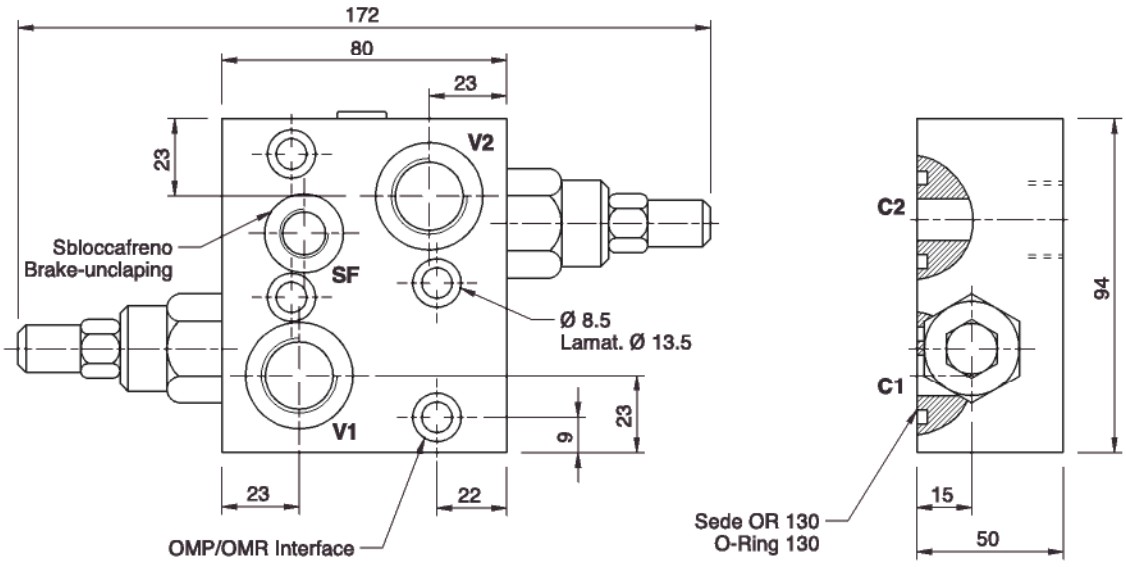
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt



CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0425	VBCDF 1/2" DE OMP-OMR	1: 4,5	50	350
V0425/SF	VBCDF 1/2" DE OMP-OMR SF	1: 4,5	50	350

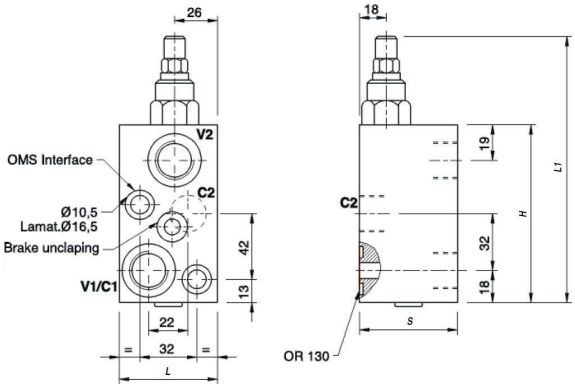
3

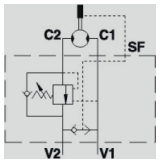


CODICE CODE	SIGLA TYPE	V1 - V2 GAS	SF GAS	C1-C2 mm	PESO/ WEIGHT Kg
V0425	VBCDF 1/2" DE OMP-OMR	G 1/2"	-	Ø9	2,708
V0425/SF	VBCDF 1/2" DE OMP-OMR SF	G 1/2"	G 1/4"	Ø9	2,708

VBCDF-SE (MS) SIMPLE EFFET *SINGLE ACTING*

VALVE D'EQUILIBRAGE POUR MOTEURS MPS-MCS *OVERCENTER VALVE FOR "MPS-MCS" MOTORS*





Code *Code*	V1 - V2 BSP	C1 - C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	SF BSP	L	L1	L2	H	S	kg
V2190.F416	1/2"	Ø9	50	350	1:4.5	VBCDF-SE 1/2"-S	-	55	148	-	100	55	1.7

VBCDF/SF-SE ...AVEC DEBLOCAGE FREIN - *WITH BRAKE RELEASE PORT*

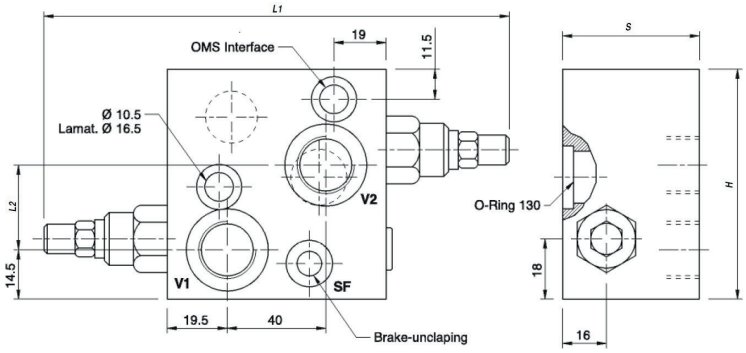
V2190.SF416	1/2"	Ø9	50	350	1:4.5	VBCDF-SE 1/2"-S SF	-	55	148	-	100	55	1.7

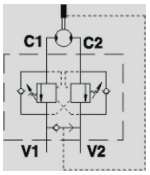
Réglage standard - *Standard setting* : 300~ bar Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

VBCDF-DE (MS) DOUBLE EFFET *DOUBLE ACTING*

VALVE D'EQUILIBRAGE POUR MOTEURS MPS-MCS *OVERCENTER VALVE FOR "MPS-MCS" MOTORS*





Code *Code*	V1 - V2 BSP	C1 - C2	Q MAX l/min	P MAX bar	PILOT RATIO	Type *Type*	SF BSP	L	L1	L2	H	S	kg
V2290.F426	1/2"	Ø9	50	350	1:4.5	VBCDF-DE 1/2"-S	-	-	170	30	80	50	2.15

VBCDF/SF-DE ...AVEC DEBLOCAGE FREIN - *WITH BRAKE RELEASE PORT*

V2290.SF426	1/2"	Ø9	50	350	1:4.5	VBCDF-DE 1/2"-S SF	1/4"	-	170	30	80	50	2.15

Réglage standard - *Standard setting* : 300~ bar Réglage Minimum - *Minimum setting* : 200 bar

MATERIEL CORPS : ACIER FLASQUABLE
BODY MATERIAL : STEEL *FACE MOUNTING*

Disponibilités & Tarifs en ligne sur **www.unidro-contarini.com/fr/disponibilites-tarifs**
*Availability & Rates online on **www.unidro-contarini.com/fr/disponibilites-tarifs/***

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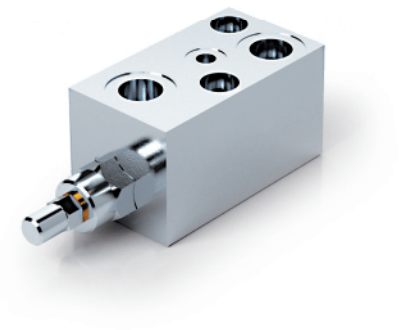
VALVOLE DI BLOCCO E CONTROLLO MOVIMENTO FLANGIABILI SU MOTORI DANFOSS SERIE OMS SEMPLICE EFFETTO

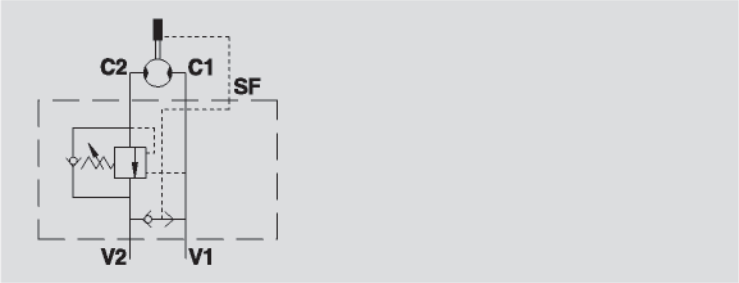
SILGLE OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMS

TIPO / TYPE

VBCDF SE OMS



SCHEMA IDRAULICO (con sbloccafreno - SF)
HYDRAULIC DIAGRAM (with brake release - SF)



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco del motore in una sola direzione (SE) realizzando il movimento controllato del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione del motore. La flangiatura diretta, adatta per motori Danfoss della serie OMS, garantisce la massima sicurezza, minime perdite di carico e compattezza d'installazione.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione, C1 al lato dell'attuatore con flusso libero e flangiare C2 al lato del motore dove si desidera la tenuta.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP)

PERDITE DI CARICO
PRESSURE DROP CURVE

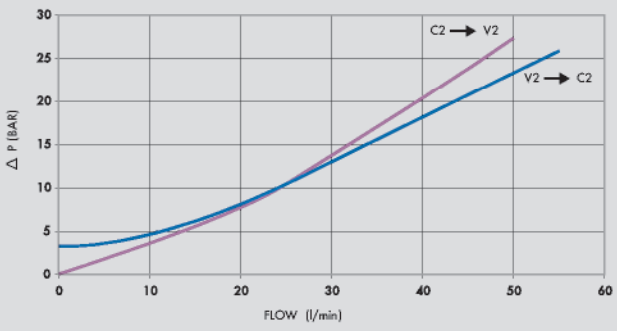
USE AND OPERATION:
These valves are used to control the motor rotation and block it in one direction. In order to have the load under control and avoid its inertia being carried away the valve will prevent any cavitation. Direct flange is ideal for Danfoss type OMS motors and provides maximum safety, very low pressure drops and robust installation.

MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply, C1 to the free flow side of the motor and C2 to the motor's side you want the flow to be blocked.

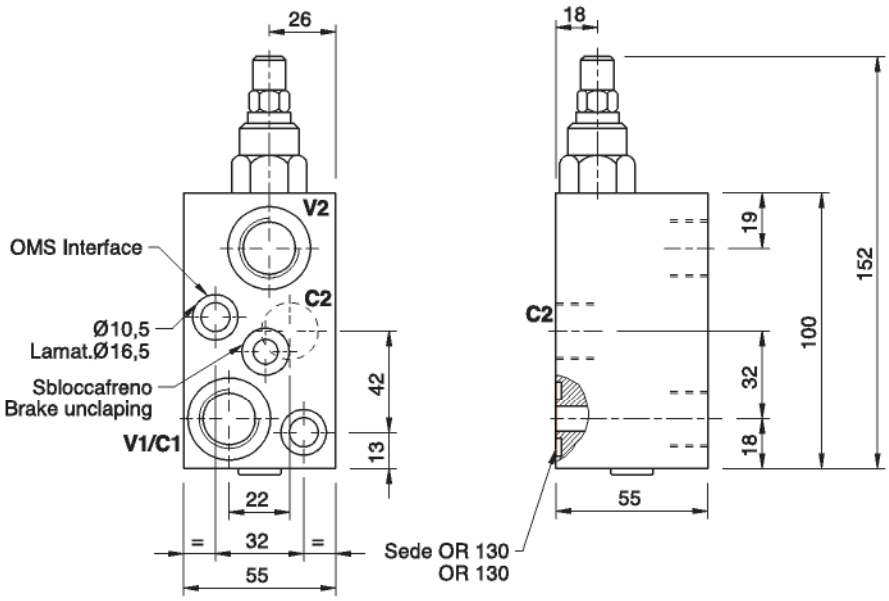
ON REQUEST
- other pressure settings are available
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt



CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0416	VBCDF 1/2" SE OMS	1: 4,5	50	350
V0416/SF	VBCDF 1/2" SE OMS SF	1: 4,5	50	350

3



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	SF GAS	C1-C2 mm	PESO/ WEIGHT Kg
V0416	VBCDF 1/2" SE OMS	G 1/2"	-	Ø9	1,700
V0416/SF	VBCDF 1/2" SE OMS SF	G 1/2"	G 1/4"	Ø9	1,700

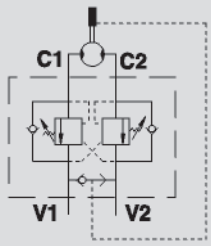
VALVOLE DI BLOCCO E CONTROLLO MOVIMENTO FLANGIABILI SU MOTORI DANFOSS SERIE OMS DOPPIO EFFETTO

DOUBLE OVERCENTRE VALVES FLANGEABLE ON DANFOSS MOTORS OMS

TIPO / TYPE

VBCDF DE OMS

SCHEMA IDRAULICO (con sbloccafreno - SF)
HYDRAULIC DIAGRAM (with brake release - SF)



IMPIEGO:
Valvola utilizzata per controllare il movimento e il blocco del motore in entrambe le direzione (DE) realizzando il movimento controllato del carico che non sfugge trascinato dal proprio peso, in quanto la valvola non consente alcuna cavitazione del motore. La flangiatura diretta, adatta per motori Danfoss della serie OMS, garantisce la massima sicurezza, minime perdite di carico e compattezza d'installazione.

MATERIALI E CARATTERISTICHE:
Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: trafilamento trascurabile.
Taratura standard: 320 Bar.
La taratura della valvola deve essere almeno 1,3 volte superiore alla pressione indotta dal carico per consentire alla valvola di chiudersi anche quando sottoposta alla pressione corrispondente al carico massimo.

MONTAGGIO:
Collegare V1 e V2 all'alimentazione e flangiare C1 e C2 direttamente al motore.

A RICHIESTA
- pressione di taratura diversa da quella standard
- piombatura (CODICE/P) e predisposizione alla piombatura (CODICE/PP)

USE AND OPERATION:
These valves are used to control the motor rotation and block it in both directions. In order to have the load under control and avoid its inertia being carried away the valve will prevent any cavitation. Direct flange is ideal for Danfoss type OMS motors and provides maximum safety, very low pressure drops and robust installation.

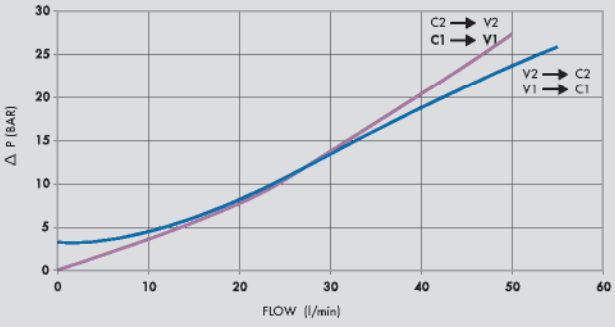
MATERIALS AND FEATURES:
Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seals: BUNA N standard.
Leakage: negligible leakage.
Standard setting: 320 Bar.
Valve setting must be at least 1.3 times more than load pressure in order to enable the valve to close even when subjected to the maximum load pressure.

CONNECTIONS:
Connect V1 and V2 to the supply and flange C1 and C2 directly to the engine.

ON REQUEST
- other pressure settings are available
- sealing cap (CODE/P) and arrangement for sealing cap (CODE/PP)

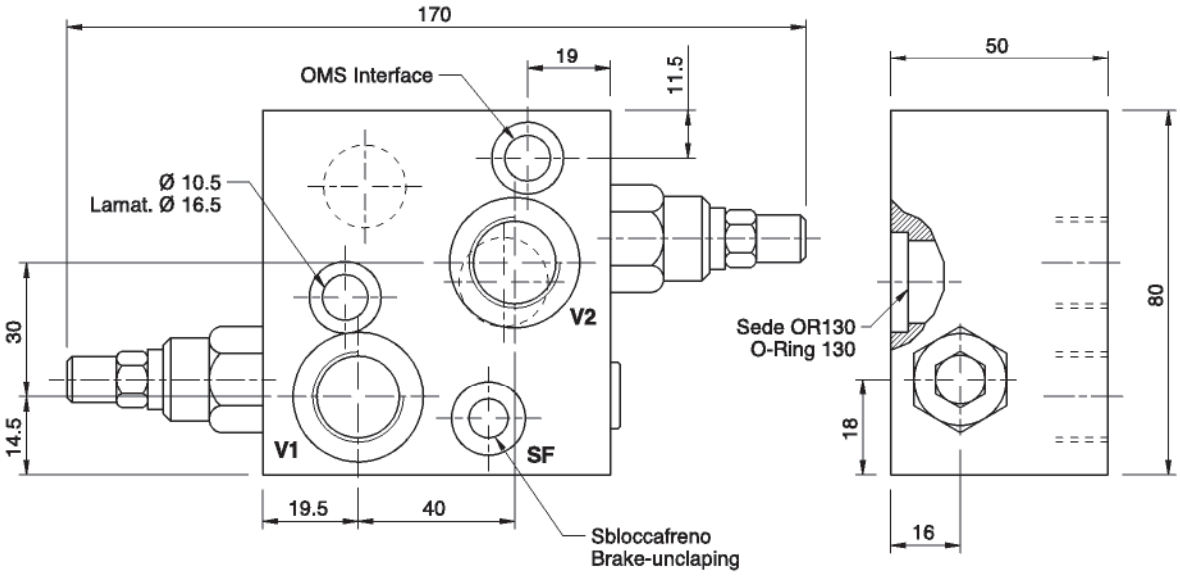
PERDITE DI CARICO
PRESSURE DROP CURVE

Temperatura olio: 50°C - Viscosità olio: 30 cSt
Oil temperature: 50° C - Oil viscosity: 30 cSt



CODICE CODE	SIGLA TYPE	RAPP. PILOT PILOT RATIO	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar
V0426	VBCDF 1/2" DE OMS	1: 4,5	50	350
V0426/SF	VBCDF 1/2" DE OMS SF	1: 4,5	50	350

3



CODICE CODE	SIGLA TYPE	V1 - V2 GAS	SF GAS	C1-C2 mm	PESO/ WEIGHT Kg
V0426	VBCDF 1/2" DE OMS	G 1/2"	-	Ø9	2,150
V0426/SF	VBCDF 1/2" DE OMS SF	G 1/2"	G 1/4"	Ø9	2,150