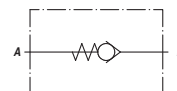
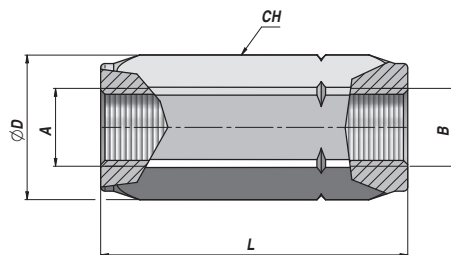
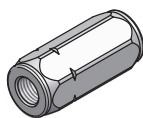


VUR/C - VU

CLAPET ANTI-RETOUR (ETANCHEITE PAR CONE)
CHECK VALVE (POPPET TYPE)

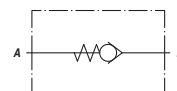
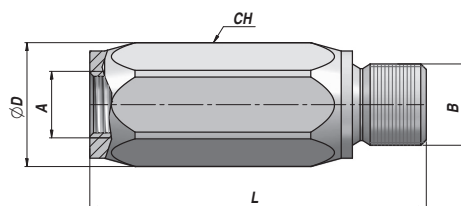
Code Code	A - B BSP	Q MAX l/min	P MAX bar	Type Type	L	ØD	CH	kg
VSG303.C10000	1/4"	30	400	VUR 010-C	58	21	19	0,10
VSG303.C20000	3/8"	50	400	VUR 020-C	62	27	24	0,18
VSG303.C30000	1/2"	90	350	VUR 030-C	71	33	30	0,31
VSG303.C40000	3/4"	130	300	VUR 040-C	83	40	36	0,56
VSG303.C50000	1"	180	270	VUR 050-C	106	59	45	0,91
VSG303.C60000	1"1/4	250	250	VUR 060-C	127	63	55	1,48
VSG303.C70000	1"1/2	380	200	VUR 070-C	138	74	65	2,37
V1501.0004	1/4"	20	350	VU 1/4"	62	21	19	0,1
V1501.0006	3/8"	45	350	VU 3/8"	68	26.5	24	0,18
V1501.0008	1/2"	70	350	VU 1/2"	77	34	30	0,32
V1501.0012	3/4"	110	350	VU 3/4"	88	40	36	0,49
V1501.0016	1"	160	350	VU 1"	105	46	41	0,68
V1501.0020	1"1/4	250	300	VU 1"1/4	135	63	55	1,64

Pression d'ouverture - Opening pressure : VUR [bar 0.5 (Standard) -4-8] - VU [bar 0,4/0,7 (Standard) -1-3-5-8]

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

VUR/CMF

CLAPET ANTI-RETOUR (ETANCHEITE PAR CONE)
CHECK VALVE (POPPET TYPE)

Code Code	A - B BSP	Q MAX l/min	P MAX bar	Type Type	L	ØD	CH	kg
VSG305.C10000	1/4"	30	400	VUR 010-CMF	58	21	19	0,10
VSG305.C20000	3/8"	50	400	VUR 020-CMF	62	27	24	0,18
VSG305.C30000	1/2"	90	350	VUR 030-CMF	71	33	30	0,31
VSG305.C40000	3/4"	130	300	VUR 040-CMF	76	40	36	0,56
VSG305.C50000	1"	180	270	VUR 050-CMF	106	59	45	0,91
VSG305.C60000	1"1/4	250	250	VUR 060-CMF	127	63	55	1,48

Pression d'ouverture - Opening pressure : bar 0.5 (Standard) - 4 - 8

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING



Type VUC check valves

- Poppet type

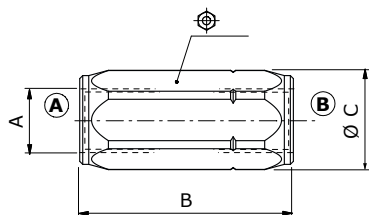
Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C (122°F) temperature.

		VUC 14	VUC 38	VUC 12	VUC 34	VUC 100	VUC 114	VUC 112
Nominal flow		30 l/min (7.9 US gpm)	50 l/min (13.2 US gpm)	90 l/min (23.8 US gpm)	130 l/min (34.3 US gpm)	180 l/min (47.6 US gpm)	250 l/min (66 US gpm)	380 l/min (100 US gpm)
Max. pressure		400 bar (5800 psi)	400 bar (5800 psi)	350 bar (5100 psi)	300 bar (4350 psi)	270 bar (3900 psi)	250 bar (3600 psi)	200 bar (2900 psi)
Oil leakage				0.25 cm³/min (0.015 in³/min) 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				-40°C (-40°F) to 100°C (212°F)				
Weight	Steel	0.10 kg (0.22 lb)	0.18 kg (0.40 lb)	0.31 kg (0.68 lb)	0.56 kg (1.23 lb)	0.91 kg (2.01 lb)	1.48 kg (3.26 lb)	2.37 kg (5.22 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions



Dimensions are in mm-in

Valve type	A	B	Ø C	Ø
VUC 14	G 1/4	58 - 2.28	21 - 0.83	19
VUC 38	G 3/8	62 - 2.44	27 - 1.05	24
VUC 12	G 1/2	71 - 2.79	33 - 1.30	30
VUC 34	G 3/4	83 - 3.27	40 - 1.57	36
VUC 100	1	106 - 4.17	59 - 2.32	45
VUC 114	G 1 1/4	127 - 5	63 - 2.48	55
VUC 112	G 1 1/2	138 - 5.43	74 - 2.91	65

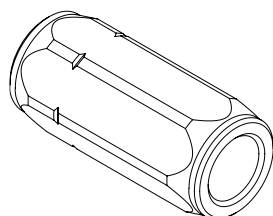
Ordering codes and description composition

Port size Opening pressure (bar)

VUC14/Pa0,5 FO

- without hole

FO with metering hole



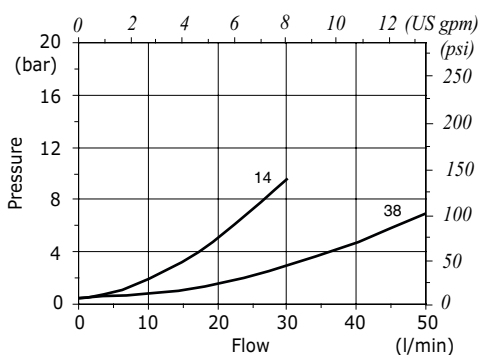
VUC complete valves

TYPE	CODE	DESCRIPTION
VUC14/Pa0,5	1312510100	Steel body, opening pressure 0.5 bar (7.25 psi), G1/4 thread
VUC38/Pa0,5	1312520100	Steel body, opening pressure 0.5 bar (7.25 psi), G3/8 thread
VUC12/Pa0,5	1312530100	Steel body, opening pressure 0.5 bar (7.25 psi), G1/2 thread
VUC34/Pa0,5	1312540100	Steel body, opening pressure 0.5 bar (7.25 psi), G3/4 thread
VUC100/Pa0,5	1312550100	Steel body, opening pressure 0.5 bar (7.25 psi), G1 thread
VUC114/Pa0,5	1312560100	Steel body, opening pressure 0.5 bar (7.25 psi), G1 1/4 thread
VUC112/Pa0,5	1312570100	Steel body, opening pressure 0.5 bar (7.25 psi), G1 1/2 thread

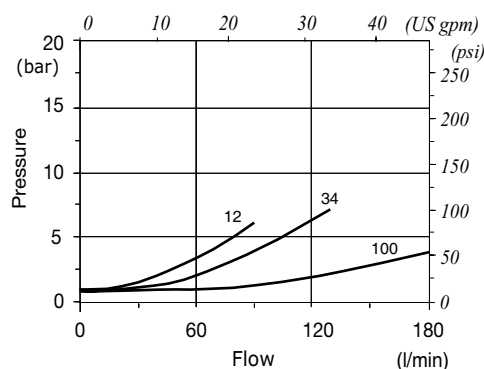
For different configurations and SAE thread please contact our Sales Dpt.

Rating diagrams

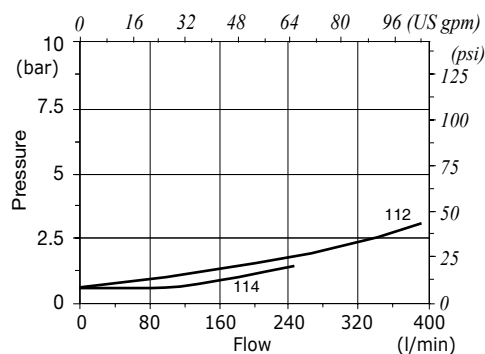
VUC14-VUC38 pressure drop vs. flow
opening pressure 0.5 bar (7.25 psi)



VUC12-VUC34-VUC100 pressure drop vs. flow
opening pressure 0.5 bar (7.25 psi)



VUC114-VUC112 pressure drop vs. flow
opening pressure 0.5 bar (7.25 psi)



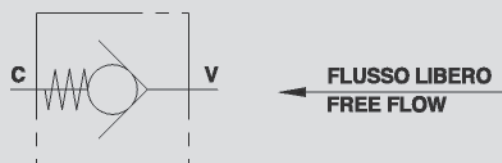
V1501.00xx
V1501.00xx

VALVOLE UNIDIREZIONALI CHECK VALVES

TIPO / TYPE

VU

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvole che consentono il flusso libero in un senso e lo bloccano nel senso opposto, utilizzata per mantenere in pressione un impianto idraulico.

MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Tenuta: a cono guidato. Non ammette trafilamenti.

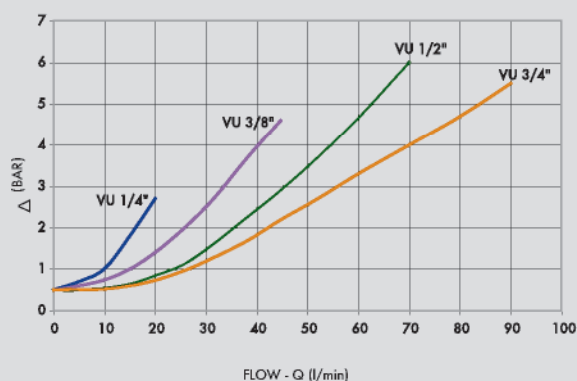
MONTAGGIO:

Collegare V all'alimentazione e C all'utilizzo.
Il flusso passa libero da V a C ed è bloccato nel senso opposto.

A RICHIESTA

- Pressione d'apertura diversa da quella standard: 1-3-5-8 Bar (specificare nella descrizione il valore della pressione d'apertura desiderato).
- Filetto NPT (codice di ordinazione VN... anziché VO... es: codice VU 1/4" NPT = VN590)
- Corpo in acciaio inox (VX...anziché VO es: codice VU 1/4" INOX = VX590)

PERDITE DI CARICO PRESSURE DROP CURVE



USE AND OPERATION:

Check valves allow free flow in one direction and is blocks the flow in the reverse direction, used to keep a hydraulic system pressurised.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Leakage: guided poppet - no leakage.

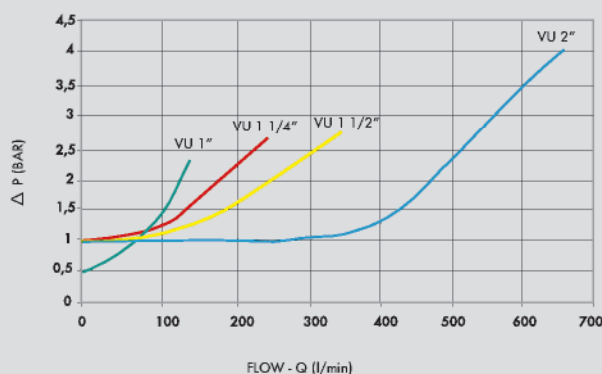
CONNECTIONS:

Connect V to the supply and C to the function.
Flow is free from V to C and blocked in the reverse direction.

ON REQUEST

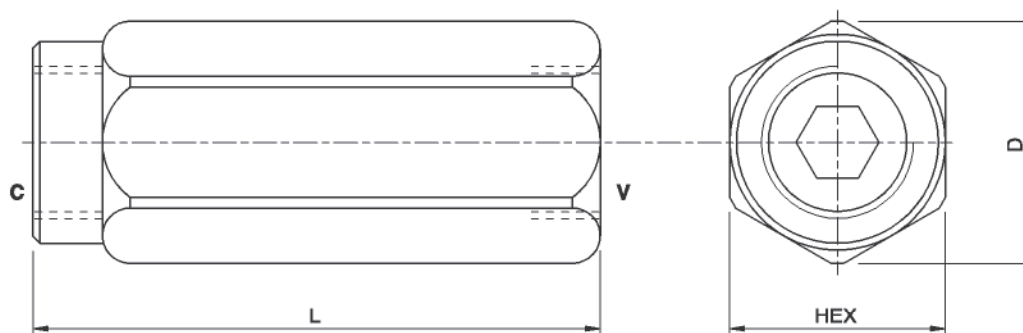
- Different cracking pressures: 1-3-5-8 bar (please specify the desired cracking pressure in the product description).
- NPT thread (code VN... instead of VO... example: VU 1/4" NPT code = VN590)
- Stainless steel body (VX instead of VO example: VU 1/4" INOX code = VX590)

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



V1501.00xx
V1402.XXXX

CODICE CODE	SIGLA TYPE	PORTATA MAX MAX FLOW L. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA STANDARD STANDARD CRACKING PRESSURE Bar
V0592	VU 1/8"	3	350	0,4/0,7
V0590	VU 1/4"	20	350	0,4/0,7
V0600	VU 3/8"	45	350	0,4/0,7
V0610	VU 1/2"	70	350	0,4/0,7
V0620	VU 3/4"	110	350	0,4/0,7
V0630	VU 1"	160	350	0,4/0,7
V0631	VU 1 1/4"	250	300	0,7/1
V0632	VU 1 1/2"	350	300	0,7/1
V0633	VU 2"	650	300	0,4/0,7



MOLLE - SPRINGS

codice code	0,4/0,7 Bar	1 Bar	3 Bar	5 Bar	8 Bar
VU 1/4"	V0590	V0590/1	V0590/3	V0590/5	V0590/8
VU 3/8"	V0600	V0600/1	V0600/3	V0600/5	V0600/8
VU 1/2"	V0610	V0610/1	V0610/3	V0610/5	V0610/8
VU 3/4"	V0620	V0620/1	V0620/3	V0620/5	V0620/8
VU 1"	V0630	V0630/1	V0630/3	V0630/5	V0630/8
VU 1" 1/4"	/	V0631	V0631/3	V0631/5	V0631/8
VU 1" 1/2"	/	V0632	V0632/3	V0632/5	V0632/8
VU 2"	V0633	/	/	/	/

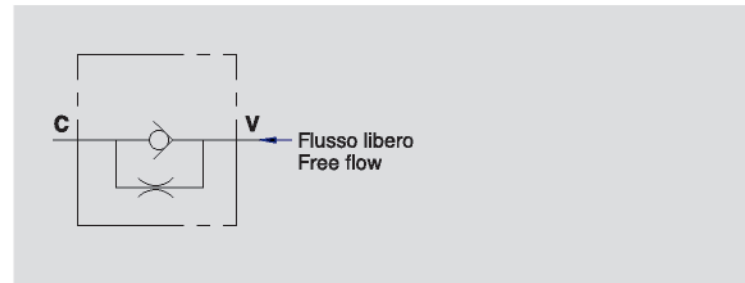
CODICE CODE	SIGLA TYPE	V - C GAS	L mm	HEX mm	D mm	PESO WEIGHT kg
V0592	VU 1/8"	G 1/8"	44	14	16	0,038
V0590	VU 1/4"	G 1/4"	62	19	21	0,104
V0600	VU 3/8"	G 3/8"	68	24	26,5	0,184
V0610	VU 1/2"	G 1/2"	77	30	34	0,322
V0620	VU 3/4"	G 3/4"	88	36	40	0,492
V0630	VU 1"	G 1"	105	41	46	0,676
V0631	VU 1" 1/4	G 1" 1/4	135	55	63	1,646
V0632	VU 1" 1/2	G 1" 1/2	145	60	69	1,950
V0633	VU 2"	G 2"	150	70	80	2,726

V1502-XXXX

VALVOLE UNIDIREZIONALI A STROZZATURA FISSA FIXED THROTTLE CHECK VALVES

TIPO / TYPE
VUSF

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvole regolatrici di flusso che permettono il flusso libero in una direzione e lo controllano in quella opposta. La portata è regolata dal diametro del foro di strozzatura ed è pertanto fissa.

MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Guarnizioni: BUNA N standard.
Tenuta: a cono guidato.

MONTAGGIO:

Collegare V all'alimentazione e C all'attuatore. Il flusso passa libero da V a C ed è controllato nel senso opposto. Lo strozzamento è ottenuto mediante uno o due fori calibrati, il cui diametro dovrà essere specificato in fase d'ordine.

A RICHIESTA:

- Pressione d'apertura diversa da quella standard: 1-3-5-8 Bar (specificare nella descrizione il valore di pressione desiderato)

USE AND OPERATION:

Free flow in one direction and restricted in reverse. The restriction is set by the hole diameter in the throttle valve and therefore it is fixed.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Seal: BUNA N standard.
Load holding: Guided poppet.

CONNECTIONS:

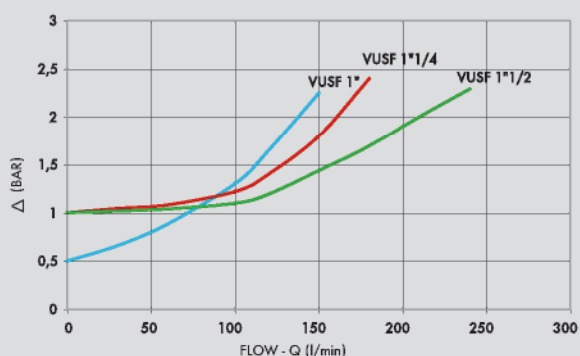
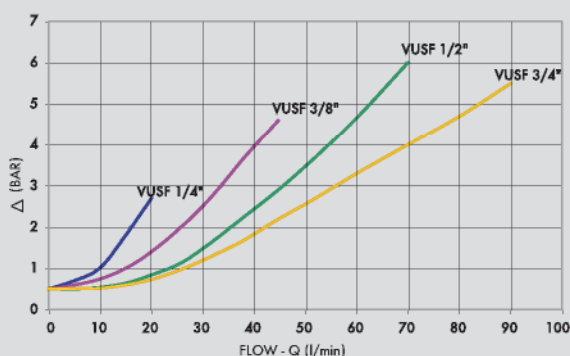
Connect V to the supply flow and C to the actuator. Flow is free from V to C and restricted in reverse. Throttling is obtained through one or two calibrated holes, the diameter of which has to be specified with the order.

ON REQUEST:

- Other settings available: 1-3-5-8 Bar (please specify the desired setting in the description)

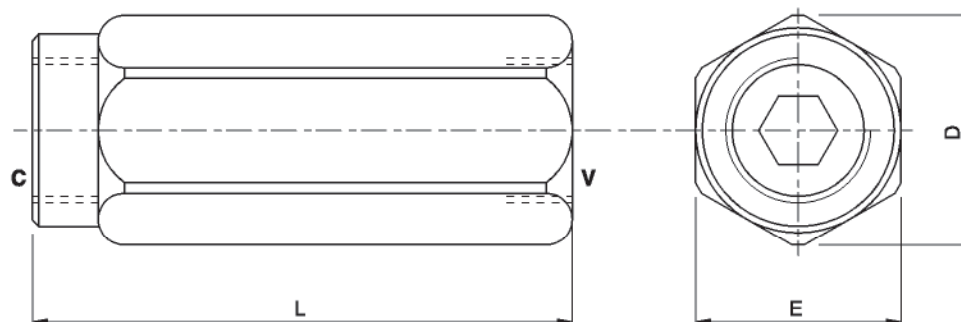
PERDITE DI CARICO PRESSURE DROP CURVE

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



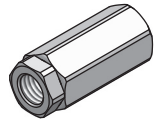
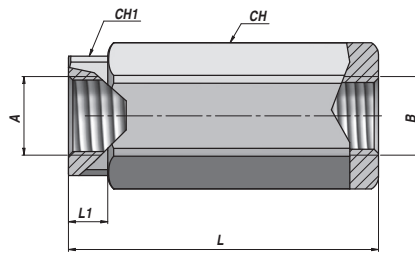
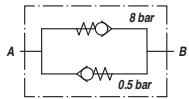
V1502-XXXX

CODICE CODE	SIGLA TYPE	PORTATA MAX MAX FLOW L. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA CRACKING PRESSURE Bar
V0590/*	VUSF 1/4"	20	350	±0,4/0,7
V0600/*	VUSF 3/8"	45	350	±0,4/0,7
V0610/*	VUSF 1/2"	70	350	±0,4/0,7
V0620/*	VUSF 3/4"	110	350	±0,4/0,7
V0630/*	VUSF 1"	160	350	±0,4/0,7
V0631/*	VUSF 1" 1/4	200	350	1
V0632/*	VUSF 1" 1/2"	300	350	1



CODICE CODE	SIGLA TYPE	V - C GAS	L mm	E mm	D mm	PESO WEIGHT kg
V0590/*	VUSF 1/4"	G1/4"	62	19	21	0,104
V0600/*	VUSF 3/8"	G3/8"	68	24	26,5	0,184
V0610/*	VUSF 1/2"	G1/2"	77	30	34	0,322
V0620/*	VUSF 3/4"	G3/4"	88	36	40	0,492
V0630/*	VUSF 1"	G1"	105	41	46	0,676
V0631/*	VUSF 1" 1/4	G1" 1/4	135	55	63	1,646
V0632/*	VUSF 1" 1/2"	G1" 1/2	145	60	69	1,950

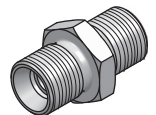
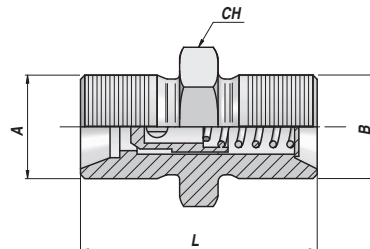
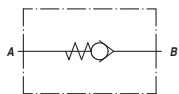
*: CODICE/1F: valvola dotata di un foro calibrato. Specificare le dimensioni del foro. Es. V0590/1F, VUSF 1/4" 1 FORO DIAM. 2 mm
 *: CODE/1F: valve with one calibrated hole, please specify hole diameter. Ordering example: V0590/1F, VUSF 1/4" 1 HOLE DIAM. 2 mm
 *: CODICE/2F: valvola dotata di due fori calibrati. Specificare la dimensione dei fori. Es. V0610/2F, VUSF 1/2" 2 FORI DIAM. 1 mm
 *: CODE/2F: valve with two calibrated holes, please specify hole diameter. Ordering example: V0610/2F, VUSF 1/2" 2 HOLES DIAM. 1 mm

VALVE BI-DIRECTIONNELLES (ETANCHEITE PAR CONE)
BIDIRECTIONAL CHECK VALVE (POPPET TYPE)
VRC

Code Code	A - B BSP	Q MAX l/min	P MAX bar	Type Type	L	L1	CH	CH1	kg
V1590.0606	3/8"	35	350	VRC 3/8"	100	11	30	27	0,45
V1590.0616	1/2"	55	350	VRC 1/2"	118	26	30	27	0,45

Pression d'ouverture - Opening pressure : $A > B = 0.5 \text{ bar}$ Pression d'ouverture - Opening pressure : $B > A = 8 \text{ bar}$
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

CLAPET ANTI-RETOUR (ETANCHEITE PAR CONE)
CHECK VALVE (POPPET TYPE)
VU MM

Code Code	A - B BSP	Q MAX l/min	P MAX bar	Type Type	L	CH	kg x 100
V1590.05941	1/4"	8	350	VU MM 1/4"-1	32	19	3,30
V1590.06041	3/8"	20	350	VU MM 3/8"-1	34	22	5,30
V1590.06141	1/2"	50	350	VU MM 1/2"-1	39	27	9,20
V1590.06241	3/4"	90	350	VU MM 3/4"-1	45	32	14,20
V1590.06341	1"	90	320	VU MM 1"-1	55	40	28,80
V1590.06371	1"1/4	250	320	VU MM 1"1/4-1	70	50	59,40
V1590.06381	1"1/2	300	320	VU MM 1"1/2-1	86	55	91,00
V1590.06391	2"	650	320	VU MM 2"-1	102	70	180,00

Pression d'ouverture - Opening pressure : VU MM 1/4" > 1" = bar 1 (Standard) - 3 - 6

Pression d'ouverture - Opening pressure : VU MM 1"1/4 > 2" = bar 1 (Standard) - 6 - 9

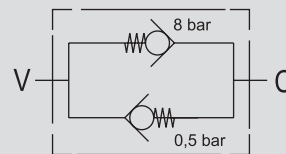
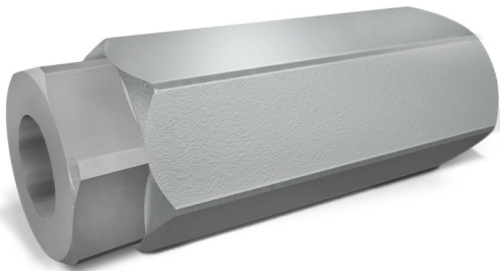
MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

VALVOLE BIDIREZIONALI

TIPO / TYPE

VRC

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM

BIDIRECTIONAL CHECK VALVES

IMPIEGO:

Valvole che consentono il controllo del flusso libero in entrambe le direzioni a diverse tarature.

USE AND OPERATION:

In the bidirectional check valves flow is controlled in both directions at different pressure setting.

MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato
Componenti interni: acciaio temprato termicamente e rettificato

MATERIALS AND FEATURES:

Body: zinc plated steel
Internal parts: hardened and ground steel

MONTAGGIO:

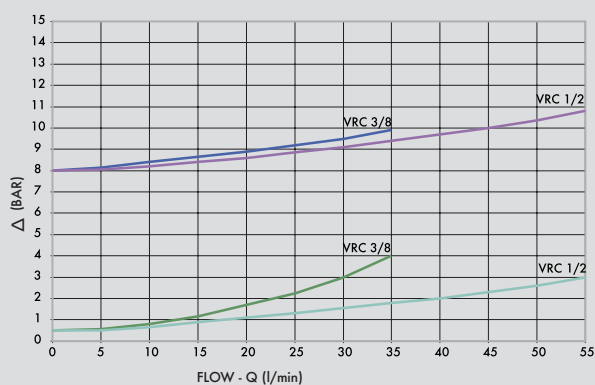
Collegare C o V all'alimentazione a seconda del tipo di regolazione del flusso che si vuole ottenere.

APPLICATIONS:

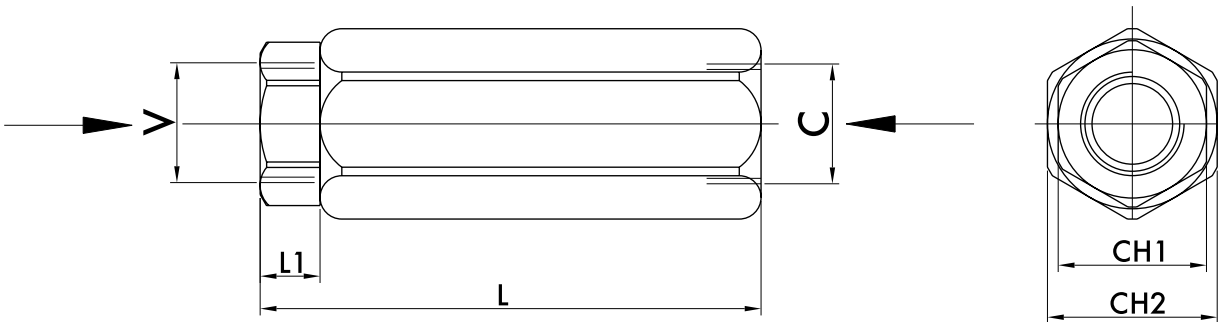
Connect V or C to the pressure flow according to the adjustment to be obtain.

PERDITE DI CARICO PRESSURE DROPS CURVE

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



CODICE CODE	SIGLA TYPE	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESS. APERTURA CRACKING PRESSURE V - C Bar	PRESS. APERTURA CRACKING PRESSURE C - V Bar
V0606	VRC 3/8"	35	350	0,5	8
V0616	VRC 1/2"	55	350	0,5	8



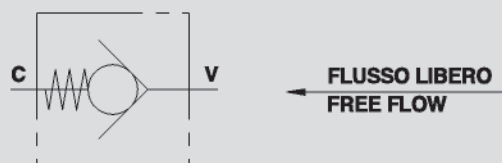
CODICE CODE	SIGLA TYPE	V - C GAS	L mm	L1 mm	CH1 mm	CH2 mm	PESO WEIGHT kg
V0606	VRC 3/8"	G3/8"	100	11	27	30	0,448
V0616	VRC 1/2"	G1/2"	118	26	27	30	0,448

VALVOLE UNIDIREZIONALI MASCHIO - MASCHIO

MALE/MALE CHECK VALVES

TIPO / TYPE
VU MM

SCHEMA IDRAULICO
HYDRAULIC DIAGRAM



IMPIEGO:

Valvole che consentono il flusso libero in un senso e lo bloccano nel senso opposto, utilizzata per mantenere in pressione un impianto idraulico.

MATERIALI E CARATTERISTICHE:

Corpo: acciaio zincato.
Componenti interni: acciaio temprato termicamente e rettificato.
Tenuta: a cono guidato. Non ammette trafilamenti.

MONTAGGIO:

Collegare V all'alimentazione e C all'utilizzo.
Il flusso passa libero da V a C ed è bloccato nel senso opposto.

A RICHIESTA

- Pressione d'apertura diversa da quella standard: 1-3-6-9 Bar (specificare nella descrizione il valore della pressione d'apertura desiderato).

USE AND OPERATION:

Check valves allow free flow in one direction and is blocks the flow in the reverse direction, used to keep a hydraulic system pressurised.

MATERIALS AND FEATURES:

Body: zinc-plated steel.
Internal parts: hardened and ground steel.
Leakage: guided poppet - no leakage.

CONNECTIONS:

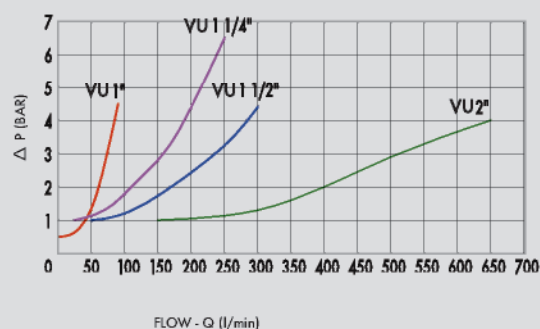
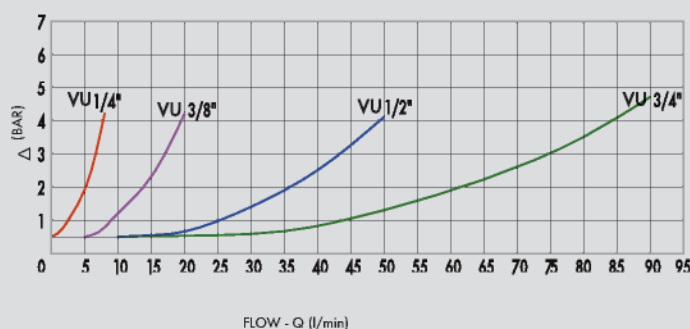
Connect V to the pressure flow and C to the actuator.
Flow is free from V to C and blocked in the reverse direction.

ON REQUEST

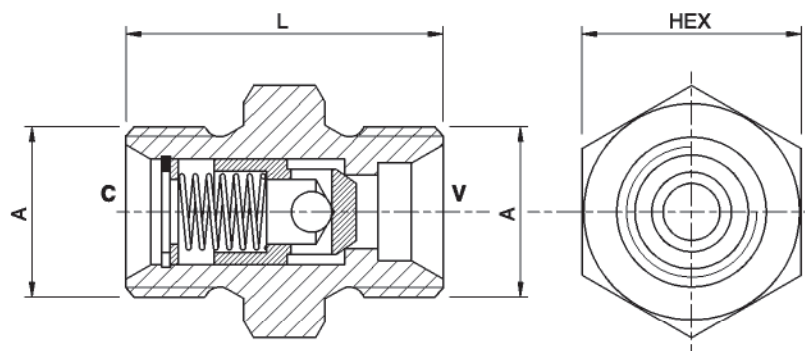
- Different cracking pressures: 1-3-6-9 bar (please specify the desired cracking pressure in the product description).

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	PORTATA MAX MAX FLOW Lt. / min	PRESSIONE MAX MAX PRESSURE Bar	PRESSIONE APERTURA STANDARD STANDARD CRACKING PRESSURE Bar
V0594/1	VU MM 1/4"	8	350	1
V0604/1	VU MM 3/8"	20	350	1
V0614/1	VU MM 1/2"	50	350	1
V0624/1	VU MM 3/4"	90	350	1
V0634/1	VU MM 1"	150	320	1
V0637/1	VU MM 1" 1/4	240	320	1
V0638/1	VU MM 1" 1/2	300	320	1
V0639/1	VU MM 2	650	320	1



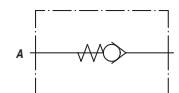
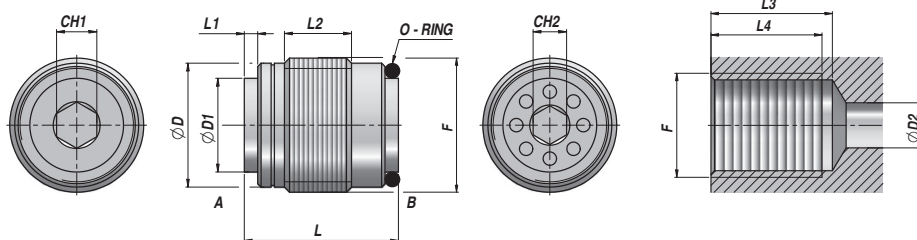
MOLLE - SPRINGS

codice code	1 Bar	3 Bar	6 Bar	9 Bar
VU MM 1/4"	V0594/1	V0594/3	V0594/6	/
VU MM 3/8"	V0604/1	V0604/3	V0594/6	/
VU MM 1/2"	V0614/1	V0614/3	V0614/6	/
VU MM 3/4"	V0624/1	V0624/3	V0624/6	/
VU MM 1"	V0634/1	/	V0634/6	V0634/9
VU MM 1" 1/4	V0637/1	/	V0637/6	V0637/9
VU MM 1" 1/2	V0638/1	/	V0638/6	V0638/9
VU MM 2"	V0639/1	/	V0639/6	V0639/9

CODICE CODE	SIGLA TYPE	A GAS	L mm	Hex mm	PESO WEIGHT kg
V0594/*	VU MM 1/4"	G1/4"	32	19	0,033
V0604/*	VU MM 3/8"	G3/8"	34	22	0,053
V0614/*	VU MM 1/2"	G1/2"	39	27	0,092
V0624/*	VU MM 3/4"	G3/4"	45	32	0,142
V0634/*	VU MM 1"	G1"	55	40	0,288
V0637/*	VU MM 1" 1/4	G1" 1/4	70	50	0,594
V0638/*	VU MM 1" 1/2	G1" 1/2	86	55	0,910
V0639/*	VU MM 2	G2"	102	70	1,800

VUI

CLAPET ANTI-RETOUR (ETANCHEITE PAR SPHERE) CHECK VALVE (BALL TYPE)



Code Code	F BSP	Q MAX l/min	P MAX bar	Type Type	L	L1	L2	ØD	ØD1	CH1	CH2	L3	L4	ØD2	kg x 100
VCG301.100000	1/4"	18	350	VUI 010	17.0	1.0	6.0	11.3	9.2	3	3	28	25	8	1,00
VCG301.200000	3/8"	25	350	VUI 020	18.5	1.8	7.5	14.8	11.0	4	3	30	27	9	2,00
VCG301.300000	1/2"	50	350	VUI 030	23.0	1.8	9.5	18.5	14.0	6	5	36	32	12	4,00
VCG301.400000	3/4"	78	350	VUI 040	28.5	2.7	14.5	24.0	19.0	8	8	42	37	17	7,00

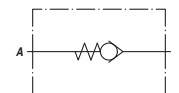
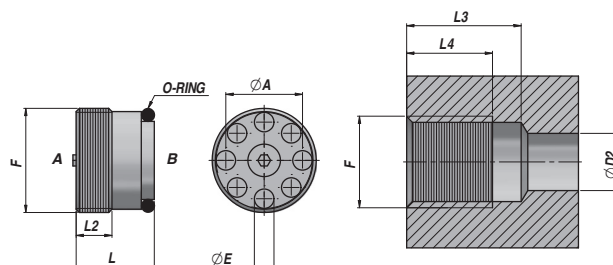
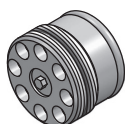
Pression d'ouverture - Opening pressure : bar 0.5

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

CARTOUCHE
CARTRIDGE

VRR

CLAPET ANTI-RETOUR (ETANCHEITE PAR CONE) CHECK VALVE (POPPET TYPE)



Code Code	F BSP	Q MAX l/min	P MAX bar	Type Type	L	L2	ØA	ØE	L3	L4	ØD2	O-ring	kg x 100
VCG302.010000	1/4"	20	350	VRR 010	8.8	4.2	8.8	2.2	23.5	21.0	7	8x1	1,00
VCG302.020000	3/8"	50	350	VRR 020	12.0	7.0	10.8	3.0	26.5	24.0	9	11x1.5	2,00
VCG302.030000	1/2"	80	350	VRR 030	14.8	8.0	13.8	3.5	31.0	27.5	12	14x1.78	3,00

Pression d'ouverture - Opening pressure : bar 0.5

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

CARTOUCHE
CARTRIDGE



Type VUS/INC
check valves

- Ball type

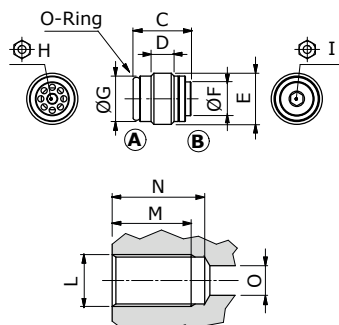
Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C (122°F) temperature.

	VUS/INC 14	VUS/INC 38	VUS/INC 12	VUS/INC 34
Nominal flow	18 l/min (4.8 US gpm)	25 l/min (6.6 US gpm)	50 l/min (13.2 US gpm)	78 l/min (20.6 US gpm)
Max. pressure	350 bar (5100 psi)			
Oil leakage	0.25 cm³/min (0.015 in³/min) 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	-40°C (-40°F) to 100°C (212°F)			
Weight	Steel 0.01 kg (0.02 lb)	0.02 kg (0.04 lb)	0.04 kg (0.09 lb)	0.07 kg (0.15 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions



Dimensions are in mm-in

Valve type	ØC	D	E	G	ØG	ØH	ØI	O-Ring
VUS/INC14	17-0.67	6-0.24	G 1/4	9.2-0.36	11.3-0.445	3	3	1x9
VUS/INC38	18.5-0.73	7.5-0.29	G 3/8	11-0.43	14.8-0.57	3	4	1.78x10.82
VUS/INC12	23-0.90	9.5-0.37	G 1/2	14-0.55	18.5-0.73	5	6	1.78x14
VUS/INC34	28.5-1.12	14.5-0.57	G 3/4	19-0.75	24-0.94	8	8	2.62x18.72

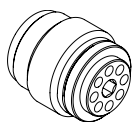
Valve cavity for	L	M	N	O
VUS/INC14	G 1/4	25-0.98	28-1.1	8-0.31
VUS/INC38	G 3/8	27-1.06	30-1.18	9-0.35
VUS/INC12	G 1/2	32-1.26	36-1.42	12-0.47
VUS/INC34	G 3/4	37-1.46	42-1.65	17-0.67

Ordering codes and description composition

VUS/INC 14/Pa0,5

Port size

Opening pressure (bar)



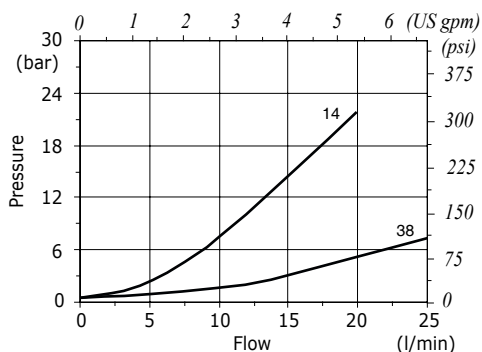
VUS/INC complete valves

TYPE	CODE	DESCRIPTION
VUS/INC 14/Pa0,5	1312110100	Opening pressure 0.5 bar (7.25 psi), G1/4 thread
VUS/INC 38/Pa0,5	1312120100	Opening pressure 0.5 bar (7.25 psi), G3/8 thread
VUS/INC 12/Pa0,5	1312130100	Opening pressure 0.5 bar (7.25 psi), G1/2 thread
VUS/INC 34/Pa0,5	1312140100	Opening pressure 0.5 bar (7.25 psi), G3/4 thread

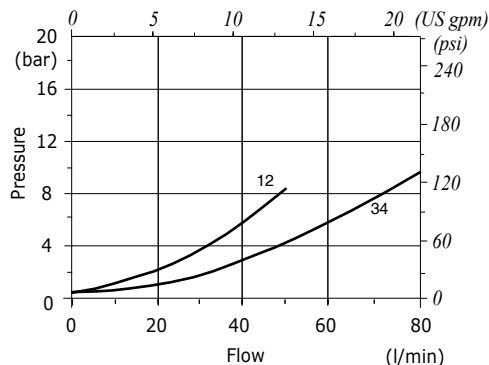
For different configurations and SAE thread please contact our Sales Dpt.

Rating diagrams

VUS/INC14-38 pressure drop vs. flow
opening pressure 0.5 bar (725 psi)



VUS/INC12-34 pressure drop vs. flow
opening pressure 0.5 bar (725 psi)





Type VUS/INC/A check valves

- Poppet type

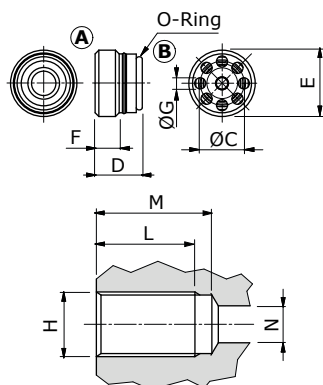
Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C (122°F) temperature.

	VUS/INC/A14		VUS/INC/A38	VUS/INC/A12
Nominal flow	20 l/min (5.3 US gpm)		50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)
Max. pressure			350 bar (5100 psi)	
Oil leakage			0.25 cm ³ /min (0.015 in ³ /min) 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 temperature for working conditions			from -40°C (-40°F) to 100°C (212°F)	
Weight	Steel	0.01 kg (0.02 lb)	0.02 kg (0.04 lb)	0.03 kg (0.06 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions



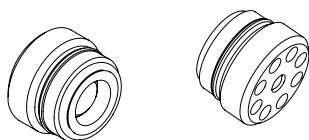
Dimensions are in mm-in

Valve type	ØC	D	E	F	ØG	O-Ring
VUS/INC/A14	8.8 - 0.35	8.8 - 0.35	G 1/4	4.2 - 0.16	2.2 - 0.09	1x8
VUS/INC/A38	10.8 - 0.42	12 - 0.47	G 3/8	7 - 0.27	3 - 0.12	1.5x11
VUS/INC/A12	13.8 - 0.54	14.8 - 0.58	G 1/2	8 - 0.31	3.5 - 0.14	1.78x14

Valve cavity for	H	L	M	N
VUS/INC/A14	G 1/4	21 - 0.83	23.5 - 0.92	7 - 0.27
VUS/INC/A38	G 3/8	24 - 0.94	26.5 - 1.04	9 - 0.35
VUS/INC/A12	G 1/2	27.5 - 1.08	31 - 1.22	12 - 0.47

Ordering codes and description composition

Port size
VUS/INC/A 38/Pa0,5
 Opening pressure (bar)



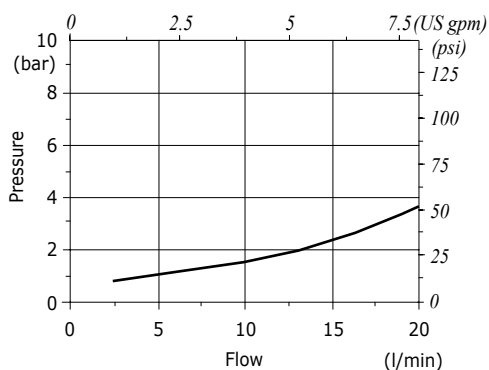
VUS/INC/A complete valves

TYPE	CODE	DESCRIPTION
VUS/INC/A14/Pa0,5	1312210101	Opening pressure 0.5 bar (7.25 psi), G1/4 thread
VUS/INC/A38/Pa0,5	1312220100	Opening pressure 0.5 bar (7.25 psi), G3/8 thread
VUS/INC/A12/Pa0,5	1312230100	Opening pressure 0.5 bar (7.25 psi), G1/2 thread

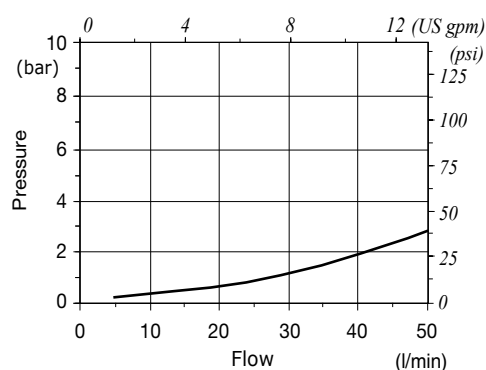
For different configurations and SAE thread please contact our Sales Dpt.

Rating diagrams

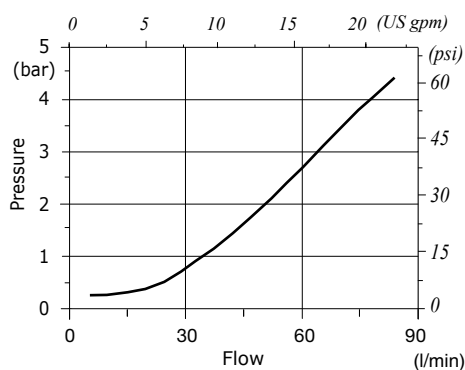
VUS/INC/A14 pressure drop vs. flow
 opening pressure 0.5 bar (725 psi)



VUS/INC/A38 pressure drop vs. flow
 opening pressure 0.5 bar (725 psi)

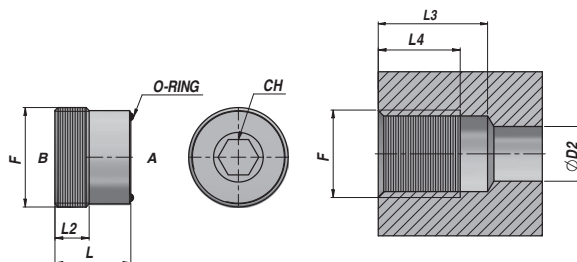
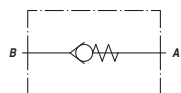
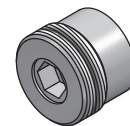


VUS/INC/A12 pressure drop vs. flow
 opening pressure 0.5 bar (725 psi)



CLAPET ANTI-RETOUR (ETANCHEITE PAR CONE)
CHECK VALVE (POPPET TYPE)

VRRRI

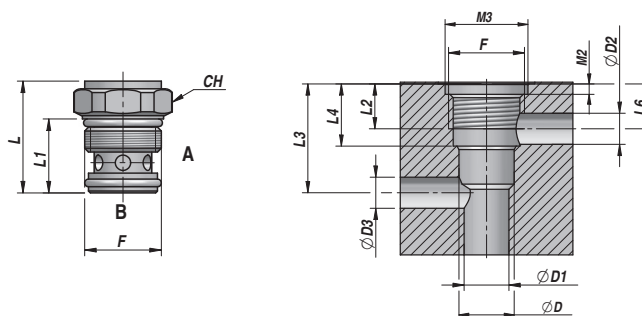
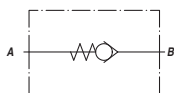
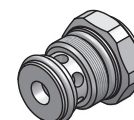


Code Code	F BSP	Q MAX l/min	P MAX bar	Type Type	L	L2	L3	L4	ØD2	CH	O-ring	kg x 100
VCG303.010000	1/4"	20	350	VRRRI 010	10.0	6	24.0	21.5	7	5	9x1	1,00
VCG303.020000	3/8"	50	350	VRRRI 020	11.5	7	25.5	23.0	9	6	10x1.5	2,00
VCG303.030000	1/2"	80	350	VRRRI 030	13.5	8	30.5	28.0	12	8	14.1x1.6	3,00

Pression d'ouverture - Opening pressure : bar 0.5

MATERIEL CORPS : ACIER
BODY MATERIAL : STEELCARTOUCHE
CARTRIDGECLAPET ANTI-RETOUR
CHECK VALVE

VUC



Code Code	F	Q MAX l/min	P MAX bar	Type Type	L	L1	ØD (H7)	L2	L3	L4	L5	L6	ØD1 max	ØD2 max	ØD3	M2	M3	CH	kg x 100
VCS302.200400	3/4-16 UNF	20	350	VUC 020	39.5	27.5	12.7	15	32	20.6	31	13	11	9	9.0	2.7	20.5	22	5,30
VCM302.400050	M22x1.5	40	300	VUC 040	34.5	28.0	19.0	13	33	21.0	32	15	18	9	9.5	3.3	23.0	27	7,50

VUC 020 : ETANCHEITE PAR SPHERE - BALL TYPE

VUC 040 : ETANCHEITE PAR CONE - POPPET TYPE

Pression d'ouverture - Opening pressure : VUC 020: 4 bar - VUC 040: 0.5 bar

MATERIEL CORPS : ACIER
BODY MATERIAL : STEELCARTOUCHE
CARTRIDGE



Type VUS/INC/B check valves

- Poppet type

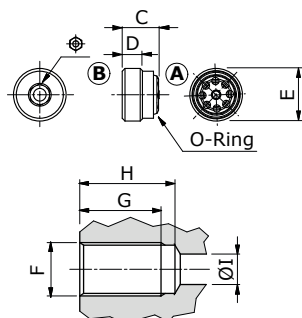
Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C (122°F) temperature.

	VUS/INC/B14		VUS/INC/B38	VUS/INC/B12
Nominal flow	20 l/min (5.3 US gpm)		50 l/min (13.2 US gpm)	80 l/min (21.1 US gpm)
Max. pressure			350 bar (5100 psi)	
Oil leakage			0.25 cm ³ /min (0.015 in ³ /min) 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 temperature for working conditions			from -40°C (-40°F) to 100°C (212°F)	
Weight	Steel	0.01 kg (0.02 lb)	0.02 kg (0.04 lb)	0.03 kg (0.06 lb)

NOTE - For different conditions, please contact Sales Dpt.



Dimensions



Dimensions are in mm-in

Valve type	ØC	D	E	Ø	O-Ring
VUS/INC/B14	10 - 0.39	6 - 0.24	G 1/4	5	1x9
VUS/INC/B38	11.5 - 0.45	7 - 0.27	G 3/8	6	1.5x10
VUS/INC/B12	13.5 - 0.53	8 - 0.31	G 1/2	8	1.6x14.1

Valve cavity for	F	G	H	ØI
VUS/INC/B14	G 1/4	21.5 - 0.85	24 - 0.94	7 - 0.27
VUS/INC/B38	G 3/8	23 - 0.90	25.5 - 1	9 - 0.35
VUS/INC/B12	G 1/2	28 - 1.10	30.5 - 1.2	12 - 0.47

Ordering codes and description composition

Port size
VUS/INC/B 14/Pa0,5
 Opening pressure (bar)



Complete valves

TYPE	CODE	DESCRIPTION
VUS/INC/B14/Pa0,5	1312310100	Opening pressure 0.5 bar (7.25 psi), G1/4 thread
VUS/INC/B38/Pa0,5	1312320100	Opening pressure 0.5 bar (7.25 psi), G3/8 thread
VUS/INC/B12/Pa0,5	1312330100	Opening pressure 0.5 bar (7.25 psi), G1/2 thread

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



Type VUI
check valves

- Poppet type

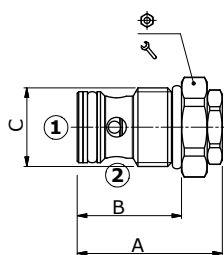
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

	VUI 38	VUI 38/HF	VUI 12	VUI 34	VUI 100
Nominal flow	25 l/min (6.6 US gpm)	40 l/min (10.6 US gpm)	40 l/min (10.6 US gpm)	100 l/min (26.4 US gpm)	160 l/min (42.3 US gpm)
Max. pressure	400 bar (5800 psi)	300 bar (4350 psi)	400 bar (5800 psi)	400 bar (5800 psi)	400 bar (5800 psi)
Oil leakage	0.25 cm ³ /min (0.015 in ³ /min) 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 temperature for working conditions	from -40°C (-40°F) to 100°C (212°F)				
Weight	Steel 0.08 kg (0.18 lb)	0.075 kg (0.16 lb)	0.15 kg (0.33 lb)	0.30 kg (0.66 lb)	0.54 kg (1.19 lb)

NOTE - For different conditions, please contact Sales Dpt.

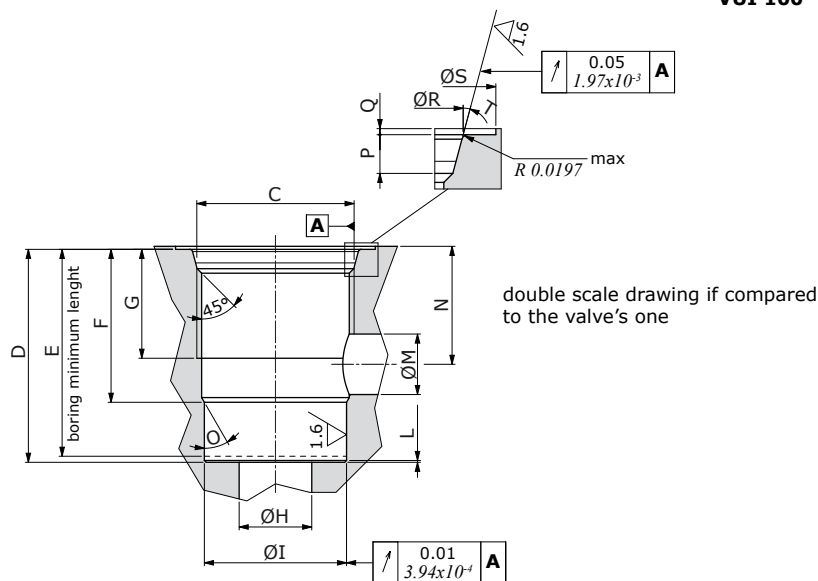


Dimensions



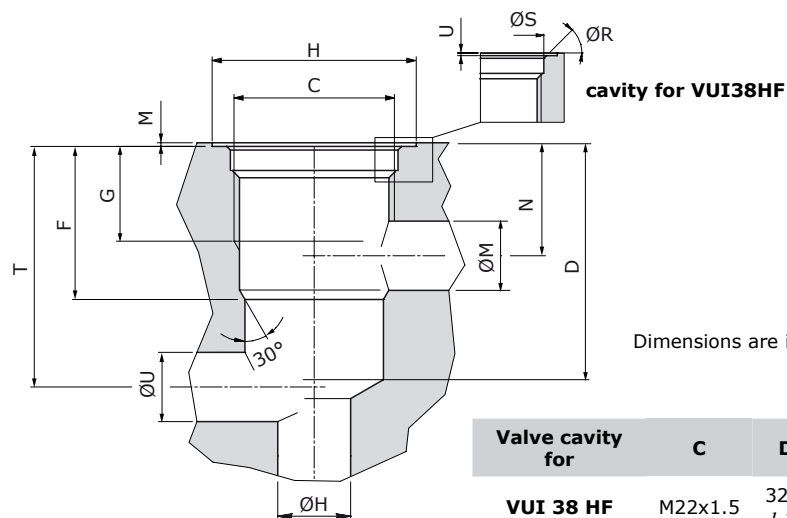
Dimensions are in mm-in

Valve type	A	B	C		Nm-lbft
VUI 38	42-1.65	27-1.06	M20x1.5	24	40-29
VUI 38/HF	34.5 - 1.36	28 - 1.10	M22x1.5	27	50-37
VUI 12	48-1.89	34.5-1.36	M26x1.5	30	60-44
VUI 34	68-2.68	51-2.01	M33x2	38	70-51
VUI 100	75-2.95	54.5-2.14	M42x2	46	80-59



Dimensions are in mm-in

Valve cavity for	C	D	E	F	G	ØH	ØI	L	ØM	N	O	P	Q	ØR	ØS
VUI 38	M20x1.5	29.5 1.16	28 1.10	20.5 0.81	16 0.63	10 0.39	16 H9 0.630 H9	/	7 0.275	16 0.63	30°	3 0.118	0.5 0.020	21 0.83	30 1.18
VUI 12	M26x1.5	35.2 1.39	34.2 1.35	25.3 0.996	18 0.71	12 0.47	23.5 H9 0.925 H9	0.3x45° 0.012x45°	10 0.39	19.5 0.77	30°	3.2 0.126	0.5 0.020	27.6 1.09	33 1.30
VUI 34	M33x2	52.5 2.07	51.5 2.03	39 1.54	28 1.10	20 0.79	27 H9 1.063 H9	0.5x45° 0.020x45	15 0.59	29.5 1.16	20°	3.2 0.126	0.5 0.020	34 1.35	40 1.57
VUI 100	75-2.95	57 2.24	55 2.17	41 1.61	29 1.14	28 1.10	38 H9 1.496 H9	1.5x45° 0.059x45	18 0.71	30 1.18	30°	4.5 0.177	0.5 0.020	43.5 1.71	50 1.97



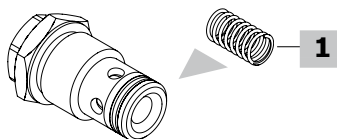
Dimensions are in mm-in

Valve cavity for	C	D	F	G	ØH	ØM	N	T	ØU
VUI 38 HF	M22x1.5	32.5 1.28	21 0.83	15 0.59	max. 18 max. 0.71	max.9 max. 0.35	15.5 0.61	33 1.30	9.5 0.37

Ordering codes and description composition

VUI 38/Pa0,5

1



VUI complete valves

TYPE	CODE	DESCRIPTION
VUI 38/Pa0,5	1300020400	Steel body, opening pressure 0.5 bar (7.25 psi)
VUI 38/HF/Pa0,5	1300020900	Steel body, opening pressure 0.5 bar (7.25 psi)
VUI 12/Pa0,5	1300030400	Steel body, opening pressure 0.5 bar (7.25 psi)
VUI 34/Pa0,5	1300040400	Steel body, opening pressure 0.5 bar (7.25 psi)
VUI 100/Pa0,5	1300050400	Steel body, opening pressure 0.5 bar (7.25 psi)

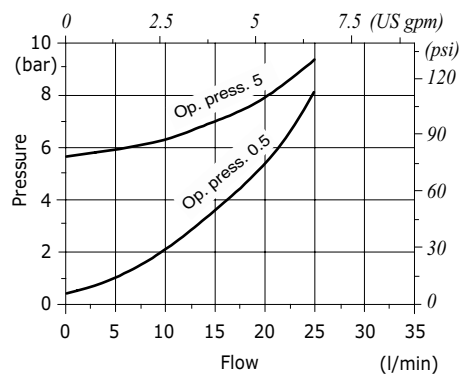
For configurations with FPM (Viton) seals please contact our Sales Dpt.

1 Pressure setting springs

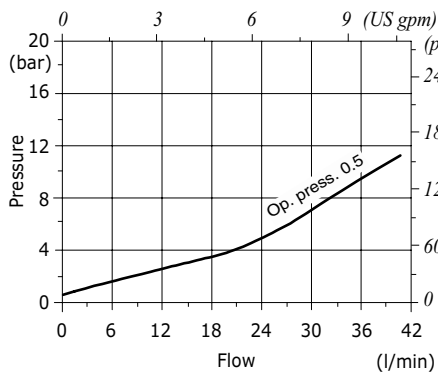
TYPE	CODE	DESCRIPTION
For VUI 38 valve		
Pa0,5	3ML1072001	Opening pressure 0.5 bar (7.25 psi)
Pa5	3ML1072003	Opening pressure 5 bar (72.5 psi)
For VUI 38 HF valve		
Pa0,5	1300020900	Opening pressure 0.5 bar (7.25 psi)
For VUI 12 valve		
Pa0,5	3ML1112900	Opening pressure 0.5 bar (7.25 psi)
Pa5	3ML1102801	Opening pressure 5 bar (72.5 psi)
For VUI 34 valve		
Pa0,5	3ML1155200	Opening pressure 0.5 bar (7.25 psi)
Pa5	3ML1155000	Opening pressure 5 bar (72.5 psi)
For VUI 100 valve		
Pa0,5	3ML1172801	Opening pressure 0.5 bar (7.25 psi)
Pa5	3ML1172800	Opening pressure 5 bar (72.5 psi)

Rating diagrams

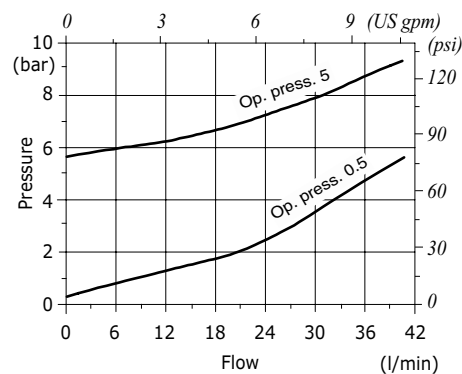
VUI 38 pressure drop vs. flow



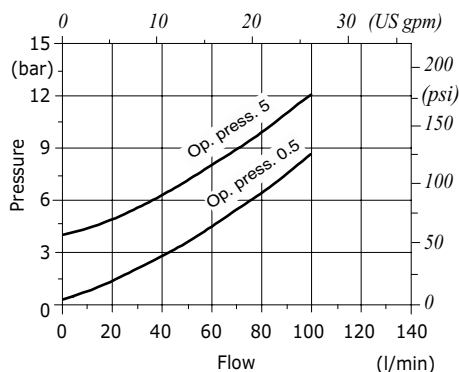
VUI 38 HF pressure drop vs. flow



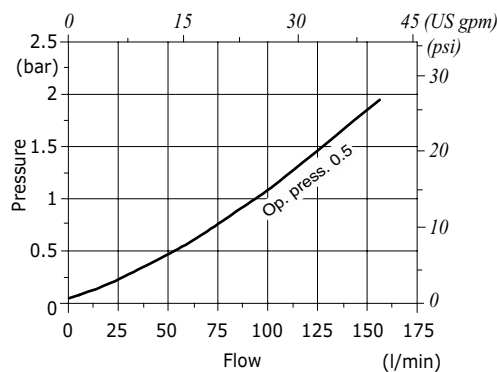
VUI 12 pressure drop vs. flow



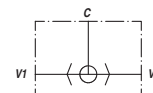
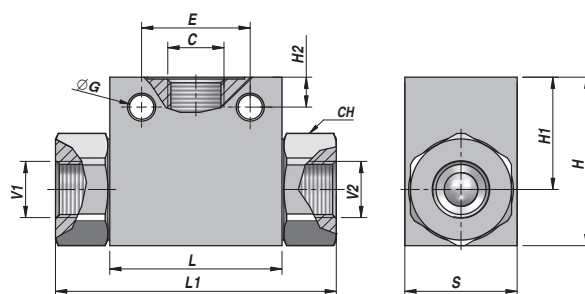
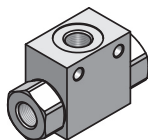
VUI 34 pressure drop vs. flow



VUI 100 pressure drop vs. flow



VU/SF

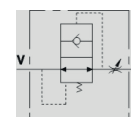
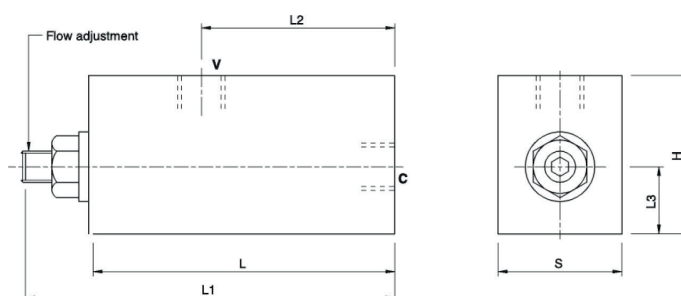
VALVE DE COMMUTATION
SHUTTLE VALVE

Code Code	C BSP	V1 - V2 BSP	Q MAX l/min	P MAX bar	Type Type	L	L1	ØG	E	H2	CH	H1	H	S	kg
VSG390.100000	1/4"	1/4"	35	500	VU/SF 010	36	69	5.5	25	7.5	22	22.5	35	25	0,27
VSG390.200000	3/8"	3/8"	50	500	VU/SF 020	45	75	6.5	29	8.0	27	30.0	45	30	0,46
VSG390.300000	1/2"	1/2"	90	500	VU/SF 030	57	94	5.5	36	9.0	30	32.0	50	35	0,74
VSG390.400000	3/4"	3/4"	140	350	VU/SF 040	65	100	6.5	50	6.5	41	37.5	60	50	1,41
VSG390.500000	1"	1"	180	300	VU/SF 050	80	126	10.5	60	11.0	46	54.5	80	50	1,87

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING

VUBR

CLAPETS DE RUPTURE DE TUYAU AVEC RÉGLAGE EXTERNE
HOSE BURST VALVES WITH EXTERNAL ADJUSTMENT

Code Code	V - C BSP	Q MAX l/min	P MAX bar	Type Type	L	L1	L2	L3	H	S	kg
V1690.0785	3/8"	40	300	VUBR 3/8"	76	93	47	16	40	30	0.63
V1690.0795	1/2"	70	300	VUBR 1/2"	76	93	47	16	40	30	0.59

MATERIEL CORPS : ACIER
BODY MATERIAL : STEEL

MONTAGE EN LIGNE
LINE MOUNTING



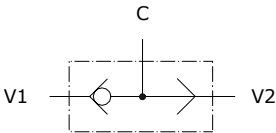
Type VT shuttle valves

- Shuttle valves
- Ball type

Technical specifications and diagrams are measured with mineral oil ISO VG32 at 50°C (122°F) temperature.

		VT 14	VT 38	VT 12	VT 34	VT 100
Nominal flow		35 l/min (9.3 US gpm)	50 l/min (13.2 US gpm)	90 l/min (23.8 US gpm)	140 l/min (37 US gpm)	180 l/min (47.6 US gpm)
Max. pressure		350 bar (5100 psi)				
Fluid		mineral based oil				
Viscosity		from 10 to 200 cSt				
Max. level of contamination		18/16/13 ISO4406				
Fluid temperature		with NBR seals: from -20°C (-4°F) to 80°C (176°F)				
Environmental temp. for working conditions		-40°C (-40°F) to 100°C (212°F)				
Weight	Steel	0.27 kg (0.59 lb)	0.464 kg (1.02 lb)	0.74 kg (1.63 lb)	1.406 kg (3.1 lb)	1.87 kg (4.12 lb)

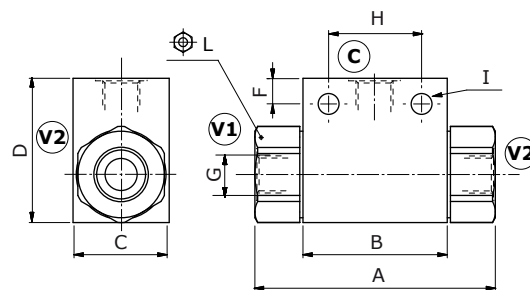
NOTE - For different conditions, please contact Sales Dept.



Dimensions

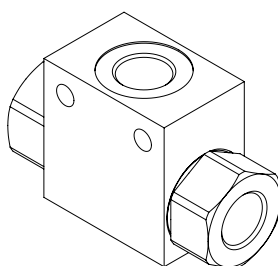
Dimensions are in mm-in

Valve type	A	B	C	D	E	F	G	H	I	L
VT 14	69 2.71	36 1.42	25 0.98	35 1.38	22.5 0.88	7 0.27	G 1/4	25 0.98	6 0.24	22
VT 38	75 2.95	45 1.77	30 1.18	45 1.77	30 1.18	8 0.31	G 3/8	29 1.14	6.5 0.25	27
VT 12	94 3.7	57 2.24	35 1.38	50 1.97	32 1.26	9 0.35	G 1/2	36 1.42	5.5 0.22	30
VT 34	100 3.94	65 2.56	50 1.97	60 2.36	37.5 1.48	6.5 0.25	G 3/4	50 1.97	6.5 0.25	41
VT 100	126 4.96	80 3.15	50 1.97	80 3.15	54.5 2.14	11 0.43	G 1	60 2.36	10.5 0.41	46



Ordering codes and description composition

Port size
VT 14



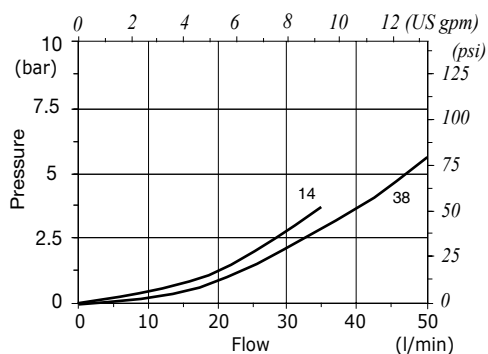
1 VT complete valves

TYPE	CODE	DESCRIPTION
VT14	1323012100	Steel body, G1/4 ports
VT38	1323022100	Steel body, G3/8 ports
VT12	1323032100	Steel body, G1/2 ports
VT34	1323042100	Steel body, G3/4 ports
VT100	1323052100	Steel body, G1 ports

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

Rating diagrams

VT14-38 pressure drop vs. flow



VT12-34-100 pressure drop vs. flow

