



Depuis 1969



VALVES ANTI-RETOUR POUR MONTAGE EN LIGNE
IN-LINE HYDRAULIC CHECK VALVES

Hydraulique
Électronique

| TABLE DES MATIÈRES - INDEX

Introduction	1	Introduction	1
Valves anti-retour VUS	2	VUS Check Valves	2
Valves anti-retour VUC	5	VUC Check Valves	5
Valves anti-retour VUI	8	VUI Check Valves	8
Valves anti-retour CVT	11	CVT Check Valves	11
Valves anti-retour VT	12	VT Check Valves	12
Valves anti-retour VBD	15	VBD Check Valves	15
Valves anti-retour VUPSL	17	VUPSL Check Valves	17
Valves anti-retour VBPSL-VBPSF	20	VBPSL-VBPSF Check Valves	20
Valves anti-retour VBPSL-R	26	VBSSL-R Check Valves	26
Valves anti-retour VBPDF-VBPDF	28	VBPDF-VBPDF Check Valves	28
Valves anti-retour VB	35	VB Check Valves	35
Notes Techniques	38	Technical Notes	38
Garantie	40	Warranty	40

Note : Toutes les spécifications dans cette brochure se rapportent au produit standard en date d'aujourd'hui.
Canimex se réserve le droit d'interrompre, de modifier ou de réviser les spécifications de cette brochure sans préavis.

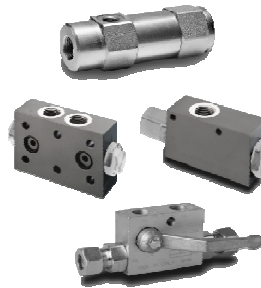
Note : All specifications in this brochure refer to the standard product at this date.
Canimex reserves the right to discontinue, modify or revise the specification shown in this brochure without notice.

Attention : Toutes les dimensions de cette brochure inscrites directement sur les dessins sont en millimètres et demeurent approximatives.
Pour des applications où les dimensions sont critiques, contacter Canimex.

Warning : All dimensions in this brochure shown on drawing are in millimetres and are approximate dimensions.
If your applications have space limitations, please contact Canimex.

INFORMATION GÉNÉRALE / GENERAL INFORMATION

Les valves anti-retour permettent le fluide de passer dans une direction et l'empêche dans la direction opposée. Différents types de valves anti-retour sont disponibles telles que les valves à billes, les clapets de retenue coniques, les sélecteurs de circuit et les valves de fermeture automatique.



Check valves or non-return valves allow or stop the fluid to flow. They allowed a one-way flow and prevent it in the other direction. Different types of check valves are available such as ball and poppet valve, shuttle and automatic shut-off valves:

Valve à bille et de forme conique : Ces types de valves anti-retour sont essentiellement un débit à sens unique et le débit de retour est bloqué. La seule différence entre la valve à bille et le clapet de forme conique est la forme de l'élément mobile.



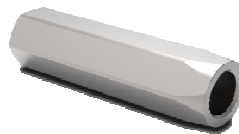
Ball and poppet valve: Those type of check valves are basically a one-way flow and the counter flow is blocked. The only difference between the ball and the poppet valve is the shape of the mobile element which is a ball and conical shape respectively.

Sélecteur de circuit: Ces types de valves anti-retour sont en forme de T. Quand la pression arrive de deux circuits différents, cette dernière arrivant d'un port pousse la bille dans le port opposé causant son blocage. Ils sont surtout utilisés dans des circuits à poursuite de pression.



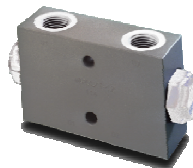
Shuttle valve: Those type of check valves is T-shaped. When the pressure is coming from two different circuits, the pressure coming from one port pushes the ball in the opposing port causing to block it. They are mostly used in load sensing pilot systems.

Valve de fermeture automatique: Ces valves sont recommandés comme un moyen de sécurité pour les cylindre qui tiennent des chargements en suspension permettant ainsi l'assurance que le chargement ne tombera pas soudainement. Le mécanisme est sensiblement pareil à une valve anti-retour, la seule différence est si le tuyau hydraulique éclate, le fluide pressurisé ira dans la direction opposée poussant un disque contre un bloc fixe causant ainsi la fermeture des ports et empêchant la charge de tomber brusquement.



Automatic shut-off valve: Those valves are recommended as a safety device for cylinders, when it is holding a suspended load so that the object can't fall due to any problem. The mechanism is almost the same as a regular check valve, the only difference is that if the hose burst, pressurized fluid goes in the opposite direction pushing the disc against the fixed block which causes the closure of ports, thus the load does not drop suddenly.

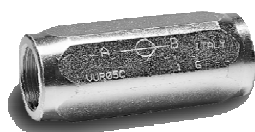
Valve anti-retour pilotée: Ce type de valve est semblable à la famille des valves anti-retour, avec en plus une ouverture possible par pressurisation du port opposé. Ce type de valve permet donc d'immobiliser un cylindre en position repos et de permettre de l'opérer en pressurant le port opposé.



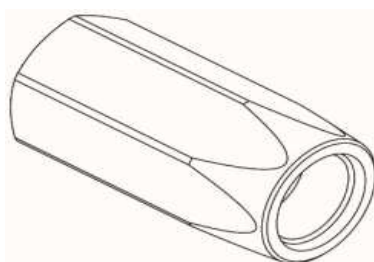
Pilot operated check valve: Those type of valve are pretty much similar as the standard check valves, however, this valve allows to unblock the direction which was prevent. This is used when the cylinder needs to stay put.

VUS

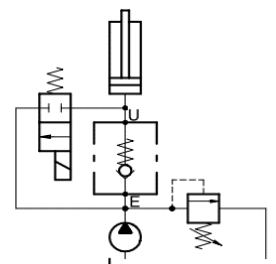
Schéma hydraulique
Hydraulic circuit



Clapet de retenue, type bille
Check valve, ball type



Application



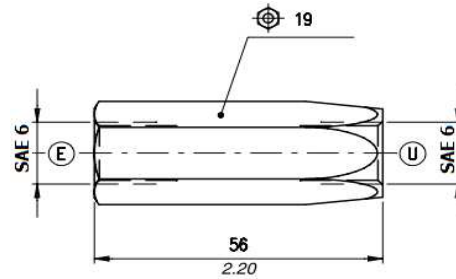
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure	Pression d'ouverture Opening pressure bar (psi)	Fuite d'huile Oil leak U --> E @ 210 bar (3050 psi)	Poids Weight
	lpm (gpm)	bar (psi)			kg (lb)
VUS14	24 (6.3)	400 (5800)	0.5 (7.3)	0.50 cm ³ /min	0.10 (0.22)
VUS38	40 (10.5)	400 (5800)			0.17 (0.37)
VUS12	60 (16)	350 (5100)			0.25 (0.55)
VUS34	100 (26)	300 (4350)			0.48 (1.06)
VUS100	150 (40)				0.96 (2.12)

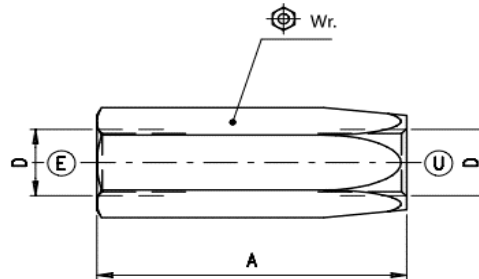
NOMENCLATURE / ORDERING CODE

VUS	12	/PA0,5	/SAE
Type	Grosueur Size	Pression d'ouverture Opening pressure	Filets Threads
VUS	14	PA0,5 0.50 bar	SAE
	38		
	12		
	34		
	100		

VUS14

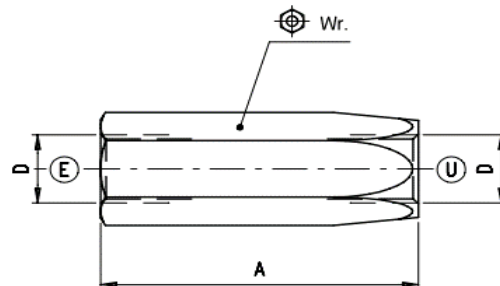


VUS38 (12)



VUS	Dimensions (mm/in)		
	A	Wr.	D
38	64/2.52	24/0.94	SAE 8
12	72/2.83	28/1.10	SAE 10

VUS34 (100)



VUS	Dimensions (mm/in)		
	A	Wr.	D
34	84/3.31	36/1.42	SAE 12
100	102/4.01	46/1.81	SAE 16

PERTE DE CHARGE - PRESSURE DROP

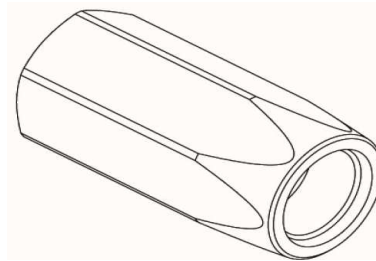
Type	Perte de charge vs débit Pressure drop vs flow	
VUS14		
VUS38 VUS12		
VUS34 VUS100		

VUC

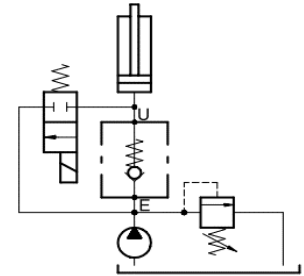
Schéma hydraulique
Hydraulic circuit



Clapet de retenue, type de forme conique
Check valve, poppet valve



Application



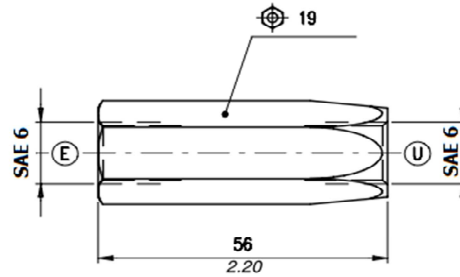
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Fuite d'huile Oil leak U --> E @ 210 bar (3050 psi)	Poids Weight
	lpm (gpm)	bar (psi)	0.25 cm ³ /min	kg (lb)
VUC14	24 (6.3)	400 (5800)	0.25 cm ³ /min	0.10 (0.22)
VUC38	40 (10.5)	400 (5800)		0.17 (0.37)
VUC12	60 (16)	350 (5100)		0.25 (0.55)
VUC34	100 (26)	300 (4350)		0.48 (1.06)
VUC100	150 (40)			0.96 (2.12)
VUC114	250 (66)	250 (3600)		1.62 (3.57)
VUC112	350 (92)			2.00 (4.41)

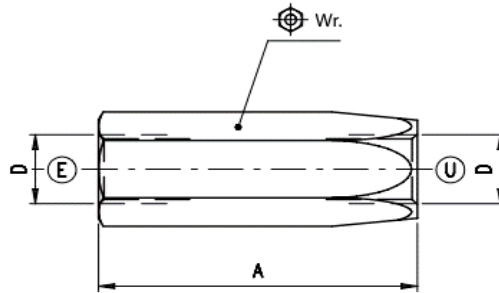
NOMENCLATURE / ORDERING CODE

VUC	12	/PA0,5	/SAE
Type	Grosseur Size	Pression d'ouverture Opening pressure	Filets Threads
VUC	14	PA0,5 0.50 bar PA5 5 bar PA10 10 bar	SAE
	38		
	12		
	34		
	100		
	114		
	112		

VUC14

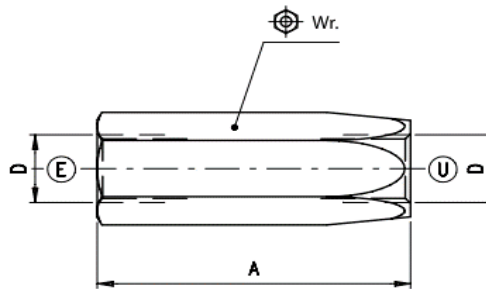


VUC38 (12)



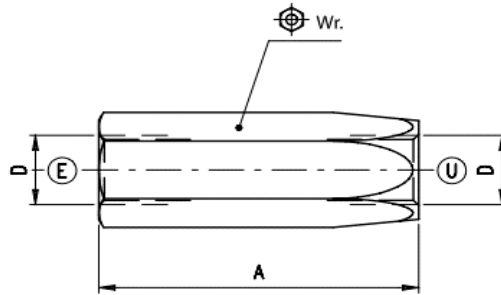
VUC	Dimensions (mm/in)		
	A	Wr.	D
38	64/2.52	24/0.94	SAE 8
12	72/2.83	28/1.10	SAE 10

VUC34 (100)



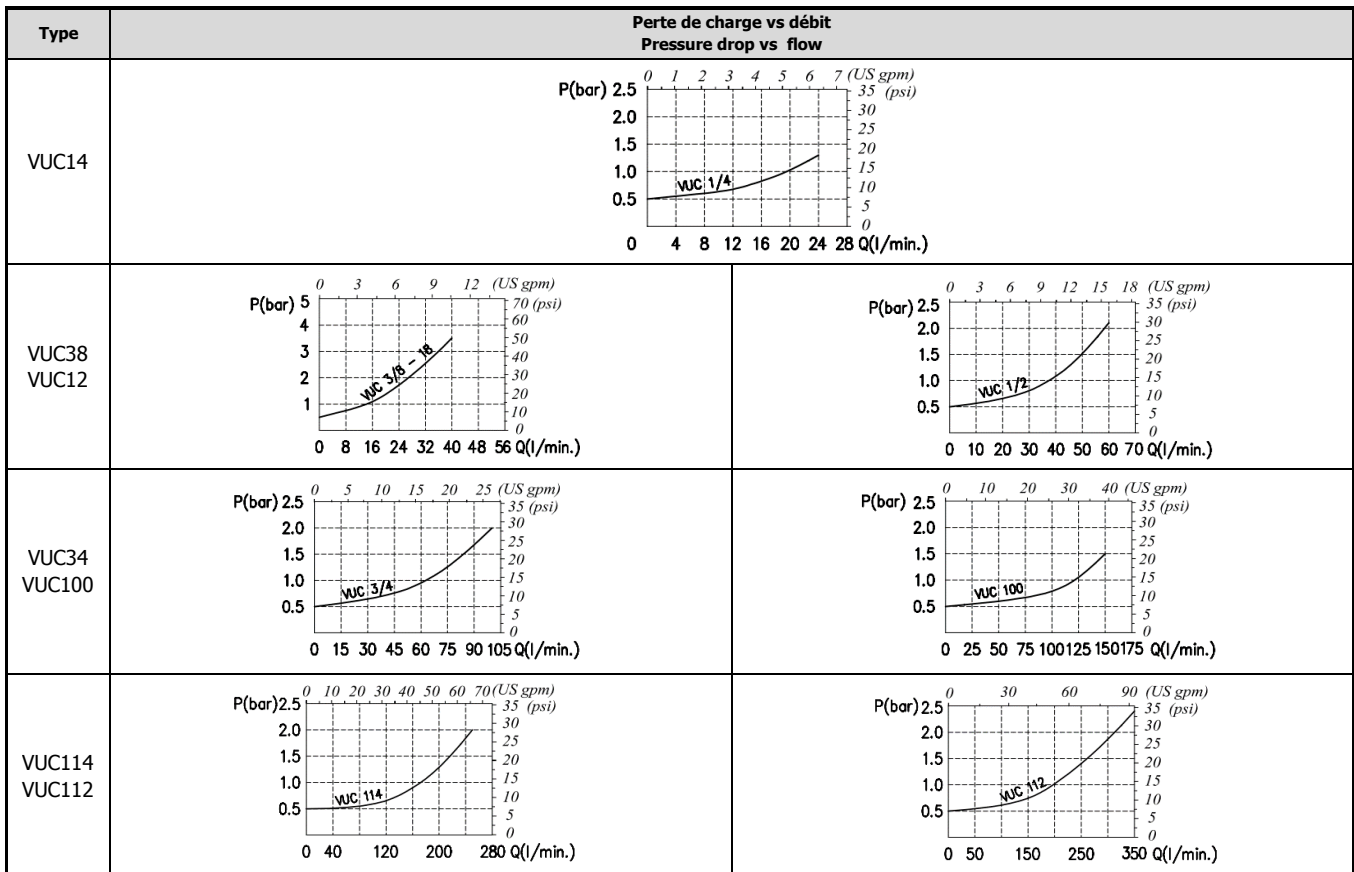
VUC	Dimensions (mm/in)		
	A	Wr.	D
34	84/3.31	36/1.42	SAE 12
100	102/4.01	46/1.81	SAE 16

VUC114 (112)



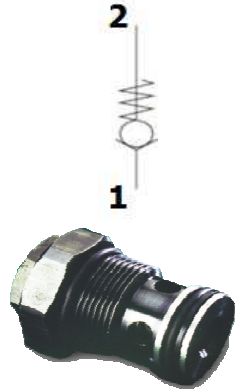
VUC	Dimensions (mm/in)		
	A	Wr.	D
114	130/5.12	55/2.16	SAE 20
112	147/5.79	60/2.36	SAE 24

PERTE DE CHARGE - PRESSURE DROP

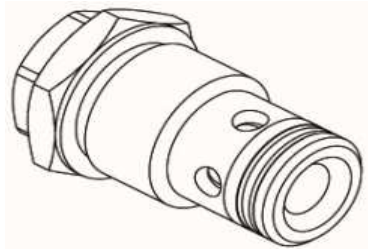


VUI

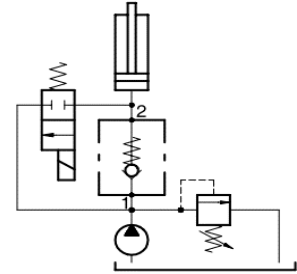
Schéma hydraulique
Hydraulic circuit



Clapet de retenue, type de forme conique
Check valve, poppet valve



Application



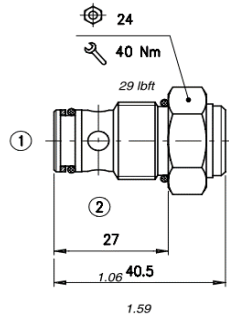
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Pression d'ouverture Opening pressure 1 --> 2	Fuite d'huile Oil leak 1 --> 2	Poids Weight
	lpm (gpm)	bar (psi)	bar (psi)	@ 210 bar (3050 psi)	kg (lb)
VUI38	25 (6.6)	400 (5800)	0.5 - 5 (7.3 - 72.5)	0.10 cm ³ /min	0.08 (0.18)
VUI12	40 (10.5)			0.25 cm ³ /min	0.15 (0.33)
VUI34	100 (26)			0.30 (0.66)	
VUI100	160 (42)			0.54 (1.19)	

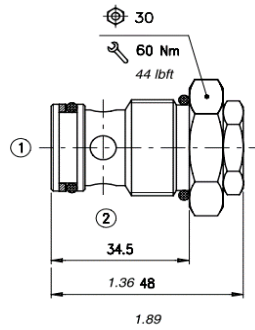
NOMENCLATURE / ORDERING CODE

VUI	12	/PA5
Type	Grosseur Size	Pression d'ouverture Opening pressure
VUI	38	PA0,5 0.50 bar PA5 5 bar
	12	
	34	
	100	

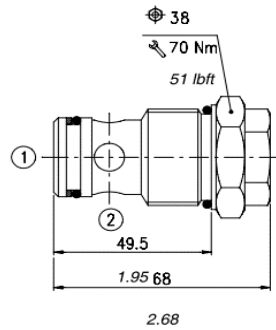
VUI38



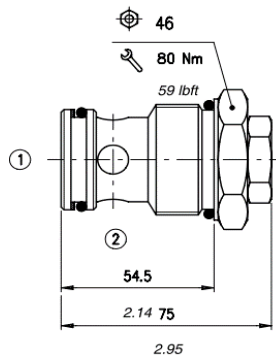
VUI12



VUI34



VUI100

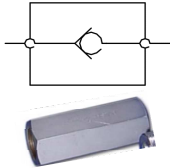


PERTE DE CHARGE - PRESSURE DROP

Type	Perte de charge vs débit Pressure drop vs flow	
VUI38		
VUI12		
VUI34		
VUI100		

CVT

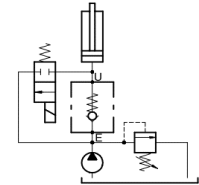
Schéma hydraulique
Hydraulic circuit



Clapet de retenue, type de forme conique
Check valve, poppet valve



Application



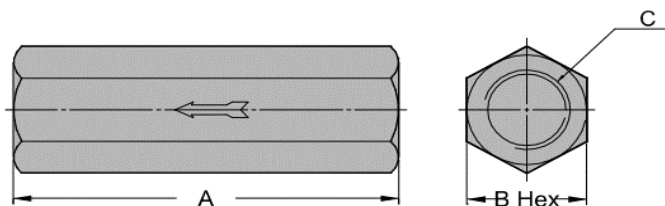
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Filets Threads	Débit nominal Nominal Flow	Pression Pressure Max.	Poids Weight
		lpm (gpm)	bar (psi)	kg (lb)
CVT-03	NPT 3/8 ; SAE 6	40 (10.6)	210 (3000)	0.18 (0.40)
CVT-04	NPT 1/2 ; SAE 8	60 (15.8)		0.33 (0.73)
CVT-06	NPT 3/4 ; SAE 12	100 (26.4)		0.48 (1.06)
CVT-08	NPT 1 ; SAE 16	150 (39.6)		1.10 (2.42)
CVT-10	NPT 1-1/4 ; SAE 20	200 (52.8)		1.98 (4.36)
CVT-12	NPT 1-1/2 ; SAE 24	280 (73.9)		2.78 (6.12)

NOMENCLATURE / ORDERING CODE

CVT	-04	-A1	-2090
Type	Grosueur Size	Pression d'ouverture Opening pressure	Filets Threads
CVT	03	A1 0.5 bar (7.25 psi) A2 5 bar (72.5 psi)	2090 NPT 2590 SAE
	04		
	06		
	08		
	10		
	12		

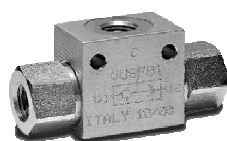
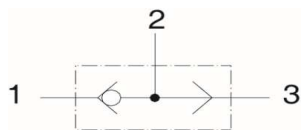
CVT



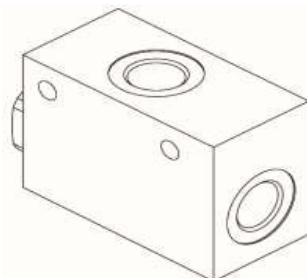
CVT	Dimensions mm (in)		
	A	B	C
03	74(2.91)	23(0.91)	3/8"
04	81(3.19)	29(1.14)	1/2"
06	91(3.58)	35(1.38)	3/4"
08	114(4.49)	46(1.81)	1"
10	133(5.24)	56(2.20)	1-1/4"
12	134(5.28)	66(2.60)	1-1/2"

VT

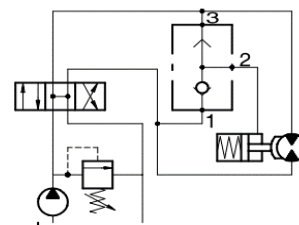
Schéma hydraulique
Hydraulic circuit



Sélecteur de circuit, type bille
Shuttle valve, ball type



Application



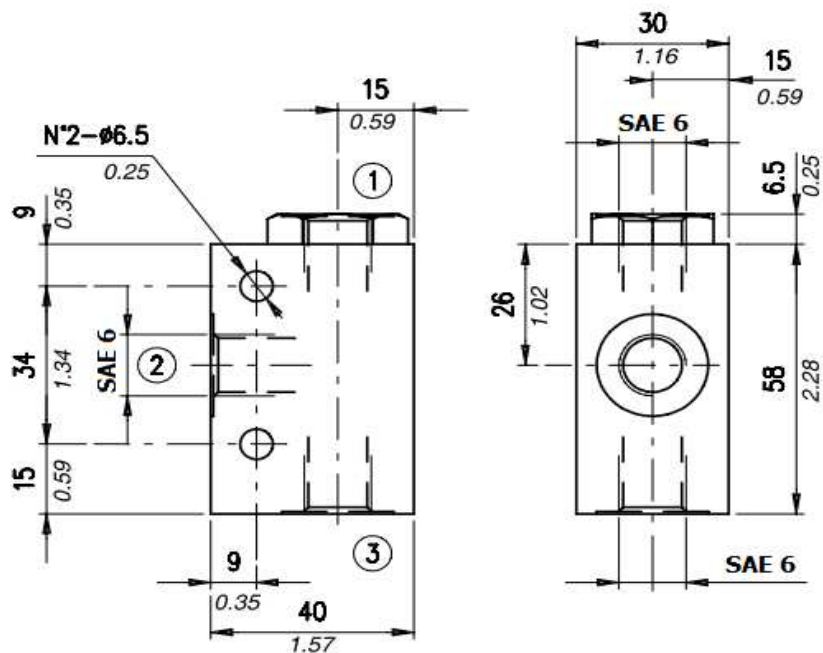
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Filets Threads	Débit nominal Nominal Flow	Pression Pressure Max.	Poids Weight
		lpm (gpm)	bar (psi)	kg (lb)
VT14	SAE6	20 (5.3)	400 (5800)	0.48 (1.06)
VT38	SAE8	35 (9.2)		0.84 (1.85)
VT12	SAE10	50 (13)		1.35 (2.98)
VT34	SAE12	100 (26)		1.95 (4.30)
VT100	SAE16	150 (40)		3.12 (6.88)

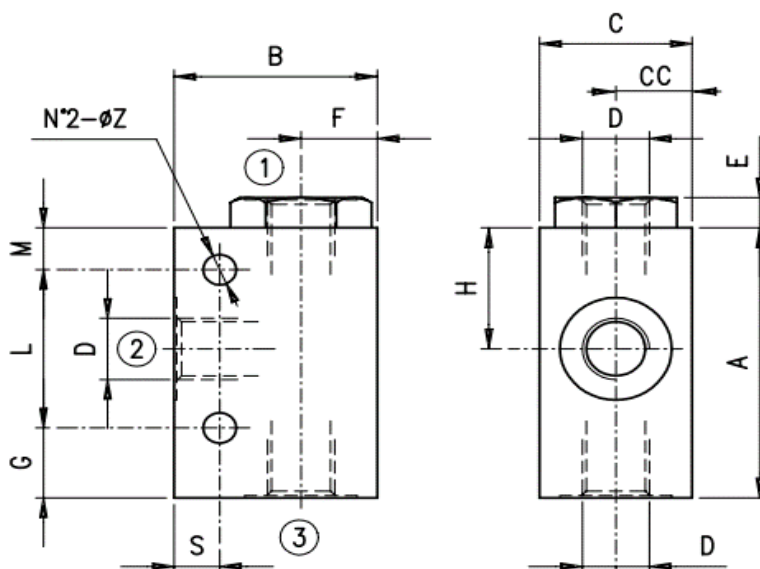
NOMENCLATURE / ORDERING CODE

VT	12	/SAE	/AC
Type	Grosueur Size	Filets Threads	Matériel Material
VT	14	SAE	AC Acier Steel
	38		
	12		
	34		
	100		

VT14

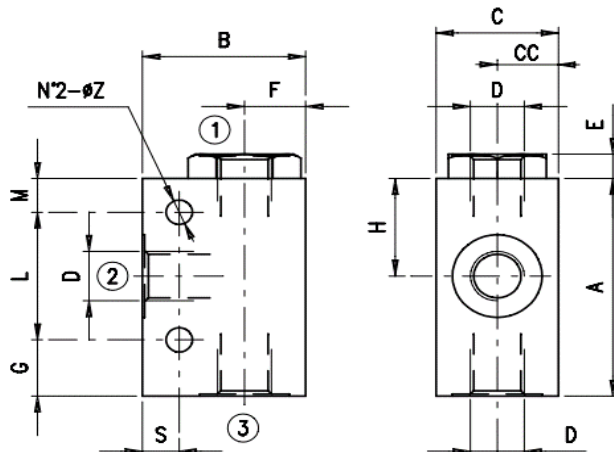


VT38 - VT12



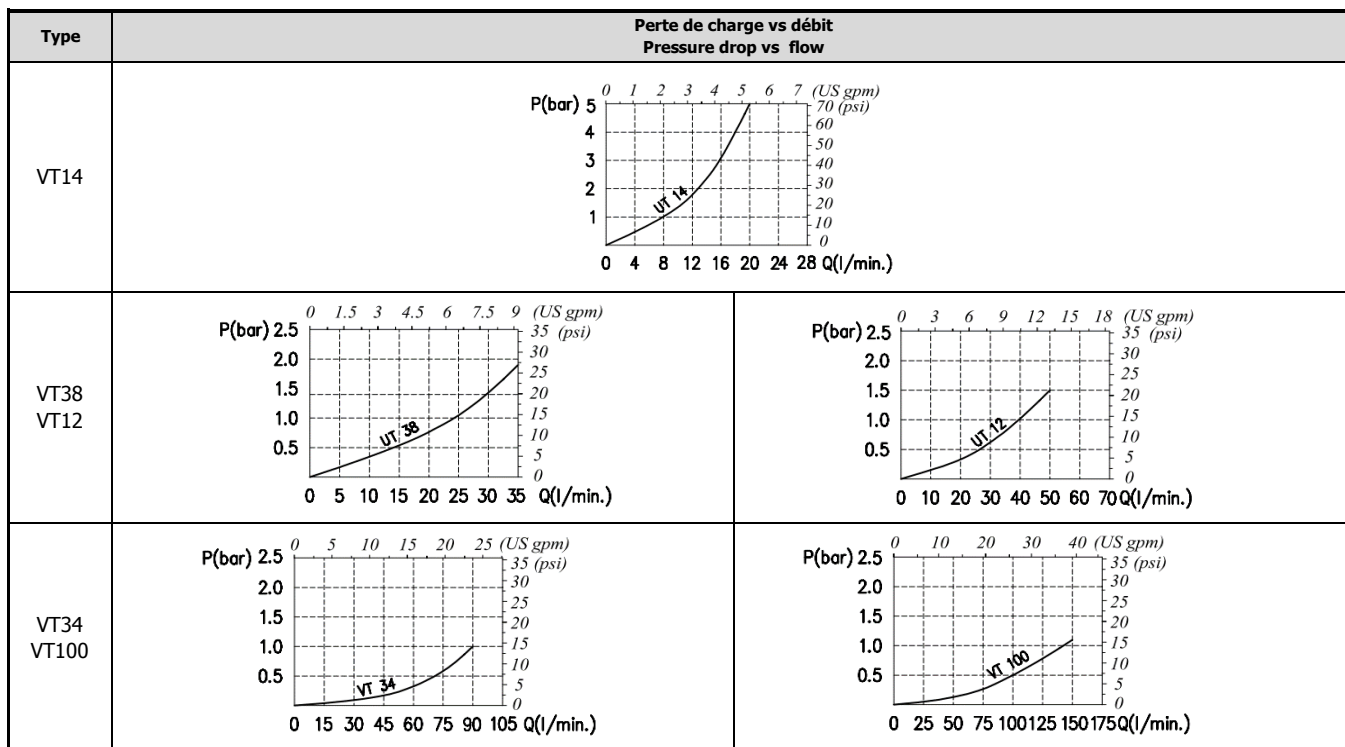
VT	Dimensions (mm/in)											
	A	B	C	CC	D	E	F	G	H	L	M-S	Z
38	70/0.75	50/1.97	35/1.38	17.5/0.71	SAE 8	6.5/0.25	19/0.75	16/0.63	31.5/1.24	45/1.77	9/0.35	6.5/0.25
12	80/3.15	60/2.36	42/1.65	21/0.83	SAE 10	8/0.31	23/0.90	18/0.71	36/1.42	52/2.05	10/0.39	8.5/0.33

VT34 - VT100



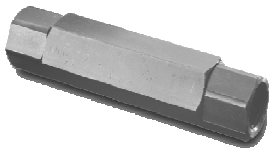
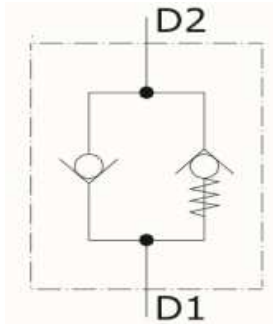
VT	Dimensions (mm/in)											
	A	B	C	CC	D	E	F	G	H	L	M-S	Z
34	90/3.54	68/2.68	50/1.97	25/0.98	SAE 12	8.5/0.33	26/1.02	19/0.75	41/1.61	60/2.36	11/0.43	8.5/0.33
100	100/3.94	82/3.23	60/2.36	30/1.18	SAE 16	10/0.39	32/1.26	22/0.87	45/1.77	66/2.60	(M) 12/0.47 (S) 11-0.43	10.5/0.41

PERTE DE CHARGE - PRESSURE DROP

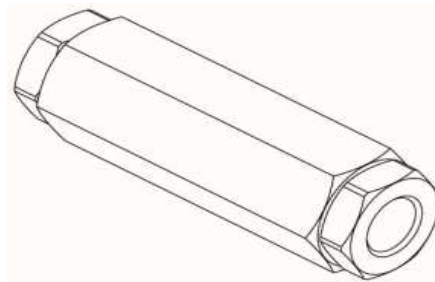


VBD

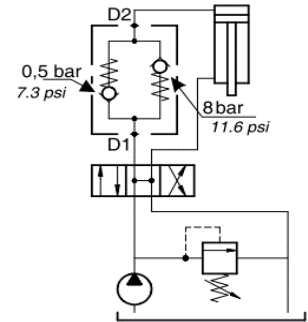
Schéma hydraulique
Hydraulic circuit



Clapet de retenue double action, type de forme conique
Double action check valve, poppet valve



Application



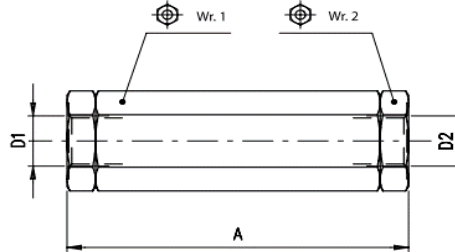
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Pression d'ouverture Opening pressure bar (psi)	Fuite d'huile Oil leak U-->E	Poids Weight
	lpm (gpm)	bar (psi)			kg (lb)
VBD38	25 (6.6)	350 (5100)	D1 à/to D2 @ 0.5 bar (7.3 psi) D2 à/to D1 @ 8 bar (116 psi)	0.25 cm ³ /min	0.46 (1.01)
VBD12	40 (10.5)				0.53 (1.17)
VBD34	70 (18)				1.5 (3.31)

NOMENCLATURE / ORDERING CODE

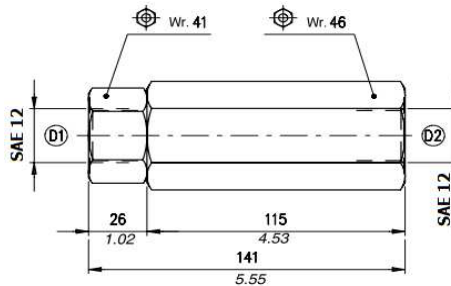
VBD	12	/PA0,5-8	/SAE
Type	Grosueur Size	Réglages de pression Pressure settings	Filets Threads
VBD	38	PA0,5-8 0.50 ; 8 bar	SAE
	12		
	34		

VBD38 - VBD12

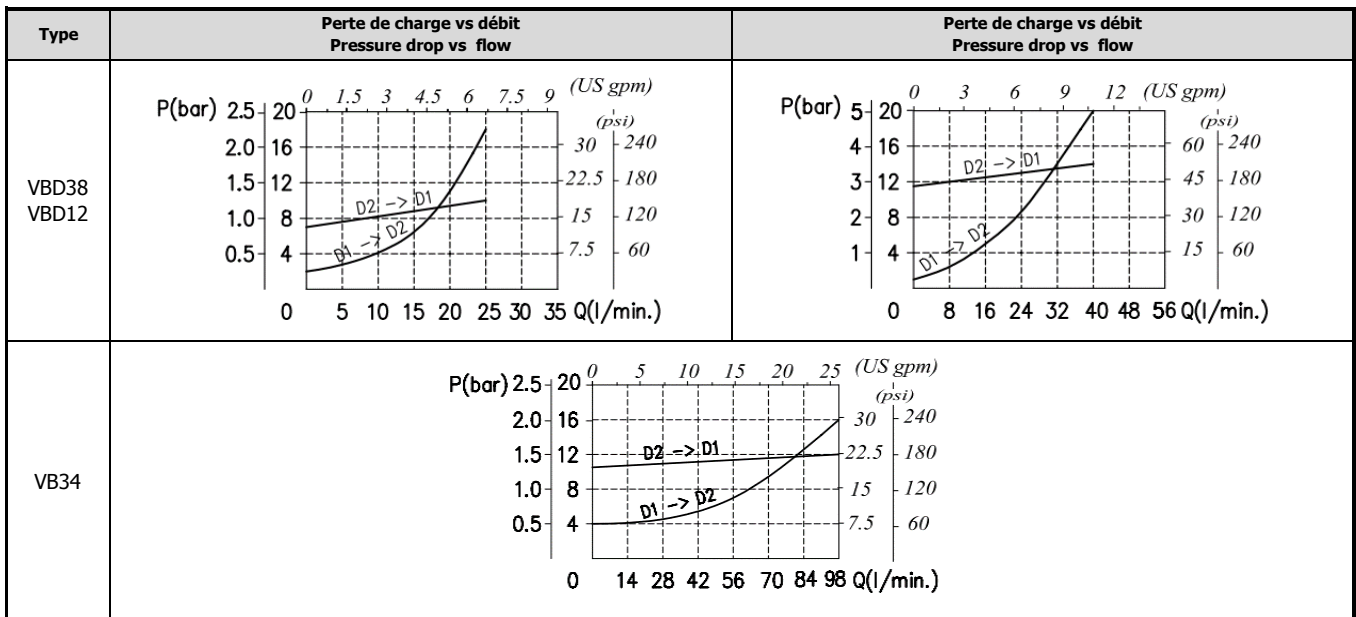


VBD	Dimensions (mm/in)			
	A	Wr.1	Wr.2	D1-D2
38	102/4.01	30/1.18	30/1.18	SAE 8
12	129/5.08	30/1.18	27/1.06	SAE 10

VBD34

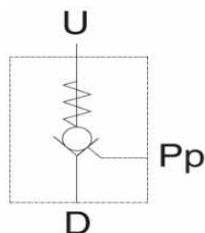


PERTE DE CHARGE - PRESSURE DROP

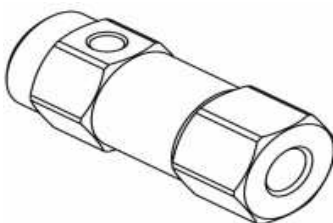


VUPSL

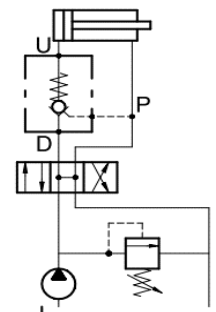
Schéma hydraulique
Hydraulic circuit



Clapet de retenue piloté, type de forme conique
Piloted check valve, poppet type



Application



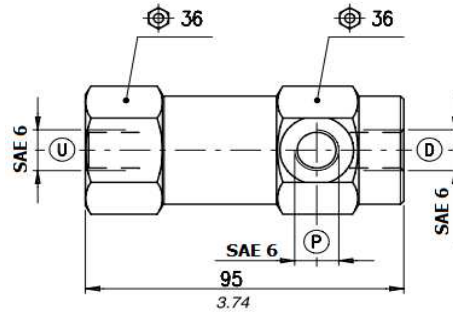
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Pression d'ouverture Opening pressure D --> U bar (psi)	Fuite d'huile Oil leak D --> U @ 210 bar (3050 psi)	Ratio pilotage Pilot ratio	Poids Weight
	lpm (gpm)	bar (psi)				kg (lb)
VUPSL14	20 (5.3)	400 (5800)	5 (72.5) avec joint with gasket 2.5 (36.3) sans joint without gasket	0.25 cm ³ /min	1:3	0.67 (1.48)
VUPSL38	35 (9.2)				1:3.2	0.95 (2.09)
VUPSL12	50 (13)	350 (5100)			1:2.8	1.55 (3.42)
VUPSL34	100 (26)	300 (4350)			1:3.1	2.57 (5.66)
VUPSL100	150 (40)				1:3	4.18 (9.21)

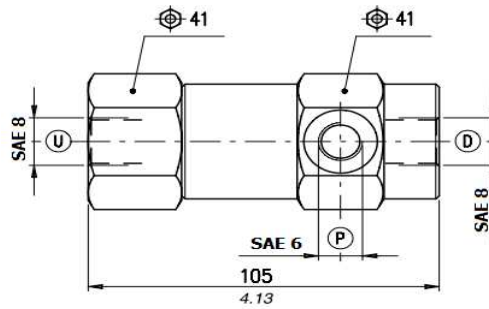
NOMENCLATURE / ORDERING CODE

VUPSL	12	/P3	/SAE
Type	Grosueur Size	Ratio pilotage Pilot Ratio	Filets Threads
VUPSL	14	P3 1:3	SAE
	38		
	12		
	34		
	100		

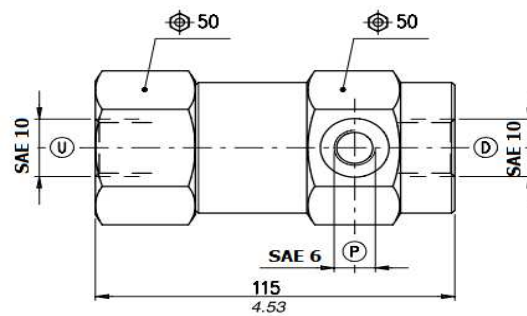
VUPSL14



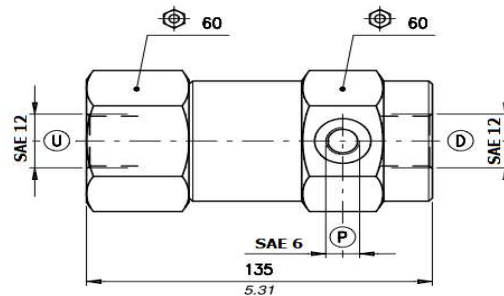
VUPSL38



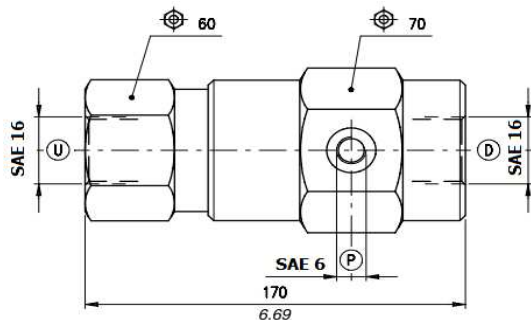
VUPSL12



VUPSL34



VUPSL100



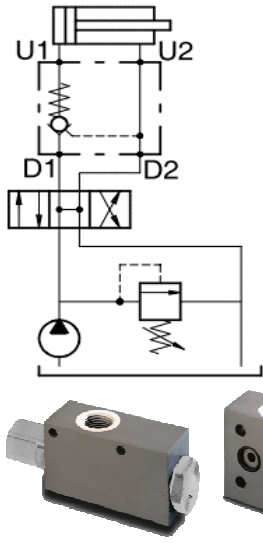
PERTE DE CHARGE - PRESSURE DROP

Type	Perte de charge vs débit Pressure drop vs flow	Perte de charge vs débit Pressure drop vs flow
VUPSL14		
VUPSL38		
VUPSL12		
VUPSL34		
VUPSL100		

VBPSL-VBPSF ANTI-RETOUR PILOTÉ / PILOT CHECK

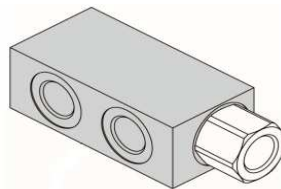
VBPSL-VBPSF

Schéma hydraulique
Hydraulic circuit



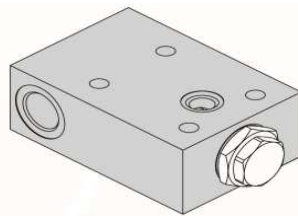
VBPSL

Clapet de retenue simple
Single acting check valve

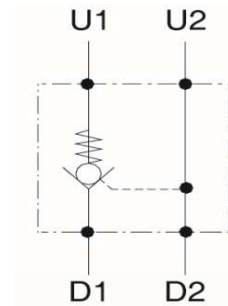


VBPSF

Clapet de retenue simple avec montage sur pompe
Single acting check valve pump mounting



Application



CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

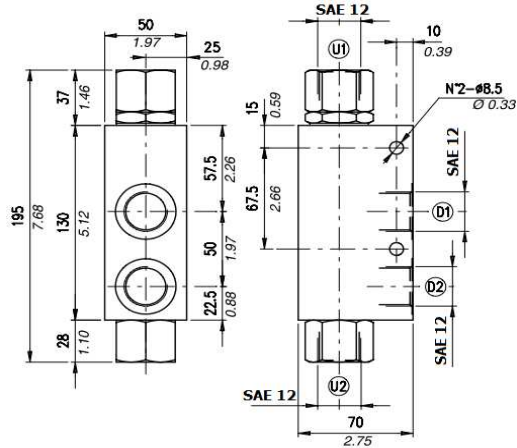
Type	Débit nominal Nominal Flow	Pression Pressure Max.	Fuite d'huile Oil leak U1 --> D1 @ 210 bar (3050 psi)	Ratio pilotage Pilot ratio	Poids Weight
	lpm (gpm)	bar (psi)			kg (lb)
VBPSL14	15 (4)	210 (3050)	0.10 cm ³ /min	1:4.5 ⁽¹⁾	0.30 (0.66)
VBPSL/VP38	25 (6.6)			1:3 ⁽²⁾	0.32 (0.71)
VBPSL38	35 (9.2)		0.25 cm ³ /min	1:4 ⁽¹⁾	0.63 (1.39)
VBPSL12	50 (13)			1:6.3 ⁽²⁾	0.65 (1.43)
VBPSL34	100 (26)			1:7.5 ⁽²⁾	1.68 (3.70)
VBPSL/T38	25 (6.6)			1:4.3	0.47 (1.04)
VBPSL/T12	50 (13)			1:4.5 ⁽¹⁾	0.63 (1.39)
				1:3 ⁽²⁾	
VBPSL/T34	100 (26)		1:4 ⁽¹⁾	1.76 (3.88)	
VBPSL/T34	100 (26)		1:6.3 ⁽²⁾	0.67 (1.48)	
VBPSF14	15 (4)		1:7.5 ⁽²⁾		
VBPSF38	35 (9.2)		0.25 cm ³ /min	1:4 ⁽¹⁾	0.64 (1.41)
VBPSF12	50 (13)			1:6.3 ⁽²⁾	
VBPSF34	100 (26)			1:7.5 ⁽²⁾	1.66 (3.66)

(1) Standard

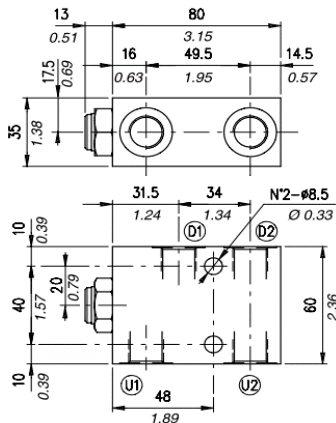
(2) Sur demande / On request

VBPSL-VBPSF ANTI-RETOUR PILOTÉ / PILOT CHECK

VBPSL34

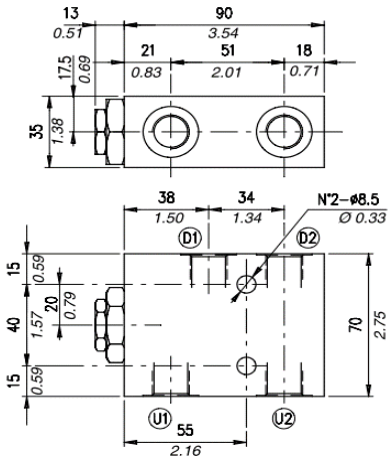


VBPSL/T38



VBPSL/T	Files / Threads	
	D1-D2	U1-U2
38	SAE 8	SAE 8

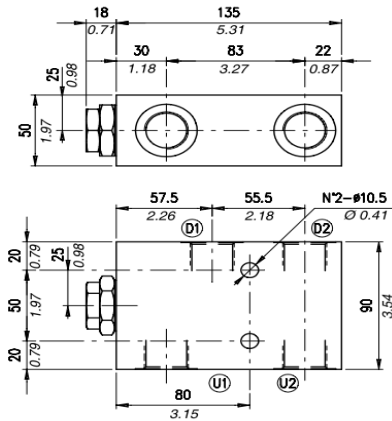
VBPSL/T12



VBPSL/T	Files / Threads	
	D1-D2	U1-U2
12	SAE 10	SAE 10

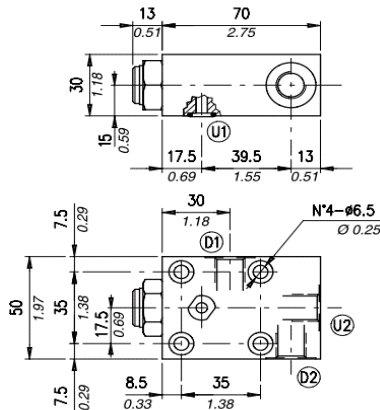
VBPSL-VBPSF ANTI-RETOUR PILOTÉ / PILOT CHECK

VBPSL/T34



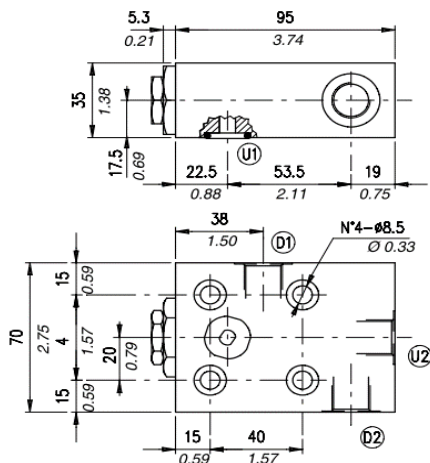
VBPSL/T	Files / Threads	
	D1-D2	U1-U2
34	SAE 12	SAE 12

VBPSF14



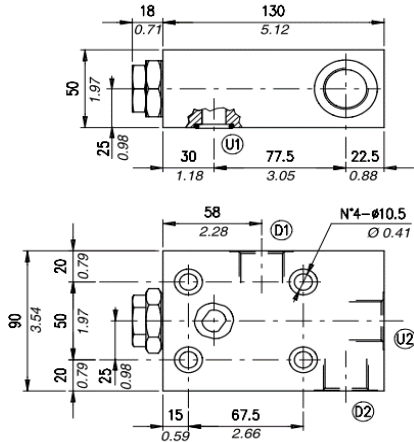
VBPSF	Dimensions (mm/in)		
	D1-D2	U2	U1
14	SAE 6	SAE 6	Ø5/0.20

VBPSF38 - VBPSF12



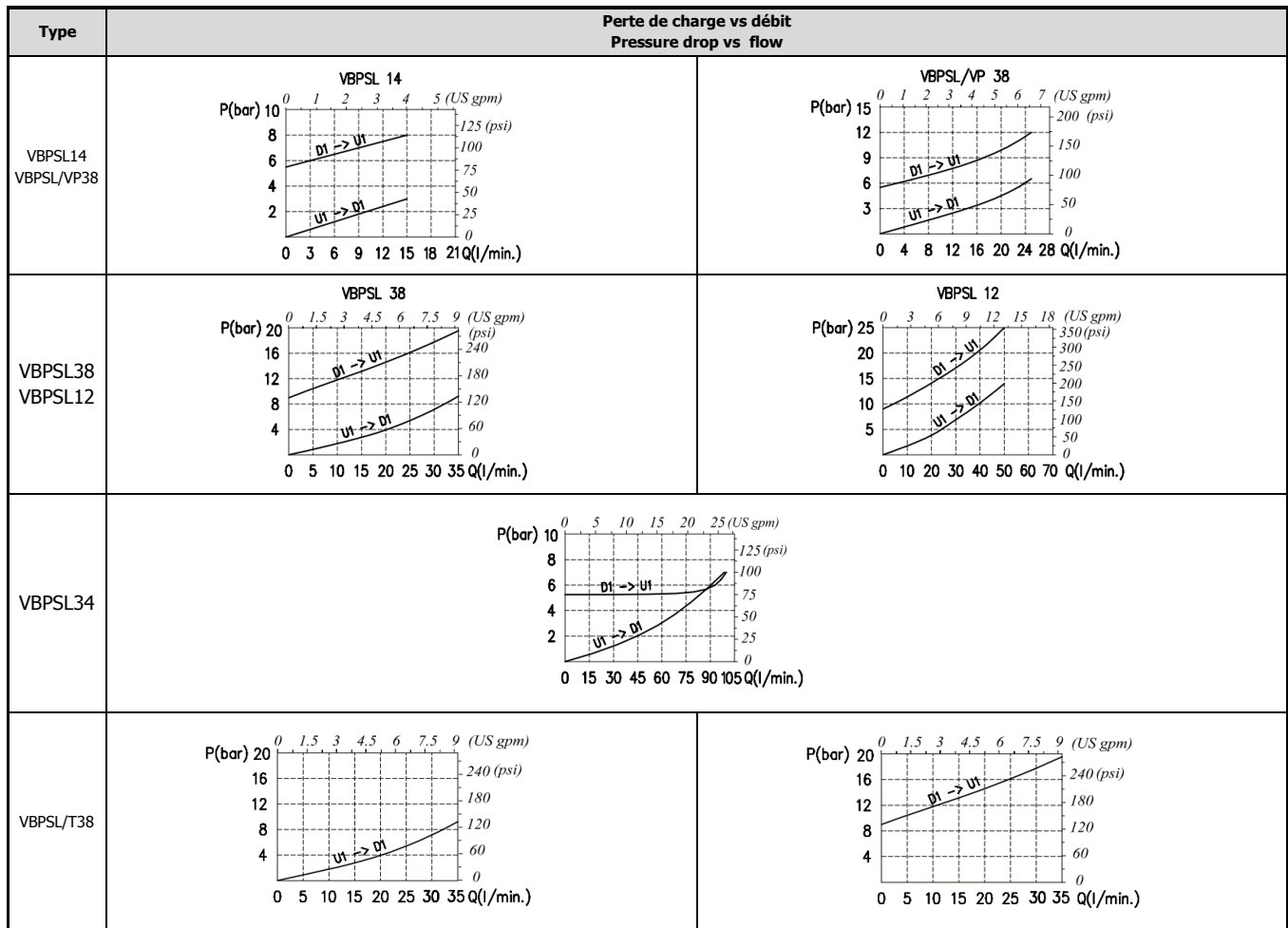
VBPSF	Dimensions (mm/in)		
	D1-D2	U2	U1
38	SAE 8	SAE 8	Ø7/0.27
12	SAE 10	SAE 10	Ø7/0.27

VBPSF34



VBPSF	Dimensions (mm/in)		
	D1-D2	U2	U1
38	SAE 12	SAE 12	Ø14/0.55

PERTE DE CHARGE - PRESSURE DROP



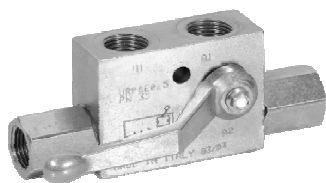
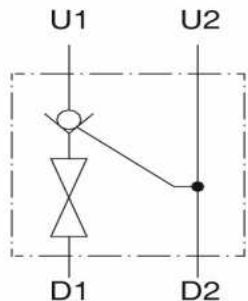
VBPSL-VBPSF ANTI-RETOUR PILOTÉ / PILOT CHECK

PERTE DE CHARGE - PRESSURE DROP

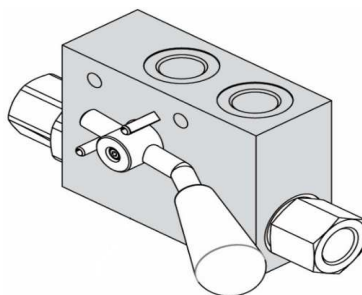
Type	Perte de charge vs débit Pressure drop vs flow	
VBPSL/T12		
VBPSLT/34		
VBPSF14		
VBPSF38 VBPSF12		
VBPSF34		

VBPSL/R

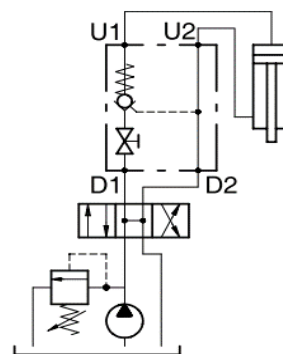
**Schéma hydraulique
Hydraulic circuit**



Valve de fermeture simple action, montage en ligne
Single acting shut-off valve, line mounting



Application



CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Fuite d'huile Oil leak U1 --> D1 @ 210 bar (3050 psi)	Ratio pilotage Pilot ratio	Poids Weight
	lpm (gpm)				bar (psi)
VBPSL/R/14	15 (4)	210 (3050)	0.10 cm ³ /min	1:4.5 ⁽¹⁾ 1:3 ⁽²⁾	0.46 (1.01)
VBPSL/R/38	35 (9.2)			1:4 ⁽¹⁾ 1:6.3 ⁽²⁾	0.94 (2.07)
VBPSL/R/12	50 (13)			1:7.5 ⁽²⁾	0.95 (2.09)

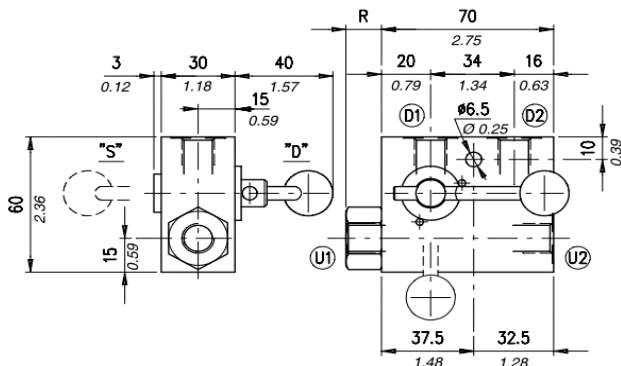
(1) Standard

(2) Sur demande/On request

NOMENCLATURE / ORDERING CODE

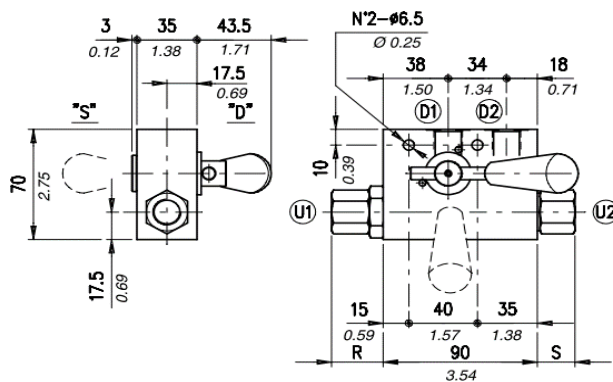
VBPSL/R	/D12	/P4	/SAE
Type	Grosseur Size	Ratio pilotage Pilot Ratio	Filets Threads
VBPSL/R	D14 or S14	P4 1:4	SAE
	D38 or S38		
	D12 or S12		

VBPSL/R14



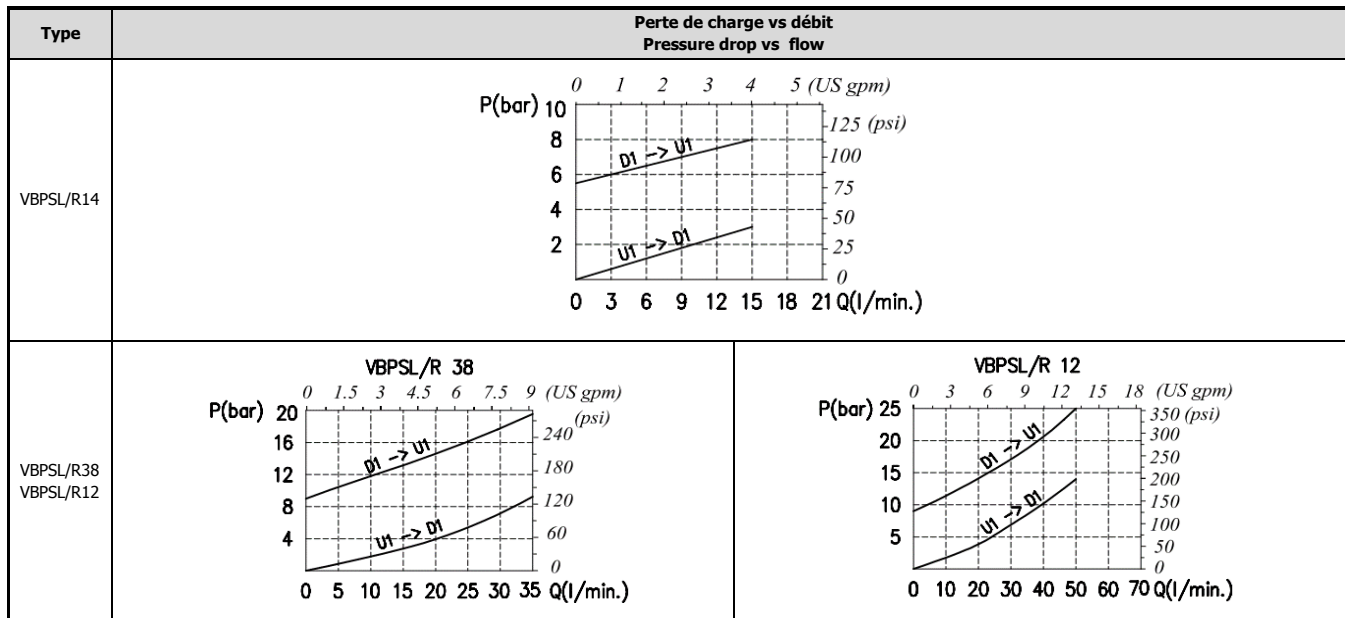
VBPSL/R	Dimensions (mm/in)		
	D1-D2	D2-U2	R
14	SAE 6	SAE 6	14.5/0.57

VBPSL/R38 - VBPSL/R12



VBPSL/R	Dimensions (mm/in)			
	D1	D2	R	S
38	SAE 8	SAE 8	30/1.18	22/0.87
12	SAE 10	SAE 10	33/1.30	25/0.98

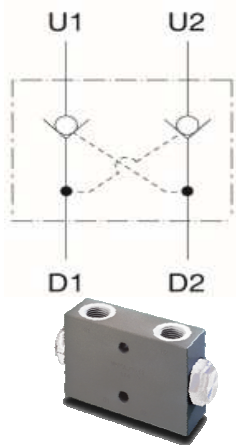
PERTE DE CHARGE - PRESSURE DROP



VBPDL-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

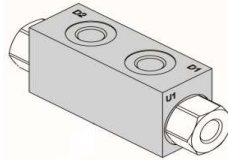
VBPDL-VBPDF

Schéma hydraulique
Hydraulic circuit



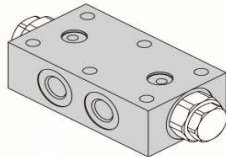
VBPDL

Clapet de retenue double
Double acting check valve

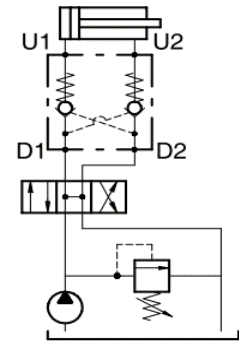


VBPDF

Clapet de retenue double avec montage sur pompe
Double acting check valve pump mounting



Application



CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Fuite d'huile Oil leak U1(U2)-->D1(D2) @ 210 bar (3050 psi)	Ratio pilotage Pilot ratio	Poids Weight
	lpm (gpm)				bar (psi)
VBPDL14	15 (4)	210 (3050)	0.10 cm ³ /min	1:4.5 ⁽¹⁾	0.40 (0.88)
VBPDL/VP38	25 (6.6)			1:3 ⁽²⁾	0.40 (0.88)
VBPDL38	35 (9.2)		1:4 ⁽¹⁾	0.78 (1.72)	
VBPDL12	50(13)		1:6.3 ⁽²⁾	0.81 (1.79)	
VBPDL34	100 (26)		1:7.5 ⁽²⁾	2.14 (4.72)	
VBPDL14	15 (4)		1:4.3	0.40 (0.88)	
VBPDL/T38	25 (6.6)		1:4.5 ⁽¹⁾	0.63 (1.39)	
VBPDL/T12	50 (13)		1:3 ⁽²⁾	0.87 (1.92)	
VBPDL/T34	100 (26)		1:4 ⁽¹⁾	2.30 (5.07)	
VBPDL/T12	50 (13)		1:6.3 ⁽²⁾	0.87 (1.87)	
VBPDL/T34	100 (26)		1:7.5 ⁽²⁾	0.87 (1.87)	
VBPDL/T12	50 (13)		1:4.3	2.28 (5.03)	
VBPDL/T34	100 (26)		1:4.5 ⁽¹⁾	0.47 (1.04)	
VBPDL/T12	50 (13)		1:2.5 ⁽²⁾	0.87 (1.87)	
VBPDL/T34	100 (26)		1:4 ⁽¹⁾	0.87 (1.87)	
VBPDL/T12	50 (13)		1:6.3 ⁽²⁾	0.87 (1.87)	
VBPDL/T34	100 (26)	1:7.5 ⁽²⁾	0.87 (1.87)		
VBPDL/T12	50 (13)	1:4.3	2.28 (5.03)		

(1) Standard

(2) Sur demande/On request

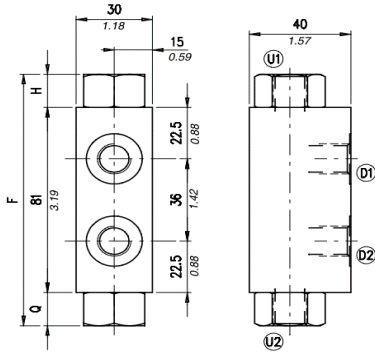
| VBPDF-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

NOMENCLATURE / ORDERING CODE

VBPDF	12	/P4	/SAE	-FF7
Type	Grosueur Size	Ratio pilotage Pilot Ratio	Filets Threads	Trous de fixation Fixing holes
VBPDF VBPDF/VP VBPDF/T	14	P4 1:4	SAE	Rien (sans trous) Omit (no holes) FF7 7mm
	38			
	12			
	34			
	100			
VBPDF	14			
	38			
	12			
	34			

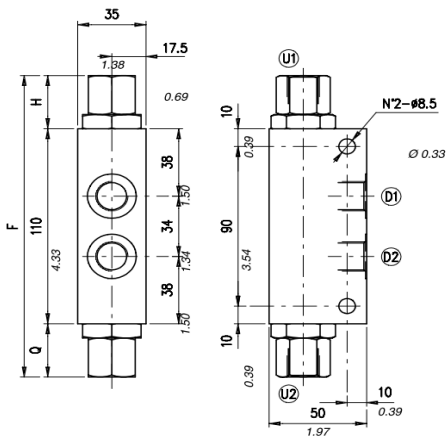
VBPDL-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

VBPD14 - VBPD/VP38



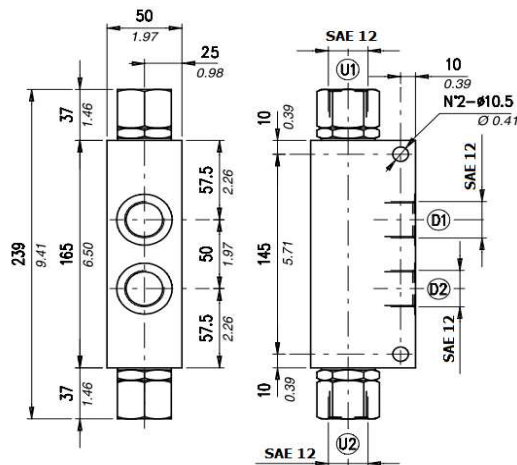
VBPDL	Dimensions (mm/in)				
	D1-D2	U1-U2	F	H	Q
14	SAE 6	SAE 6	110/4.33	14.5/0.57	14.5/0.57
VP38	SAE 8	SAE 8	120/4.72	19.5/0.77	19.5/0.77

VBPD138 - VBPD12



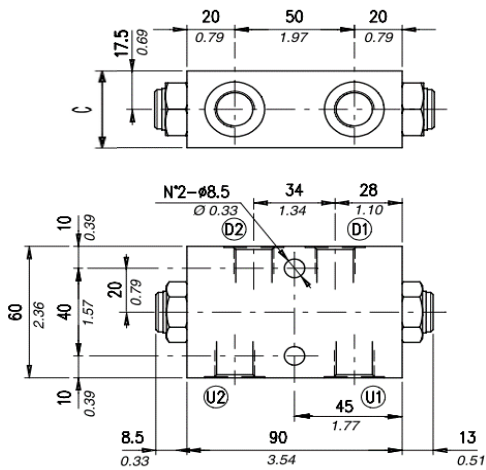
VBPDL	Dimensions (mm/in)				
	D1-D2	U1-U2	F	H	Q
38	SAE 8	SAE 8	170/6.69	30/1.18	30/1.18
12	SAE 10	SAE 10	176/6.93	33/1.30	33/1.30

VBPD134



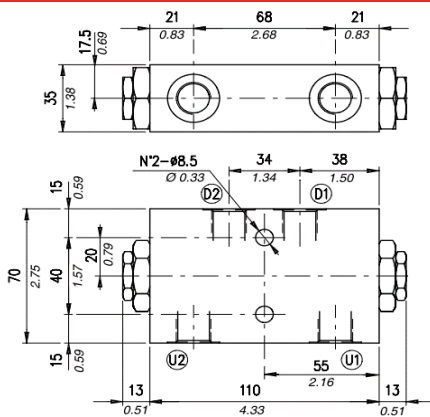
VBPDF-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

VBPDF/T14 - VBPDF/T38



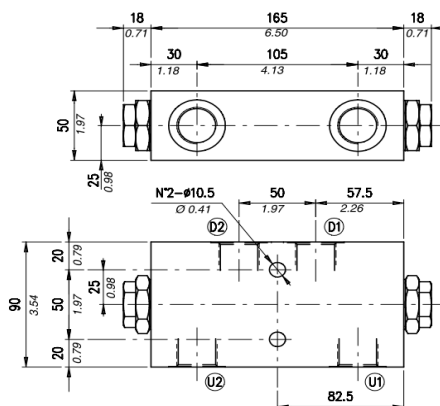
VBPDF/T	Dimensions (mm/in)		
	D1-D2	U1-U2	C
14	SAE 6	SAE 6	30/1.18
38	SAE 8	SAE 8	35/1.38

VBPDF/T12



VBPDF/T	Filets / Threads	
	D1-D2	U1-U2
12	SAE 10	SAE 10

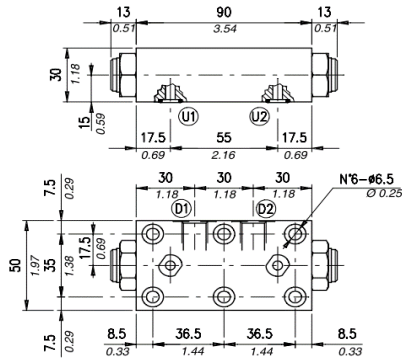
VBPDF/T34



VBPDF/T	Filets / Threads	
	D1-D2	U1-U2
34	SAE 12	SAE 12

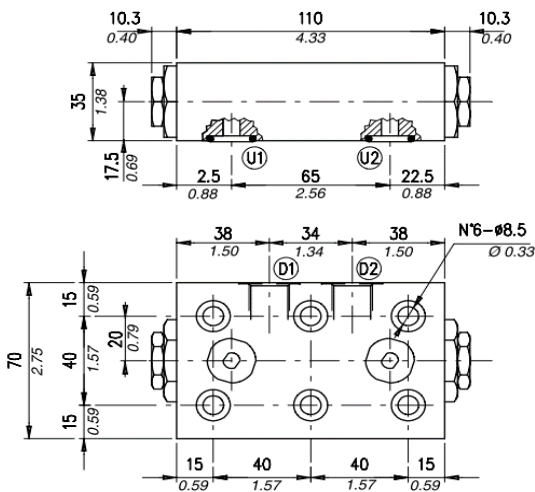
VBPDF-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

VBPDF14



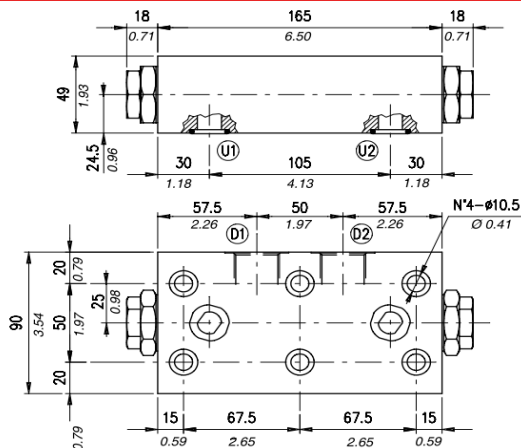
VBPDF	Dimensions (mm/in)	
	D1-D2	U1-U2
14	SAE 6	Ø5/0.20

VBPDF38 - VBPDF12



VBPDF	Dimensions (mm/in)		
	D1-D2	U2	U1
38	SAE 8	SAE 8	Ø7/0.27
12	SAE 10	SAE 10	Ø7/0.27

VBPDF34



VBPDF	Dimensions (mm/in)	
	D1-D2	U1-U2
34	SAE 12	Ø14/0.55

| VBPDF-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

PERTE DE CHARGE - PRESSURE DROP

Type	Perte de charge vs débit Pressure drop vs flow	
VBPDF14 VBPDF/VP38		
VBPDF38 VBPDF12		
VBPDF34		
VBPDF/T38		
VBPDF/T12		

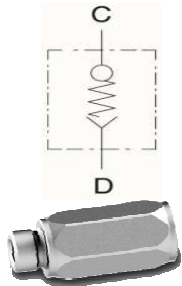
VBPDF-VBPDF ANTI-RETOUR PILOTÉ / PILOT CHECK

PERTE DE CHARGE - PRESSURE DROP

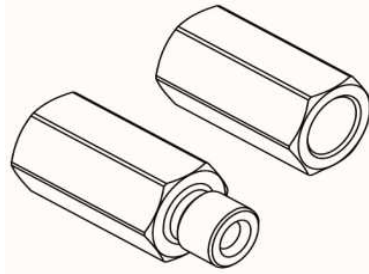
Type	Perte de charge vs débit Pressure drop vs flow	
VBPDF/T34		
VBPDF14		
VBPDF38		
VBPDF34		

VB

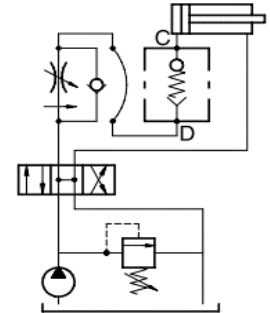
Schéma hydraulique
Hydraulic circuit



Valve de fermeture automatique
Hose burst valve



Application



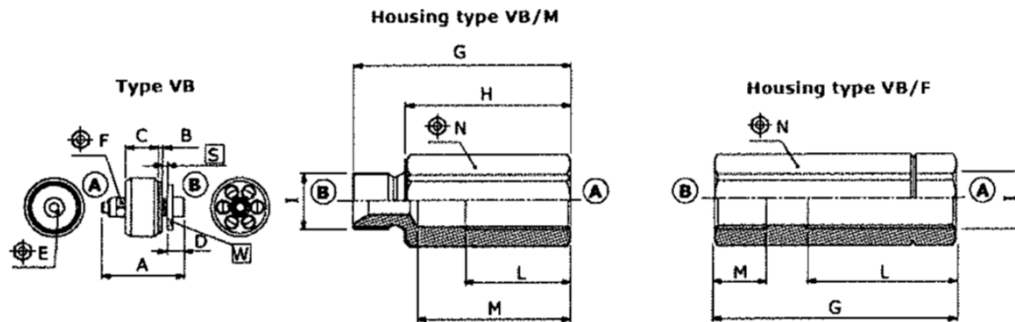
CARACTÉRISTIQUES TECHNIQUES - TECHNICAL CHARACTERISTICS

Type	Débit nominal Nominal Flow	Pression Pressure Max.	Débit pré réglé Standard flow setting	Poids app. Appr. weight		
	lpm (gpm)	bar (psi)	lpm (gpm)	kg (lb)		
VB14	30 (7,9)	350 (5100)	18.5 (4.89)	0.01 (0.022)		
VB/M14				0.01 (0.22)		
VB/F14						
VB38	45 (11.9)		350 (5100)	35.5 (9.38)	0.015 (0.033)	
VB/M38					0.18 (0.40)	
VB/F38						
VB12	65 (17.2)			350 (5100)	60 (15.85)	0.025 (0.055)
VB/M12						0.31 (0.69)
VB/F12						
VB34	170 (44.9)		350 (5100)		149 (39.36)	0.045 (0.1)
VB/M34						0.56 (1.23)
VB/F34						
VB100	225 (59.4)	350 (5100)			190 (50.19)	0.098 (0.220)
VB/M100						0.91 (2.0)
VB/F100						

NOMENCLATURE / ORDERING CODE

VB	14	/SAE
Type	Grosueur Size	Filets Threads
VB	14	SAE
VB/F	38	
F-F	12	
VB/M	34	
M-F	100	

DIMENSIONS



VBPSL	Dimensions (mm/in)											
	A	B	C	D	ØE	ØF	G	H	I	L	M	Hex. N
VB14	19/0.75	1/0.04	7/0.27	5/0.20	5.5/0.22	2.5/0.10						
VB14/M							50/1.97	38/1.50	SAE 6	23/0.90	31/1.22	19/0.75
VB14/F							50/1.97		SAE 6	20/0.79	12/0.47	19/0.75
VB38	23/0.90	1.5/0.06	9.5/0.37	5/0.20	5.5/0.22	2.5/0.10						
VB38/M							60/2.36	48/1.89	SAE 8	30/1.18	43/1.69	22/0.87
VB38/F									SAE 8	27/1.06	14/0.55	22/0.87
VB12	29/1.14	1.5/0.06	11.5/0.45	6/0.23	7/0.28	3/0.12						
VB12/M							63/2.48	49/1.93	SAE10	33/1.30	45/1.77	27/1.06
VB12/F									SAE 10	33/1.30	19/0.75	27/1.06
VB34	34/1.34	2.5/0.10	15.5/0.61	6/0.23	7/0.28	3/0.12						
VB34/M							75/2.95	59/2.32	SAE 12	36/1.42	50/1.97	32/1.26
VB34/F									SAE 12	36/1.42	19/0.75	32/1.26
VB100	40/1.57	1.5/0.06	18.5/0.33	8.5/0.33	8/0.32	4/0.16						
VB100/M							88/3.46	70/2.75	SAE 16	46/1.81	60/2.36	41/1.61
VB100/F									SAE 16	46/1.81	18/0.71	41/1.61

NOTES TECHNIQUES / TECHNICAL NOTES

DIMENSION DES FILETS / THREADS SIZE

SAE		
Filets Threads	Dimensions	Code
SAE4	7/16-20 UNF	OZ
SAE6	9/16-18 UNF	OA
SAE8	3/4-16 UNF	OB
SAE10	7/8-14 UNF	OC
SAE12	1-1/16-12 UNF	OD
SAE14	1-3/16-12 UNF	OE
SAE16	1-5/16-12 UNF	OF
SAE20	1-5/8-12 UNF	OG
SAE24	1-7/8-12 UNF	OH
SAE32	2-1/2-12 UNF	OI
SAE48	3-3/8-12 UNF	OJ

NPT		
Filets Threads	Dimensions	Code
NPT 1/8	1/8"-27	NA
NPT 1/4	1/4"-28	NB
NPT 3/8	3/8"-18	NC
NPT 1/2	1/2"-14	ND
NPT 3/4	3/4"-14	NE
NPT 1	1" - 11-1/2	NF
NPT 1-1/4	1-1/4" - 11-1/2	NG
NPT 1-1/2	1-1/2" - 11-1/2	NH
NPT 2	2" - 11-1/2	NL
NPT 2-1/2	2-1/2" - 8	NM
NPT 3	3" - 8	NN
NPT 4	4" - 8	NO
NPT 6	6" - 8	NQ

Tube Hosebarb	
Dimensions	Code
1"	TF
1-1/4"	TG
1-1/2"	TH
2"	TL

CONVERSION

Pression / Pressure	
1 psi = 0,0689655 bar	
psi	bar
100	6,9
500	34,5
650	44,8
1000	69,0
1500	103,5
2000	137,9
2250	155,2
2500	172,4
2750	189,7
3500	241,4
4000	275,9
5000	344,8

Débit / Flow	
1 gpm = 3,785 lpm	
gpm	lpm
0,5	1,9
1	3,8
2	7,6
3	11,4
4	15,1
5	18,9
10	37,8
15	56,8
20	75,7
30	113,6
40	151,4
75	283,9

NOTES TECHNIQUES / TECHNICAL NOTES

CONVERSION

Puissance / Power	
1 hp = 0,746 kw	
hp	kw
0,5	0,37
1	0,75
2	1,49
3	2,24
4	2,98
5	3,73
10	7,46

Puissance / Power	
1 hp = 0,746 kw	
hp	kw
15	11,19
20	14,92
25	18,65
30	22,38
40	29,84
50	37,30
75	55,95

FORMULES / FORMULAS

UNITÉS ANGLAISES / ENGLISH UNITS

$$Q_{th} = \frac{D \times N}{231}$$

$$HP_{th} = \frac{Q \times P}{1714} = \frac{T \times N}{5252}$$

$$T_{th} = \frac{D \times P}{75.4}$$

$$N_{th} = \frac{Q \times 231}{D} = \frac{HP \times 5252}{T}$$

Q = Débit / Flow (gpm)
D = Cylindrée / Displacement (in³/r)
N = Vitesse de rotation / Speed (rpm)
P = Pression / Pressure (psi)
HP = Puissance / Power (hp)
T = Couple / Torque (lb-ft)

UNITÉS MÉTRIQUES / METRIC UNITS

$$Q_{th} = \frac{D \times N}{1000}$$

$$HP_{th} = \frac{Q \times P}{600} = \frac{T \times N}{9543}$$

$$T_{th} = \frac{D \times P}{62.83}$$

$$N_{th} = \frac{Q \times 1000}{D} = \frac{HP \times 9543}{T}$$

Q = Débit / Flow (lpm)
D = Cylindrée / Displacement (cm³/r)
N = Vitesse de rotation / Speed (rpm)
P = Pression / Pressure (bar)
HP = Puissance / Power (kW)
T = Couple / Torque (Nm)

EFFICACITÉS POUR POMPES HYDRAULIQUES / EFFICIENCIES FOR HYDRAULIC PUMPS

$$Q = Q_{th} \times \eta_v \quad \eta_v = \text{Efficacité volumétrique / Volumetric efficiency} = 0.97$$

$$T = \frac{T_{th}}{\eta_{hm}} \quad \eta_{hm} = \text{Efficacité hydro-mécanique / Hydro-mechanical efficiency} = 0.88$$

$$HP = \frac{HP_{th}}{\eta_t} \quad \eta_t = \text{Efficacité totale / Overall efficiency} = 0.85$$

GARANTIE

Canimex inc. ne sera pas responsable des délais occasionnés par les exigences du distributeur, les difficultés ouvrières, les dommages à l'entrepôt, les accidents de toutes sortes, les fléaux de la nature, le manque de marchandises, les décisions gouvernementales ou toute autre cause de force majeure. La responsabilité de Canimex inc. sera limitée à la garantie émise par le fabricant. La garantie de Canimex inc. concernant tous les produits hydrauliques ne saurait en aucun cas excéder celle du fabricant. Ces produits sont garantis contre tout défaut pour une période d'un an à compter de la date de facturation de ces produits. En regard des produits qui auront été jugés défectueux pendant cette période, notre seule responsabilité est de remplacer ces produits sans frais, F.A.B. notre entrepôt. Cette garantie ne s'applique pas si le défaut est dû à un emploi abusif; à la négligence (incluant, mais non limité à, un mauvais entretien ou un entreposage inadéquat); à un accident; à une mauvaise installation; à une modification (incluant, mais non limité à, l'utilisation de pièces non conformes); à un mauvais ajustement ou à une mauvaise réparation; à une huile inadéquate; à la détérioration due à une réaction chimique; à l'usure due à la présence d'un produit. Aucune de ces circonstances ne saurait constituer un défaut au sens de la garantie. Canimex inc. ne peut être tenue responsable des dommages directs ou indirects, y compris ceux de nature accidentelle ou consécutifs d'un défaut. Canimex inc. ne sera pas responsable des délais causés par un défaut quelconque, ni pour les réparations effectuées par autrui. Les réparations faites par quelqu'un d'autre que Canimex inc. ne sauraient lier Canimex inc., et rendront toutes les garanties nulles et sans effet.

WARRANTY

Canimex Inc. shall not be responsible for delays caused by distributor's request, labour troubles, damage to warehouse, accidents of any kind, acts of God, shortage in merchandise, governmental regulations or other causes similar or otherwise beyond Canimex Inc.'s control. Canimex Inc.'s responsibility shall be limited to the warranty of the manufacturer. Canimex Inc.'s warranty regarding all hydraulic products shall not exceed manufacturer's warranty. Those products are guaranteed against defects in workmanship and material for the period of one year upon invoicing goods. As to products or parts thereof, which Canimex Inc. finds to have been defective during the warranty period, Canimex Inc.'s sole responsibility hereunder shall be to replace the defective hydraulic parts without charge, F.O.B. Canimex Inc.'s warehouse. This warranty shall not apply to any product which has been subjected to misuse; misapplication, neglect (including but not limited to improper maintenance and storage); accident, improper installation, modification (including but not limited to use of unauthorized parts of attachment), adjustment or repair; inappropriate type of oil; deterioration by chemical action and wear, caused by the presence of abrasive materials, and/or by regular use of the product. None of these circumstances shall constitute a defect pertaining to the mentioned warranty. Canimex Inc. is not liable for damages of any sort whatsoever, including incidental or consequential damages. Canimex Inc. will not be liable for delays caused by said defects and will not be responsible for work or repairs done by others will automatically void the guarantee.



Chez CANIMEX, nous redéfinissons les fondements du service, jour après jour.

Les produits de qualité que nous concevons, produisons, assemblons et importons sont le fruit de notre implication proactive.

C'est plus que notre manière de fonctionner. C'est la manière dont nous aimons fonctionner. C'est ce qui fait toute la différence pour nos clients – et pour nous.



Canimex head office

At CANIMEX we redefine the meaning of service every day.

The top-quality products we import, design, assemble and produce are supported by our proactive involvement.

More than just the way we do business. It's the way we like to do business. And that makes all the difference in the world to our customers – and to us.

**Division *Hydraulique*
et *Électronique***

CANIMEX INC.

285, Saint-Georges, Drummondville
(Québec) Canada J2C 4H3

1-855-777-1335 | 1-819-477-1335

canimex.com | hyd@canimex.com

